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	Sara Carciotti (UNITS)	
	Margherita Cipriano (UNITS)	
Author (a)	Paolo Ferrari (UNITS)	
Author (s)	Chiara Gelmini (UNITS)	
	Alberto Locatelli (UNITS)	
	Walter Ukovich (UNITS)	
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EXECUTIVE SUMMARY

The purpose of this document is to collect results and evaluation of the three training sessions produced in STEP-UP project Work Package 5, Activity 5.1, led by UNITS and involving all the project partners. The document proposes a summary of the three training sessions and a comprehensive overview of the proposed training work for the STEP-UP project.

For each training session this document illustrates the preparation phase, the actual realization and the feedback collected. We included in this document all the lecturers' presentations. Moreover, topics covered, teachers involved, audience and other stakeholders are listed and described, together with links to all the relevant material and to the questionnaires. All the material collected is available through a web repository (www.step-up.training) designed and built within the project activities. Further in this document we explain the structure of the webpage.

At the end of this document we consider all the evaluations and give an overall assessment and conclusions.

The document includes the following chapters:

- Chapter 1, An introduction to the document
- Chapter 2, The aim of the Training Activity
- Chapter 3, Realization of the I Training Session (Report)
- Chapter 4, Realization of the II Training Session (Report)
- Chapter 5, Realization of the III Training Session (Report)
- Chapter 6, Description of web repository of STEP-UP Training Session
- Chapter 7, Overall evaluation and conclusion

1. INTRODUCTION

STEP-UP faces the lack of a real sustainable mobility planning by promoting the multimodality in the Programme area. The geographical characteristics of some areas i.e. presence of islands and rural areas, make also integrate connections necessary with focus on inland connections to the coast. Moreover, existing transport connections are often inefficient to answer modern life needs and manage touristic flows mostly during peak season. STEP-UP will transfer the ICT/ITS applications also during low season in other scenarios (e.g. info-mobility system). Since Croatia joined to EU, commercial relationship between these two countries has increased consistently.

STEP-UP solution uses different transport modes and combines them to provide a seamless solution. The mobility platform has great potential: it will be ready to collect and integrate other services such as booking&ticket purchase and moreover, including territorial information.

To enhance the effectiveness of STEP-UP, it has been crucial to strengthen the knowledge on rather new scenarios and topics.

Some STEP-UP main goals had to be taken into account during the development of WP5:

- promote multimodal passenger mobility;
- facilitate the access to the services offered;
- combine in a global vision transport and tourism aspects;
- capitalize efforts and the outputs reached from INTERMODAL project.

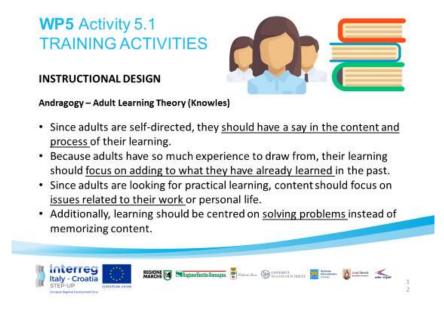
These has been the meanings and aims of WP5 Activity 5.1, led by UNITS and involving all the project partners.

1.1 Target audience

The target audience of this report is the STEP-UP partners and their technicians (if necessary) to allow performing of the STEP-UP platform.

PARTNER	Name of Referent	Contacts
Marche Region	Gabriele Frigio	Email: gabriele.frigio@regione.marche.it
Emilia Romagna Region	Laura Schiff	Email: Laura.Schiff@regione.emilia-romagna.it
Municipality of Lecce	Antonio Esposito	Email: antonio.esposito@comune.lecce.it
County of Split-Dalmatia	Martin Bućan	Email: Martin.bucan@dalmacija.hr
City of Sibenik	Petar Misura	Email: petar.misura@sibenik.hr
Zadar Airport LTD	Josip Sikirić	Email: josip.sikiric@zadar-airport.hr

2. The aim of the Training activity



In accordance with STEP-UP specific objective 3, the training activity aims to spread knowledge among the partnership and general audience and promoting a **network** of contacts including academy, industry, leading experts and the project partners, which will become one of the **sources of the information** deployed in the training sessions.

The set of training sessions will bring together partners and (future) professionals in the field of transport. The main goal is to educate on mobility and travel planner aspects focalizing in multimodal transport, sharing and managing transport data.

Transferring knowledge is understood both in space and in time, by **creating a network of experts** and information and by **making the information obtained available to all interested stakeholders along the time**. In fact, each training session will be available as a podcast later to all interested stakeholders.

Activity 5.1	
Training Activities	

Set of TRAINING SESSION recorded and available on a WEBPAGE

The key words of the WP5 Activities are "**Capitalize means to transfer knowledge**", and this Work Package means especially to create a sustainable future for the project and the field of sustainable tourism through the enhancement of the knowledge.

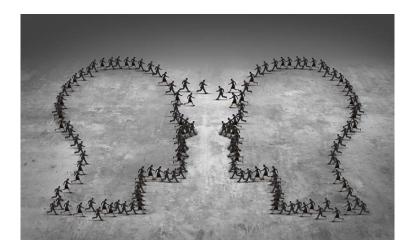


Figura 1 www.business2community.com

The design oft he Training Sessions kept in mind the principles of Instructional design, and in particular Adult Learning Theory (Knowles):

- Since adults are self-directed, they should have a say in the content and process of their learning.
- Because adults have so much experience to draw from, their learning should focus on adding to what they have already learned in the past.
- Since adults are looking for practical learning, content should focus on issues related to their work or personal life.
- Additionally, learning should be centered on solving problems instead of memorizing content.

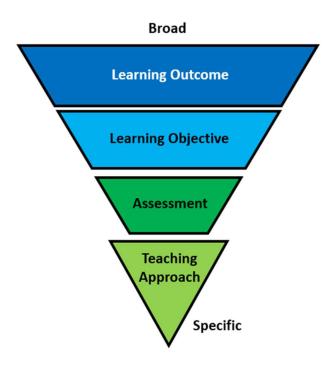
In the following scheme is graphically showed the chosen method to delineate the Training Sessions development. The proposed scheme looks like an inverted pyramid, starting from **Broad** and arriving to **Specific**, starting from the top:

Learning Outcome: consist in bring together partners and (future) professionals in the field of transport and in educate on mobility and travel planner aspects.

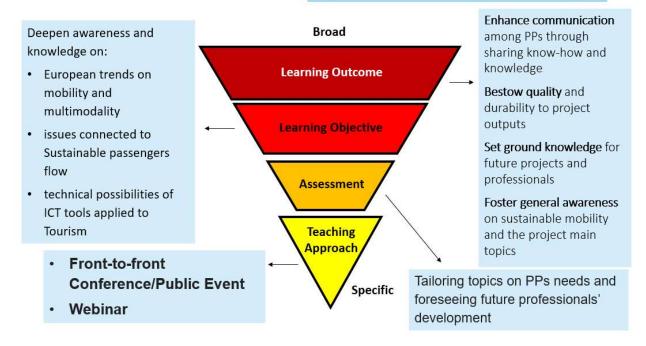
Learning Objective are brief statements that describe what students will be expected to learn by the end of school year, **course**, unit, **lesson**, project, or class period.

Assessment is the systematic process of documenting and using empirical data on the knowledge, skill, attitudes, and beliefs to refine programs and improve student learning.

Teaching Approach compares of the **principles and methods used** by teachers to enable student learning. These strategies are determined partly on subject matter to be taught and partly by the nature of the learner. In the case of STEP-UP Project, the following schema represent starting from the general and arriving to specific the purpose of training sessions, in the context of the overall project aims.



Capitalize means to transfer knowledge



Each session focuses on research for topics and expert speakers who can transfer knowledge to the audience in order to meet the needs of knowledge of project partners and to inform on the topics of the project step up all stakeholder in general. Feedback will be collected for each session, that will be useful to give the bases for the next similar activities applied to projects with similar objectives.

We have chosen an information structure including three training sessions.

I Training Session	Front-to-Front Conference / Public Event
II Training Session	Webinar
III Training Session	Front-to-Front open dialogue Public Event

The aims of the Training Sessions organized by UNITS are multiple:

- to share knowledge within the partnership;
- to spread awareness of STEP-UP topics and INTERREG, EU, ERDF funded projects among the broadest audience possible;
- to keep available materials and knowledge to foster the development of future possible professionals.

To fulfil this aims, the I Training Session targeted different Target Groups at the same time. This was taken into account during the design of the contents, the organization and especially during the communication activities. The realization of training sessions contemplates that before each training session a preliminary analysis will be performed to identify audience, topics, teachers or expert and modalities of the session.

3. Realization of the I Training Session (Report)

3.1 Preparation activities for the realization of the I Training Session

3.1.1 I Training Session: Identification of the Audience

To **identify audience** and **organize** the training session the most adequately, a preliminary analysis was performed. The First Training Session is intended as a Training Activity and also as the first shared appointment with the STEP-UP Training Actions. For this reason, a session was proposed in the form of a live Conference Session. This was done to create a network among the **project partners**, between the **local authorities**, all the interested parties and the citizenship, and to introduce and describe the nature of the lessons. The most direct approach to educating the audience is the face-to-face approach.

Training sessions will be useful for the amplest range of audience, the aim of the training session is to inform on the themes related to multimodality, as the main objective. Therefore, the audience was intended to include both people with some level of knowledge and people who did not have any competence in the suggested themes, and it will include citizens and university students.

Description of the different targets:

i. Project Partners

Each partner has expertise on specific topics, thanks to their institutional field of action, the support of their Technical Assistance and the know-how gained through previous projects.

We asked the partnership to communicate some areas of expertise they own and we involved a representative as speaker at the Training Session.

We also requested the areas where they wanted to improve their knowledge. They mostly were interested in all the topics we suggested.

ii. Stakeholders

We invited some stakeholders to the training sessions and involved some of them as speakers (e.g. Port Authority of Trieste). Obviously, the stakeholders are active in the transportation or mobility field, so they already own some know-how. Although their knowledge might be positively task driven, they may lack some ground basis or some more technically specific knowledge. Addressing to stakeholders is therefore particularly tricky, since there must be a balance between concrete facts and accuracy. Topics must be captivating and useful for their daily work.

iii. Students

Students best represent the future professionals in the field of transport. The job offer environment is changing seamlessly and especially the field of transport and mobility. It is of crucial importance that students who are about to choose their career are aware of trends that are happening and will lead to future changes, so that they will be more informed and prepared professionals in the future.

iv. Citizenship

Citizenship is called to respond to various responsibilities including participating in political processes and undertaking economic, social and cultural roles according to accepted norms, laws and regulations. Inform citizenship is important also in the themes of the project in fact the development of the main objective of STEP-UP will have repercussion in the way of thinking mobility both in the exceptional cases in which the citizen becomes a tourist but also in the everyday life in which the citizen moves within his city or the neighboring places for the care of himself or for work. Multimodality request an evolved way of thinking and citizenship are the firs kind of audience directly involved in the concrete change that the development of multimodality will bring.

In particular, we involved:

• Target Group 8: Education and training organizations as well as universities and research institutes

A university is partner in the project and will provide training sessions, also broadcasted as live streaming, that will be attended by both project partners and all stakeholders interested on multimodal topics. Following those sessions, any other education or training organizations as well as other universities or research institutes, could replace similar initiatives, obviously with a previous agreement with the first university concerning the use of training materials.

• Target Group 1: General public

The end users are necessary to guarantee the reliability of the project after the end and they are the main target group who will give important feedback in terms of User Interface, User experience, reliability and ease to use the pilot tools. Main categories of general public identified as the most interested to the project outputs will consist of working people and tourists, but also all others citizens could obtain benefit from STEP-UP implementation.

• Target Group 2: Local, regional and national public authorities

Local, regional and national authorities, within IT-HR Programme Area, have to be considered fundamental because they represent the most important figures able both to increase the awareness

about ecofriendly transportation and sustainable tourism among different subjects (potential suppliers and potential service providers) and to promote their effective realization, through the definition of useful policy initiatives and operational activities. They are amply represented in the partnership.

• Target Group 3: Regional development agencies.

Regional development agencies, as operative branches of Regional authorities, are in charge of implementing theoretical regional policies, into actual actions. For example, Regions and local authorities draws up specific Regional/Urban Mobility Plans and foresees detailed guidelines which include the increase of multimodal transport, but the risk that those indications could remain not applied is tangible if regional agencies do not take care of those guidelines.

• Target Group 5: Transport associations

Target group Transport Associations Description: Transport associations can have a primary role promoting and incentivizing the diffusion of multimodal transport systems among their participants, but often, that associations do not know enough about multimodal themes and their benefits. So, they will be addressed in particular during WP5 implementation. They will be encouraged to participate in training activities in order to improve knowledge and data analysis on multimodal transport sector.

3.1.2 I Training Session: Modality of the session

The I Training Session was designed as a conference.

When choosing this modality, one decisive factor was the consideration that it would better reach the different audience targets and would better convey the knowledge to very different targets with a different level of awareness. Moreover, it would have been better for dissemination purposes.

The presentations of the speakers have been distributed throughout the day and interspersed with brief coffee breaks. All the project partners, the Croatian and Italian authorities, have been invited to participate.

The room has been equipped with a hundred chairs for the guests with a podium for the speaker and a projector with which the lecturer was able to show the supporting material for the presentation on his topic. A camera resumed the entire conference, the images and the audio of the live have been adequately transmitted live via the GoToMeeting software to allow even those unable to participate physically to follow the whole conference and ask questions via chat attached to the software.

3.1.3 I Training Session: Identification of the Topics

Work Package 5 responsible partner deemed it important to share with the partnership the definition of the topics for the session.

An initial analysis, considering the project expected outputs and pilot sites' implementation, led to a preliminary list of topics which was submitted to the partners to receive their feedback and better define the most appropriate topics.

The macro topics proposed to the partners are listed below in bullet points. For some of them a short descriptive sentence has been added to give more suggestions.

1. Multimodality, Inter-modality, Co-modality. Intermodal, multimodal public transport

- 2. European Projects concerning Mobility and Tourism
- 3. Touristic routes and connections between Italy and Croatia. Passengers transport and innovative systems. History, data, overview.
- 4. Data standardisation and harmonisation in the transportation field.
- 5. Big-data for transportation and tourism. Data fusion
- 6. ICT Platforms for touristic purpose.
- 7. **ETA**
- 8. Unified ticket, dynamics and governance. E-Ticketing.
- 9. E-mobility, E-cars.

STEP-UPList of Topics

1. Multimodality, Intermodality, Co-modality. Intermodal, multimodal public transport

To look up to Multimodality is a necessary step to improve the quality, safety and environmental sustainability of marine and coastal transport services and nodes. This topic includes an introduction and an overview on mobility new perspectives e.g. Maas Mobility as a Service.

1.1 Quality, safety and environmental sustainability

- Impact of the transport sector on the energy consumption and on climate change. Improve air quality and to promote good practices to significantly reduce pollution and to promote intermodality, in order to foster the use of different means of transport.
- Public transport with low carbon dioxide emission.

1.2 Marine and coastal transport services and nodes

- Innovative and alternative ways to optimize the carriage of persons and goods specially in our touristic coastal area.
- Presence of islands and rural areas, make also integrate connections necessary with focus on inland connections to the coast

1.3 New perspectives e.g. MaaS Mobility as a Service

1.4 Connecting urban/suburban rail/road

- Seamless solution: using all transport modes (train, ferry, public transport, flexible transportation – Demand Responsive Transport, etc.)

1.5 Intermodal mobility

- A resource for tourism development and encourage joint actions of the cross sector international partnerships aimed at developing new solutions for sustainable environmental development and intermodal transport

1.6 Tourism development prediction

Analysis of the last years' trends and near future trends forecast.

2 European Projects concerning Mobility and Tourism

An overview on European funded projects on Mobility and Tourism. European new perspective, trends and goals on multimodality, sustainability, e-mobility, enhancing waterways and making road flows lighter.

2.1 Intermodal in European strategies 2030 and 2050

2.2 Mentioned EU Project:

- 4PILLARS
- TISAR
- EASEWAY
- ECOMOBILITY
- MOSES
- ...

3 Touristic routes and connections between Italy and Croatia. Passengers transport and innovative systems. History, data, overview.

This topic aims to deepen the knowledge on the Programme Area, to understand the already existing connections and traffic flow between the two Countries involved in the project. An in-depth analysis on geographical, economical and historical features of tourism and passengers' flow in the Adriatic area. This overview will underline the importance of tourism for social and economic development.

The overview can include in a multidisciplinary approach a variety of aspects such as:

- Urbanization, economic and entrepreneurial development, utilities, social welfare, education, traffic.

4 Data standardisation and harmonisation in the transportation field.

In a multimodal travel planning platform, many travel aggregators receive property descriptions and availability data from different transport service providers. Each data provider may have its own data

schema and structure that must be standardized before it can be used. This topic wants to propose an overview on the main requirements and characteristics of data storing and standardisation. Furthermore, an excursus on specific standards will be given: Standard GTFS (General Transit Feed Specification), SIRI (European Standard for real-time information), DATEX II, and other standards connected to MaaS.

The lesson aims to:

- Better understand the data standardization as a data processing workflow that converts the structure of disparate datasets into a Common Data Format. Data Standardization can also be thought of as the transformation rules engine in Data Exchange operations.
- Better understand how data standardization enables the data consumer to analyse and use data in a consistent manner. Standardizing data helps you make the source data internally consistent; that is, each data type has the same kind of content and format.
- Give the fundamental knowledge towards the creation of a common communication protocol between different systems (ICT platforms) and services.
- Collect data in INTERMODAL projects.
- Work on a system based on standard/protocols for different objective and scenarios managed: tourists' and travellers' needs including those for existing citizens.

5 Big-data for transportation and tourism. Data fusion

Big data refers to data sets that are too large or complex for traditional data-processing application software to adequately deal with. The topic proposes an overview:

- on Big Data concept;
- on the potential of Big Data applied to transportation and tourism;
- on Big Data characteristics (Volume, Variety, Velocity, Veracity);
- on Big Data Architecture. "5C architecture" (connection, conversion, cyber, cognition, and configuration);
- on the concept of Big Data applied to transportation and tourism. An overview on Big Data.

5.1 Collecting, sharing and managing transport data

5.2 Algorithms for the optimization of multimodal transport

The lesson aims to:

- Better understand the algorithms for the optimization of multimodal transport, and on collecting, sharing and managing transport data

6 ICT Platforms for touristic purpose.

This topic presents an overview on ICT Platforms for touristic purpose. Focusing on:

6.1 ICT Platforms for touristic purpose. State of the art on existing platforms.

- Example of existing platform (e.g. Transport for London).
- Local ICT platform.
- 6.2 High level platform design.

6.3 APPs and info-mobility data for tourism

6.4 Weather data integrated to ICT Platforms

The lesson aims to:

- Evidence the main requirements and possibilities, such as database creation with useful and relevant mobility data including the real-time information thanks the integration with AVM system.
- Design and developing of added modules such as booking & ticketing to offer a complete solution according to a global vision.
- Develop high quality level of services, improve the ITS level at Regional level, make the current services more reliable and attractive.
- transfer the ICT/ITS applications also during low season in other scenarios (e.g. info-mobility system)
- Permits both citizens and tourists, will be able to have benefits in terms of a better travel planning (more sustainable and with less time spent finding best solutions or purchasing tickets thanks to the ICT channel)

7 ETA

Estimated Time of Arrival, requirements and how to integrate this added module to the platform.

8 Unified ticket, dynamics and governance. E-Ticketing.

This topic presents an overview on:

8.1 Unified ticket as added module fundamental to increase platform efficiency and impact.

8.2 Main requirements and strategies. Examples of virtuous existing

8.3 e-roaming?

Tourist information useful for an extended mobility services such as e-roaming that enables additional visibility and promotion of multimodal transportation across inland (network of electric vehicles and electric bicycles)

9 E-mobility, E-cars.

This topic presents an overview on E-mobility, E-cars, Multimodality integrated with E-Mobility.

9.1 Eco – Mobility

To better tailor the training sessions on the overall needs the list was shared with all PP, to give them the possibility to provide comments on the topics, or suggest new ones.

Submission of the list to the Project Partners was also useful to **analyse their internal expertise**, possibly to be shared with the other partners during the Training Sessions, to **analyse their needs**, the areas where their knowledge or level of expertise needed to be improved through Training Sessions.

Follows the message sent to the partners to invite them to participate actively with suggestions and requests to enrich the panorama of knowledge on the issues pertaining to the STEP-UP project.

"

Dear STEP-UP partners,

As WP5 leaders, we at UNITS think the Steering Committee Meeting is a great chance to start the training session activity, sharing first of all the knowledge among the partners.

At this regard, you find in attachment a list of topics ("STEP-UP_ListOfTopics"), selected according to the project expected outputs and pilot sites' implementation. Some of them will be exploited in a first session of lectures on the 7th of May, the others in further webinars.

To better tailor the training sessions on the overall needs, we ask you to read the attachment AND:

- provide comments on the topics, or suggest new ones. For your convenience we also attach the excel file "STEP-UP_TOPICS_Comments&Esxperts_PartnerName". You can rename it after your PP Name and fill it with the comments, otherwise provide the comments in the form that is more suitable for you (e-mail, word document etc.);

- point out who of your internal technical team would participate with an approx 20 minutes (max 30) presentation. Please write name, expertise and contacts;

- recommend any external expert whom you think has the credentials to give a lecture on one of the proposed topics.

,,

This aspect, the involvement of the Project Partners was particularly important to enhance the **effectiveness of the Training Sessions**.

3.1.4 I Training Session: Identification of the Teachers and Experts

For the first training session, were searched and selected speakers who could offer a general overview of the topics of the STEP-UP project.

For each seminarian invited to intervene as an expert, the curriculum information of each speaker and the contents of the proposed topic are indicated below. A brief description of his actual professional role is indicated (if they are Project Partner also is specified) and brief biography fulfills the desire to

understand in a few lines the professional position and the training path of each speaker and how king of competence can conduce a person to be defined as expert in determined arguments.

A brief introduction follows to each selected speaker with a short biography highlighted on them in gray:

The lecturer **Valeria Corina**, in the role of Technical Assistance of Marche Region, was chosen to present STEP-UP project in order to offer an overview on the project to the audience, taking into consideration that some people in the audience were external to the project.

Valeria Corina

Sinergia, Technical Assistance of Marche Region (STEP-UP project Lead Partner)

Valeria Corina graduated in Building Engineering-Architecture at Polytechnic University of Marche Region. She has 5 years' experience in assisting in the preparation and management of R&D projects at international level, as well as in assisting in the management and financial reporting of European Projects, of European Transnational Cooperation Projects, Research and Innovation Projects promoted by national, regional and European Commission, Regional projects for active labour policies promoted by national bodies. She works at SINERGIA consulting from Pesaro since 2016 and presents a good knowledge of the transport and mobility context thanks to the projects managed for various national and private structures.

With a view to sustainability and in relation to climatic changes and the transnational multimodal transport, it was decided to invite the expert **Cinzia de Marzo**, Lawyer specialized in European Union Law & International Sustainable Tourism expert.

Cinzia De Marzo

Lawyer, specialized in European Union Law & International Sustainable Tourism Expert

Cinzia de Marzo, a lawyer specialised in EU Law and economy, is dedicated to sustainable tourism within the European Union. For several years now, she has been worked on the ETIS system, as an EU national expert at the Commission and as one of the people deeply involved in the implementation of EUSAIR (Adriatic-Ionian) EU Strategy. She talked with Stefan Lazic about the need for quality measurement for sustainable tourism and why is it important to work together to secure a brighter future.

To feed the network between projects active in themes similar to those of the step up project, **Massimiliano Angelotti**, member of the Central Department of Infrastructures and Territory, Friuli Venezia Giulia Region was invited to offer an overview of the MOSES project.

Massimiliano Angelotti

Central Department of Infrastructures and Territory, Friuli Venezia Giulia Region

Massimiliano Angelotti works at the Central infrastructure and territory management of Friuli Venezia Giulia Region in Italy, where Mr. Angelotti holds an Organizational position on the coordination of national and community monitoring and programming activities.

Furthermore, a general overview of the European Projects that the Port Network Authority of the Eastern Adriatic Sea – Port of Trieste participated, as lead partner as well as project partner enriches the conference thanks to the intervention of **Valentina Boschian**.

Valentina Boschian

Dott. Ing, Ph.D.

Port Network Authority of the Eastern Adriatic Sea – Port of Trieste, Digital Port Area

Dott. Ing. Valentina Boschian, Ph.D., works at the Port Network Authority of the Eastern Adriatic Sea – Port of Trieste, in the Digital Port Area. Since 2008, her expertise is focused on consultancy activities related to the analysis of ICT impact on new business cases, mainly in the field of transport and logistics. After obtaining a degree in Management Engineering and a PhD in Computer Science Engineering, she worked as a project manager in several international research projects. She is also expert in business model innovation.

Main skills: Analysis and modelling of processes; Assessment analysis (based on KPIs definition); Management of complex systems with analytical models; Analysis of business scenarios, Use Case identification and User Requirement definition; Project management, ICT applications in logistics and transportation management. Education

- Dottorato (Ph.D.) in Information Technology Engineering, University of Trieste (2012)
- Degree in Management Engineering and Integrated Logistics (graduation with first class honours, "110/110 e lode"), University of Trieste (2008)
- Degree in Management Engineering (graduation with first class honours, "110/110 e lode"), University of Trieste (2003).

In the role of Technical Assistance of Marche Region, STEP-UP project Lead Partner, **Daniela Vasari**, proposing an overview of MaaS, Mobility as a Service, principle at the basis of mobility in general, and **Giorgia Fanesi**, presenting the intermodality for a seamless solution.

Daniela Vasari

Project manager, solution designer in ITS projects and International cooperation, Pluservice, Technical Assistance of Marche Region (STEP-UP project Lead Partner)

Daniela Vasari graduated in Computer Engineering, in March 2009. She works in PluService since 2009 as Solution Designer for ITS in Passenger Transportation and since 2014 as Senior Project Manager. She is involved in EU-International-National projects on topics such as Demand Responsive Transport, Multi-modal Traveller Information Systems, Automatic Vehicle Monitoring systems. She is the Project Manager of several European funded projects.

Giorgia Fanesi

Software analyst and project manager, Pluservice, Technical Assistance of Marche Region (STEP-UP project Lead Partner) After her Master Degree in industrial engineering at the University of Bologna and an internship at IRU, Giorgia Fanesi has worked on ICT projects for PluService s.r.l. and is currently Software Analyst and Project Manager at myCicero.

Petar Mišura, with the role of Senior Associate for Development and EU projects, City of Šibenik (STEP-UP project Partner), contribute in the enrichment of the knowledge base with concrete ideas presenting new ideas and methods to ensure sustainable mobility in order to improve passengers' mobility.

Petar Mišura

Senior Associate for Development and EU projects, City of Šibenik (STEP-UP project Partner)

Petar Mišura graduated on the faculty of Economics and enrolled postgraduate studies in "Finance and Banking" at the Faculty of Economics and Business in Zagreb. After graduation, Petar Mišura enrolled Ph.D. "Economics" at the Faculty of Economics and Business in Split. At the beginning of his career, he worked at the Central Bureau of Statistics. After his experience, he started to work at the Jadranska Banka and soon after, at the Croatian Telecom (Hrvatski Telekom) where he completed the additional education in the field of the project management. In 2011 he became the first head of the newly established administrative department of the city of Sibenik for the Economy, Entrepreneurship, and Development, where he remains working until today. From 2013 to 2018 he worked as the assistant to the Head of the office and from 2018 he works as the acting chief of the office.

To deepen what concerns tourist flows and cultural routes have been invited and bring their very valid point of view and contribution **Vanja Lipovac**, Consultant for EU Projects, Zadar Airport (STEP-UP project Partner) presenting cultural routes and, in relation to them, potential for info-mobility services. **Laura Schiff**, Director for Quality of Touristic Areas, Emilia Romagna Region (STEP-UP project Partner), presenting the inter-modality as an opportunity to encounter the small villages and **Sara Carciotti**, Architect, PhD at Engineering and Architecture Department at the University of the Studies of Trieste, that creates the basis for identifying a city as one Smart Cruise Destination, highlighting the need to manage tourist flows with a view to the well-being of the city itself and of the tourists at the same time.

Vanja Lipovac,

Consultant for EU Projects, Zadar Airport (STEP-UP project Partner)

Vanja Lipovac has master degree in cultural sociology (2015). Shortly after, he started an internship in Zadar County department for EU projects and development, where he participated on preparation and implementation of several national and international EU projects. After finishing a year of internship he started working as a project manager for "Foster children rights" project, financed from European social funds. After the project ended, he started working as a consultant for EU project for Driope. He is mostly focused on projects regarding urban mobility, intermodality, info-mobility and sustainable development.

Laura Schiff

Director for Quality of Touristic Areas, Emilia Romagna Region (STEP-UP project Partner)

Laura Schiff is graduated in Agricultural Sciences in 1977 at the University of Bologna, with specialization in territorial planning. She held the positions of Manager of the Planning Office of the Mountain Community of the Appennino of Bologna and that of Head of the floriculture sector and public green. From 1991 to 2017, she was the urban quality manager of the tourist resorts at the Tourism Department of the Emilia-Romagna Region. From 1991 to 2017 he designed and managed numerous projects - both at the regional and European level - for sustainable development of tourist areas for the creation and enhancement of new tourist products. From 2017 she directs the Communication, promotion, coordination of European projects and special projects of the Emilia-Romagna Region; is coordinator for the Italin Regions for managing important projects financed by the Ministry of Tourism, with the purpose of deloping the Network of Italian Historic Villages, Landscapes and Accessible Tourism.

Sara Carciotti

Architect, PhD at Engineering and Architecture Department at the University of the Studies of Trieste Sara Carciotti is a young Italo-Slovenian architect specialized in exhibit design. After her master degree she has worked in the Architectural industry for a long period. Her international experience covers a wide range of projects and competitions from home units, commercial and retail mixed-use projects to urban design and sustainable strategy planning. After Venice, Paris and Ljubljana she has started the PhD program at the University of Trieste where actually works with the group of the prof. Ukovich. She is mostly focused on projects regarding urban mobility, people mobility and tourist's wellbeing.

Thanks to the contribution of **Maria Pia Fanti**, Full professor of System and Control Engineering, Department of Electrical and Information Engineering of the Polytechnic University of Bari, the conference organized on the occasion of the first training session of the STEP-UP project broadens the horizons to the new electric transport vehicles, that are revolutionizing the way of thinking and organizing mobility within the cities and beyond.

Maria Pia Fanti

Full professor of System and Control Engineering, Department of Electrical and Information Engineering of the Polytechnic University of Bari Maria Pia Fanti is full professor of System and Control Engineering at the Department of Electrical and Information Engineering of the Polytechnic of Bari (Italy). She received the Master degree in Electronic Engineering from the University of Pisa (Italy), in 1983. She has been visiting researcher at the Rensselaer Polytechnic Institute of Troy, New York, in 1999. Since 1983 she has worked in the Department of Electrical and Electronic Engineering of the Polytechnic of Bari (Italy), where she has been Assistant Professor from 1990 till 1998 and Associate Professor from 1990 till April 2012. Maria Pia Fanti is IEEE fellow for contributions to modeling and control of discrete event systems. Her research interests include Discrete event systems, Petri net, consensus algorithms, networked and control systems, management and modeling of logistic systems, automated manufacturing systems, automatic guided vehicle systems, traffic networks, and healthcare systems. Maria Pia Fanti is author of 2 books and 280+ papers, 85 journal papers, 11 book chapters and many conference proceeding papers.

3.1.5 I Training Session: Presented Topics

The final topics were chosen in collaboration with the lecturers invited to participate in the first training session. Below is the summary of the selected titles, followed by the presentations offered during the conference.

- 1. Sustainable destination management plans fostering climate change mitigation in the tourism sector, including transnational multimodal transport.
- 2. STEP UP INTERREG IT-HR Project. An overview of STEP-UP Project, INTERREG IT-HR.
- 3. Improving maritime and multimodal transport services between Italy and Croatia: the experience in MOSES project and the expectations from ICARUS project.
- 4. The role of Mobility as a Service
- 5. Electro-mobility integrated into transport and mobility networks
- 6. Intermodality for a seamless solution
- 7. Improving passengers' mobility, new ideas and methods to ensure sustainable mobility
- 8. Smart Cruise Destination
- 9. The beauty of small villages. Intermodality: the path to encounter it.
- 10. Cultural routes potential for info-mobility services
- 11. EU projects of the Port of Trieste: several tools for a smart port

3.1.5.1 Sustainable destination management plans fostering climate change mitigation in the tourism sector, including transnational multimodal transport. [Cinzia de Marzo]



New European

Consensus on development

Clean Planet for all

European policy

framework

 Towards a sustainable Europe by 2030

Paris climate Agreement to

COP24 Katowice Declaration

International principles

fight climate change

Manila Declaration

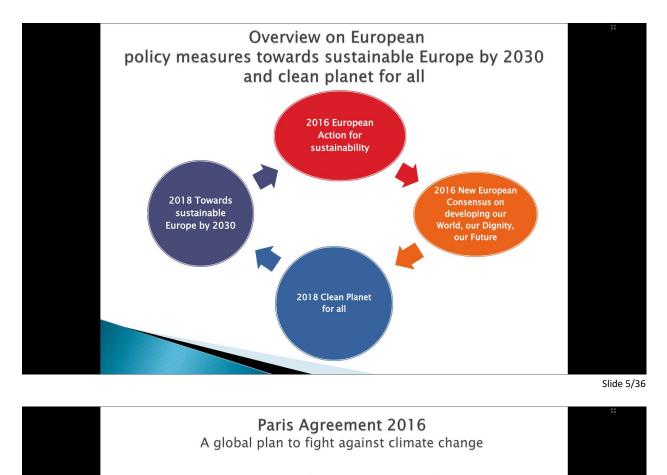
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- > The **Paris Agreement** establishes for the first time a **global goal** with the aim to enhance capacity, climate resilience and reduce climate vulnerability
- The Paris Agreement builds upon the <u>Convention</u> and for the first time brings all nations into a common cause to undertake take ambitious efforts to combat climate change and adapt to its effects, with enhanced support to assist developing countries to do so.
- The Paris Agreement central aim is to strengthen the global response to the threat of climate change by keeping a global temperature rise this century well below 2 degrees Celsius above pre-industrial levels and to pursue effort its to limit the temperature increase even further to 1.5 degrees Celsius.
- The Paris Agreement entered into force on 4 November 2016, thirty days after the date on which at least 55 Parties to the Convention accounting in total for at least an estimated 55 % of the total global greenhouse gas emissions have deposited their instruments of ratification, acceptance, approval or accession with the Depositary.



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The 5P principles of UN Agenda 2030 People-Planet- Prosperity- Peace- Partnership

The **2030** Agenda is Universal applying to all countries. It set out a **comphrehensive vision** of what needs to be achieved.

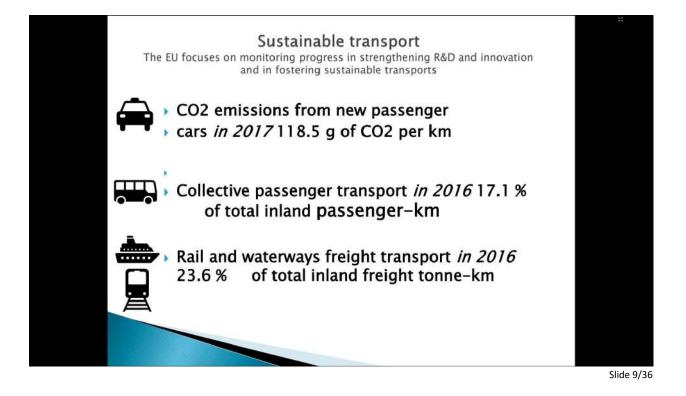
From a **global perspective**, the **17 SDGs** Goals and targets, will stimulate action over the next 15 years, in areas of critical importance for humanity and the planet

SDG9 *'Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation'*

SDG13 '*Take urgent action to combat climate change and its impact*'



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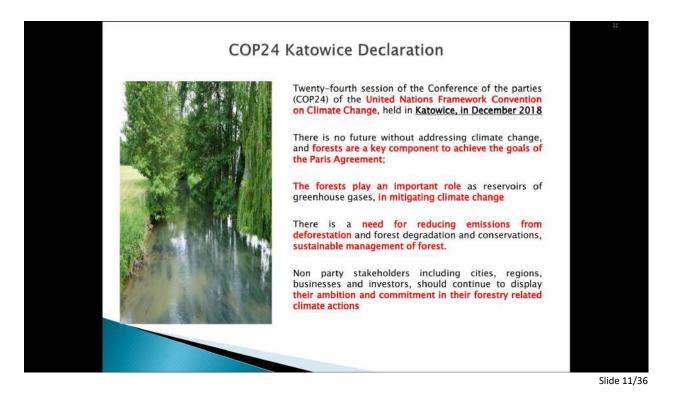
Manila Declaration A call for action on measuring sustainable tourism



6th UNWTO International Conference on Tourism Statistics: *Measuring Sustainable Tourism*, organized in Manila by the Government of the Philippines and the World Tourism Organization (UNWTO) on 21-23 June 2017 and on the occasion of the International Year of Sustainable Tourism for Development, 2017.

- Advocate for the development of a Statistical Framework for Measuring Sustainable Tourism (MST Framework) that extends the current frameworks beyond their primarily economic focus, in order to incorporate environmental, social and cultural dimensions, across commonly agreed spatial levels (global, national and sub-national) and paying attention to temporal considérations.
- Call upon all actors to facilitate the necessary means and resources for the development and subsequent in-country implementation of an MST Framework, noting the opportunities to tap into the richness of data currently available and identifying gaps for producing any additional data that may be needed.

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Political committent at EU level Joint statement by the Council and the representatives of the Member States, the European Commission and the Parliament (2017) 0626 The EU and its Member States must respond to current global challenges and opportunities in the light of the **2030 Agenda**. Implementation will be closely coordinated with the implementation of the **Paris Agreement on Climate Change** and other international commitments. Council conclusions (2017) 1038/17 A sustainable European future: > The EU response to the 2030 Agenda for Sustainable Development The European Council states that URGES the Commission to elaborate, by mid-2018, an implementation strategy outlining timelines, objectives and concrete measures to reflect the 2030 Agenda in all relevant EU internal and external policies, taking into account the global impacts of the EU's domestic actions . ÷ ... Slide 14/36





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Climate change impacts in Europe

Arctic region Temperature rise much larger than global average Decrease in Arctic sea ice coverage Decrease in Greenland ice sheet Decrease in permafrost areas Increasing risk of biodiversity loss Some new opportunities for the exploitation of natural resources and for sea transportation Risks to the Ilvelihoods of indigenous peoples

Coastal zones and regional seas Sea level rise Increase in sea surface temperatures Increase in ocean acidity Northward migration of marine species Risks and some opportunities for fisheries Charges in phytoplankton communities Increasing number of marine dead zones Increasing risk of water-borne diseases

Mediterranean region Large increase in heat extremes Decrease in precipitation and river flow Increasing risk of biodiversity loss Increasing risk of biodiversity loss Increasing risk of protect fires Increasing water demand for agriculture Decrease in crop yields Increasing risks for livestock production Increase In mortality from heat waves Expansion of habitats for southern disease vectors Decrease of potential for energy production Increase In energy demand for cooling Decrease In summer tourism and potential increase In other seasons Increase In multiple climatic hazards. Most economic sectors negatively affected High vulnerability to spillover effects of climate change from outside Europe

Atlantic region Increase in heavy precipitation events Increase in river flow Increasing risk of river and coastal flooding Increasing damage risk from winter storms Decrease in energy demand for heating Increase in multiple climatic hazards

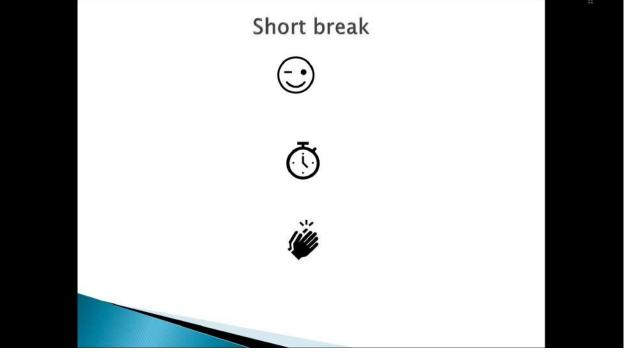
Boreal region Increase in snow, lake and river lice cover Increase in precipitation and river flows Increasing potential for forest growth and increasing risk of forest pests Increase in crop yields Decrease in energy demand for heating Increase in energy demand for heating Increase in summer tourism

Mountain regions Temperature rise larger than European average Decrease in glacier extent and volume Upward shift of plant and animal species High risk of species extinctions Increasing risk of forest pests Increasing risk from rock falls and Increasing in buckpropuse contential Changes in hydropower potential Decrease in ski tourism

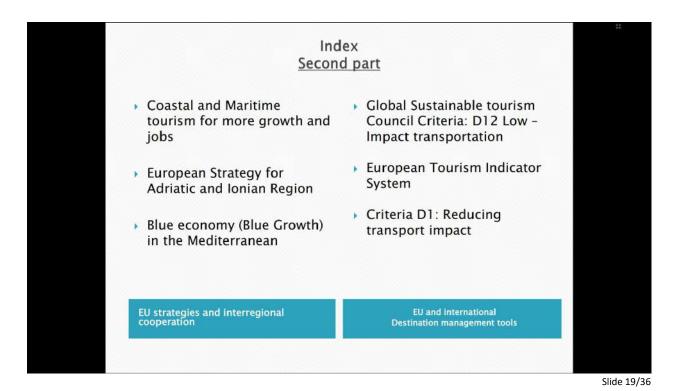
Continental region Increase in heat extremes Decrease in summer precipitation Increasing risk of river floods Increasing risk of forest fires Decrease in economic value of forests Increase in energy demand for cooling



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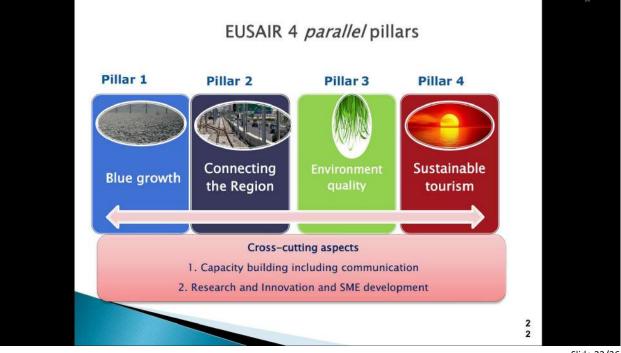




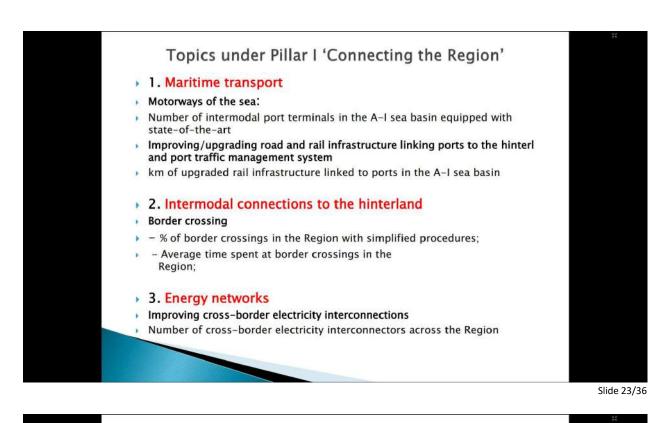
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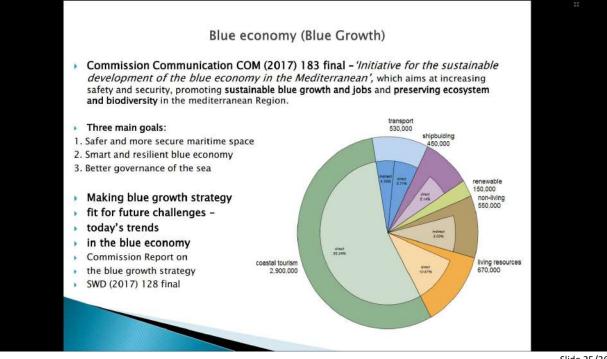
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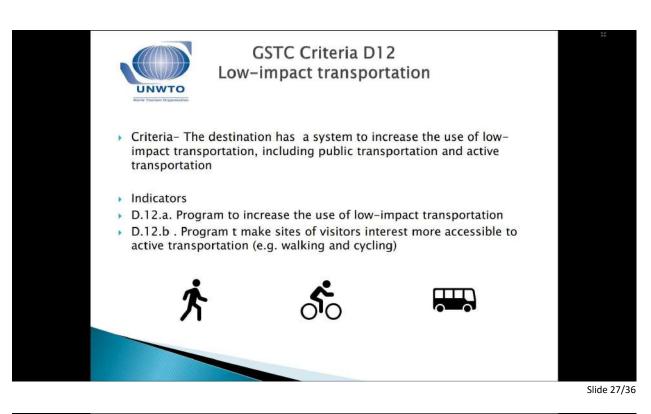
The international monitoring tool Global Sustainable Tourism Council

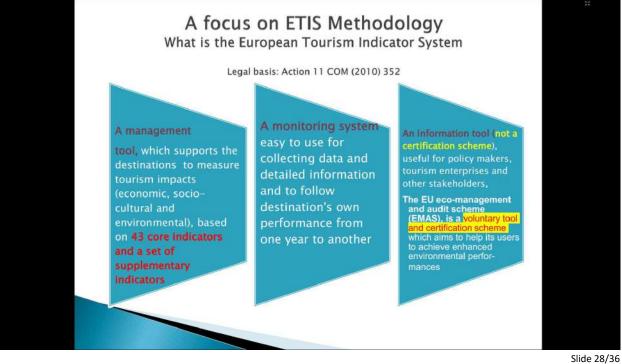
Global Sustainable Tourism Council (known as the GSTC or the Council) was formally constituted in the 2010 as independent body for establishing and managing standards for sustainable tourism. At the heart of its work are the Global Sustainable Tourism Criteria and Indicators (which are neither a definitive set nor are they all-inclusive and they can be applied to a broad range of destinations type) are organized around the four sections:

- (1) demonstrate effective sustainable management;
- (2) maximizing economic benefits to the
- host local community and minimize negative impacts;
- (3)maximize benefits to communities, visitors,
- and culture: minimize negative impacts;
- (4) maximize benefits to the environment
- and minimize negative impacts.



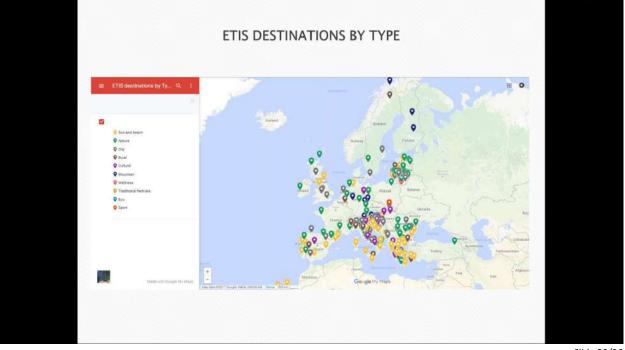
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Alone we can do so little; together we can do so much , <u>Helen Keller</u>

The engament of public-private partnership and inter-regional and inter-sectorial cooperation is fundamental to turn vision into reality, by developing new green business and eco-friendly models with a circular, interdisciplinary and inter-sectoral approach (tourism, culture, environment, transport and mobility, waste management).

Managing sustainable destinations with the ability to measure the tourism impact on climate mitigation, is not a trend, it is the unique way to create a responsible and balanced eco-system for the planet and to respect the social-cultural dimension of the territories.

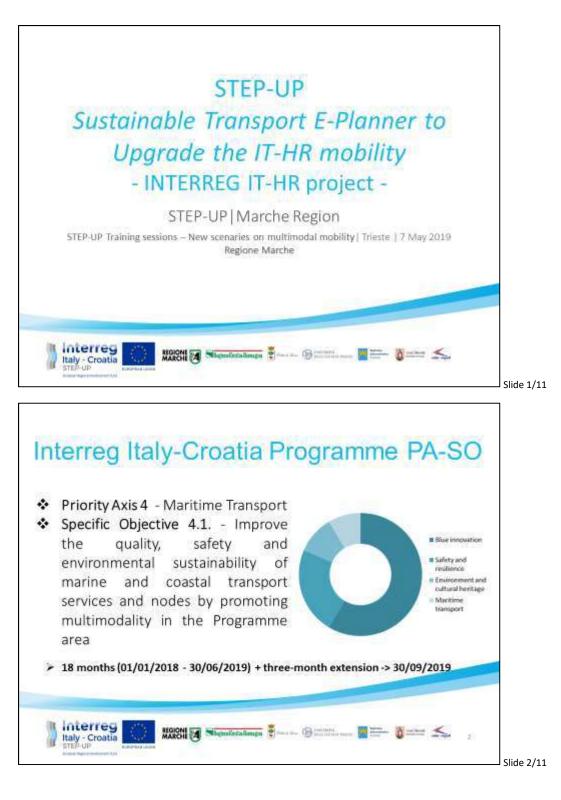
Things do not happen. Things are made so happen. John F. Kennedy

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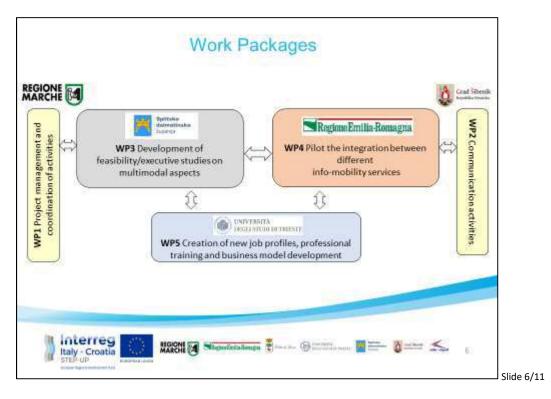
3.1.5.2 STEP UP INTERREG IT-HR Project. An overview of STEP-UP Project, INTERREG IT-HR. [Valeria Corina]

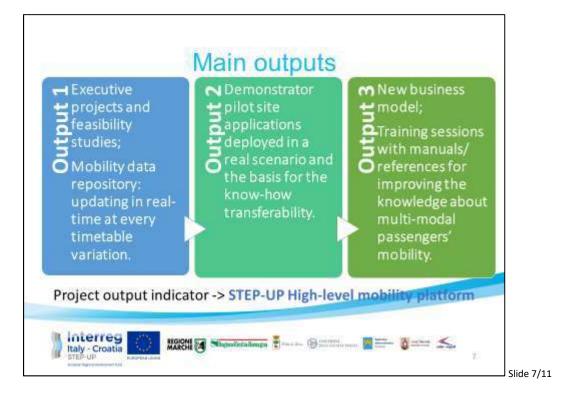


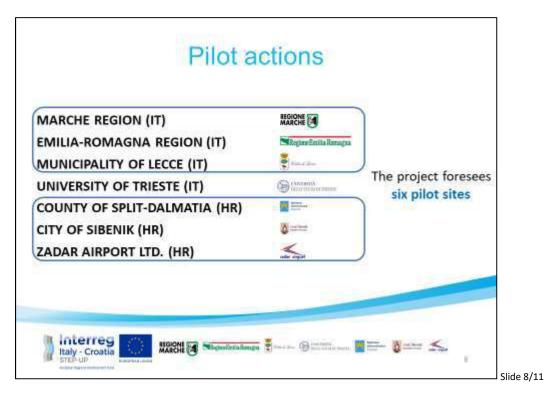


PP/WP	WPD	WPI	WP2	WP3	WP4	WP5	TOTAL	Distribution per country		
MARCHE	5.000,00 €	82.700,00 €	23.750,00 €	24.050,00 €	105.800,00 €	3.450,00 €	239.750,00 €	-		
EMIRO	2.000,00 €	30.248,00 €	30.773,00€	13.301,00 €	70.658,00 C	4.996,00 €	151.476,00 €			
LECCE	1.000,00€	11.630,00 €	17.950,00€	12.070.00€	53.025,00 €	3.220,00€	98.895,00 €	609.871,00 €	64,07	
UNITS	2.000,00 €	16.625,00 €	15.175,00 €	1.725,00€	5.175,00€	79.050,00 €	119.750,00 €			
SDC	2.000,00 €	13.725,00 €	11.135,00€	41.475,00€	45.290,00 C	6.875,00€	120.000,00 €	Barrens	1 f	
SIBENIK	2.000,00€	15.640,00 €	28.030,00 €	4.950,00€	60.650,00 €	8.950,00€	120.220,00€	341.960,00€	35,93	
ZAIR	1.000,00 €	20.240,00 €	14.280,00 €	7.020,00 €	47.720,00 €	11.480,00 C	101.740,00 €		20222.201	
TOTAL	15.000,00 C	190.308,00 €	140.593,00 C	104.591,00 C	383.318,00 C	118.021,00 €	951.831,00 C	ERDF	809.056,35 C	
%	1,58%	19,99%	14,77%	10,99%	40,27%	12,40%	the second s	co-financing	142.774,65 €	
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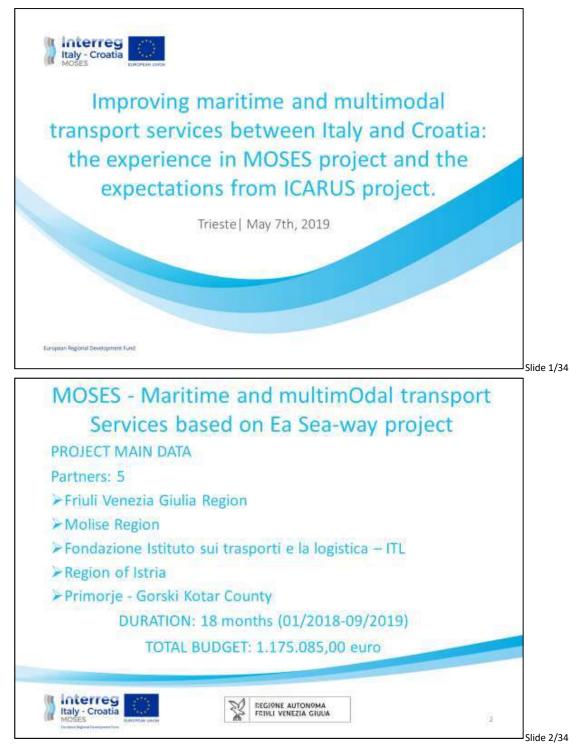


	Pilots
Pilot	Description
Marche Region	Integration between multimodal and cross-border travel platform and info mobility system for a complete information to the end-users on public transport, trips and delays.
Emilia-Romagna Region	Improvement of the accessibility to some touristic zones with public transport and identify alternative modes of intermodal transport solutions.
Municipality of Lecce	Strengthening the competitiveness of the territory by providing the city with an integrated system including information and mobility services.
County of Split- Dalmatia	Installation of e-chargers for electric vehicles at 30 km intervals across the hinterland to increase electric vehicles access to all parts of the Split- Dalmatia County.
City of Sibenik	Establishment of new intermodal links from the City to regional airports (Zadar Airport and Split Airport) and promotion of intermodality and connection with the existing links to the regional ports (Zadar, Split).
Zadar airport	Improvement information distribution to better accomodate passengers and to increase the speed of intermodal transition.
Interreg	And a state of a state





3.1.5.3 Improving maritime and multimodal transport services between Italy and Croatia: the experience in MOSES project and the expectations from ICARUS project. [Massimiliano Angelotti]

















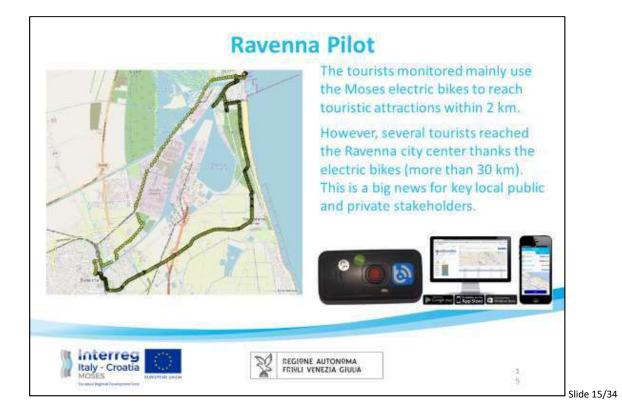






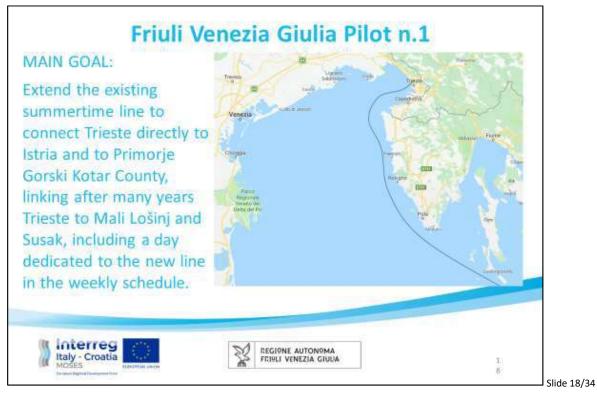








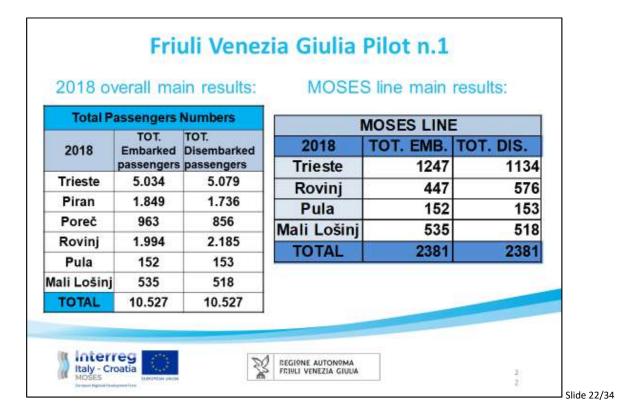






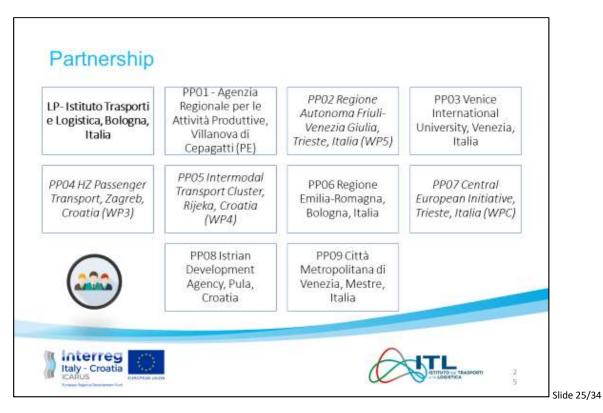


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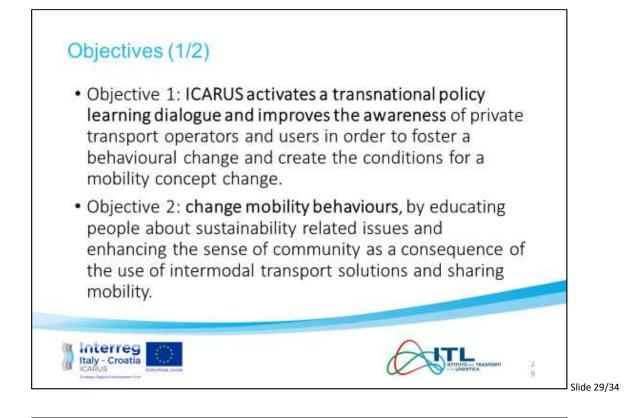




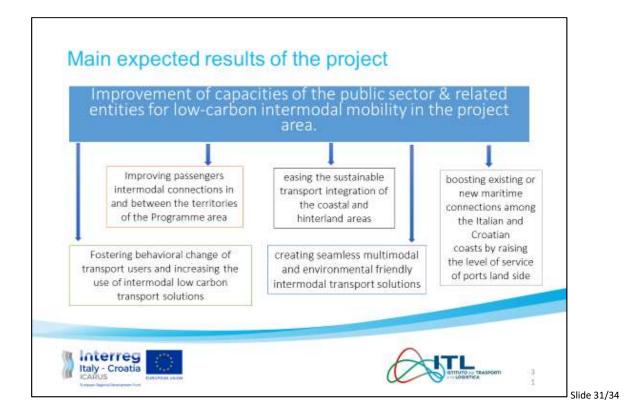


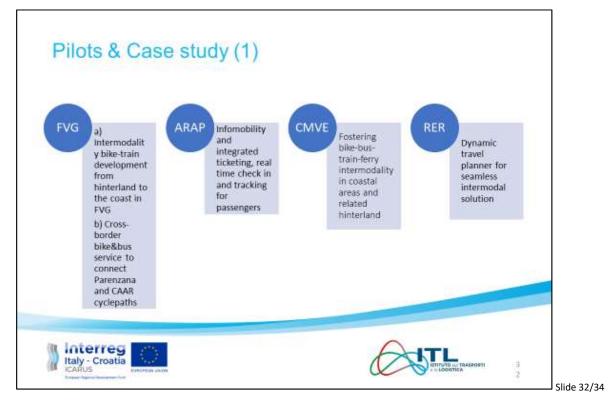
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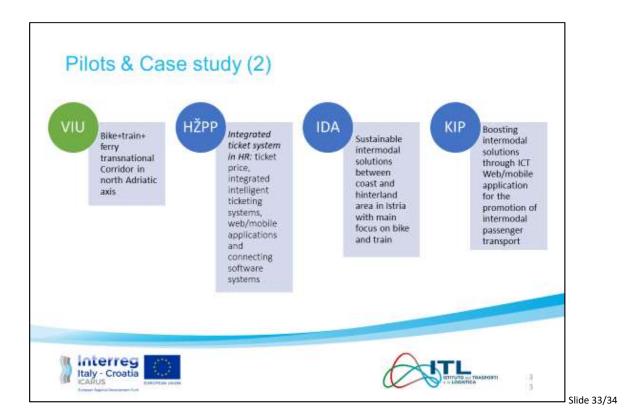
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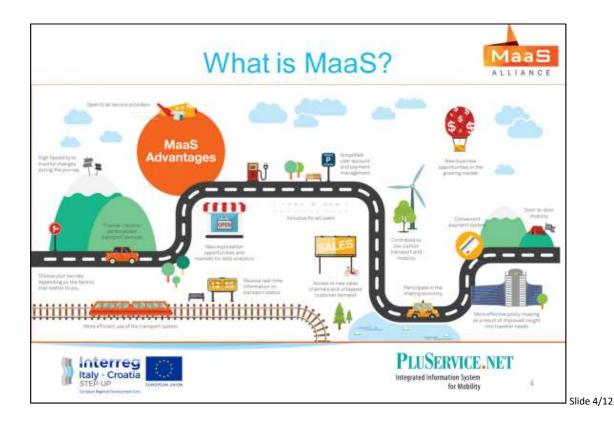


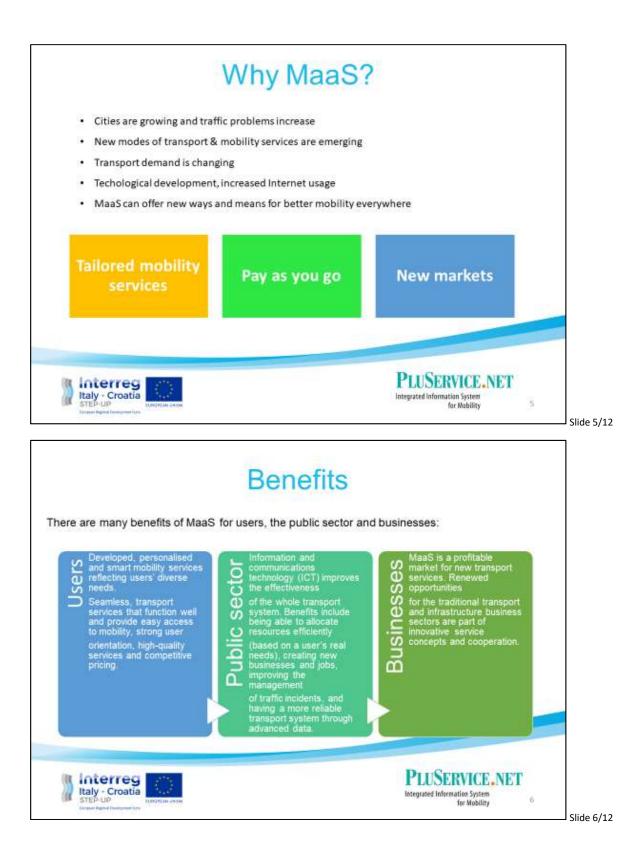


3.1.5.4 The role of Mobility as a Service [Daniela Vasari]



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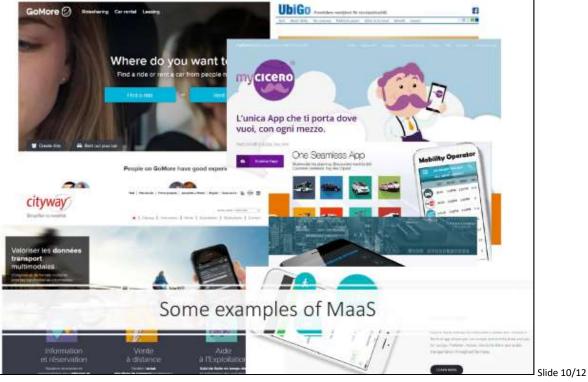






	flame	Location	Internal I	Modes of transport*	magazian kest
	moovel	Hamburg and Stuttgart, Germany	Operational (2015-)	Car strating, taxi, urban PT, regional PT	Level 2 (partially, payment integrated)
	тубото	нау	Operational (2015-1	Urban PT, regional PT, International PT, parking, access to urban songentian charging zonis	Level 2 (partially payment integrated)
1 % 12541 \$200,00% BC	NaviGeGe	Dundee and North East File regions, Scotland, UK	Operational (2017-)	Car sharing, taxi, urban FT, regional PT	Level 2 (partially, payment integrated)
amples of MaaS initiatives by level of integration	EXPASE	France	Operational (2017-)	Carriental, taxi, valet purking	(avel a grantially, payment integrated)
derived from Sochor et al. 2017)	Tasp	Tarka region, finland	Operational (pend-)	Car sharing, bicycle sharing, tool, urton PT, DRT	Level 2 (partially, payment integrated), ticketing integration under development
	Hasteve/mobil	Hannovet, Germany	Operational (2012-)	Car straing, taol. Jathan PT, regional PT	Level z
	Elever (22m)	Hontpelliet. Flance	Operational (2018-)	Rigde stating, carstan- ing, urban PT, parking	Level 2
	Bunimers persite: 115 Bunimers Card, MobilityMax, Radiut Total Mobility, et. 200813	Rehefands	Operational protocnal coverage with effect from acress	(Car sharing, parking, funitosits, e-car charging, taol, car rentas, bicycle sharing, urban PT, regional PT	Level a (Business to Business), partially level t
	Simile	Werna, Autoria	Pilot (2014-2015)	Broyche sharing, car sharing, taxi, urban PT, regional PT, parking	Level 2
	WienMobil Lab	Vietra, Austria	Operational (2017-)	Boycle sharing, car sharing, taxi, uttan PT, parking	Level 2
	SHIFT	Las Vegas, US	Manaed (2013-2013)	Nicycle sharing, car sharing, taol, DRT, valet parking	Level 3
Italy Croatia	UbiCe	Gothenburg, Sweden	Miot (2013-2014), vehicit 2 oʻtt	Bicycle sharing, car sharing, cartental.	Level j

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3.1.5.5 Electro-mobility integrated into transport and mobility networks [Maria Pia Fanti]



STEP-UP Training Sessions NEW SCENARIES ON MULTIMODAL MOBILITY INFOMOBILITY FOR SUSTAINABLE PASSENGERS' FLOW BETWEEN ITALY AND CROATIA

Electro-mobility integrated into transport and mobility networks

Maria Pia FANTI Polytechnic University of Bari, Italy



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Electro-mobility

Electromobility is a major factor towards transport decarbonisation Open problems

- Interoperability of electromobility services among eRoaming platforms
- Lack of a common data and information for objects and services
- Lack of standardisation for information exchange and services provision
- · Need for open system to integrate existing ICT services
- Need for access to large data to appropriately forecast demand and efficiently optimise charging
- Minimise impact to the electric grid network





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Two in progress European H2020 projects for eletromobility





Call identifier: H2020-GV-2015 NeMo: Hyper –Network for Electro Mobility

EC funding: 7836827.04 €

Duration: October 2016 - September 2019

5 test sites

1 cross-country demonstration

Supported by eMI3.EUCAR, BMW Group



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Two in progress European H2020 projects for eletromobility





Call identifier: H2020-GV-2017

ELVITEN: Electrified L-category Vehicles Integrated into Transport and Electricity Networks

EC funding: 7,840,648.75 €

Duration: November 2017 - October 2020

Demonstrations in Six European Cities



Slide 4/33

NeMo Strategic Objectives

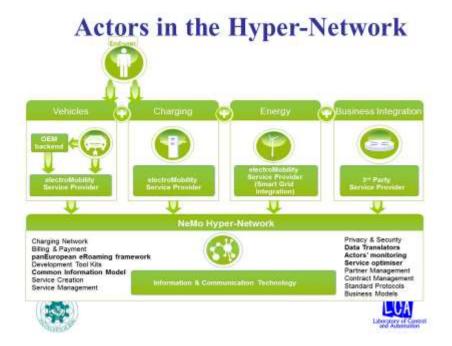
- Develop a Hyper-Network for the provision of seamless and interoperable electromobillity ICT services (for all user and actors)
- Create Common Information Models for objects services
- Introduce a set of ICT interfaces, to facilitate the communication and data access for all actors
- Develop a Core system capable of providing ICT services
- Develop a set of horizontal services to facilitate the creation of innovative and smart services
- Develop a pan European eRoaming framework
- Develop new business models and scenarios for all actors





eMo

Slide 5/33



Slide 6/33

ELVITEN Strategic Objectives (1)

- · Develop replicable usage schemes of EL-Vs for owners, sharers and light goods deliverers based on the deployment of :
 - EL-Vs innovative parking and charge services (including echarging hubs, integration of public and private charge points in Brokering service, interoperable eRoaming platform) TITL
 - EL-Vs sharing and rental services
 - Support ICT tools to facilitate the usage of EL-Vs (Brokering) service to book and pay, Management system for the echarging hubs) and support ICT tools to motivate the usage (Serious Game app, Incentives Management Smart Card).
 - Appropriate policies and incentives
- Organise long-term demonstrations of the ELVITEN usage schemes in 6 Cities



Slide 7/33

L.

ELVITEN Strategic Objectives (2)

- Create a big data bank of real driving and usage data and users' experiences and opinions
- Derive guidelines towards EL-V manufacturers and Planning Authorities
- Develop business models for EL-V sharing, rental, parking and charge services
- Demonstrate the transferability of the ELVITEN usage schemes in 50 Follower Cities or areas
- Achieve a mind-shift among users, so that they become e-Owners, e-Sharers or e-Deliverers, to create an e-World.





Slide 8/33

Some developed ICT tools for electromobility: Virtual Sensors

- VSs are software sensors that provide indirect measurements of abstract conditions, by combining sensed data from heterogeneous physical sensors
- Necessary services for EV users
- Estimate EV parameters, manage battery technology, vehicle control, charging and power grid issues, estimation of faults
- Ensure vehicles stability and reliability
- cost of sensing devices, difficulty to measure key parameters by physical sensors





Slide 9/33

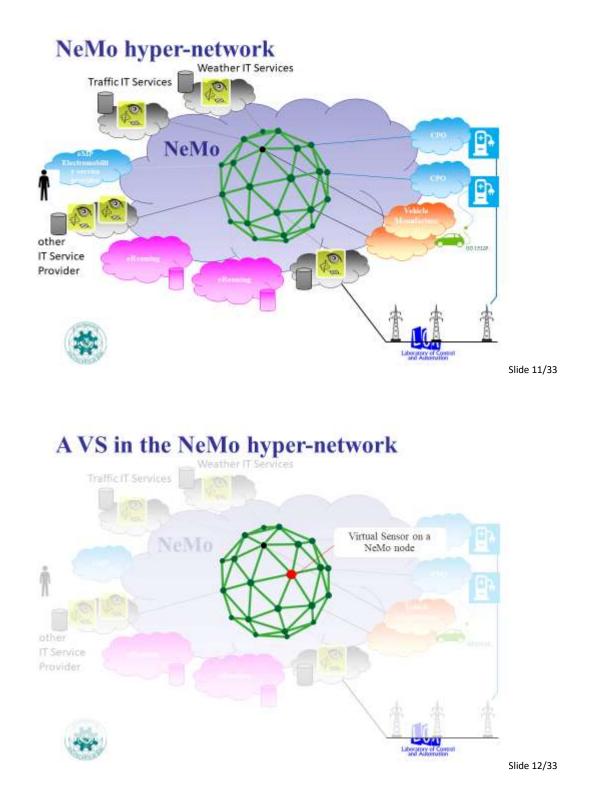
Some developed ICT tools for electromobility: Virtual Sensors

- A VS logically reproduces one or more physical sensors in the cloud platform, facilitating and increasing their functionalities, being capable of performing kinds of tasks that cannot be accomplished by physical sensors
- VSs are used in different fields of research such as energy, healthcare, mobility, etc., to estimate or predict information/parameters values from the distributed physical instrumentation measurements

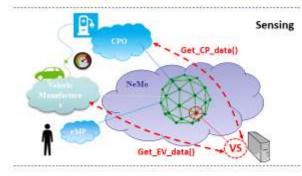




Slide 10/33



VSs implementation methodology



1° Sensing phase:

- gathering data from external data sources, wired and wireless sensors;
- data are used by internal algorithms in order to produce the VS output.





Slide 13/33

VSs implementation methodology



2° Planning phase: the collected data from external sources, together with the internal state of vehicle, are used to update the indirect sensing measurement.

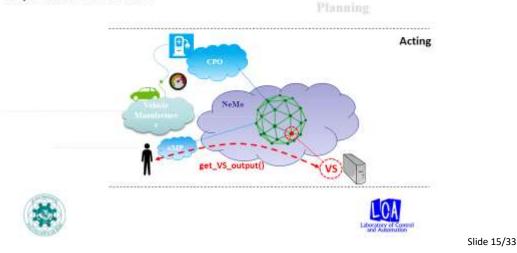




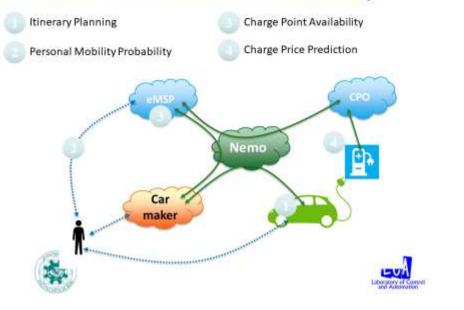
Slide 14/33

VSs implementation methodology

3° Acting phase: the most recent computation of the VS is asked from external users or other services, and the corresponding most updated output is delivered to them.

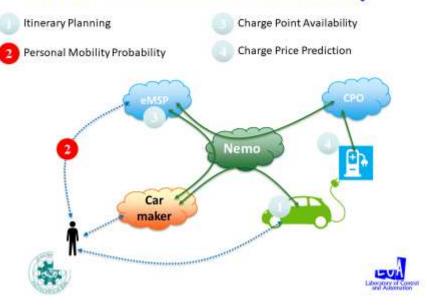


Virtual sensors for electromobility



Slide 16/33

Virtual sensors for electromobility



Slide 17/33

Personal Mobility Probability

- Use statistical algorithms and past trip history data to derive the driver most probable routes during the next calendar day with respective probabilities.
- Each route is a spatial-temporal path composed by the interpolation of Point Of Interest (POI).
- The POI are the following:
- Start point (SP)
- · Charge/other intermediate stops
- · End point (EP)

Each POI of the trip will be described by six values

(latitude, longitude, arrival_timestamp, departure_timestamp, arrival charge, departure charge).



Slide 18/33



Slide 19/33

Personal Mobility Probability

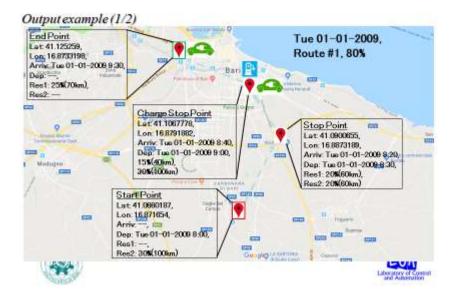


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Slide 21/33

Personal Mobility Probability

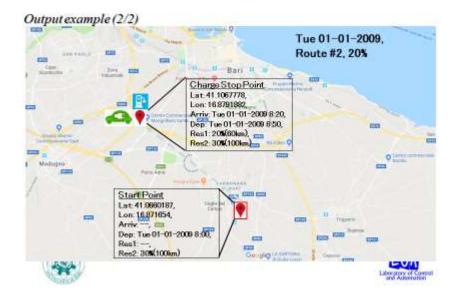


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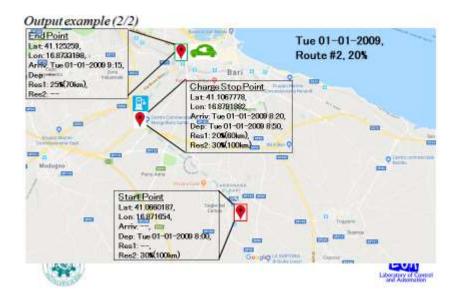


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Personal Mobility Probability

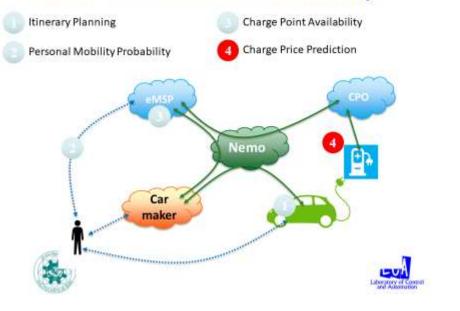


Slide 24/33



Slide 25/33

Virtual sensors for electromobility



Slide 26/33

Charge Price Prediction

- Provide information about charge stations (latitude, longitude, tariff, power, distance, status), related to a specific time horizon (e.g. next 24 hours) and the area of interest of a given driver.
- ➤ Predict charge session cost for the given driver selecting a specific charge point (€).

C Require:

- · Charge point dynamic status
- Charge detail record
- Charge point tariff
- · Personal/Vehicle mobility need, EV position
- · EV charge level

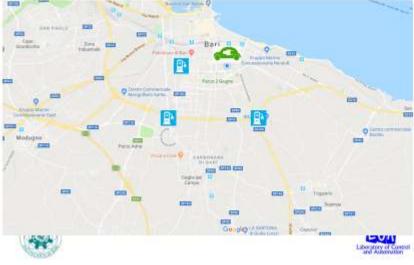




Slide 27/33

Charge Price Prediction





Slide 28/33

Charge Price Prediction

Output example tait Charge Station 1 Lat: 41.125269, 100 Lon: 16 8733198, Tariff:3 €/kWh, Power.22 kWh, Dis:2 km, Status:Free Cost 5€ Q -ICER COM CER (contraction) 122 Geoplicition EVI Laboratory of Co and Automat

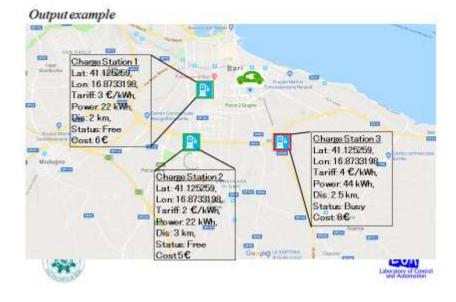
Slide 29/33

Charge Price Prediction



Slide 30/33

Charge Price Prediction



Slide 31/33

Conclusions

Electromobility for transport decarbonisation

NeMo and ELVITEN provide solutions for electromobility open problems by:

- New services integrated with existing ICT services
- New networks for data and information exchange
- Information and data standardisation
- New sensors and virtual sensors to forecast demand, optimise charging, minimise impact to the electric grid network

Future H2020 calls:

- improving the recharge operations
- smart charging stations





Slide 32/33



STEP-UP Training Sessions NEW SCENARIES ON MULTIMODAL MOBILITY INFOMOBILITY FOR SUSTAINABLE PASSENGERS' FLOW BETWEEN ITALY AND CROATIA

Thank you for your attention!!

Prof. Maria Pia FANTI mariapia.fanti@poliba.it

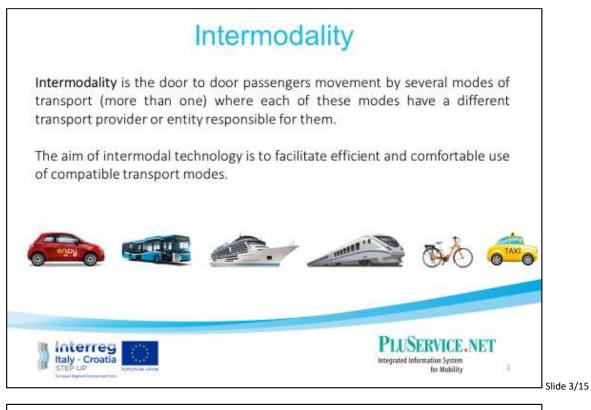


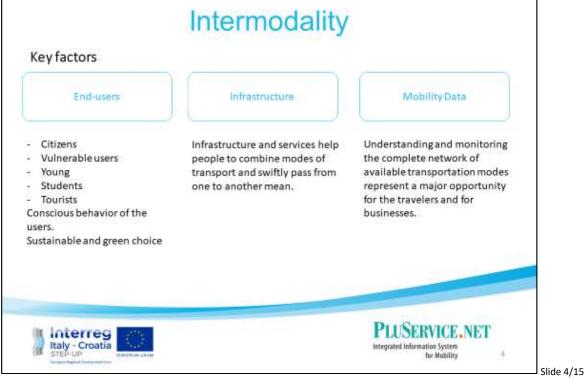
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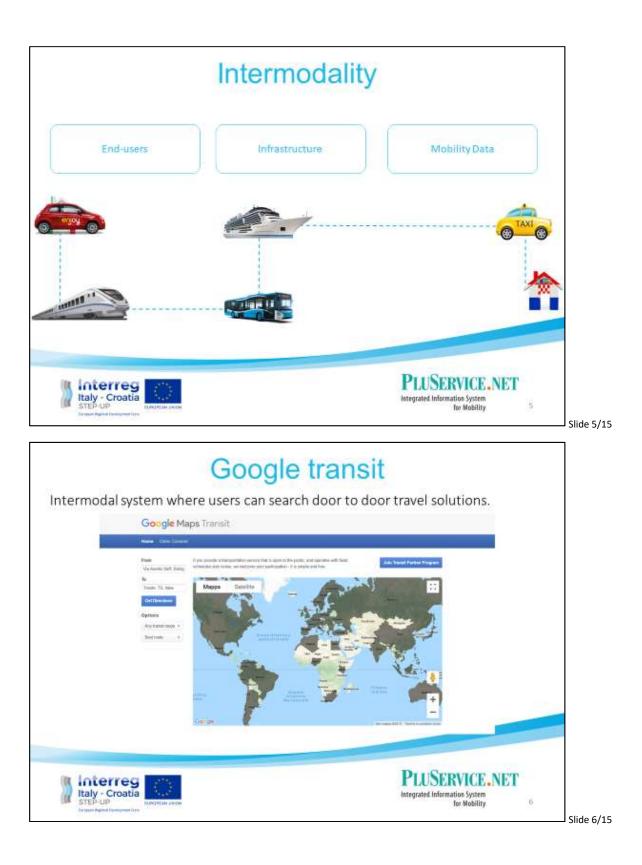


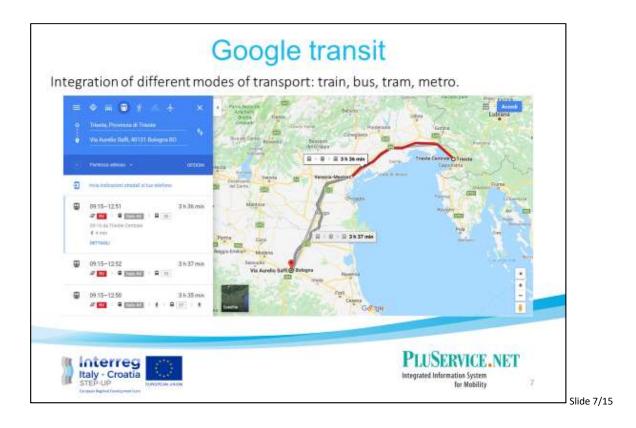
Intermodality for a seamless solution [Giorgia Fanesi] 3.1.5.6

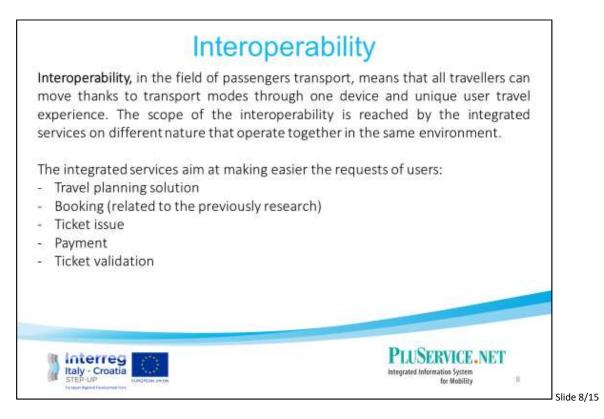
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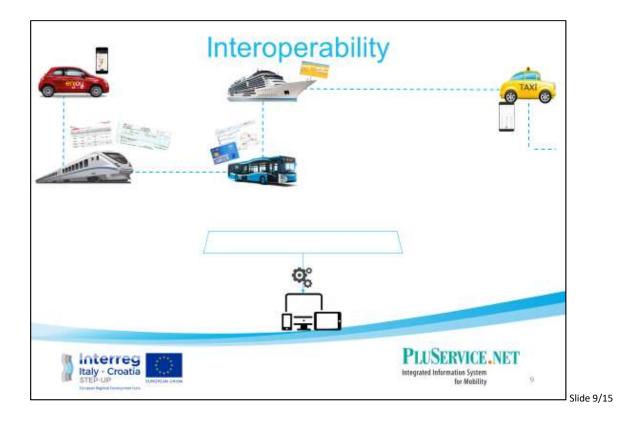










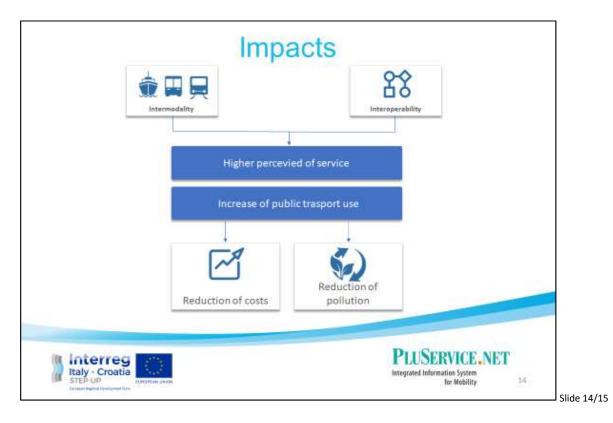


Scheme	Area	Integration type					Mode	Tourism services
		Ticket	Pay	ICT4M	ICT4T	Pack		
TfL – Oyster	London	x		x			Bus, metro, taxi, train, bike sharing, car sharing	
Moovel	Hamburg	×	×	×			Bus, tram, car rental, taxi, train	
Hannovermobil	Hanover	x	х	х			Bus, train, taxi, car sharing, car rental	
myCicero	Italy	×	x	x	×		Bus, metro, tram, train, bike sharing	Tourism information
UbiGo	Stockholm	x	x	×		x	Bus, tram, train, ferry, v-sharing, car rental, taxi	
Whim	Helsinki, Birmingham, Antwerp	x	х	x		x	Public transport, car rental, bike sharing, taxi, car sharing	



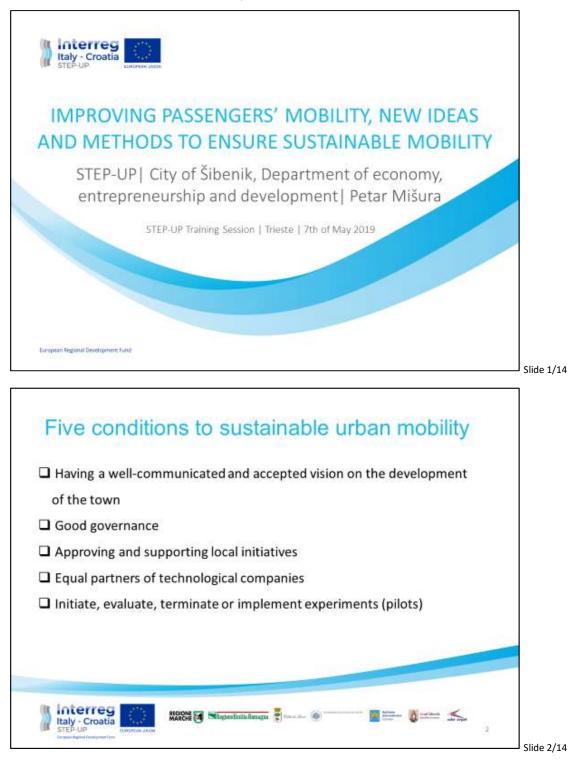




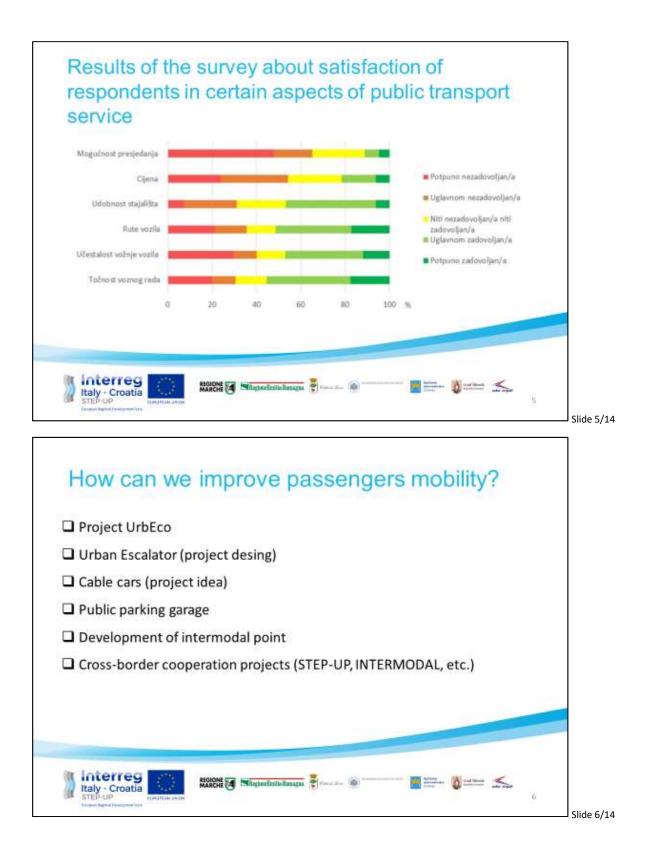




3.1.5.7 Improving passengers' mobility, new ideas and methods to ensure sustainable mobility [Petar Mišura]







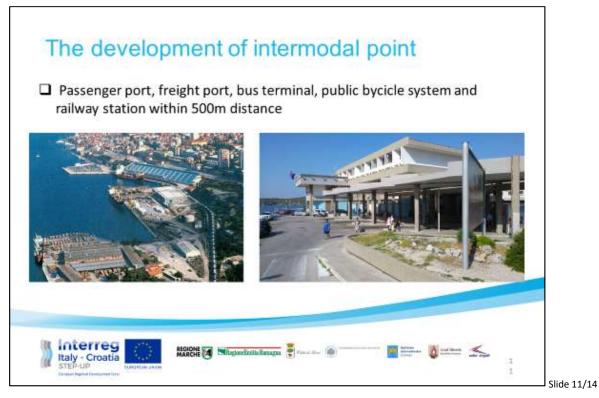








Slide 10/14



New city square "Poljana"

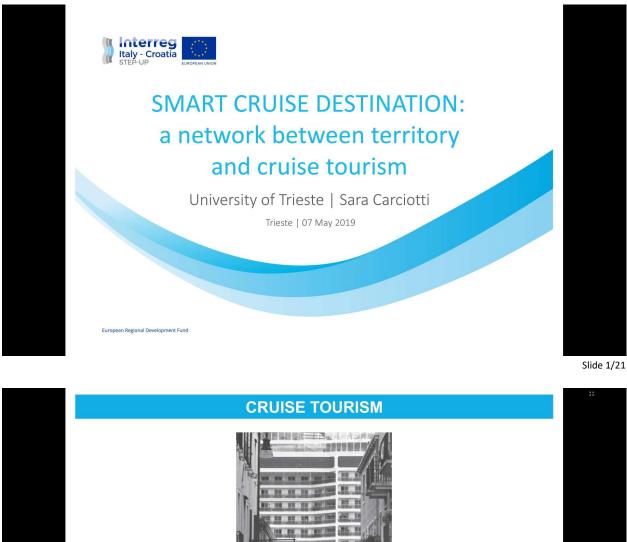
 A Remodel of main city square "Poljana"

 Three storey underground garage

 256 new parking spaces



Smart Cruise Destination [Sara Carciotti] 3.1.5.8





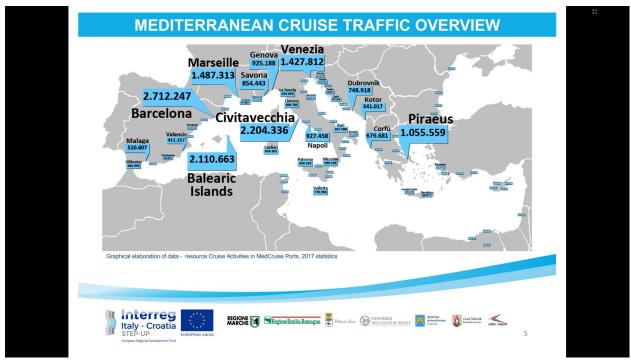
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Slide 3/21



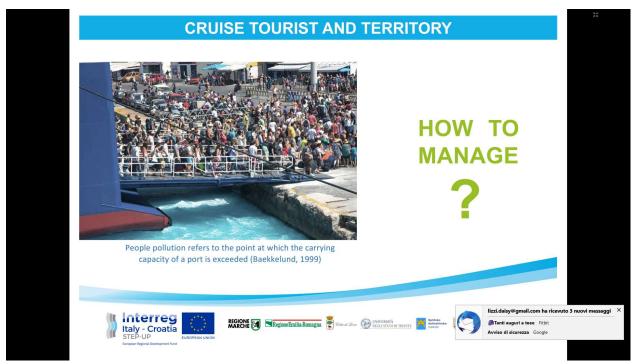
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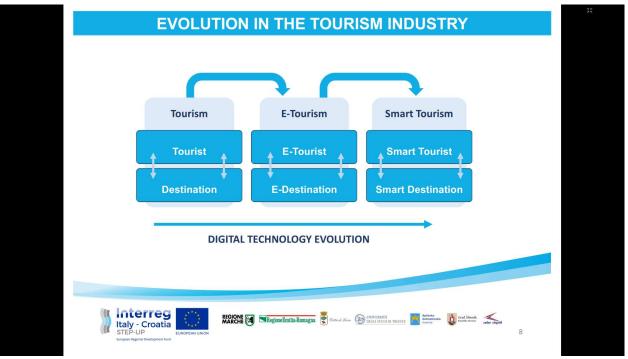
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Slide 6/21



Slide 7/21



Slide 8/21



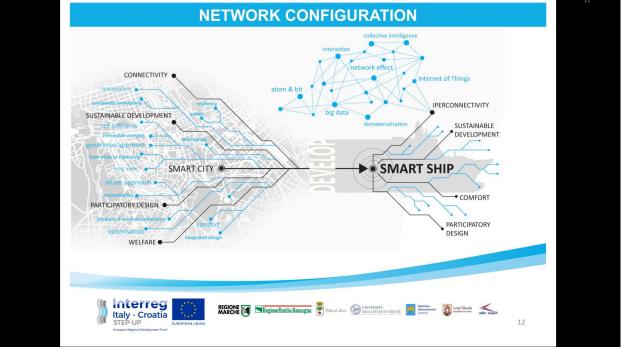
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Slide 10/21



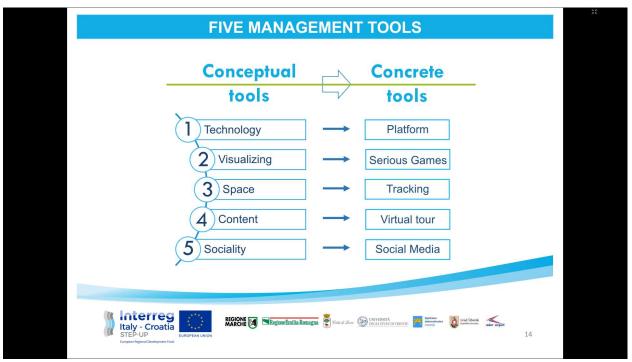
Slide 11/21



Slide 12/21

Civil society	Temporal citizen- tourist
Civil Society	Permanent citizen- resident
Institution	Public sector Business sector Accademia
Natural Environment	• Environmental sensors • Territory
Smart Cruise Destination	• Transport • Culture • Logistic

Slide 13/21



Slide 14/21



Slide 15/21



Slide 16/21



Slide 17/21



Slide 18/21



Slide 19/21



Slide 20/21



3.1.5.9 The beauty of small villages. Intermodality: the path to encounter it. [Laura Schiff]



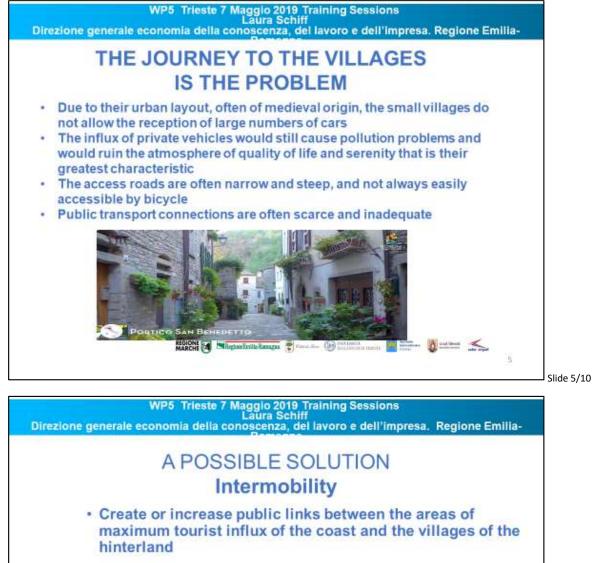


BORGHI VIAGGIO ITALIANO

Hundreds of small villages spread over the



Slide 4/10

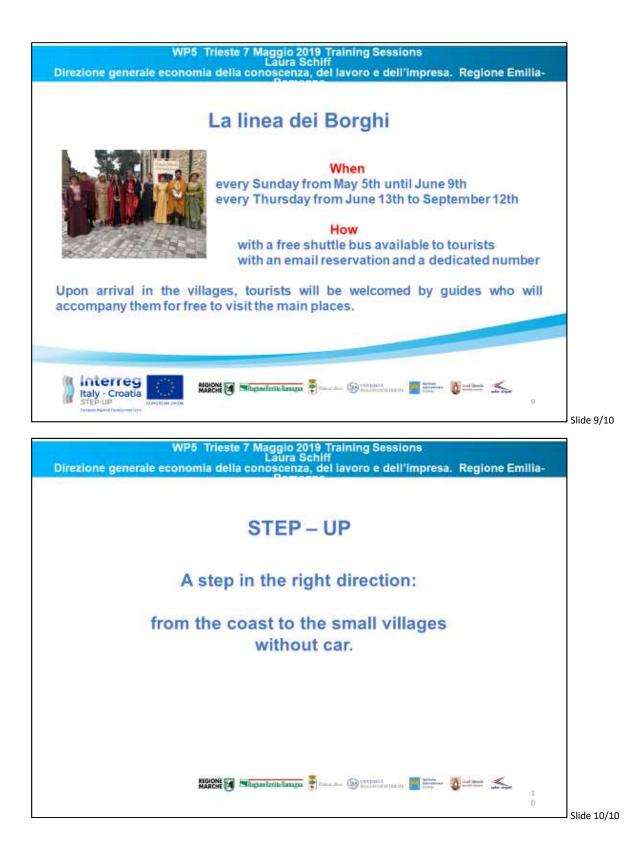


- Create connections between car or bicycle park exchangers on the plains and public bus lines that reach small hill towns
- Make tourists aware of using public transport by offering them discounts and personalized offers



Slide 6/10





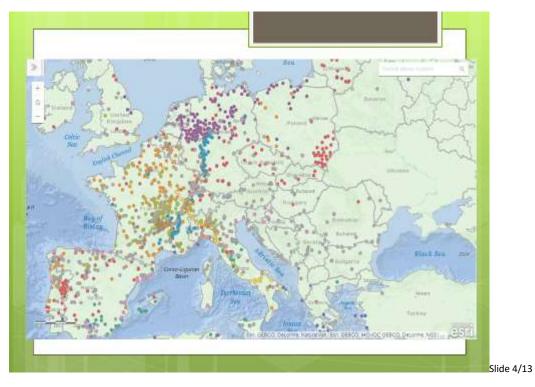
Cultural routes potential for info-mobility services Slide 1/13 Cultural routes heritage Cultural, educational and tourism cooperation project aiming at the development and promotion of an itinerary or a series of itineraries based on a historic route, a cultural concept, figure or phenomenon with a transnational importance and significance for the understanding and respect of common European values o 33 Cultural Routes are certified by the Council of Europe displaying the richness of European heritage through traditions, history and culture of people as well as philosophical, artistic, political and religious movements Slide 2/13

3.1.5.10 Cultural routes – potential for info-mobility services [Vanja Lipovac]

Cultural routes

- Cultural Routes have an extensive network of 735 members consisting, between others, of stakeholders from cities or municipalities, associations, sites, cultural organizations, tourism stakeholders and scientific organizations
- Stakeholders from the tourism sector such as tourism operators, tourism enterprises and tourism agencies should be added as members to increase the expertise on tourism destination management.









Slide 8/13

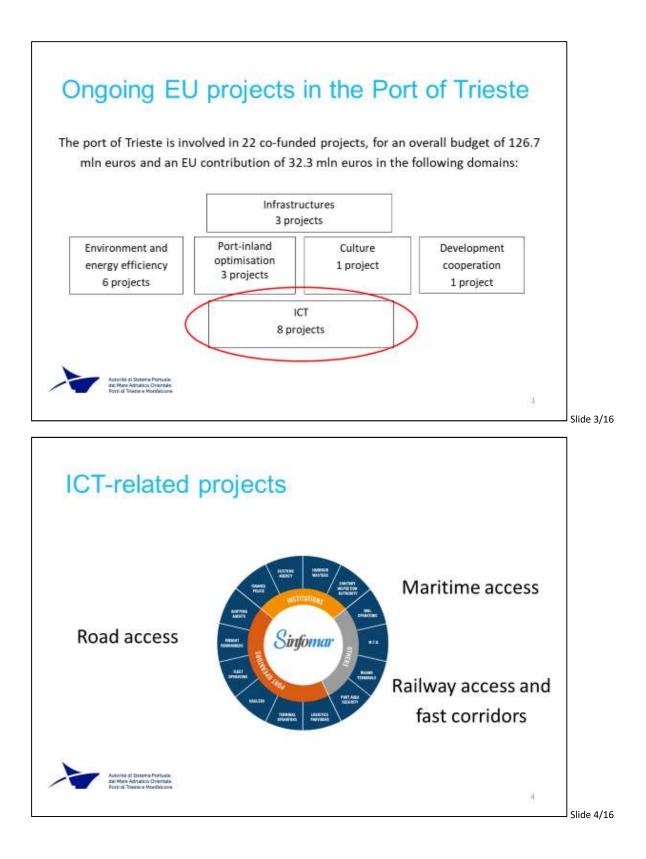






3.1.5.11 EU projects of the Port of Trieste: several tools for a smart port [Valentina Boschian]









PORTIS



<u>Objective</u>: to design, demonstrate and evaluate integrated sets of sustainable mobility measures in five major port cities on the North Sea (Aberdeen and Antwerp), the Mediterranean Sea (Trieste), the Black Sea (Constanta), and Baltic Sea (Klaipeda).

Funding Programme: H2020

Total project budget: 17,678,400 euros

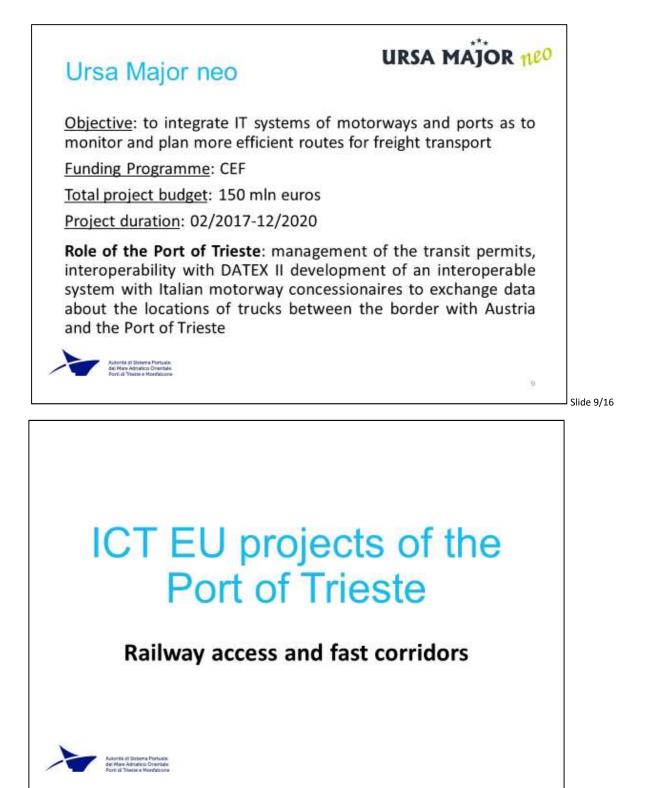
Project duration: 09/2016-08/2020

Role of the Port of Trieste: development of an ICT control system to regulate the road access to the port area, controlling traffic generated in the port, thanks to increased inter-operability with the port terminals

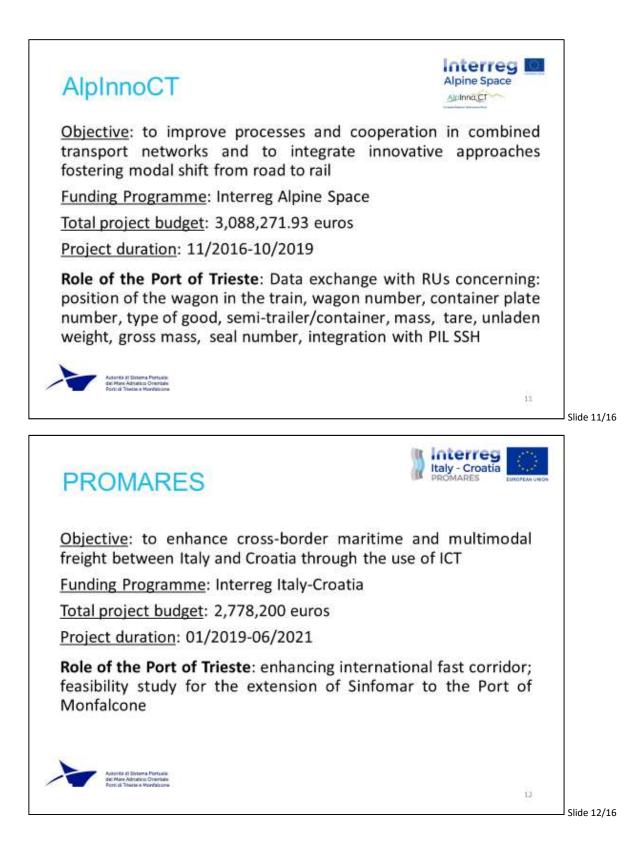


Slide 8/16

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Slide 10/16



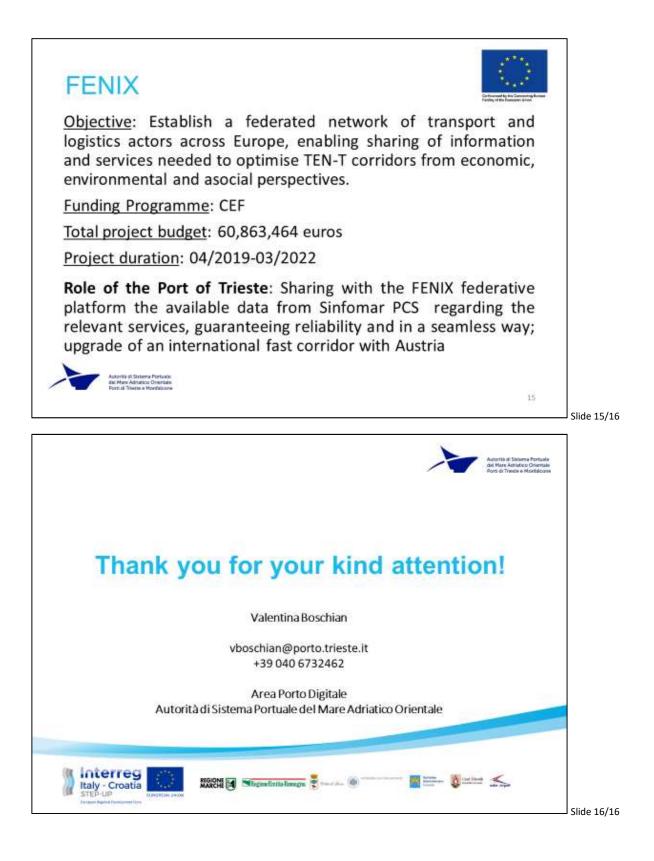


Role of the Port of Trieste: upgrade of the train module of the PCS with the full digitisation of the railway consignment note, as well as the component related to the controls of the Customs Agency and Finance Police as to streamline rail cargo flows

Autorità di Sistema Portuale dei Mora Adsakco Orientale Forti di Tiesse e Montalcone

Slide 14/16

14



3.2 I Training Session: 7 May 2019

3.2.1 Venue



The first training session took place on the 7th of May 2019. The chosen venue was Savoia Excelsior Palace, Riva del Mandracchio 4, Trieste. The Savoia Excelsior Palace Hotel is an historical building, and a very high quality hotel. It is placed on the seaside facing the sea, in the very centre of Trieste, very close to the main square and the townhall. PP3 considered this venue for the prestige it would give to STEP-UP project and the meaning of the historical relevance, connected to the sea and travelling (it also faces the Maritime Station).

For the session UNITS rented a room with wi-fi, a service for projecting the presentations, for monitoring the audio quality and some technicians to follow the entire realisation and who shot a video for documenting the conference.

3.2.2 Agenda

At the arrival, the audience was offered a welcome coffee during the registration operations.

The conference was introduced by a brief introduction and the greetings from the scientific tutor for STEP-UP at the University of Trieste, Professor Fulvio Babich. Two institutional greetings were given by the assessor for Tourism of the Municipality of Trieste, ms. Francesca De Santis and by the Consul of Croatia in Trieste, mrs. Gordana Simic.

The speeches were divided in two parts, divided by a coffee break.

In the agenda sent by PP3 to the partners, partners found useful information on the venue location and were offered further assistance when needed.

Below some pictures from the conference:









Below the final agenda proposed:



European Regional Development Fund



VENUE

Hotel Savoia Excelsior Palace

Riva del Mandracchio, 4, 34124 Trieste TS

+39 040 77941

Note on accommodation: the chosen venue is placed in the main centre of Trieste. In the surroundings of the venue there are several hotel and B&Bs of any level. Since the STC Meeting is approaching and the season will be almost high, we recommend to book an accommodation as soon as possible. We can give further assistance when needed.



Contacts:

Professor Walter Ukovich <u>ukovich@units.it</u> Margherita Cipriano <u>mcipriano@units.it</u> Paolo Ferrari <u>pferrari@units.it</u> Chiara Gelmini <u>cgelmini@units.it</u>

European Regional Development Fund

3.2.3 Attendance I Training Session

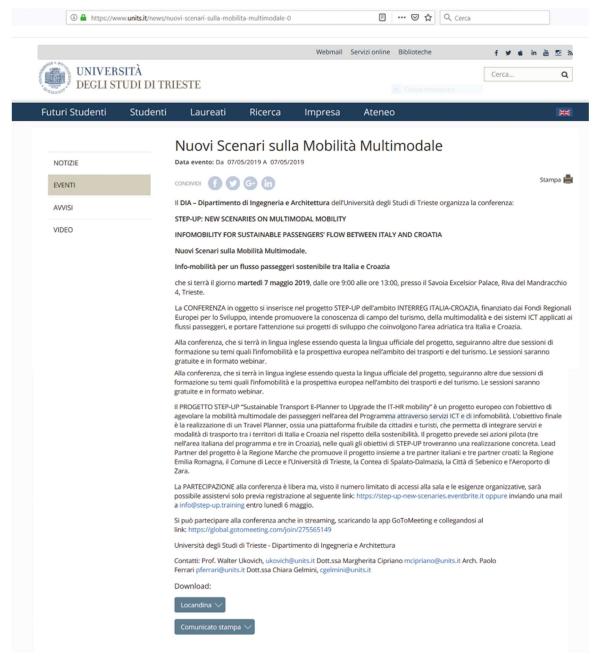
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3.2.4 Dissemination

3.2.4.1 Publication on University of Trieste official website



3.2.4.2 Press Release I Training Session



Il DIA – Dipartimento di Ingegneria e Architettura dell'Università degli Studi di Trieste organizza la conferenza:

STEP-UP: NEW SCENARIES ON MULTIMODAL MOBILITY INFOMOBILITY FOR SUSTAINABLE PASSENGERS' FLOW BETWEEN ITALY AND CROATIA Nuovi Scenari sulla Mobilità Multimodale. Info-mobilità per un flusso passeggeri sostenibile tra Italia e Croazia

che si terrà il giorno martedì 7 maggio 2019, dalle ore 9:00 alle ore 13:00, presso il Savoia Excelsior Palace, Riva del Mandracchio 4, Trieste.

La CONFERENZA in oggetto si inserisce nel progetto STEP-UP dell'ambito INTERREG ITALIA-CROAZIA, finanziato dai Fondi Regionali Europei per lo Sviluppo, intende promuovere la conoscenza di campo del turismo, della multimodalità e dei sistemi ICT applicati ai flussi passeggeri, e portare l'attenzione sui progetti di sviluppo che coinvolgono l'area adriatica tra Italia e Croazia. Alla conferenza, che si terrà in lingua inglese essendo questa la lingua ufficiale del progetto, seguiranno altre due sessioni di formazione su terni quali l'infomobilità e la prospettiva europea nell'ambito dei trasporti e del turismo. Le sessioni saranno gratuite e in formato webinar.

IL PROGETTO STEP-UP "Sustainable Transport E-Planner to Upgrade the 17-HR mobility" è un progetto europeo con l'obiettivo di agevolare la mobilità multimodale dei passeggeri nell'area del Programma attraverso servizi ICT e di infomobilità. L'obiettivo finale è la realizzazione di un Travel Planner, ossia una piattaforma fruibile da cittadini e turisti, che permetta di integrare servizi e modalità di trasporto tra i territori di Italia e Croazia nel rispetto della sostenibilità. Il progetto prevede sei azioni pilota (tre nell'area italiana del programma e tre in Croazia), nelle quali gli obiettivi di STEP-UP troveranno una realizzazione concreta. Lead Partner del progetto è la Regione Marche che promuove il progetto insieme a tre partner italiani e tre partner croati: la Regione Emilia Romagna, il Comune di Lecce e l'Università di Trieste, la Contea di Spalato-Dalmazia, la Città di Sebenico e l'Aeroporto di Zara.

LA PARTECIPAZIONE alla conferenza è libera ma, visto il numero limitato di accessi alla sala e le esigenze organizzative, sarà possibile assistervi solo previa registrazione al seguente link: <u>https://step-up-new-scenaries.eventbrite.it</u> oppure inviando una mail a <u>info@step-up-training</u> entro lunedì 6 maggio.

Si può partecipare alla conferenza anche in streaming, scaricando la app GoToMeeting e collegandosi al link: https://global.gotomeeting.com/join/275565149

Università degli Studi di Trieste

Dipartimento di Ingegneria e Architettura Contatti: Prof. Walter Ukovich, <u>ukovich@units.it</u> Dott.ssa Margherita Cipriano <u>mcipriano@units.it</u> Arch. Paolo Ferrari <u>pferrari@units.it</u> Dott.ssa Chiara Gelmini, <u>cgelmini@units.it</u>



3.2.4.3 Publication on Smartlogi website – German/Italian

Italia-Österreich SMARTLOCI	HOME PROJEKT PROJEKTPARTNER NEWS UNTERLAGEN KONTACT ITALIANO
	NEWS Immer auf dem SMARTLOGI Project aktualisiert werden
	DAS PROJEKT SMARTLOGI WURDE BEI DER ERSTEN "TRAINING SESSION" DES PROJEKTS "STEP-UP" VORGESTELLT

von Passagieren interessiertes Publikum zu bieten. Der Hafen von Triest wurde eingeladen, seine Erfahrungen bezüglich der Probleme der Interoperabilität zwischen heterogenen IKT-Systemen zu präsentieren, ein Problem, das im Rahmen des Projektes SMARTLOGI angegangen wurde und das sich mit anderen Aspekten auch in den Bereichen des Projektes STEP-UP wiederholt. Fast 40 Personen aus Triest und verschiedenen italienischen und kroatischen Ortschaften haben an der Konferenz teilgenommen.

HOME PROGETTO PARTNER NEWS DOCUMENTI CONTATTI DEUTSCH



IL PROGETTO SMARTLOGI PRESENTATO ALLA PRIMA "TRAINING SESSION" DEL PROGETTO "STEP-UP"

∰5 maggio 2019

Il Porto di Trieste ha presentato il progetto SMARTLOGI nell'ambito della conferenza "STEP-UP: Nuovi Scenari sulla Mobilità Multimodale. Info mobilità per un flusso passeggeri sostenibile tra Italia e Croazia", tenutati a Trieste il 5 maggio 2019 ed organizzata dal Dipartimento di Ingegneria e Architettura dell'Università degli Studi di Trieste. La conferenza era la prima delle "training sessions" organizzate nell'ambito del progetto "STEP-UP", co-finanziato dal programma INTERREG Italia-Croazia. Il progetto STEP-UP, "Sustainable Transport E-Planner to Upgrade the IT-HR mobilità. L'obiettivo di agevolare la mobilità multimodale dei passeggeri nell'area del Programma, attraverso servizi ICT e di info mobilità. L'obiettivo della conferenza era di fungere da "training session" per i partner di progetto ed una platea interessata, su argomenti legati alla mobilità multimodale dei passeggeri. Il Porto di Trieste è stato invitato a presentare le sue esperienze correlate alla problematiche della interoperabilità tra sistemi ICT eterogenei, problema affrontato nell'ambito del progetto SER-VICI e che si ripropone, con aspetti diversi, anche negli ambiti del progetto STEP-UP, Quasi 40 persone provenienti, ottre che da Trieste, da varie località italiane e Croate hanno partecipato alla conferenza.

3.2.4.4 Article from Il Piccolo (05/05/2019)

14 ATTUALITÀ

Friuli Venezia Giulia

Una piattaforma online per viaggiare "sostenibile"

Lo strumento consentirà di organizzare al meglio gli spostamenti fra Italia e Croazia, dai ticket alle bici a noleggio. L'Università di Trieste nel progetto europeo

Lilli Goriup

etra protagonisti della cooperazione transformalier atta liacico cata per l'implementazione della mobilità sostenible nel rispetto dell'ambiente. Nell'ambiode progetto curopeo Step-up l'ateneo sta infatti lavorando alla realizzazione di una pitataforma online- adisposizzone di citta del servizi di trasporto tra i due Stati affatciati sull'Ardinatico. Di queste altri tenni si parlerà martedi, durante la conferenza "Nuovi scenari sulla mobilità per una fusose ggeri sontibilia per una fusose ggeri mento di largegnenza chechiertura dell'Unito.

RIESTE. L'Università di Trieste



intende pro- Mobilità sostenibile, Units fra i partner del progetto

podel turismo, della multimodalità e dei sistemi let applicati ai flussi passeggeri, ponendo l'attenzione sui progetti di sviluppoche coinvolgono appunto Parea adriatica compresa tra gli Stati di Roma e di Zagabria. L'iniziativa si insersee

Martedi conferenza con esperti e studiosi di vari Paesi

getto "Sustainable transport e-planner to upgrade the It-Hr mobility", abbreviato appunto in Step-up. Si tratta di un progetto europeo dell'ambito in-

in Step-up. Si tratta di un progetto europeo dell'ambito inin in terreg Italia-Croazia, che mira adagevolare la mobilità multistrate modale dei passeggeri nell'area presa in considerazione.

lo avverta attraverso serviz ct e di infomobilità.

nonettivo iniane è la realizu una piattaforma veeb andisposizione dicitadituristi, che permetta di inuristi, che permetta di inter servizi e modalità di torto tra i territori dei due in el 'inspeto della sostetia. Spiega il professorter Ukovich, del Dipartito di Ingegneriae Architet-«In altre parule, si vogliotico di megneriae Architetenterter a di sposizione del bico elementi utili al fine ganizzare i propri sposta-

> o stuos. esi. La partec

rette al pubblico. I. Universi di Trieste è uno dei tre part ritaliani con la Regione Emi Romagna e il Comune d cece; quelli croati sono Con a di Spalato-Dalmazia, Citti Sebenico e Aeroporto di Za. Capofila la Regione Marx c.—

SULLA RETE

la Rifiuti in A4 a un conto salato e- per Autovie

Sono circa 300 le tonnellat di rifiuti urbani non conferi renziati opil anno conferi ti util autostrada gestita di Autovi Venete: sull'interrete il dato è pari a una ton no per ogni km di autostra da, Rifuti lasciati in cestiti ogettati da veicoli in transi to cabbandonati. Laracco la rifuti abbandonati. Leracco la rifuti abbandonati pese ràsu Autovis 800mila eur nel triennio 2019-2021, pi 200mila per la raccolta lun go le scarpate. Autovie in crementeri hi estate i girli ne stato

3.3 I Training Session: Questionnaire

During the preparation of the first training session a questionnaire previously designed has been distributed to the audience. The questionnaire was printed on paper was distributed at the registration desk to those present to the conference room and collected at the end of the conference or at their departure. In this way the participants could quickly view the questions and formulate a response idea following the conference.

The results obtained from the first training session questionnaire gave a useful feedback in regards of the organization of the next sessions.

Follows the list of questions proposed to the audience of the First Training Session. For each question the audience was asked to express a preference according to the given assessment grid.

After the list of the proposed questions follows the answers given by the conference participants. Note that each question is marked with a bulleted number. while consulting the answers, refer to it.

DOMENICA 5 MAGGIO 2019 IL PICCOLO

			Assessment grid	Not at all	Not quite	Neutral	Much	Very much
1 TOPICS								
	1.1		The topics were relevant to me					
	1.2		I was familiar with the proposed topics					
	1.3		The topics offered a good overview on issues related to Passengers' flow					
2 SPEECHES								
	2.1		The material used for the presentations was coherent and clear					
	2.2		I would find it useful to have the presentations material available for future consultation					
	2.3		The presentations were coherent with the title and the topic					
	2.4		The presentations met my expectations					
3 CONFERENCE								
	3.1		The conference contributed to deepen my knowledge on the topics:					
		3.1.1	Multimodality					
		3.1.2	European projects on mobility					
		3.1.3	New scenaries on mobility (Maas, Electro-mobility)					
		3.1.4	Info-mobility					
		3.1.5	Sustainable Tourism					
		3.1.6	ICT Tools for Tourism					
		3.1.7	E-Planning Platforms					
		3.1.8	Other					
	3.2		I think these topics should be more disseminated					
	3.3		After the conference my knowledge on the covered topics has improved					
	3.4		I am involved in these topics (e.g. in daily life/at work)					
	3.5		The conference has been well organised					
General assessmen	its:							
	4.1 4.2		Which topic was of major interest? Which elements of the presentations could be enhanced? (e.g. the quality of presentations, technical aspects,)					
	4.3		Which topics would you like to be deepened further in the next Training Sessions?					

			1					2					3					4				
			Univ	ersit	ty of	Tries	te	Univ	ersi	ty of	Tries	te	Stak	ehol	der			STEP	-UP	PP		
L TOPIC			Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much
	1.1						x					x				x						x
	1.2						x					x			x						x	
	1.3						x					x				x					x	
SPEECHES																						
	2.1						x									x					x	
	2.2						x									x				x		
	2.3						x									x					x	
	2.4						x									x					x	
CONFERENCE																						
	3.1																					
		3.1.1				x														x		
		3.1.2					x													x		
		3.1.3				x															x	
		3.1.4				x										x				x		
		3.1.5					x										x				x	
		3.1.6				x										x					x	
		3.1.7			x															x		
		3.1.8																		x		
	3.2						x													x		
	3.3						×									x					x	
	3.4					x										x					x	
	3.5						x									x						x

			5					6					7					8				
			STEF	P-UP	PP			Loca	AU AU	thori	ty		Reg	ion C	onsu	ltan	t					
1 TOPIC			Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much
	1.1						x				x					x					x	
	1.2						x					x			x					x		
	1.3					x						x				x						
2 SPEECHES																						
	2.1						x					x				x					x	
	2.2					x						x					x		x			
	2.3					x						x					x				x	
	2.4						x					x					x				x	
3 CONFERENCE																						
	3.1																					
		3.1.1					x				x					x					x	
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		3.1.3					x					x				x					x	
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		3.1.5				x						x					x			x		
		3.1.6				x						x				x				x		
		3.1.7				x					x					x					x	
		3.1.8				x																
	3.2										x					x					x	
	3.3						x				x					x				x		
	3.4					x					x					x					x	
	3.5						x					x					x				x	

			9					10					11					12				
								Loca	Aut	thori	ty		Loca	al Au	thori	ty		STEP	-UP	PP		
1 TOPIC			Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much
	1.1										x						x					x
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2 SPEECHES																						
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	2.2					x						x				x						x
	2.3					x					x						x					x
	2.4					x					x						x					x
3 CONFERENCE																						
	3.1																					
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		3.1.2				x					х					x						x
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		3.1.4				x				x						x						x
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		3.1.6				x				x						x					x	
		3.1.7				x					x					x						x
		3.1.8				x																
	3.2										x						x					x
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	3.5						x					x					x					x

			13					14					15					16				
			Loca	Aut	thori	ty		Stak	ehol	lder,	Expe	rt	Indi	pend	lent	Repa	rt	Reg sup		echn	ical	
1 TOPIC			Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much
	1.1						x				x						x				x	
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2 SPEECHES																						
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	2.3						x			x							x				x	
	2.4						x			x						x					x	
CONFERENCE																						
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			17					18					19					20				
			Tech	nnica	I Sup	oport		citiz	en					VP F		chni	cal	STEP	-UP I	PP		
1 TOPIC			Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Vioni much
	1.1					x				x							x		x			
	1.2				x	x				x					x					x		
	1.3				x						x					x					x	
2 SPEECHES																						
	2.1						x					x				x					x	
	2.2						x				x					x					x	
	2.3						x					x				x					x	
	2.4					x						x			x				x			
CONFERENCE																						
	3.1																					
		3.1.1			x						x					x					x	
		3.1.2		x							x					x					x	
		3.1.3				x					x					x			x			
		3.1.4			x						x				x				x			
		3.1.5				x					x					x			x			
		3.1.6			x						x				x						x	
		3.1.7				x					x					x			x			
		3.1.8																				
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	3.3					x						x				x				x		
	3.4						x			x							x			x		
	3.5						x					x					x					,

			21					22					23					24				
			STEP	-UP	PP								Loca	al Aut	thori	ty		Svilu	uppa	tore	softv	vare
1 TOPIC			Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much
	1.1			x								x				x						x
	1.2				x					x						x						x
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2 SPEECHES																						
	2.1					x					x					x						x
	2.2				x						x						x					x
	2.3					x				x						x						x
	2.4				x						x					x						x
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		3.1.6		x							x				x							x
		3.1.7			x					x					x					x		
		3.1.8								x						x						
	3.2					x					x				x						x	
	3.3				x						x					x					x	
	3.4			x								x					x					x
	3.5						x					x					x					x

The feedback received for section 4. General assessment follows:

4.1	Which topic was of major interest?	

All Topics
E-mobility and new idea of passenger mobility
E-Planning Platform, MaaS, E-Mobility
E-Planning platforms/multimodality
MaaS
Maritime Transport> Massimiliano Angelotti e Sara Carciotti presentation
MOSESS
multimodality (2 items)
multimodality info-mobility
sustainable tourism (4 items)
Tourism and Maas

4.2 Which elements of the presentations could be enhanced? (e.g. the quality of presentations, technical aspects, ...)

maybe a small section on questions and answers could have been useful to involve the audience
more examples from real life, less legislatives and overviews
none
quality of presentations, speakers, duration of presentation should be shorter
technical aspects (2 items)
The possibility to have a notebook with presentation close to the speaker (thus the speaker can well read the slide and the next one
The presentations were very high quality
well interconnected and with common topics

well interconnected and with common topics

4.3 Which topics would you like to be deepened further in the next Training Sessions?

alternative in transport to decrease CO2	
complementary and synergic aspects should be stressed more	
E-mobility, car sharing	
e-mobility, EU projects, Maas, New activities in the field of mobility from Pas perspective	
European Project on mobility and sustainable tourism	
info-mobility	
multimodality and info-mobility	
multimodality E-planning platforms	
services for passengers at transport nodes	
Sustainable /green/eco tourism	
trends in info mobility, acceptance of by the public	

4. Realization of the II Training Session (Report)

4.1 Preparation activities for the realization of the II Training Session

4.1.1 II Training Session: Identification of the Audience

To **identify audience** and **organize** the training session the most adequately, a preliminary analysis was performed. For the second training session **project partners**, **local authorities** and **all the interested parties** could attend the remote conference. Dissemination has been made via invitation through electronic channels, e-mail, social channels and online bulletin boards. The I Training Session was designed to set the grounding knowledge on STEP-UP topics, so the vison offered was broad and general. Whereas, the II Training Session was designed to get deeper in some topics and to touch more technical and specific aspects in addition to the general and introductive ones. The target audience was consequently mainly composed by Project Partners, their external experts and other professionals in the fields related to STEP-UP topics. All the attendees to the webinar should own at least basic knowledge on some offered topics.

Description of the different actors involved in the II Training Session:

v. Project Partners

Each partner has expertise on specific topics, thanks to their institutional field of action, the support of their Technical Assistance and the know-how gained through previous projects.

The partnership was asked to communicate some areas of expertise they own and they were asked to contribute with a representative as speaker in at least one of the Training Sessions.

The partners were asked to stress the areas where they wanted to improve their knowledge. They mostly were interested in all the topics we suggested.

vi. Stakeholders

We invited some stakeholders to the training sessions and involved some of them as speakers (e.g. Port Authority of Trieste). Obviously, the stakeholders are active in the transportation or mobility field, so they already own some know-how. Although their knowledge might be positively task driven, they may lack some ground basis or some more technically specific knowledge. Addressing to stakeholders is therefore particularly tricky, since there must be a balance between concrete facts and accuracy. Topics must be captivating and useful for their daily work. In particular, we involved as Target Groups:

• Target Group 8: Education and training organizations as well as universities and research institutes

A university is partner in the project and will provide training sessions, also broadcasted as live streaming, that will be attended by both project partners and all stakeholders interested on multimodal topics. Following those sessions, any other education or training organizations as well as other universities or research institutes, could replace similar initiatives, obviously with a previous agreement with the first university concerning the use of training materials.

• Target Group 2: Local, regional and national public authorities

Local, regional and national authorities, within IT-HR Programme Area, have to be considered fundamental because they represent the most important figures able both to increase the awareness about ecofriendly transportation and sustainable tourism among different subjects (potential suppliers and potential service providers) and to promote their effective realization, through the definition of useful policy initiatives and operational activities. They are amply represented in the partnership.

• Target Group 3: Regional development agencies.

Regional development agencies, as operative branches of Regional authorities, are in charge of implementing theoretical regional policies, into actual actions. For example, Regions and local authorities draws up specific Regional/Urban Mobility Plans and foresees detailed guidelines which include the increase of multimodal transport, but the risk that those indications could remain not applied is tangible if regional agencies do not take care of those guidelines.

• Target Group 5: Transport associations

Target group Transport Associations Description: Transport associations can have a primary role promoting and incentivizing the diffusion of multimodal transport systems among their participants, but often, that associations do not know enough about multimodal themes and their benefits. So, they will be addressed in particular during WP5 implementation. They will be encouraged to participate in training activities in order to improve knowledge and data analysis on multimodal transport sector.

4.1.2 II Training Session: Modality of the session

The II Training Session was designed to offer a more specific contribution and the selected target was therefore selected among partners and stakeholders already sharing interest and a basic knowledge on the offered topics.

This specific topics and the restricted audience selection made us propend for the Webinar format for practicality and also sustainability reasons.

All the speakers have been previously contacted and the topics, materials and modalities discussed with the organizers. Some presentations have been recorded by UNITS at a time agreed with the speaker using an appropriate software (the GoToMeeting software was previously selected and had already been used for the I Training Session) or have been recorded by each speaker following the instructions given by UNITS.



All the presentations have been edited to give an overall format coherence.

The recording of the presentations has been then transmitted via GoToMeeting at a selected date, after sending invitations.

The live streaming, coordinated by UNITS, lasted about 2 hours. All interested parties could connect for up to 150 people, which is the capacity of GoToMeeting.

The proposed dates for the direct streaming have been decided by investigating in lecturer possibilities, to have the desirable participation of all the speakers involved, in order to respond to questions and requests for clarification from viewers in real time. Anyone interested was given the opportunity to ask questions directly to the speaker during the conference through the chat available in the software.

4.1.3 II Training Session: Identification of the Topics

For the second training session the macro-topics already identified for the first were proposed again (follow in small at the end of the paragraph) and other topics of interest were outlined as emerged from the feedback received from the audience through the compilation of the questionnaires.

As done for the selection and definition of topics in the first session, to better tailor the training sessions on the overall needs the list was shared with all PP, to give them the possibility to provide comments on the topics, or suggest new ones,

Submission of the list to the Project Partners was also useful to **analyse their internal expertise**, possibly to be shared with the other partners during the Training Sessions, to **analyse their needs**, the areas where their knowledge or level of expertise needed to be improved through Training Sessions.

Follows the message sent to the partners to invite them to participate actively with suggestions and requests to enrich the panorama of knowledge on the issues pertaining to the STEP-UP project.

"

Dear partners,

This e-mail to inform you about the next steps of the Training Sessions activity.

The second Training Session is planned approximatively for the end of june, the third for the end of july. We will make public the dates as soon as we have defined them.

For the next two Training Sessions, we are going to record speakers separately (materials and presentations in English, about 20-30 minutes). Then we will assemble the presentations in two sessions, which will be broadcasted to you and other stakeholders (we will ask your support for the widest dissemination of the links). Speakers will be asked to join the session broadcasting in order to answer to eventual questions from the audience.

Speakers will be able to record their presentation with our technical support from their offices or any other place of preference, there will be no need to book travels. Presentations should include some materials (e.g. slides, pdf, suggested bibliography...) to be kept together with the presentation recording in the repository. If any partner should be willing to make a presentation, you find in attachment the first topics guideline and the topic suggestions that we collected through questionnaires after the first training session.

We are at your disposal to discuss about the topics you would like to deepen, the date suitable for the recording and any other technical request. Please mind that also the partners who already contributed are very welcome to give another presentation, since some topics could very easily have a "sequel", as we already discussed with some partners during the preparation phase of the first TS.

If you wish to discuss about an intervention, or should there be any other clarification needed, do not hesitate to write us.

The list of topics of interest that emerged from the questionnaires is the following:

Topics for the Second and Third Training Session – Suggestions through Questionnaires.

- Sustainable/green/eco-tourism
- Trends in info mobility, acceptance of by the public •
- Multimodality E-planning platforms .
- Info-mobility
- European Project on mobility and sustainable tourism •
- Services for passengers at transport nodes
- Complemetariets and synergies should be stressed more
- e-Mobility, EU projects, Maas, New activities in the field of mobility from Pas perspective
- Alternative in transport to decrease CO2
- E-mobility, car sharing

The preliminary list of topics already proposed for the First Training Session:

STEP-UP	List Of Topics

1. Multimodality, Intermodality, Co-modality. Intermodal, multimodal public transport

To look up to Multimodality is a necessary step to improve the quality, safety and environmental sustainability of marine and coastal transport services and nodes. This topic includes an introduction and an overview on mobility new perspectives e.g. Maas Mobility as a Service.

- 1.1 Quality, safety and environmental sustainability
- Impact of the transport sector on the energy consumption and on climate change. Improve air quality and to promote good practices to significantly reduce pollution and to promote intermodality, in order to foster the use of different means of transport.
- Public transport with low carbon dioxide emission
- 1.2 Marine and coastal transport services and nodes vative and alternative ways to optimize the carriage of persons and goods specially in ur touristic coastal area
- Presence of islands and rural areas, make also integrate connections necessary with focus on inland connections to the coast

1.3 New perspectives e.g. MaaS Mobility as a Service

1.4 Connecting urban/suburban rail/road

- Seamless solution: using all transport modes (train, ferry, public transport, flexible transportation Demand Responsive Transport, etc.)
- 1.5 Intermodal mobility A resource for tourism development and encourage joint actions of the cross sector international partmerships aimed at developing new solutions for sustainable environmental development and intermodal transport

1.6 Tourism development prediction Analysis of the last years' trends and near future trends forecast.

2 European Projects concerning Mobility and Tourism

An overview on European funded projects on Mobility and Tourism. European new perspective, trends and goals on multimodality, sustainability, e-mobility, enhancing waterways and making road flows lighter

2.1 Intermodal in European strategies 2030 and 2050 2.2 Mentioned EU Project:

- 4PILLARS TISAR
- EASEWAY ECOMOBILITY
- MOSES

3 Touristic routes and connections between Italy and Croatia. Passengers transport and innovative systems. History, data, overview.

This topic aims to deepen the knowledge on the Programme Area, to understand the already existing connections and traffic flow between the two Countries involved in the project. An in-depth analysis on geographical, economical and historical features of tourism and passengers' flow in the Adriatic area. This overview will underline the importance of tourism for social and economic development.

The overview can include in a multidisciplinary approach a variety of aspects such as:

Urbanization, economic and entrepreneurial development, utilities, social welfare, education, traffic.

4 Data standardisation and harmonisation in the transportation field.

In a multimodal travel planning platform, many travel aggregators receive property descriptions and availability data from different transport service providers. Each data provider may have its own data schema and structure that must be standardized before it can be used. This topic wants to propose an overview on the main requirements and characteristics of data storing and standardisation. overview on use main requirements and characteristics of data storing and sta Furthermore, an excursus on specific standards will be given: Standard GTFS (General Specification), SIRI (European Standard for real-time information), DATEX II, and oth connected to MaaS. ral Transit Feed

The lesson aims to

 Better understand the data standardization as a data processing workflow that converts the structure of disparate datasets into a Common Data Format. Data Standardization can also be 	6.3 APPs and info-mobility data for tourism			
thought of as the transformation rules engine in Data Exchange operations. Better understand how data standardization enables the data consumer to analyse and use data	6.4 Weather data integrated to ICT Platforms			
 in a consistent manner. Standardizing data helps you make the source data internally consistent; that is, each data type has the same kind of content and format. Gigg the fundamental knowledge towards the creation of a common communication protocol between different systems (ICT platforms) and services. Collect data in NITERANODAL projects. Work on a system based on standard protocols for different objective and scenarios managed: tourists' and travellers' needs including those for existing citizens. 	The lesson aims to:			
	 Evidence the main requirements and possibilities, such as database creation with useful and relevant mobility data including the real-time information thanks the integration with AVM system. Design and developing of added modules such as booking & ticketing to offer a complete solution according to a global vision. Develop high quality level of services, improve the ITS level at Regional level, make the current services more reliable and attractive. 			
5 Big-data for transportation and tourism. Data fusion	 transfer the ICT/ITS applications also during low season in other scenarios (e.g. info-mobility system) Permits both citizens and tourists, will be able to have benefits in terms of a better travel 			
Big data refers to data sets that are too large or complex for traditional data-processing application software to adequately deal with. The topic proposes an overview:	planning (more sustainable and with less time spent finding best solutions or purchasing tickets thanks to the ICT channel)			
 on Big Data concept; on the potential of Big Data applied to transportation and tourism; on Big Data characteristics (Volume, Variety, Velocity, Veracity); 	7 ETA			
 on Big Data Architecture. "5C architecture" (connection, conversion, cyber, cognition, and configuration); on the concept of Big Data applied to transportation and tourism. An overview on Big Data. 	Estimated Time of Arrival, requirements and how to integrate this added module to the platform.			
5.1 Collecting, sharing and managing transport data 5.2 Algorithms for the optimization of multimodal transport	8 Unified ticket, dynamics and governance. E-Ticketing.			
	This topic presents an overview on:			
The lesson aims to:	8.1 Unified ticket as added module fundamental to increase platform efficiency and impact.			
- Better understand the algorithms for the optimization of multimodal transport, and on	8.2 Main requirements and strategies. Examples of virtuous existing			
collecting, sharing and managing transport data	8.3 e-roaming?			
	Tourist information useful for an extended mobility services such as e-roaming that enables additional visibility and promotion of multimodal transportation across inland (network of			
6 ICT Platforms for touristic purpose.	electric vehicles and electric bicycles)			
This topic presents an overview on ICT Platforms for touristic purpose. Focusing on:				
6.1 ICT Platforms for touristic purpose. State of the art on existing platforms.	9 E-mobility, E-cars.			
- Example of existing platform (e.g. Transport for London).	This topic presents an overview on E-mobility, E-cars, Multimodality integrated with E-Mobility.			
- Local ICT platform.	9.1 Eco – Mobility			
6.2 High level platform design.				

This aspect, the involvement of the Project Partners, was particularly important to enhance the effectiveness of the Training Sessions.

4.1.4 II Training Session: Identification of the Teachers and Experts

For the second training session, were searched and selected speakers who could offer a more technical overview of the topics of the STEP-UP project.

For each seminarian invited to intervene as an expert, the curriculum information of each speaker and the contents of the proposed topic are indicated below. A brief description of his actual professional role is indicated (if they are Project Partner also is specified) and brief biography fulfills the desire to understand in a few lines the professional position and the training path of each speaker and how king of competence can conduce a person to be defined as expert in determined arguments.

A brief introduction follows to each selected speaker with a short biography highlighted on them in gray:

The lectured **Daniela Vasari** is invited to deepening the topic related to MaaS, she is really expert in this topic that collected clear interest from the audience present at the first training session.

Daniela Vasari

Project manager, solution designer in ITS projects and International cooperation, Pluservice, Technical Assistance of Marche Region (STEP-UP project Lead Partner)

Daniela Vasari graduated in Computer Engineering, in March 2009. She works in PluService since 2009 as Solution Designer for ITS in Passenger Transportation and since 2014 as Senior Project Manager. She is involved in EU-International-National projects on topics such as Demand Responsive Transport, Multi-modal Traveller Information Systems, Automatic Vehicle Monitoring systems. She is the Project Manager of several European funded projects.

Giorgia Fanesi is invited to participate at the second training session making available, especially to all Project Partners, but at the same time to all the interested technical notions related to the applications developed for the STEP-UP project.

Giorgia Fanesi

Software analyst and project manager, Pluservice, Technical Assistance of Marche Region (STEP-UP project Lead Partner) After her Master Degree in industrial engineering at the University of Bologna and an internship at IRU, Giorgia Fanesi has worked on ICT projects for PluService s.r.l. and is currently Software Analyst and Project Manager at myCicero.

To extend the potentiality of an ICT platform and share the experience of Trieste we chose **Valentina Boschian** to introduce the STEP-UP partnership to the internal ICT and data structure used by the Port Network Authority of the Eastern Adriatic Sea.

Valentina Boschian

Dott. Ing, Ph.D.

Port Network Authority of the Eastern Adriatic Sea – Port of Trieste, Digital Port Area Dott. Ing. Valentina Boschian, Ph.D., works at the Port Network Authority of the Eastern Adriatic Sea – Port of Trieste, in the Digital Port Area. Since 2008, her expertise is focused on consultancy activities related to the analysis of ICT impact on new business cases, mainly in the field of transport and logistics. After obtaining a degree in Management Engineering and a PhD in Computer Science Engineering, she worked as a project manager in several international research projects. She is also expert in business model innovation.

Main skills: Analysis and modelling of processes; Assessment analysis (based on KPIs definition); Management of complex systems with analytical models; Analysis of business scenarios, Use Case identification and User Requirement definition; Project management, ICT applications in logistics and transportation management. Education

- Dottorato (Ph.D.) in Information Technology Engineering, University of Trieste (2012)
- Degree in Management Engineering and Integrated Logistics (graduation with first class honours, "110/110 e lode"), University of Trieste (2008)
- Degree in Management Engineering (graduation with first class honours, "110/110 e lode"), University of Trieste (2003).

To enlarge the knowledge related to electric vehicles, a topic of interest, as emerged from the first Project Partners meetings and Steering committee meetings, we invited the expert professor **Romeo Danielis** to provide a technical and economical overview of the variety, potential and limits of the electric lanes

Romeo Danielis

professor of Economics at the University of Trieste. Romeo Danielis is full professor of Economics at the University of Trieste. He teaches Industrial Economics, Transport Economics and Logistics, and Market and Business Economics.

The last speaker involved in this second training session, aimed primarily at satisfying the needs of the project partners, is **Andrea Molinaro**. He is the expert representative involved in the proposal of the business model that is best suited to the STEP-UP project. During this session he is invited to present the basics of his work and the fundamentals necessary for the well definition of an adequate business model.

Andrea Molinaro

Consultant at Studio Peloso & Associati - expert in design thinking, business organization and subsidized finance

4.1.5 II Training Session: Presented Topics

The final topics were chosen in collaboration with the lecturers invited to participate in the first training session. Below is the summary list of the selected titles and again to follow the presentations offered during the conference.

- 1. The role of Mobility as a Service
- 2. The economics of electric vehicles
- 3. ICT tool in use at the Port of Trieste: The Port Community System Sinfomar
- 4. How to use GTFS
- 5. MaaS Business Models

4.1.5.1 The role of Mobility as a Service [Daniela Vasari]





Slide 2/13

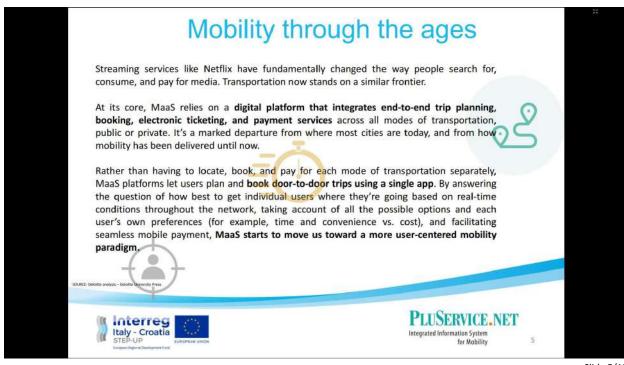


Italy - Croatia

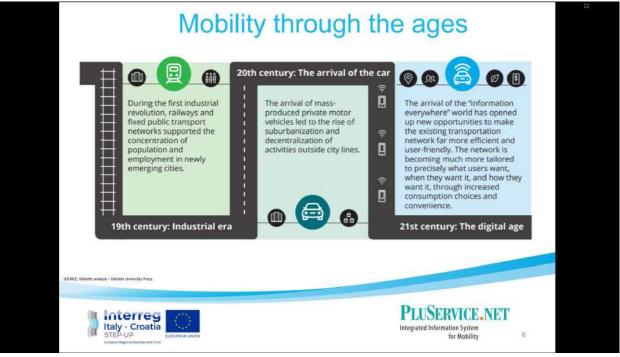
Slide 4/13

PLUSERVICE.NET Integrated Information System for Mobility

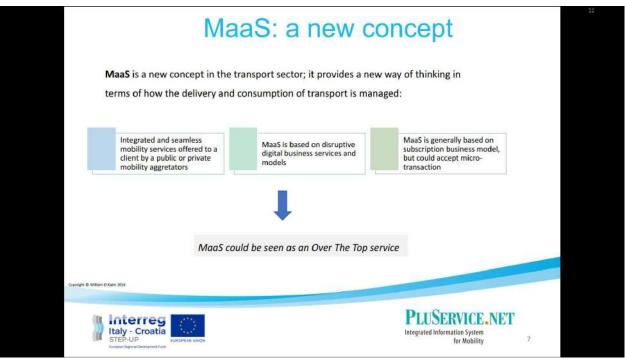
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Slide 5/13



Slide 6/13



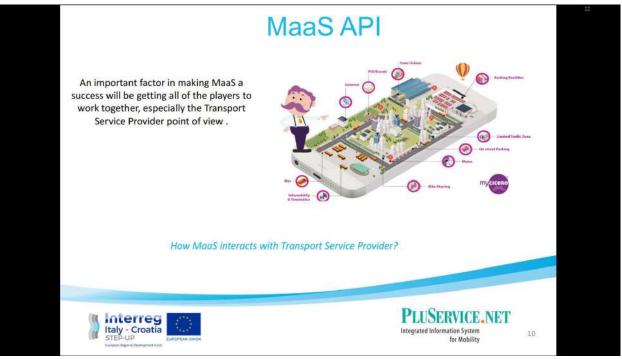
Slide 7/13



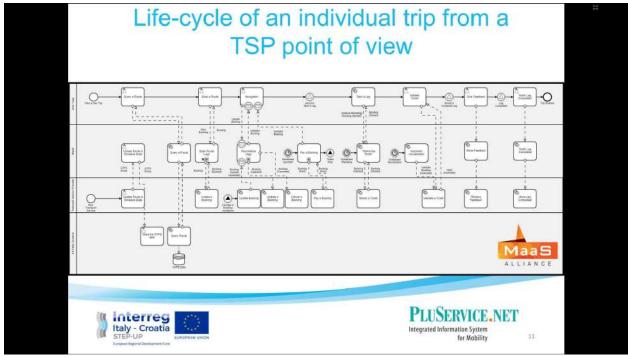
Slide 8/13



Slide 9/13



Slide 10/13



Slide 11/13



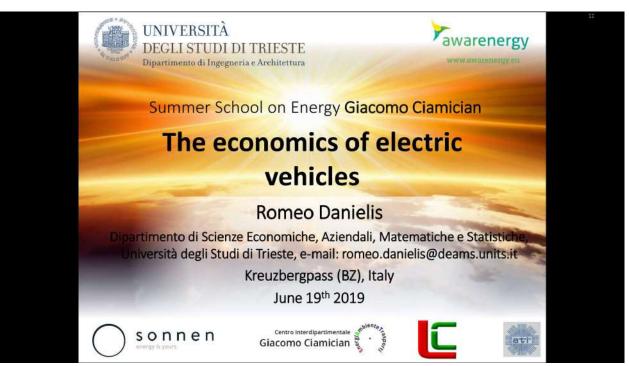
Slide 12/13





4.1.5.2 The economics of electric vehicles [Romeo Danielis]

Slide 1/58



Slide 2/58

Outline

- Why do we need for Evs?
- Are EVs technologically feasible?
- Is there an economic case for EVs?
- Which EVs are available? For which transport modes?
- Is it possible to decarbonise transport?

Slide 3/58

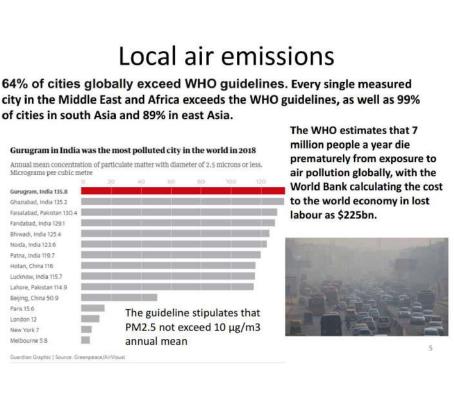
Do we need electric vehicles?

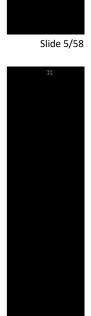
Two potential environemental motivations:

- · Local urban air emission
- Global CO2eq emissions



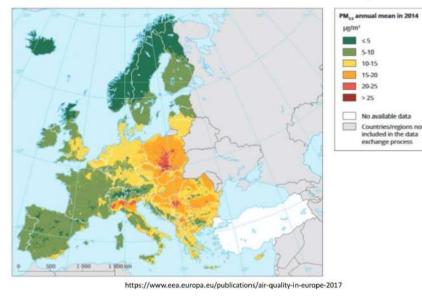
Slide 4/58





al mean in 2014

Local air emissions in Europe



Slide 6/58

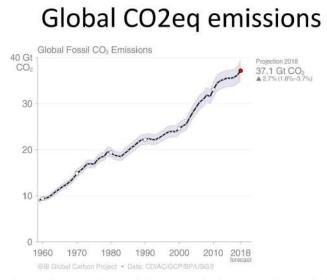


Figura 1 - Estimates for 2015, 2016 and 2017 are preliminary ; 2018 is a projection based on partial data.

Source: CDIAC; Le Quéré et al 2018; Global Carbon Budget 2018

Slide 7/58

Transport's CO2 emissions on the rise..

In EU è il 27% nel 2014:

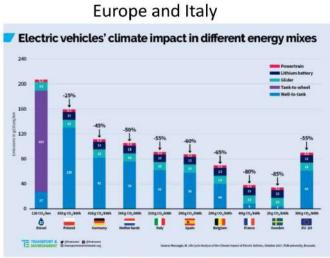
(20,8 Transport; 3,2% international navigation, 3,2% international shipping)

	1990		2014		Difference
Transport	785.5	13.9%	889.9	20.8%	104.4
International navigation	109.4	1.9%	135.2	3.2%	25.8
International aviation	69.7	1.2%	137.1	3.2%	67.4
Energy supply	1861.4	32.8%	1334.3	31.1%	-527.1
Industry	1376.4	24.3%	866.1	20.2%	-510.3
Agriculture	643.6	11.4%	514.1	12.0%	-129.5
Residential and commercial	726.5	12.8%	524.4	12.2%	-202.1
Other	31.7	0.6%	10.7	0.2%	-21
Land use, land use change and Fores	-255.2	-4.5%	-302.6	-7.1%	-47.4
Waste management	243.5	4.3%	146	3.4%	-97.5
CO2 emissions from biomass	198.2	3.5%	506.1	11.8%	307.9
Total excl. LULUCF	5668.7	100.0%	4285.6	100.0%	-1383.1
All transport		17.0%		27.1%	
	5790.7		4761.3		

Figura 5 – Emissione di gas serra per settore economico in EU (fonte: https://www.eea.europa.eu/dataand-maps/daviz/change-of-co2-eq-emissions-2#tab-dashboard-01)



Slide 8/58

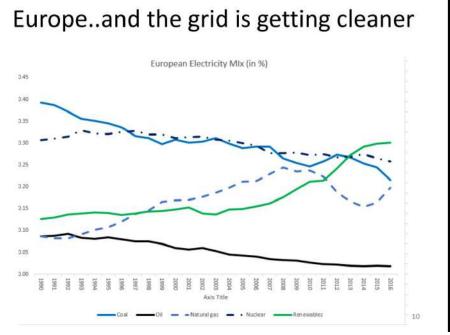


Transport & Environment (T&E)- Electric cars emit less CO2 over their lifetime than diesels even when powered with dirtiest electricity (Italy, Europe -55%)

Romeo Danielis - Le emissioni di CO2 delle auto elettriche e delle auto con motore a combustione interna. Un confronto per l'Italia tramite l'analisi del ciclo di vita, WP SIET

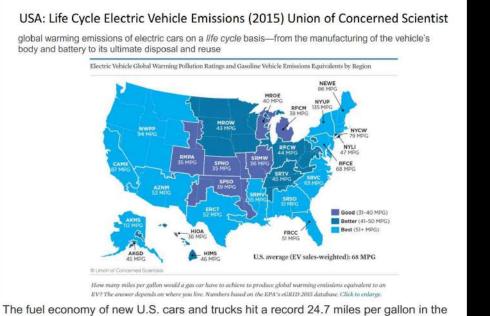
(http://sietitalia.org/pubblicazioni.htm). «le auto elettriche emettono complessivamente meno CO2 delle automobili con motori a combustione interna più vendute in Italia: il 19% in meno delle auto a₉ benzina, il 18% in meno delle auto diesel ed il 9% in meno delle ibride.»

Slide 9/58



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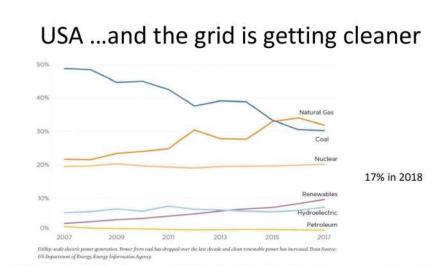
Slide 10/58



The fuel economy of new U.S. cars and trucks hit a record 24.7 miles per gallon in the 2016 model year, a government report said

https://www.ucsusa.org/clean-vehicles/electric-vehicles/life-cycle-ev-emissions

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In 2018, about 4,178 billion kilowatthours (kWh) (or 4.18 trillion kWh) of electricity were generated at utilityscale electricity generation facilities in the United States.¹ About 63% of this electricity generation was from fossil fuels (coal, natural gas, petroleum, and other gases). About 20% was from nuclear energy, and about 17% was from renewable energy sources. The U.S. Energy Information Administration estimates that an additional 30 billion kWh of electricity generation was from small-scale solar photovoltaic systems in 2018

https://www.eia.gov/tools/faqs/faq.php?id=427&t=3

Slide 12/58

EVs: are they technically feasible?

Batteries: main component

- More than 5 million electric cars in the streets in December 2018, million miles driven
- Battery lifespan: many charging cycles (most manufacturers are offering 8-year/100,000-mile warranties), degradation curve (3-5% initially then slowing down). "Tesla Batteries Have 90% Capacity After 160,000 Miles, May Last For 500,000 miles"
- · Rare components: cobalt free (Tesla), new materials
- · Battery recycling
- Safety: catching fire
- New batteries, solid state batteries (Toyota)



Slide 13/58

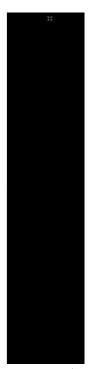
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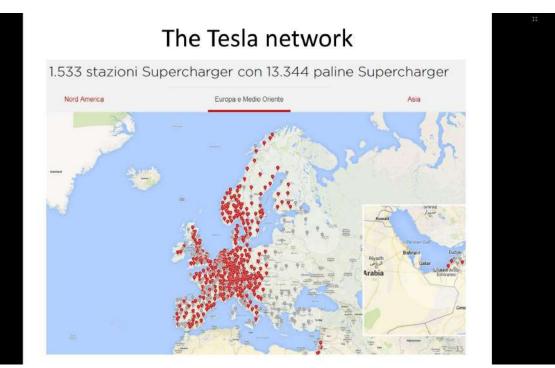
EVs: are they technically feasible?

EV charging infrastructure

- Home charging: main advantage (if you own a garage)
- Availability: Chicken-egg problem? No, charging stations follow, regulation (and incentives) needed
- Charging time: up to 350 kW existing, 400 kW CHADEMO announced, 900 kW in China tentative



Slide 14/58



Slide 15/58

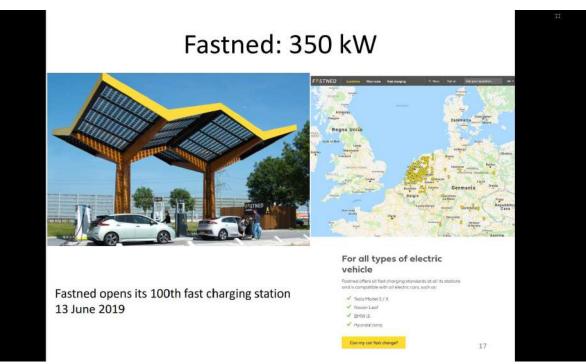
The IONITY network: the power of 350 KW



IONITY is a joint venture of BMW Group, Daimler AG, Ford Motor Company, and Volkswagen Group with Audi and Porsche. Our goal is simple: Building a high power charging network for electric vehicles along major highways in Europe.



Slide 16/58



Slide 17/58

EVs: Are they economically feasible?

- The consumers' point of view (demand side of the market)
 - Monetary attributes: total cost of ownership
 - Non monetary attributes: time to charge, driving range, other social motives
- The automotive industry's point of view (supply side of the market)



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18

Total cost of ownership



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19

The TCO model

2. Total Cost of Ownership model and break-even BEV MSRP

The private TCO of a vehicle covers all costs occurring over its lifetime. It includes one-time costs, i.e. the lump-sum initial costs (IC), the annual operating costs (AOC) during the period of use minus the residual value (RV) of the vehicle at time T, when it is sold or scrapped.

Initial costs are equal to:

$$IC = MSRP - RD - SUB + RC + HC$$

where MSRP is the manufacturer's suggested retail price, RD is the retailer's discount, SUB is the government subsidy, RC is the registration cost and, in the case of electric vehicles, HC is the cost for acquiring and installing the home charging equipment (e.g., wall-box).

AOC includes all the costs incurred during the period of ownership T of the vehicle. For every year $t \in [1, T]$, AOC is equal to:

$$AOC_t = CT_t + INS_t + MAINT_t + FE_t$$

where CT is the circulation tax, INS is the insurance premium, MAINT are the repair and maintenance costs, and FE stands for the fuel/electricity cost to run the car. These costs vary with the propulsion system and the annual distance travelled.

FE is the product of the fuel/energy efficiency (FE_E) and fuel/electricity price (FE_P). We specify FE_E as follows:

$$FE_E = \gamma \cdot (\alpha \cdot FE_{urb} + (1 - \alpha) \cdot FE_{exturb})$$

where γ is the weather-adjustment factor, FE_{urb} and FE_{exturb} the fuel/energy efficiency in urban and in extra-urban roads, respectively, and α is the percentage of trips driven in an urban area. We specify FE_P as:

$$FE_P = \begin{cases} \beta \cdot EP_{home} + (1 - \beta) \cdot EP_{public} \\ average \ price \ of \ diesel/petrol \\ for \ HEVs, D_{-} \end{cases}$$

for HEVs, D_ICEVs and P_ICEVs

For BEVs, the electricity cost depends on whether charging takes place at home or at public chargers. Therefore, we compute the weighted average of the electricity price paid at home, EP_{home} , and that at the public charger, EP_{public} , where β is the percentage of electricity charged at home. For diesel and petrol cars, we consider the average price paid.



for BEVs

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The total amount to be paid to the retailer when purchasing the vehicle is equal to MSRP-RD-SUB. If financed with borrowed money at a given APR, its annual amount is equal to:

$$\frac{(MSRP - RD - SUB) \cdot APR}{1 - (1 + APR)^{-T}}$$

Further components of the initial costs are RC and HC. Their annualized value is obtained multiplying them by the CRF⁹, i.e. the capital recovery factor equal to $(i(1 + i)^T)/((1 + i)^T - 1)$:

$$(RC + HC) \cdot CRF$$

The sum of these two components represents the Annualized Initial Cost (AIC):

$$AIC = \frac{(MSRP - RD - SUB) \cdot APR}{1 - (1 + APR)^{-T}} + (RC + HC) \cdot CRF$$

¹ APR is expressed as a percentage that represents the actual yearly cost of funds over the term of a loan. This includes any fees or additional costs associated with the transaction but does not take compounding into account.

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AOC takes place during the lifetime of the vehicle. We discount it and compute its average value, obtaining the average annual operating cost (AAOC):

$$AAOC = \frac{1}{T} \sum_{t=1}^{T} \frac{AOC_t}{(1+t)^t}$$

Finally, we add the discounted and annualized residual value (DARV):

$$DARV = \frac{RV}{(1+i)^T} \cdot CRF$$

where RV can be expressed as a percentage η of the MSRP.

Therefore, the annualized TCO metric is the following:

ATCO = AIC + AAOC - DARV



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Therefore, the annualized TCO metric (ATCO) is the following:

ATCO = AIC + AAOC - DARV

Dividing this sum by the annual distance travelled (ADT) in kilometers, we finally obtain the metric ATCO/km, which represents the average cost per kilometer of owning a given vehicle:

$$\frac{\text{ATCO}}{\text{km}} = \frac{ATCO}{ADT} = \frac{1}{ADT} \left(\frac{(MSRP - RD - SUB) \cdot APR}{1 - (1 + APR)^{-T}} + (RC + HC) \cdot CRF + \frac{1}{T} \sum_{t=1}^{T} \frac{AOc_t}{(1 + t)^t} - \frac{\eta \cdot \text{MSRP}}{(1 + t)^T} \cdot CRF \right)$$

An interesting indicator is to compute which BEVs' MSRP would make BEV's ATCO/km equal to that of an alternative propulsion system. Solving the above equation with respect to BEVs' MSRP, one gets the following result:

$$\operatorname{Break} - \operatorname{Even}\operatorname{BEV}\operatorname{MSRP} = \frac{ATCO_{\operatorname{comp}} - AAOC + \frac{(RD + SUB) \cdot APR}{1 - (1 + APR)^{-T}} - (RC + HC) \cdot CRF}{\frac{APR}{1 - (1 + APR)^{-T}} - \frac{\eta \cdot CRF}{(1 + i)^{T}}}$$

where $\underline{ATCO_{comp}}$ is the average ATCO of the propulsion system we want to compare BEVs with. We define it as the ATCO/km break-even BEV MSRP.



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Summary of TCO determinants

- Market variables: MSRP, (partly) petrol\diesel and electricity price
- Financial variables: Interest rate, own funds or nominal annual percentage rate of charge (APR)\effective APR (or EAPR). In Italy, TAN (tasso annuale nominale)\TAEG (tasso annuo effettivo globale)
- Policy variables: subsidies, reduced registration taxes, (partly) petrol\diesel and electricity price, reduced parking, fees to access restricted areas (LTZ),
- Mobility variables: Annual distance travelled, % of urban trips
- Charging habits and location variables: at home (garage availability) or at public charges



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Model implementation in Excel

Further analysis and conclusions

- The TCO model can be further refined including uncertainty and dynamics
- Main conclusions: EVs are not yet cost competitive unless
 - High annual travelled distances
 - Incentivising policies (subsidies, discounts, free parking, etc.)
 - Urban driving
 - Charging at home
-but people make decisions not only based on monetary variables, but also attitudes, beliefs, time constraints and so on..



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Discrete choice modelling

All variables are considered;

- Monetary: MRSP, AOC (fuel, maintenance, annual excise fees)
- Technical: acceleration, driving range, emissions, noise
- Time: charging time and charging stations availability
- Mobility needs: cars in the household, % of longer trips, traffic restrictions

Preference data are collected

The discrete choice model is estimated

The discrete choice model is used to forecast EVs uptake

The role of driving range in consumers' purchasing decision for electric cars in Italy M Giansoldati, R Danielis, L Rotanis, M Scorrano Energy 165, 267-274

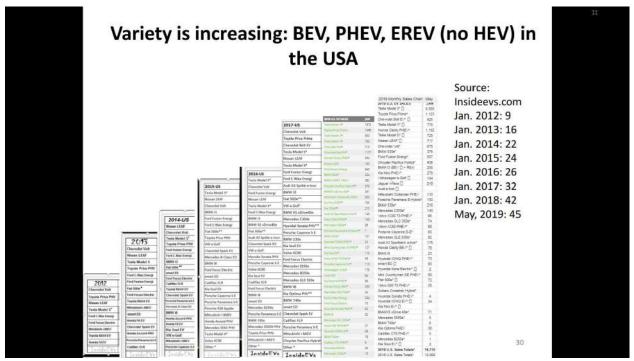
The automotive industry's point of view (supply side of the market)

- Increased variety
- Increasing number of charging stations
- Large investments



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Coming models 2019-20

- VW: Volkswagen ID.3, Volkswagen ID Crozz, • Volkswagen ID Buzz and Cargo Concept
- Audi e-tron SUV, Audi e-Tron GT, Porsche Taycan ٠
- Skoda Citigo, Seat El-Born, Seat Mii electric ٠
- BMW: Mini Cooper SE, BMW i4 ٠
- Peugeot e-208 .
- Tesla Model Y, Tesla semi, Tesla pick up .
- Rivian electric SUVs and pick-ups •
- Chinese related: Byton EV SUV, Faraday Future FF-• 91, Polestar 2, Vauxhall Corsa-e
- Honda e •
- And Toyota???

VW group

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Automaker group	Announced Investment*	Electric models ^a	Annual global electric sales (shares)
Nissan-Renault- Mitsubishi	 \$9 billion over 2018–2022 (in China only) 	12 electric models by 2022	3 million (30%) by 2022
Volkswagen Group	\$40 billion manufacturing plant by 2022 \$60 billion battery procurement	 BO electric models by 2025 300 electric models by 2030 	2-3 million (20%- 25%) by 2025
Toyota	(not available)	 All vehicles hybrid, battery, or fuel cell electric by 2025 	2 million (25%) by 2025
Chonging Changan	• \$15 billion by 2025	21 electric models by 2025 12 plug-in hybrid models by 2025	1.7 million (100%) by 2025
BAIC	 \$15 billion by 2022 \$19 billion (with Daimler) 	(not available)	1.3 million (100%) by 2025
Geely	(not available)	All models hybrid or electric by 2019 (Volvo)	13 million (90%) by 2020
General Motors	(not available)	20 electric models by 2023	1 million (12%) by 2026
Tesla	\$4-5 billion battery manufacturing	· 3-4 electric models (S, X, 3, Y)	0.5 million (100%) by 2020
Mercedes	\$12 billion manufacturing plant \$12 billion battery manufacturing	10 electric models by 2025 50 electrified models by 2025	0.4-0.6 million (15%-25%) by 2025
BMW	\$2.4-3.6 billion procurement by 2025	 12 electric models by 2025 13 plug-in hybrid models by 2025 	0.4-0.6 million (15%-25%) by 2025
Ford	STI billion manufacturing plant by 2022	 16 electric models by 2022 24 plug-in hybrid models by 2022 	(not available)
Great Wall	\$2-8 billion over 10 years	(not available)	(not available)
Jaguar	(not available)	All models hybrid or electric by 2020	
Inifiniti	(not available)	 All new models plug-hybrid or electric by 2021 	(not available)

edia reports at time of announcements. lefs in this column refer to plug-in electric and non-plug-in hybrids. 'Final est commitments and 2005 subscriptions for exclusion and us in hybrids. Note. Details are from press statements from the c Assume 1 euro to \$1.2 conversion, based on mid-201



The crucial factor: the battery

chemistries, , power-to-weight ratio (per unit weight), energy to weight ratio (specific energy is energy per unit mass) and energy density (per unit volume), cycles (before degradation), recharging time, disposal

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Ahman, Man (2 (4): 433-443. t policy and the se Lithium batteries technology

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Giga-factory



Battery pack

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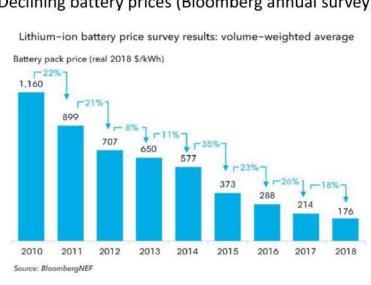
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Current Li Ion Batteries and Future Targets

Parameters	Now	Target
Energy density (Wh/kg, Wh/L)	220Wh/kg	500Wh/kg
Cell cost (\$/kWh)	\$130/kWh	\$60/kWh
Cycle life and calendar life	1,000 cycles 7 years	3,000-10,000 cycles 15-25 years
Charge rate	1-2 hours	<10min
Safety	Not Safe	Safe

https://www.youtube.com/watch?v=vp--eMUexPs

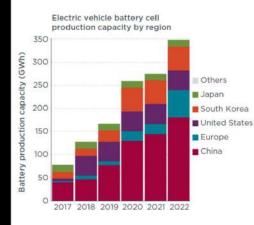


Declining battery prices (Bloomberg annual survey)

https://about.bnef.com/blog/behind-scenes-take-lithium-ion-battery-prices/ 35

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Increasing battery production, economies of scale (Cina, Corea, Giappone, USA)

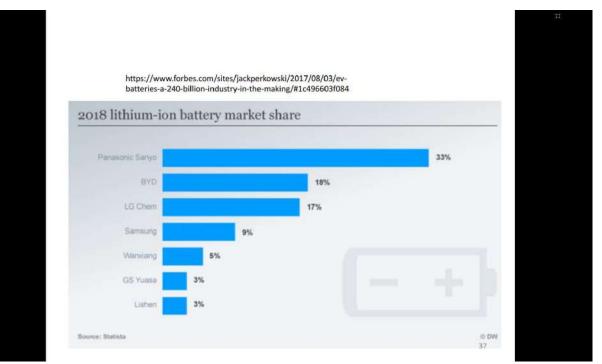


Announced electric vehicle battery pack production capacity for 2017-2022, by company and region.

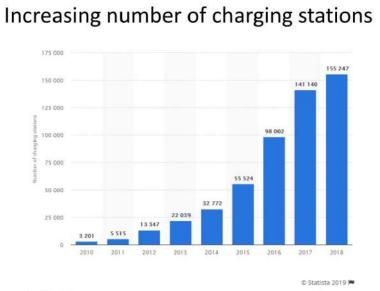




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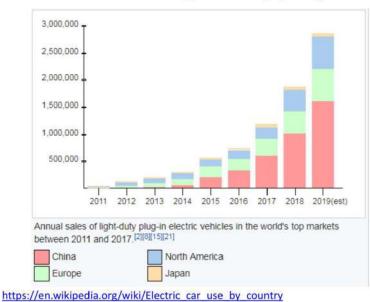


https://cleantechnica.com/2018/03/07/stop-comparing-number-gas-stations-ev-charging-stations/

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Annual sales of light-duty plug-in EVs





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Passenger plug-in market share of total new car sales between 2013 and 2018 for selected countries and selected regional markets

selected regional markets												
Country ¢	2018 •	2017 •	2016[15][74] +	2015[75][76] +	2014[77] +	2013[78] •						
Norway ^{[50][16]}	49.1%	39.2%	29.1%	22.39%	13.84 %	6.10%						
Iceland ^{[79][80][81][82]}	19%	14.05%	4.6%	2.93%	2.71%	0.94%						
Sweden ^{[83][84][63]}	8.2%	5.2%	3.5%	2.62%	1.53%	0.71%						
Netherlands ^{[61][85]}	6.5%	2.6%	6.7%	9.9%	3.87%	5.55%						
Finland ^{[79][86]}	4.7%	2.57%	1.2%	N/A	N/A	N/A						
China ^{[77][87][88][23][89]}	4.2%	2.1%	1.31%	0.84%	0.23%	0.08%						
Andorra ^[90]		5.6%	0.81%	N/A	N/A	N/A						
Portugal ^[91]	3.6%	1.9%	N/A	N/A	N/A	N/A						
Austria ^{[79][92][93]}	2.6%	2.06%	1.6%	0.90%	N/A	N/A						
Switzerland ^{[79][94]}		2.55%	1.8%	1.98%	0.75%	0.44%						
K ^{[95][96][54]}	2.53%	1.86%	1.37%	1.07%	0.59%	0,16%						
Belgium ^{[79][97]}	2.5%	2.7%	1.8%	N/A	N/A	N/A						
Canada ^[62]	2.16%(3)	0.92%	0.58%	0.35%	0.28%	0.18%						
France ^{(1)[57][58]}	2.11%	1.98%	1,4%	1.19%	0.70%	0.83%						
USA ^{[98][49][99][100]}	2.1%	1.13%	0.90%	0.66%	0.72%	0.60%						
Denmark[101][102]	2%	0.4%	0.6%	2.29%	0.88%	0.29%						
Germany[77][87][103][60][59][104]	1.9%	1.58%	1.1%	0.73%	0.43%	0.25%						
 Japan^{[2][52][105]} 	1.0%	1.1%	0.59%	0.68%	1.06%	0.91%						
New Zealand ^[106]	0.96%	0.72%	0.50%	0.23%	0.21%	N/A						
Global Total												
California ^{[67][107]}	7.8%	4.8%	3.6%	3.1%	3.2%	2.5%						
Europe[66][79][108][109][110][111](2)	2.5%	1.74%	1.3%	1.41%	0.66%	0.49%						



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International Energy Agency «Global EV Outlook 2019"

- Electric mobility is expanding at a rapid pace. In 2018, the global electric car fleet exceeded 5.1 million.
- Policies play a critical role (fuel economy standards, incentives for zero- and low-emissions vehicles), policy support to address the strategic importance of the battery technology value chain.
- Technology advances are delivering substantial cost cuts. Key enablers are developments in battery chemistry and expansion of production capacity in manufacturing plants. Other solutions include the redesign of vehicle manufacturing platforms.
- Private sector response to public policy signals confirms the escalating momentum for electrification of transport.
- Positive outlook. In 2030, in the New Policies Scenario, global electric car sales reach 23 million and the stock exceeds 130 million vehicles. In the EV30@30 Scenario, EV sales reach 43 million and the stock is more than 250 million.

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The future of EVs

 Volkswagen is betting its future on electric cars. VW is increasing the number of new electric models it plans to build over the next decade from 50 to 70. The Volkswagen Group said that it now plans to build 22

million electric cars across its brands by 2028. It said it may also get into the battery manufacturing business in Europe. The Volkswagen Group, which includes Audi, Porsche and Skoda, sold a record 10.8 million cars in 2018. But just 40,000 of those were electric vehicles, and only 60,000 or so were plug-in hybrids.

 Evergrande, a Chinese firm believed to be the biggest real estate company in the world, announced a massive \$23 billion investment in the production 1 million electric cars and 50 GWh of batteries per year. The company is known for having its hands in many different businesses in China and overseas.



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EVs....not only cars



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Electric Scooters



- Producers: Čezeta, Victory Motorcycles, Monday Motorbikes, Mahindra, Zero Motorcycles, Lightning Motorcycle, Energica Motor Company, Johammer, Evoke Motorcycles, Quantya, Electric Motorsport, Hollywood Electrics, Yo, Lito, Romai, Gogoro, Inokim, Rondine Motor, Current Motor Company, KTM and Alta Motors. Yamaha plans to enter the market shortly with at least two models.
- Scooter sharing in molte città europee
 - Battery swapping
- Vendite: China leads the world in electric scooter sales, comprising 9.4 million of the total 12 million sold worldwide in 2013. There were only 31,338 electric scooter sales outside the Asia-Pacific region including Europe.
 Piaggio? Coming in September

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Electric Buses

Shenzhen's transport commission said on Dec. 27 2017 that it had transitioned its 16,359 buses to all-electric models. The city's 17,000 taxis are next (63% of them are already electric).



Apr 11, 2018 Flixbus launches first long-distance electric bus route in France





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Electric Taxis

Florence: 70 new linceses, mandatory BEV. Next: Bologna, Milan



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Urban freight distribution with electric vans



This was a privately organized research initiative at the RWTH Aachen University which later became an independent company in Aachen In April 2016, Deutsche Post DHL Group announced that StreetScooter GmbH would be scaling up to manufacture approximately 10,000 of the Work vehicles annually, starting in 2017.





Die London Electric Vehicle Company (LEVC) zeigt ein erstes Foto ihres elektrifizierten Transporters, der Ende 2019 in den Handel kommen soll.

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Medium to long distance trucks



Bundesverkehrsministerium fördert umweltfreundliche Lkw Die Höhe der Zuschüsse beträgt 12.000 Euro für E-Lkw bis 12 Tonnen und 40.0000 für E-Lkw über 12 Tonnen. The Tesla Semi is an all-electric batterypowered Class 8 semi-trailer truck prototype which was unveiled on November 16, 2017 and planned for production in 2019. The company initially announced that the truck would have a 500 miles (805 km) range on a full charge and with its new batteries it would be able to run for 400 miles (640 km) after an 80% charge in 30 minutes using a solar-powered "Tesla Megacharger" charging station.



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Special transport vehicles in Bern





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By the airport..



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26 Mar 2019 | 18:30 GMT

Air transport? First Passenger Electric Aircraft to Take Off Soon

magniX and Harbour Air team up to make the first all-electric commercial airplane fleet

By Prachi Patel

Harbour Air operates 30,000 flights over 12 routes in the Pacific Northwest each year, carrying 500,000 passengers on its small seaplanes. MagniX will begin by swapping the fuel tanks and Pratt & Whitney engines on the airline's six-passenger Havilland Beaver aircraft in exchange for its 560-kilowatt (750-horsepower) electric motor and lithium-ion batteries that provide enough energy to fly about 160 kilometers (100 miles) on a single charge. That, says Harbour, is enough range for the airline's short-hop flights. Flight tests will happen later this year.



In an important move towards all-electric aviation, startup magniX in Redmond, Washington plans to retrofit Canadian airline Harbour Air Seaplane's six-passenger Havilland Beaver aircraft with a battery-powered electric motor. The plan is to convert all the airline's airplanes in the coming years.

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International aviation?



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River, lake and maritime trasport?

Corvus Energy has been selected by Norwegian ferry operator Fjord 1 to supply lithium-ion energy storage systems for 5 new all electric ferries. The new ships are being built by Havyard shipbuilders and are expected to enter service in January of 2020. Fjord 1 already has 8 electric ferries operating on four routes. In all, Corvus Energy has supplied energy storage systems for 40 short range hybrid and electric vessels worldwide.



Corvus Energy battery systems provide power to hybrid and all electric heavy industrial equipment as well as ferries and other vessels. To date, it has supplied over 200 MWh of battery storage to industry. Its battery storage systems have successfully accumulated over 2 million operating hours.

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International shipping?



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Decarbonising tranport: is it possible?

Avoid, Shift, Improve strategy

- Avoid
 - Reduce unecessary trips (land-use, urban planning, teleconferences)
- Shift to less carbon intensive modes of transport
- Improve: technology mandate
 - Electric vehicles (car, scooters, buses, trains, vans) using electriciy from renweable souces
 - Hydrogen fueled vehicles (coaches, trucks, boats) using electriciy from renweable souces
 - International aviation and shipping?

Effective and efficient policies to decarbonise transport



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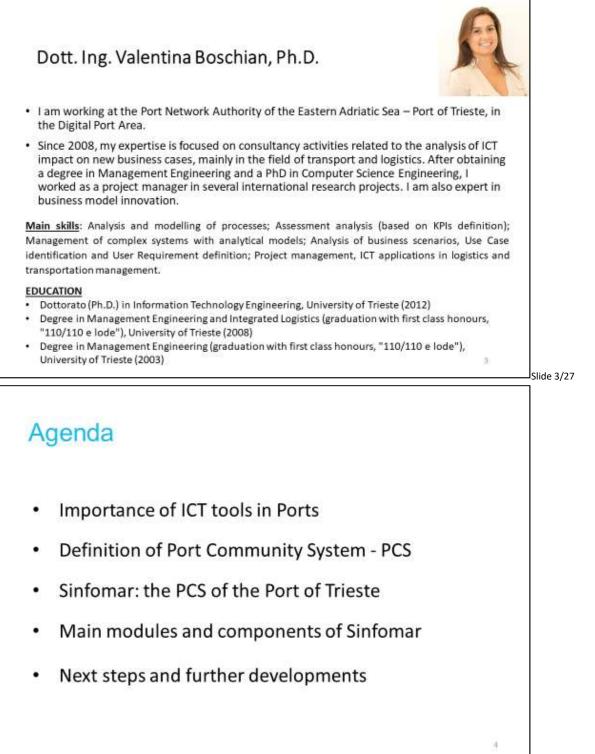
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4.1.5.3 ICT tool in use at the Port of Trieste: the Port Community System Sinfomar [Valentina Boschian]



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Agenda

- Importance of ICT tools in Ports
- Definition of Port Community System PCS
- Sinfomar: the PCS of the Port of Trieste
- Main modules and components of Sinfomar
- Next steps and further developments

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5

The Importance of ICT tools in Ports

- The European Commission defines the Port Authority as the entity which has as its objective under national law or regulation, the administration and management of the port infrastructures and the coordination and control of the activities of the different operators present in the port.
- However we can find different types of port authorities depending on their size, the kind of traffic they manage, their political, social and geographical environment, what is their main objective, the way they approach their functions and the role and strategies they adopt, their governance model, ...
- In Italy: law n.84/94 (D.lgs.169/2016) art.4 Port Classification

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The Importance of ICT tools in Ports

- Information and communications technology (ICT) tools have an important role in the governance and efficiency in the flow of goods at ports. A key element in the application of ICTs in ports is the interconnection of different actors of the supply chain that makes possible a better information flow.
- Recent developments in international trade and transport have led to an increased use of ICT in ports.
- ICT solutions are playing an increasing role in the design and implementation of trade and transport facilitation measures. These applications can reduce waiting times at border crossings and at ports, secure processing of data, simplify formalities, and provide timely information to transport operators.

Agenda Importance of ICT tools in Ports Definition of Port Community System - PCS Sinfomar: the PCS of the Port of Trieste Main modules and components of Sinfomar Next steps and further developments

What is a PCS?

- Its development starts in the '70s and' 80s in Germany, France and Great Britain.
- It is an electronic open platform connecting multiple ICT based networks/systems operated by different seaport organisations.
- Its main objective is the optimization and harmonization of all port logistic processes through a 'single window system' concept.

The system components are designed to enable a single data submission.

PCS definition

IPCSA International Part Constructions Systems The **Port Community System** (PCS) is a **neutral and open electronic platform** enabling intelligent and secure exchange of information between public and private stakeholders in order to improve the competitive position of the sea and air ports.

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J_{Slide} 10/27

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Agenda

- Importance of ICT tools in Ports
- Definition of Port Community System PCS
- Sinfomar: the PCS of the Port of Trieste
- Main modules and components of Sinfomar
- Next steps and further developments

Reasons for implementing the PCS Sinfomar

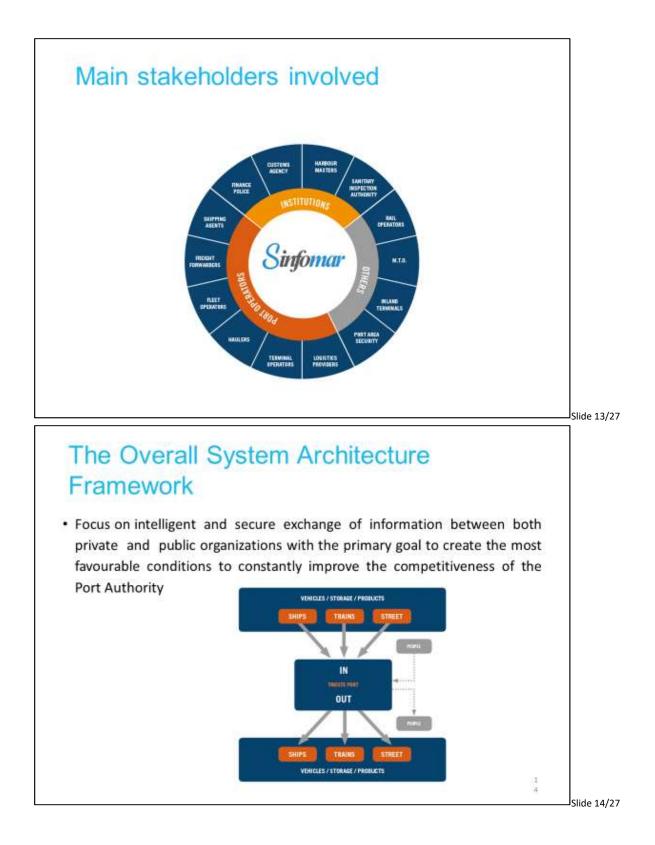
- As key nodes in international transport chains providing access to global markets, ports are more and more under constant competitive pressure to face the challenge of changes in the economic, institutional, regulatory and operational domains.
- EU and international port freight transport main protagonists recognize the deployment of web-based ICT solutions as key drivers to optimize the overall logistics processes providing operators, both from public and private sectors, with a reliable, effective and efficient real time information management system.

In 2014, within a co-financed EU TEN-T Programme project named ITS Adriatic Multiport Gateway, the Authority launched the implementation of a dedicated ICT platform reaching the definition of the PCS Sinfomar.

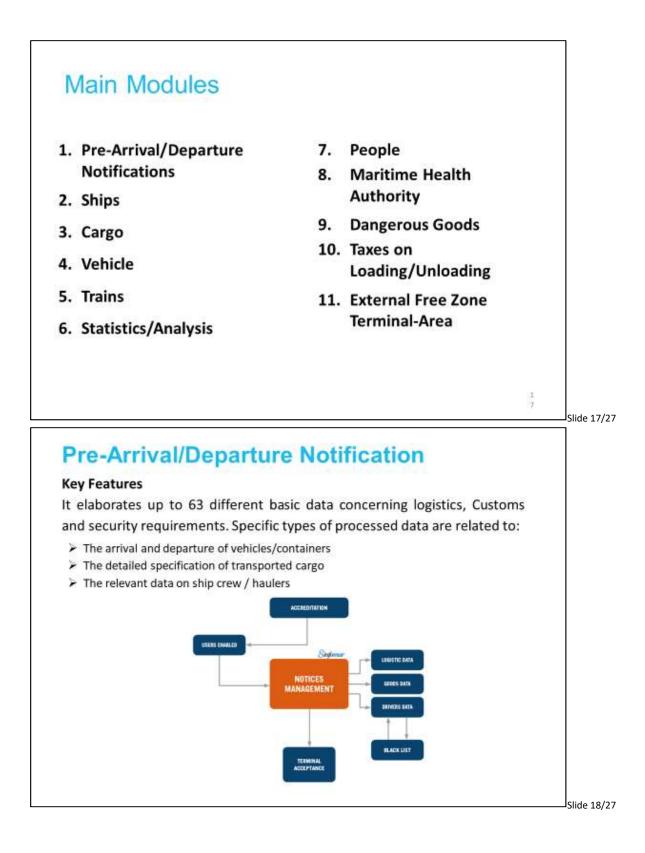
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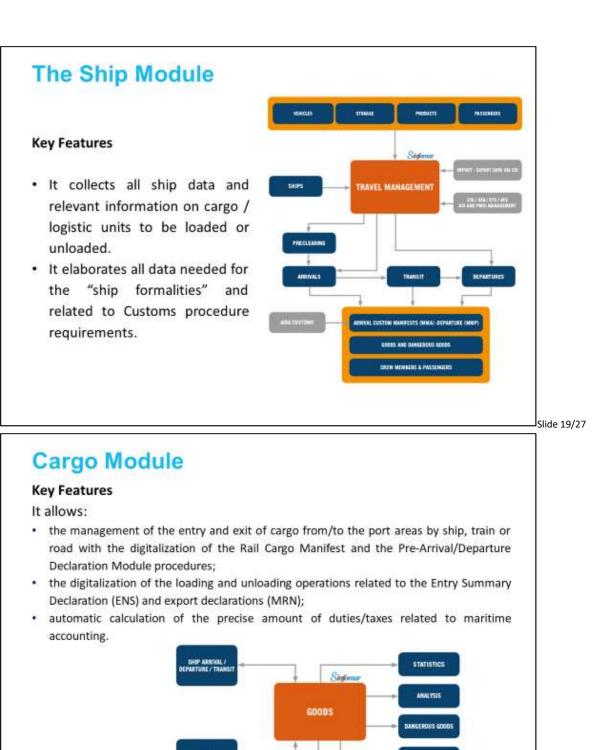
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MARITIME RIGHTS

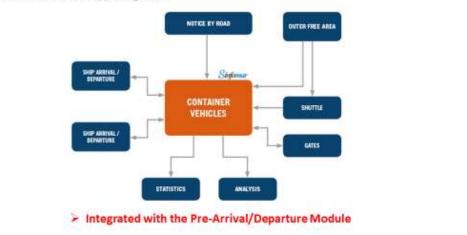
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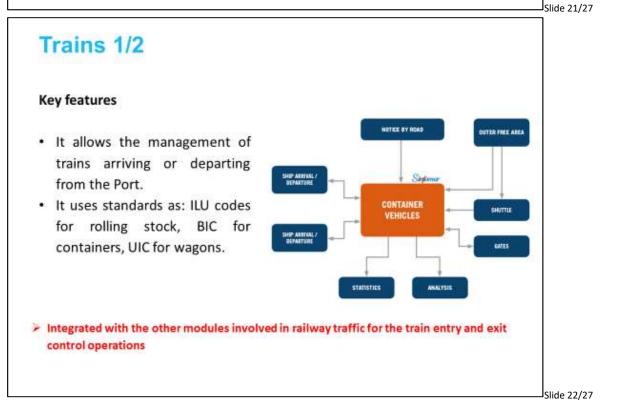
ANITARY INSPECTION

Vehicles

Key Features

- It allows the identification and tracking of the vehicle landed or embarked by ship or the train / vehicle that enters or leaves the port area.
- It also allows the tracking of any type of cargo/containers carried by a vehicle, including the identification of the type of goods.

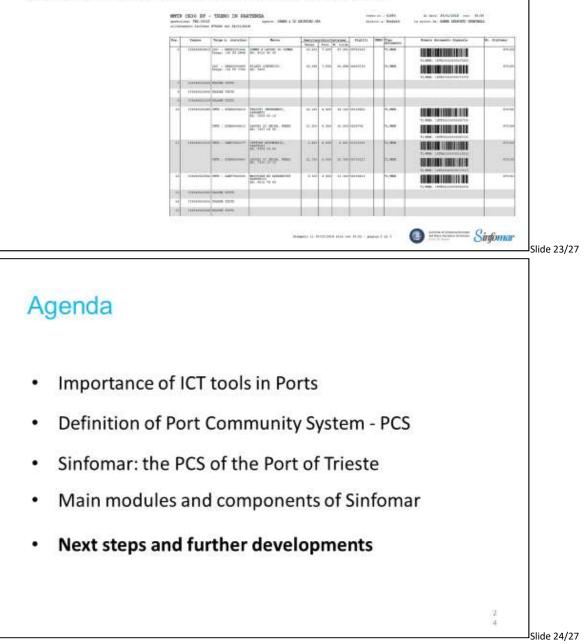


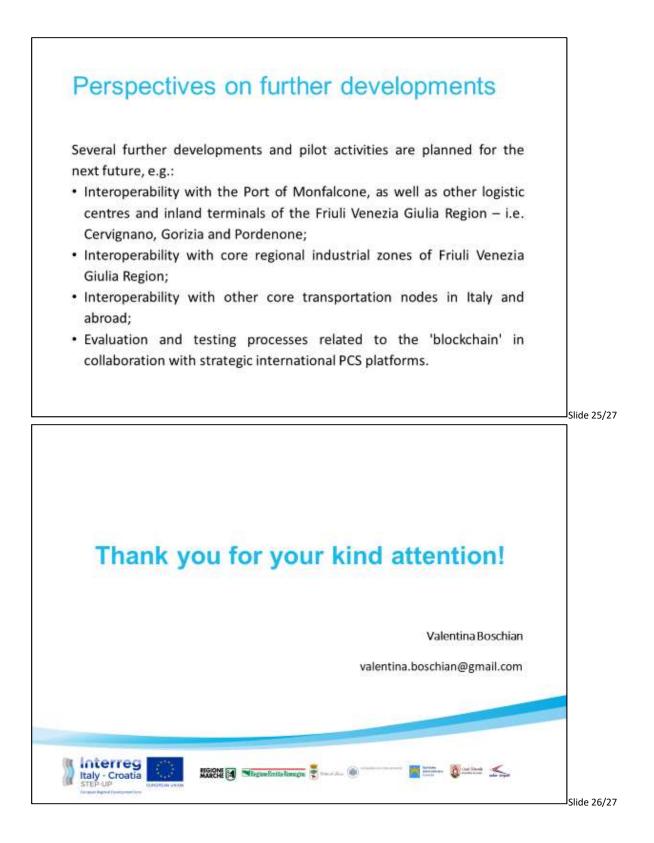


Trains 2/2

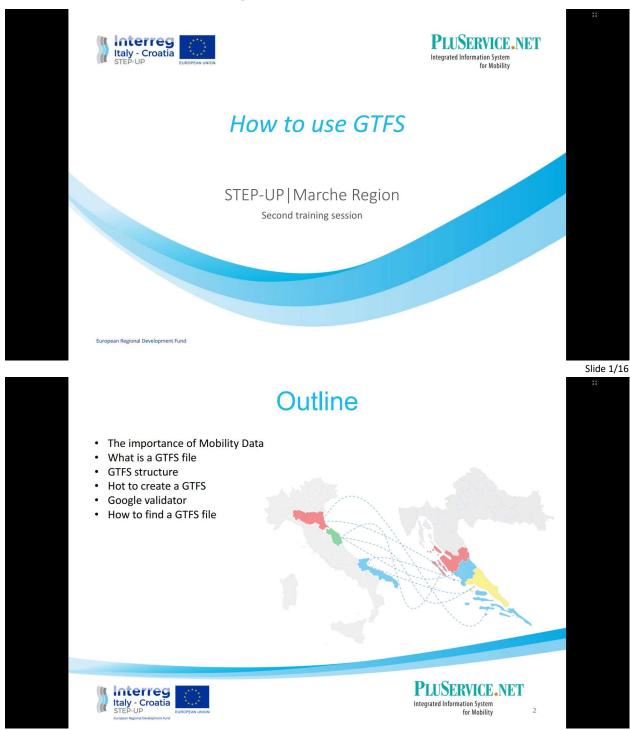
Key features

It allows to generate a CH30 document (the Customs Agency required list for the formal declaration for train entering / leaving the port) in a single format, agreed with the private operators and the Customs Agency.



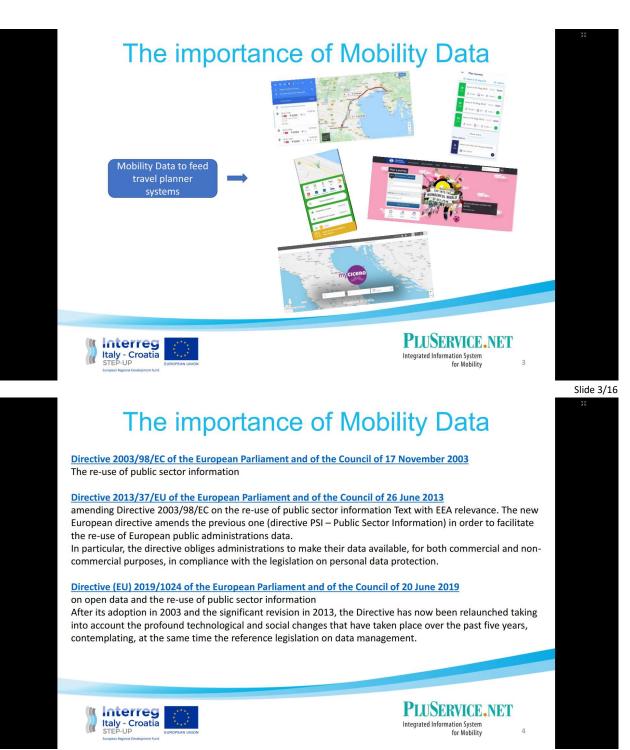






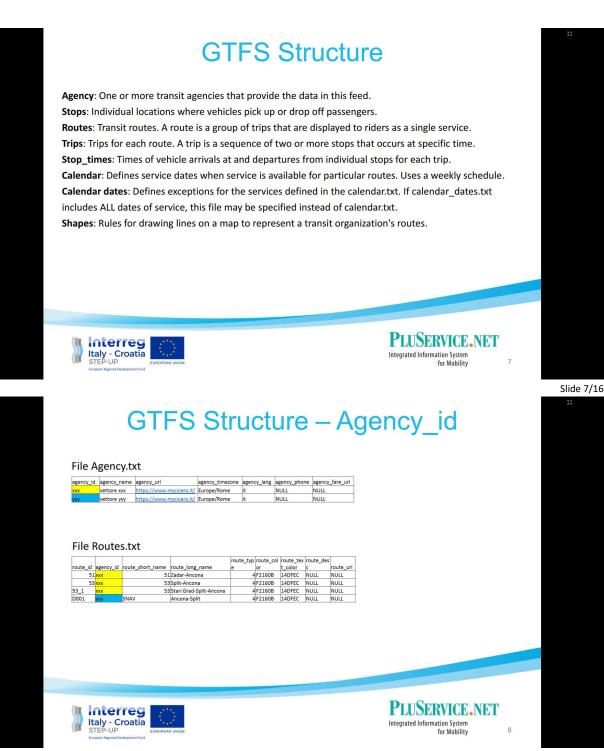
4.1.5.4 How to use GTFS [Giorgia Fanesi]

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GTFS Structure – Route_id

File Routes.txt

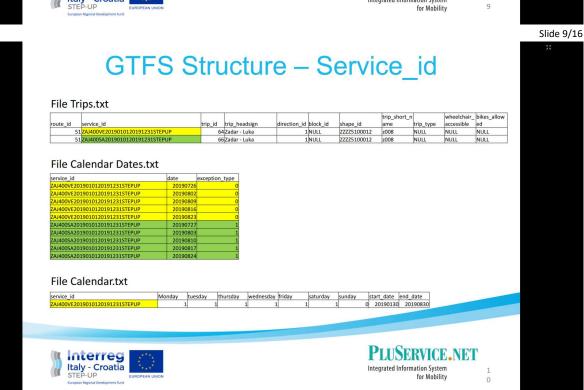
		route_short_nam		route_ty	route_co	route_te	route_de	route_ur
route_id	agency_id	e	route_long_name	pe	lor	xt_color	sc	1
51	ххх	51	Zadar-Ancona	4	F2160B	14DFEC	NULL	NULL
53	ххх	53	Split-Ancona	4	F2160B	14DFEC	NULL	NULL
53_1	xxx		Stari Grad-Split- Ancona	4	F2160B	14DFEC	NULL	NULL
D001	ууу	SNAV	Ancona-Split	4	F2160B	14DFEC	NULL	NULL

File Trips.txt

						trip_short_		wheelchair_	bikes_allow
route_id	service_id	trip_id	trip_headsign	direction_id block_id	shape_id	name	trip_type	accessible	ed
51	ZAJ400GI2019010120191231STEPUP	64	Zadar - Luka	1 NULL	ZZZZ5100012	z008	NULL	NULL	NULL
51	ZAJ400VE2019010120191231STEPUP	65	Zadar - Luka	1 NULL	ZZZZ5100012	z008	NULL	NULL	NULL
51	ZAJ400SA2019010120191231STEPUP	66	Zadar - Luka	1 NULL	ZZZZ5100012	z008	NULL	NULL	NULL
51	ZAJ400DO2019010120191231STEPUP	67	Zadar - Luka	1 NULL	ZZZZ5100012	z008	NULL	NULL	NULL
53	00SV00SV2019122620191226STEPUP	7	Split - Luka	1 NULL	ZZZZ5300012	7	NULL	NULL	NULL
53	000B00D02019010120191231STEPUP	8	Ancona - Porto	0 NULL	ZZZZ5300011	8	NULL	NULL	NULL
53_1	000C00LU2019010120191231STEPUP	19	Split - Luka	1 NULL	ZZ53_100022	19	NULL	NULL	NULL
53_1	000C00ME2019010120191231STEPUP	20	Split - Luka	1 NULL	ZZ53_100022	20	NULL	NULL	NULL
53_1	000C00SA2019010120191231STEPUP	21	Split - Luka	1 NULL	ZZ53_100022	21	NULL	NULL	NULL
53_1	000C00VE2019010120191231STEPUP	22	Stari Grad - Luka	1 NULL	ZZ53_100012	22	NULL	NULL	NULL
	SNAVLMEV2019010120191231STEPUP	31	Split - Luka	ONULL	ZZD00100011	1001	NULL	NULL	NULL
	SNARMAGD2019010120191231STEPUP	32	Ancona - Porto	1 NULL	ZZD00100012	1002	NULL	NULL	NULL
	SNA1MAGS2019010120191231STEPUP	33	Ancona - Porto	1 NULL	ZZD00100012	1003	NULL	NULL	NULL



PLUSERVICE NET Integrated Information System for Mobility



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GTFS Structure – Trip_id

File Trips.txt

				direction_i			trip_short_		wheelchair	bikes_allow
route_id	service_id	trip_id	trip_headsign	d	block_id	shape_id	name	trip_type	accessible	ed
51	ZAJ400VE2019010120191231STEPUP	64	Zadar - Luka	1	NULL	ZZZZ5100012	z008	NULL	NULL	NULL
51	ZAJ400SA2019010120191231STEPUP	66	Zadar - Luka	1	NULL	ZZZZ5100012	z008	NULL	NULL	NULL

File Stop_times.txt

													departure_t	
						stop_seque	stop_headsi		drop_off_ty	shape_dist_		arrival_time	ime_second	stop_headsi
trip_id	1	arrival_time	departure_t	time	stop_id	nce	gn	pickup_type	pe	traveled	timepoint	seconds	s	gns
	64	22.00.00		22.00.00	P_AN	1	Zadar - Luka	0	0	NULL	NULL	NULL	NULL	NULL
							Ancona -							
	64	31.00.00		31.00.00	L_ZA	2	Porto	0	0	NULL	NULL	NULL	NULL	NULL
	66	16.00.00		16.00.00	P_AN	1	Zadar - Luka	0	0	NULL	NULL	NULL	NULL	NULL
							Ancona -							
-	66	22.00.00		22.00.00	L_ZA	2	Porto	0	0	NULL	NULL	NULL	NULL	NULL

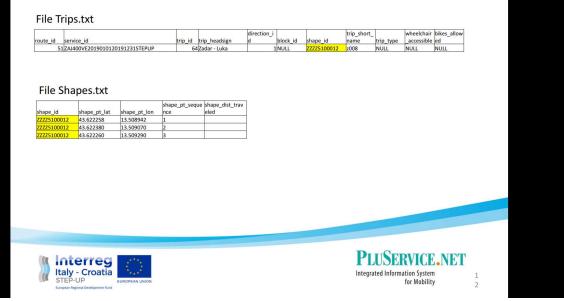


PLUSERVICE.NET Integrated Information System for Mobility

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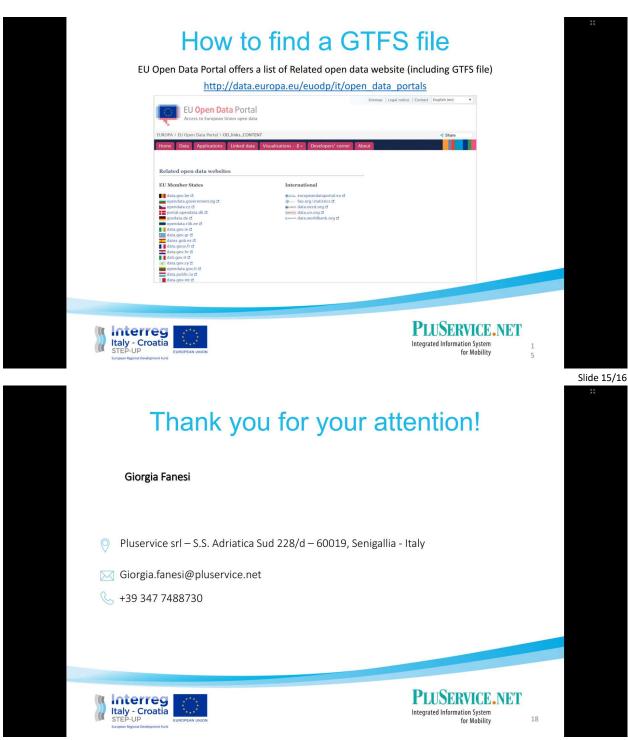




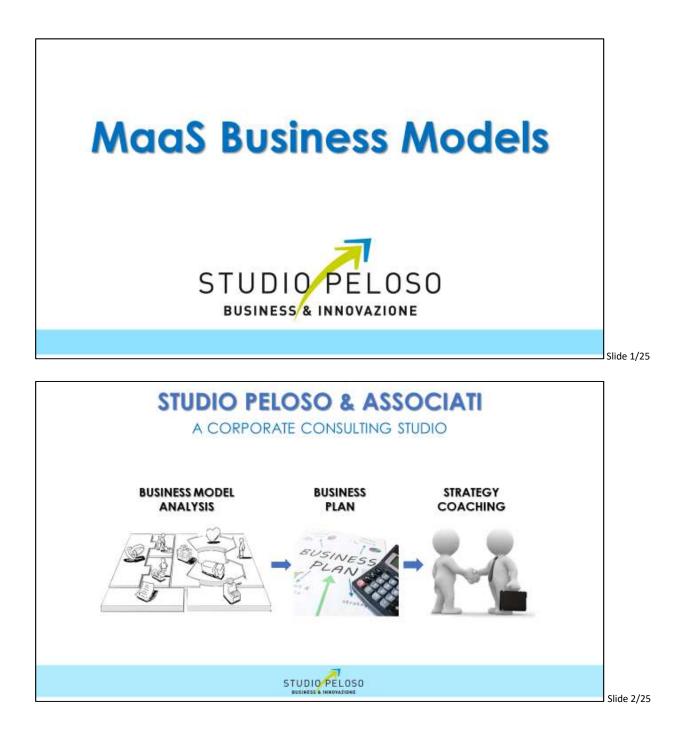
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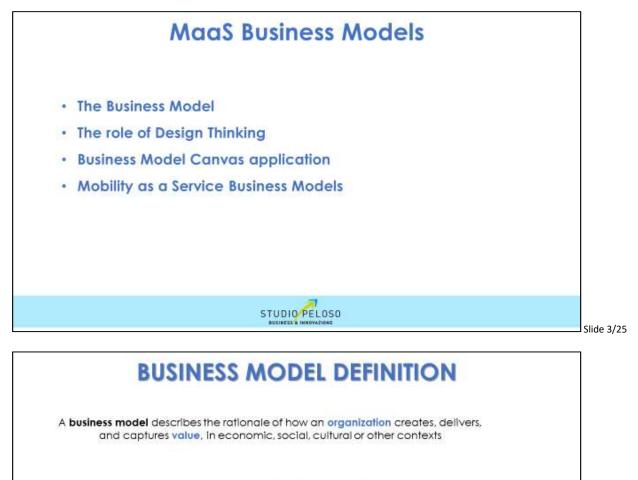


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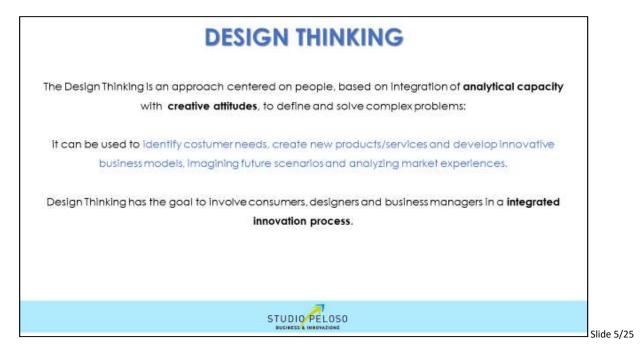


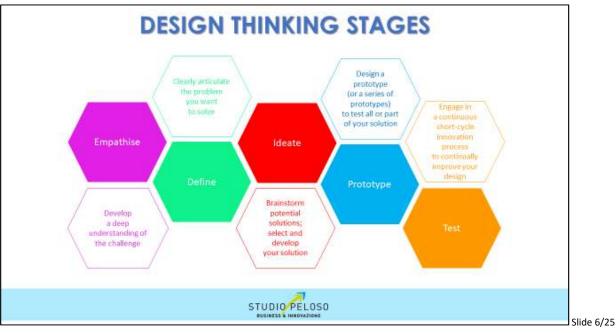
Organization is an entity comprising multiple people, such as a company, an institution or an association, that has a particular purpose.

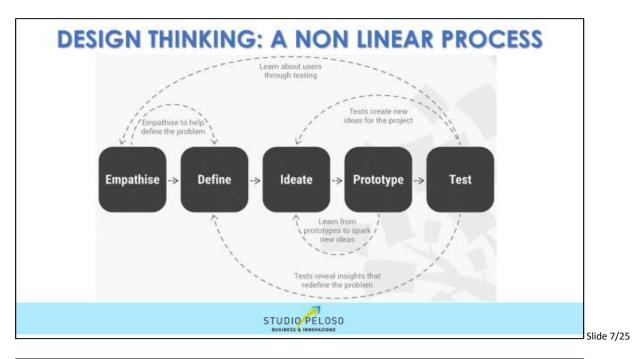
Value proposition is the set of products and services that create value for a specific customer segment, and more and more.....



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PARTNERS	ACTIVITIES	PROPOS		COSTUMER RELATIONSHIPS	COSTUMER		
This are our key partners? This are our key supplers? What key resources do we get from partners? That key activities do	What key activities are required for: produce the value offered to customers? • reach our markets (distribution)? • establish and manage customer relations? • generate revenue streams?	What customer contribute to so what needs are What set of pro services do Tott customer segmi How I stand our	slving and / or smet? ducts and ier to each ent?	What kind of relationship do you expect to establish with us each segment of customers? Which is more functional? How much does this type of relationship cost and how does integrate with the other elements of our BMF	For whom we are creating value? Who are our most importancestumers?		
kartnes do?	KEY RESOURCES What key resources are needed for: • produce the value offered to customens? • reach our markets (distribution)? • estabilith and manage customer retations? • generate revenue streams?	market, how i a and what is rea value/benefit t the customer?	m perceived	CHANNELS Trivough which channels do customers want to be reached? Haw are channels integrated with customerhabits? Which channels are more efficient? [performing / cheaper]? Haw is the service product distributed?			
What are the most imp What are the most exp What are the most exp		0	How do the How much	REVENUE STREAMS are customers really willing to pa y pay or how would they prefer t they have to pay and how there eneral (how much do they impac	o pay? venue stream contributes to		

BUSINESS MODEL CANVAS: COSTUMER SEGMENTS

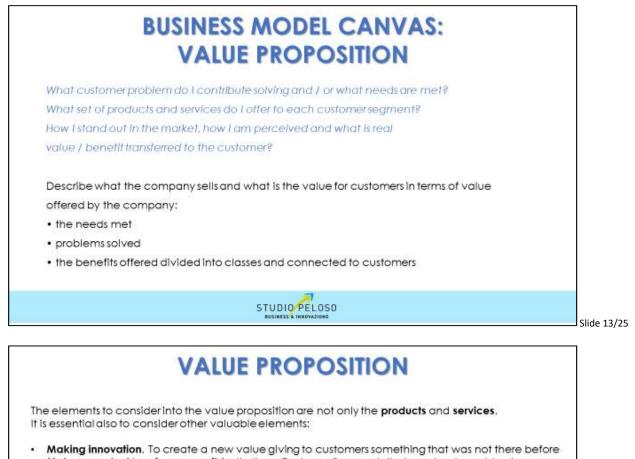
For whom we are creating value? Who are our most important costumer?

Divide and classify customers into distinct groups by:

- · needs / interests that require a separate offer
- how they are achieved (distribution channels)
- type of relationship established
- associated profitability
- willingness to pay for different aspects of the offer



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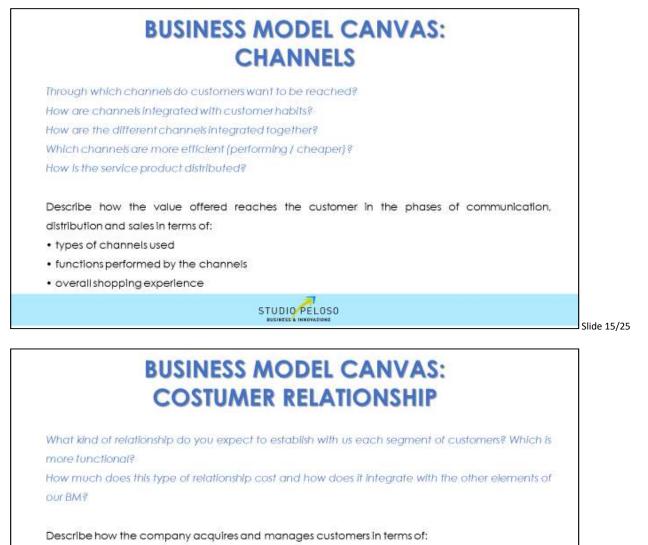


- Make a product/service accessible. It allows Customer Segments that previously could not use a
- product/service to access it (think, for example, of Ryanair's low-cost flights)
 Improve a product or service, by adding relevant features or modifying the current ones to make them more functional to a specific need.
- Decrease the price for a product/service. Solving a specific problem, starting from the study of the real and urgent needs of customers
- Use the brand/status to convey an identity and create a community
- Improve the design and the performance of a product
- Make the products more convenient and easier to use
- Reduce the risks related to a product/service

These methods allow the company to transfer not only the intrinsic value of the product/service but, above all, the intangible values that can be associated with it.



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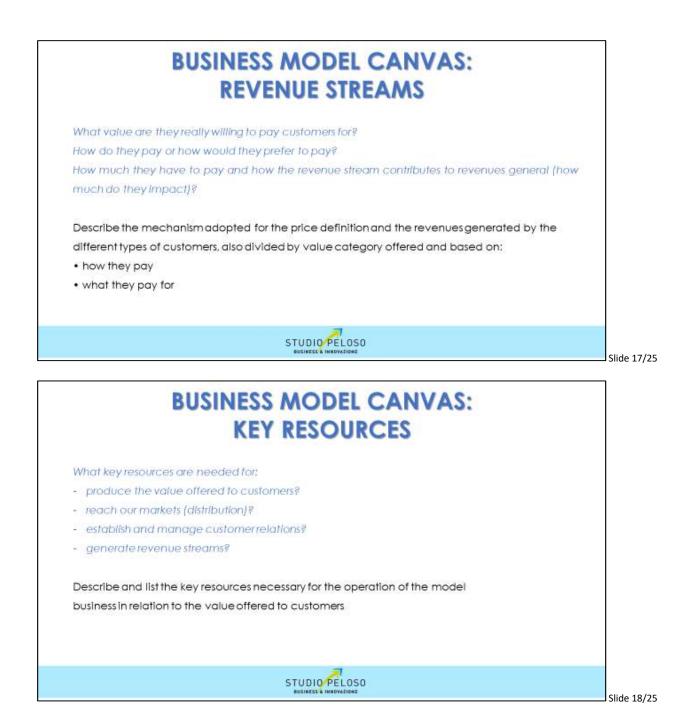
customer experience

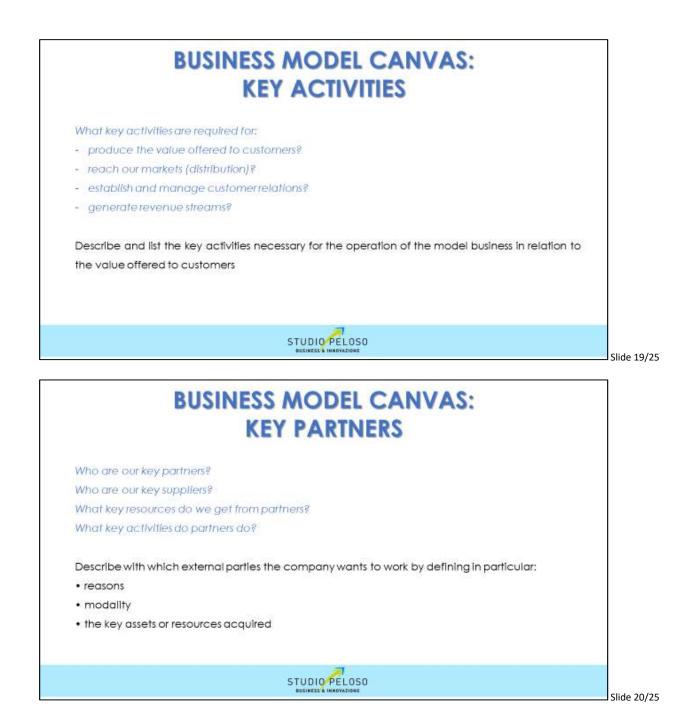
construction and delivery of the corporate image

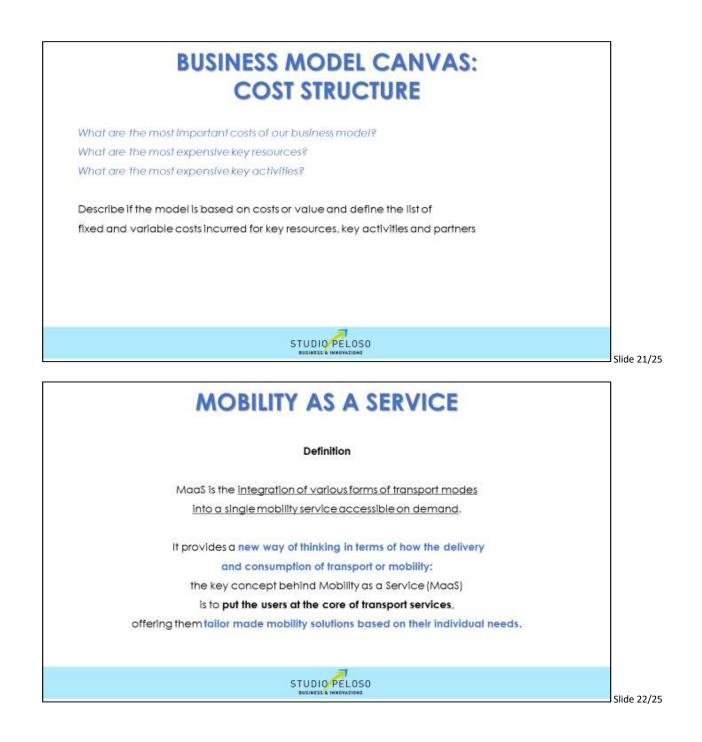
effectiveness

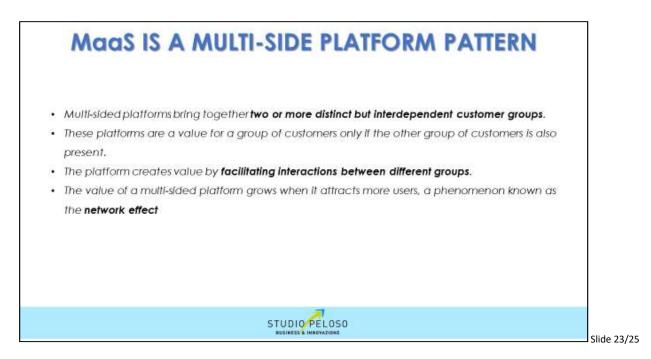


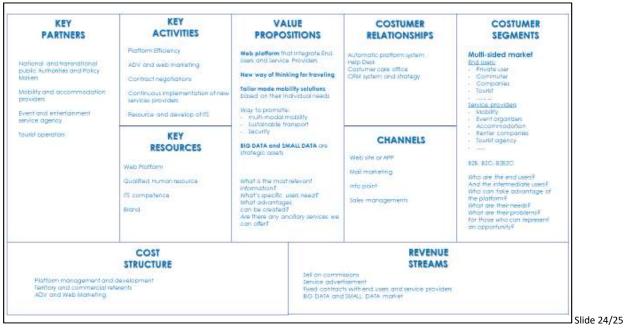
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4.2 II Training Session: 24 July 2019

The second Training Session was broadcast on-line via the Go To Meeting software, the main computer was the one of the organizer of the session (namely the University of Trieste) and was placed in Trieste. The guests had been invited by UNITS and by the project partners.

4.3 Agenda

Below the final agenda proposed:



STEP-UP Second Training Sessions NEW SCENARIES ON MULTIMODAL MOBILITY

INFOMOBILITY FOR SUSTAINABLE PASSENGERS' FLOW BETWEEN ITALY AND CROATIA

Webinar

10:30 - 11:00	The role of Mobility as a Service Daniela Vasari, Project manager, solution designer in ITS projects and International cooperation, Pluservice, Technical Assistance of Marche Region (STEP-UP project Lead Partner)
11:00 - 11:30	The economics of electric vehicles
	Romeo Danielis, Department of Economics, Business, Mathematics and Statistics, University of Trieste
11:30 - 12:00	ICT tool in use at the Port of Trieste: the Port Community System Sinfomar Valentina Boschian, Port Network Authority of the Eastern Adriatic Sea
12:30 - 13:00	How to use GTFS
	Giorgia Fanesi, Software analyst and project manager, Pluservice, Technical Assistance of Marche Region (STEP-UP project Lead Partner)
13:00 - 13:30	MaaS Business Models
	Andrea Molinaro, Consultant at Studio Peloso & Associati - expert in design thinking, business organization and subsidized finance

YouTube channel: **Project Step-Up** link to Web Page: <u>www.step-up.training</u> e-mail: <u>info@step-up.training</u> link to questionnaire: <u>https://step-up.training/questionnaire/</u>

4.4 Attendance I Training Session

Persone

ORGANIZZATORI DELLA RIUNIONE

🖉 UNITS 🖵

PARTECIPANTI ALLA RIUNIONE

∅ alberto

- Bartolomeo Silvestri (POL...
- ✓ Carlo Giansante (POLIBA)
- DANIELA VASARI
- ₰ Finproject
- 🖉 Giambattista Fiume
- 🖉 Giorgia Fanesi
- Natteo Castellucci
- Sergio Ruggieri[POLIBA]
- 🖉 Vanja

4.5 Dissemination

4.5.1 Publication on University of Trieste official website



Interreg EU "STEP-UP" Project

Mercoledì 24 luglio 2019 alle 10:30 (durata approssimativa: tre ore).

Programma:

- Valentina Boschian, Port Network Authority of the Eastern Adriatic Sea: "ICT tool in use at the Port of Trieste: the Port Community System Sinfomar";
- Daniela Vasari, Pluservice, Technical Assistance of Marche Region (STEP-UP project Lead Partner): "The role of Mobility as a Service";
- Romeo Danielis, Department of Economics, Business, Mathematics and Statistics, University of Trieste (STEP-UP Project Partner): "The economics of electric vehicles";
- Giorgia Fanesi, Pluservice, Technical Assistance of Marche Region (STEP-UP project Lead Partner): "How to use GTFS";
- Andrea Molinaro, Studio Peloso & Associati: "MaaS Business Models".

Per tutti coloro che desiderano seguire la conferenza ed intervenire con domande è possibile partecipare attraverso il seguente link:

https://global.gotomeeting.com/join/159804069

STEP-UP II Training Session, Wed, Jul 24, 2019 10:30 AM - 1:30 PM CEST

Access Code: 159-804-069

You can also dial in using your phone.

United States: +1 (669) 224-3412

New to GoToMeeting? Get the app now and be ready when your first meeting starts:

https://global.gotomeeting.com/install/159804069

4.6 II Training Session: Questionnaire

For the second training session a questionnaire previously designed has been shared through a link. The questionnaire was published on STEP-UP Web Page. The results obtained from the first training session questionnaire gave a useful feedback in regards of the organization of the next sessions.

Follows the list of questions proposed to the audience of the second Training Session. For each question the audience was asked to express a preference according to the given assessment grid.

We take the opportunity to illustrate how the answers given with the online questionnaire are displayed. We illustrate this on the occasion of the second training session as it is the only one of the three for which the distribution of the paper questionnaires has not been foreseen.

Before proceeding with the images related to the graphics of the answers, we report the complete list of questions and the relative evaluation grid proposed.

			Qu	estic	onna	ire l	ll Tr	ainir	ng Se	essio	on																										
			1					2					3					4					5					6					7				
			expe	ert				STER	P-UP	PP			expe	ert				STER	P-UP P	рр			expe	ert				expe	ert				STEF	P-UP	pp		_
ТОРІС			Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	
	1.1				x						x					x					х					x					x					x	
	1.2					x					x				x						x					x				х						x	
	1.3				x					x						x					x				х						x					x	
SPEECHES													-																								
	2.1					x					x					x					х					x						х				x	
	2.2						x				x						x					x				x						x				x	
	2.3						x				x					x					х					x						x				x	
	2.4					x					x					x					x				x							x				x	L
CONFERENCE																																					
	3.1																																				
		3.1.1	_			x				x						x					x					x					x				x		
		3.1.2				x				x						x					x				x						x				x		
		3.1.3	_			x				x			_			x					x					X					x					x	
		3.1.4				x				x						x					x					X					x				x		
		3.1.5	_			x					X									x					x							x			x		
		3.1.6				x					X		_								x				x						x					x	
		3.1.7	x							x											x			x							X				x		
		3.1.8																																			
	3.2		-			x				x						x					x					x					x					x	
	3.3		-		x						x				x			-			x				x						x					x	
	3.4		-				x				x		-			x					x					x						x				x	
	3.5				x						x					x					х					x						x				х	

Very much	Much	Neutral	Not quite	Not at all	Assessment grid		
							1 TOPICS
					The topics were relevant to me	1.1	
					I was familiar with the proposed topics	1.2	
					The topics offered a good overview on issues related to Passengers' flow	1.3	
							2 SPEECHES
					The material used for the presentations was coherent and clear	2.1	
					I would find it useful to have the presentations material available for future consultation The presentations were coherent with the title and the	2.2	
					topic	2.3	
					The presentations met my expectations	2.4	
							3 CONFERENCE
					The conference contributed to deepen my knowledge on the topics:	3.1	
					Multimodality	3.1.1	
					European projects on mobility	3.1.2	
					New scenaries on mobility (Maas, Electro-mobility)	3.1.3	
					Info-mobility	3.1.4	
					Sustainable Tourism	3.1.5	
					ICT Tools for Tourism	3.1.6	
					E-Planning Platforms	3.1.7	
					Other	3.1.8	
					I think these topics should be more disseminated	3.2	
					After the conference my knowledge on the covered topics has improved	3.3	
					I am involved in these topics (e.g. in daily life/at work)	3.4	
					The conference has been well organised	3.5	

5. Realization of the III Training Session (Report)

5.1 Preparation activities for the realization of the III Training Session

5.1.1 III Training Session: Identification of the Audience

To **identify audience** and **organize** the training session the most adequately, a preliminary analysis was performed. The Second Training Session, as reported, was dedicated mainly to people who already owned some knowledge on the given topics (partners, external experts, professionals and other stakeholders). To counterbalance the specific character of the Second Training Session and to maximize the spreading, the utility and most of all the engagement of the citizenship, UNITS deemed it useful to design the Third session as a Public Event.



Despite the dissemination character of the session and the attention to an audience which was not necessarily already familiar with the proposed topics, stakeholders were invited to participate in order to fulfil the goal to create and/or consolidate a network among the **project partners**, between the **local authorities**, all the interested parties and the citizenship. Description of the specific targets for the Third Training Session:

vii. Project Partners

Each partner has expertise on specific topics, thanks to their institutional field of action, the support of their Technical Assistance and the know-how gained through previous projects.

We asked the partnership to communicate some areas of expertise they own and we involved a representative as speaker at the Training Session.

We also requested the areas where they wanted to improve their knowledge. They mostly were interested in all the topics we suggested.

viii. Stakeholders

We invited some stakeholders to the training sessions and involved some of them as speakers (e.g. Port Authority of Trieste). Obviously, the stakeholders are active in the transportation or mobility field, so they already own some know-how. Although their knowledge might be positively task driven, they may lack some ground basis or some more technically specific knowledge. Addressing to stakeholders is therefore particularly tricky, since there must be a balance between concrete facts and accuracy. Topics must be captivating and useful for their daily work.

ix. Students

Students best represent the future professionals in the field of transport. The job offer environment is changing seamlessly and especially the field of transport and mobility. It is of crucial importance that students who are about to choose their career are aware of trends that are happening and will lead to future changes, so that they will be more informed and prepared professionals in the future.

x. Citizenship

Citizenship is called to respond to various responsibilities including participating in political processes and undertaking economic, social and cultural roles according to accepted norms, laws and regulations. Inform citizenship is important also in the themes of the project in fact the development of the main objective of STEP-UP will have repercussion in the way of thinking mobility both in the exceptional cases in which the citizen becomes a tourist but also in the everyday life in which the citizen moves within his city or the neighboring places for the care of himself or for work. Multimodality request an evolved way of thinking and citizenship are the firs kind of audience directly involved in the concrete change that the development of multimodality will bring.

In particular, we involved:

• Target Group 8: Education and training organizations as well as universities and research institutes

A university is partner in the project and will provide training sessions, also broadcasted as live streaming, that will be attended by both project partners and all stakeholders interested on multimodal topics. Following those sessions, any other education or training organizations as well as other universities or research institutes, could replace similar initiatives, obviously with a previous agreement with the first university concerning the use of training materials.

• Target Group 1: General public

The end users are necessary to guarantee the reliability of the project after the end and they are the main target group who will give important feedback in terms of User Interface, User experience, reliability and ease to use the pilot tools. Main categories of general public identified as the most interested to the project outputs will consist of working people and tourists, but also all others citizens could obtain benefit from STEP-UP implementation.

• Target Group 2: Local, regional and national public authorities

Local, regional and national authorities, within IT-HR Programme Area, have to be considered fundamental because they represent the most important figures able both to increase the awareness about ecofriendly transportation and sustainable tourism among different subjects (potential suppliers and potential service providers) and to promote their effective realization, through the definition of useful policy initiatives and operational activities. They are amply represented in the partnership.

• Target Group 3: Regional development agencies.

Regional development agencies, as operative branches of Regional authorities, are in charge of implementing theoretical regional policies, into actual actions. For example, Regions and local authorities draws up specific Regional/Urban Mobility Plans and foresees detailed guidelines which include the increase of multimodal transport, but the risk that those indications could remain not applied is tangible if regional agencies do not take care of those guidelines.

• Target Group 5: Transport associations

Target group Transport Associations Description: Transport associations can have a primary role promoting and incentivizing the diffusion of multimodal transport systems among their participants, but often, that associations do not know enough about multimodal themes and their benefits. So, they will be addressed in particular during WP5 implementation. They will be encouraged to participate in training activities in order to improve knowledge and data analysis on multimodal transport sector.

5.1.2 III Training Session: Modality of the session

As already exposed in Chapter 2.1, about the identification of the target Audience, the III Training Session was designed as a public event.

When choosing this modality, one decisive factor was the consideration that it would be better to reach different audience targets through the tree sessions because this would better convey the knowledge to very different targets with a different level of awareness. Moreover, it would have been better for dissemination purposes.

In particular, we turned to the citizens of Trieste. The implementation method can be defined as mixed.

An important role is played by the choice of location. The event was structured inside Antico Caffé San Marco, a historic cafe in the very centre of Trieste, which has recently become a literary café. Passage utilities in this location are of different nature. The usual guests of the chosen venue are families, students, workers, passersby, tourists, people with different levels of education of different professions and ages, making it the perfect venue for encountering a significant variety of citizens.

A room was set up to accommodate different types of communication and knowledge sharing channels.

The room was set up with a large desk specially designed for the speakers, with pc, microphones and a large projection screen. A series of seats have been disposed to allow the view of the screen.

Two PC stations were also set up with 2 computers each and headphones. At these stations the audience could look out to hear the recordings of the presentations of all three training sessions.

Another location was reserved for a further questionnaire "Sustainable Tourism? You can have your say", to gather the opinions of the audience on the perception of the citizenship of mass tourism. This part was particularly important given the stress of the whole session on **Participatory Planning**. This way the Training Session would be educational not only in one way – from the lecturer to the audience -, but we would also listen to the opinions, perception and suggestions of the citizenship and gather information that will be useful in the future of the project and within future projects.

UNITS group members have remained available throughout the event to answer to all curiosities about STEP-UP and INTERREG projects.

The main language was Italian, since the expected audience was of normal citizens, but the presentations were in English with some of them with italian subtitles and we disposed a simultaneous translation for the foreigners and the Croatian Partners who came to the event.

III Training Session: Identification of the Teachers and Experts

For the Third Training Session, the research for the speakers concentrated on selecting relators who could complete the educational path started with the First Training Session, continued with the technical deepening of the Second session.

For the third and last Training Session the speakers were chosen with the criteria of giving additional notes on the topics already started in the previous training sessions and add a future perspective on the next possible steps, therefore contributing to the sustainability, transferability and durability of the project. These speakers recorded their presentations which will be, as the previous sessions, uploaded to the Project's official YouTube channel and the link will be uploaded on the Training Sessions' webpage (www.step-up.training). For this session, in addition to the post production editing, the videos have been subtitled and made available to the public at the Third Training Session public event.

In addition to the speakers for the recorded of the presentations, we have been selecting the association FIAB, Federazione Italiana Ambiente e Bicicletta as partner in the public event of the Third Training Session. FIAB association, whose members are experts in mobility and strong territorial awareness, has been invited to participate and collaborate in the realization of the event since the citizenship has shown interest on the theme of bicycles within the city, as a green and sustainable vehicle to be considered in the frame of multimodality.

For each seminarian invited to intervene as an expert, the curriculum information of each speaker and the contents of the proposed topic are indicated below. A brief description of his actual professional role is indicated (if they are Project Partner also is specified) and brief biography summarizes the professional position and the training path of each speaker.

A brief introduction follows to each selected speaker with a short biography highlighted in gray:

To share an expert point view on tourism and mobility in general, on the role of mobility management in rural tourism and to introduce existing approaches and solutions was invited the lecture Petra Grgasović.

Petra Grgasović

Director of Erkon Ltd, an independent expert in fields of urban mobility and integrated urban development, also active as an ad-hoc URBACT expert

Petra Grgasovic is a director of Erkon Ltd and an independent expert in fields of urban mobility and integrated urban development, also active as an ad-hoc URBACT expert. During the last decade she has been working both in public and private sector, mostly on project evaluation, development and implementation, strategic planning and policy analysis. Petra is currently a PhD student in field of Geography, already holding a Master's degree in Architecture and Urban Planning and a specialisation in Eco – engineering.

t was decided to invite the expert **Vanja Lipovac** to present an introduction to participatory governance model and to introduce how to approaches and develop participatory governance in practice.

Vanja Lipovac

Consultant for EU Projects, Zadar Airport (STEP-UP project Partner) Vanja Lipovac has master degree in cultural sociology (2015). Shortly after, he started an internship in Zadar County department for EU projects and development, where he participated on preparation and implementation of several national and international EU projects. After finishing a year of internship he started working as a project manager for "Foster children rights" project, financed from European social funds. After the project ended, he started working as a consultant for EU project for Driope. He is mostly focused on projects regarding urban mobility, intermodality, info-mobility and sustainable development.

To introduce the theme of Sustainable Urban Mobility Planning we invited **Luca Lucietti** as renowned expert in mobility, transport and Participatory Planning.

Luca Lucietti

Civil engineer expert in mobility and transport currently in service at Roma Capitale

Luca Lucietti - Graduated in Civil Engineering (Transport) in 2001 at the University of Rome La Sapienza. He worked from March 2002 up to June 2019 in FIT Consulting srl, an Italian independent SME, where he held the role of Project Manager several projects. FIT built up remarkable national and international experience in research & innovation, demonstration and supporting action projects in mobility of people and goods. He carried out feasibility studies in the urban logistics sector for the cities of Padua, Ferrara, Parma, Frosinone and Prato. He provided technical support for the SUMP elaboration for the cities of Piacenza, Parma, Trieste and Verona, with specific focus on the reorganization of the urban goods distribution. He has lectured and trained on logistics issues in the Link University of Rome's master of sustainable mobility and logistics. He works in the Municipality of Rome (Roma Capitale) since July 1st 2019.

To enhance how ICT tools can enable and assist the transition to smart and sustainable mobility the lecturer Alessandro Rinaldi was invited to present the ICT tools and services developed within the European project H2020 ELVITEN.

Alessandro Rinaldi

Research fellow and research doctor at the Department of Electrical and Information Engineering (DEI) of the Polytechnic of Bari.

Experience and expertise in the specific disciplinary area of IICAR 10 with particular regard to the issues of energy efficiency and sustainability of buildings, also demonstrated through active participation in national and international conferences, as well as constant scientific production with contributions to international journals.Ph.D. in Information Technology Engineering, University of Trieste (2012)

Bartolomeo Silvestri, was invited to show how new mobility technologies and concepts can improve the citizen life in the urban area.

Bartolomeo Silvestri

PhD student and research fellow in the Polytechnic University of Bari, Italy

Bartolomeo Silvestri is a third-year PhD student and research fellow in the Polytechnic University of Bari, Italy. His doctoral research investigates sustainable transport in smart cities, both for the mobility of people and for the last mile logistics. He is focusing on EVs, ELVs and new mobility concepts such as Mobility as a Service, sharing system and innovative approach to engage users. He analyzes also the transport externalities, especially in urban area and energy consumption with the use of EVs as storage in a smart city. He co-authored of several scientific papers in international conference and journal. He holds a master's degree in Management Engineering with specialization in environmental management of companies, from Polytechnic University of Bari, Italy, with a thesis on the optimization of the plants configuration for recovery and treatment of solid urban waste in metropolitan Bari area. He holds a degree in Management Engineering from Polytechnic University of Bari, Italy, with a thesis on the optimization.

To stimulate the active participation of the the citizenship in a public and transparent process, which starts from a careful analysis of reality, urban fabrics, the use of space, densities and services, two representatives of the FIAB association were invited to intervene at the public event, the president **Luca Mastropasqua** and the former public authority and today active member of the association **Jacopo Rothenaisler**. They gave an interesting insight on new perspectives, advantages and governance policy obstacles concerning cycling in a urban environment.

5.1.3 III Training Session: Presented Topics

The topics for the Third Training Session were chosen thanks to the contribution of the partners and without the need for solicitations. In fact, they have put forward some excellent proposals that are inherent and consistent with what was done previously. Other topics were chosen by UNITS as a response to participation in events related to multimodality and urban planning attended during the last year. The natural collaboration of the Project Partners was particularly important to confirm the **effectiveness of the Training Sessions**.

The Third Training Session concentrated on two main Topics related to Sustainable Tourism: Planning (especially Participatory) and E-Vehicles.

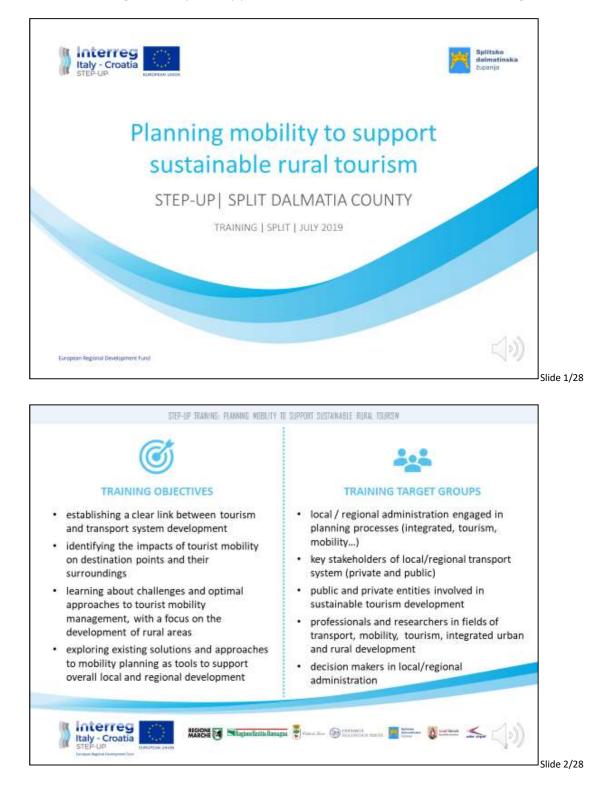
The participatory aspect is becoming more and more fundamental within the strategic mobility planning. It is no longer possible to avoid including citizens, their needs and wishes in the decisional act of designing the future of urban mobility in a sustainable way.

The presentations underlined how mobility planning can bring benefits to e.g. sustainable rural tourism (Petra Grgasović), included the aspect of governance in the Participatory planning model (Vanja Lipovac) and the contribution of SUMPs (Sustainable Urban Mobility Plans) to Sustainability (Luca Lucietti).

The presentations on e-mobility included the aspects of the use of ICT tools (Alessandro Rinaldi) and the system of incentives to foster the Sharing System and the Reallocation of electric vehicles (EVs) (Bartolomeo Silvestri).

The final topics were chosen in collaboration with the lecturers invited to participate in the first training session. Below is the summary of the final presentations' titles, followed by the presentations offered during the conference.

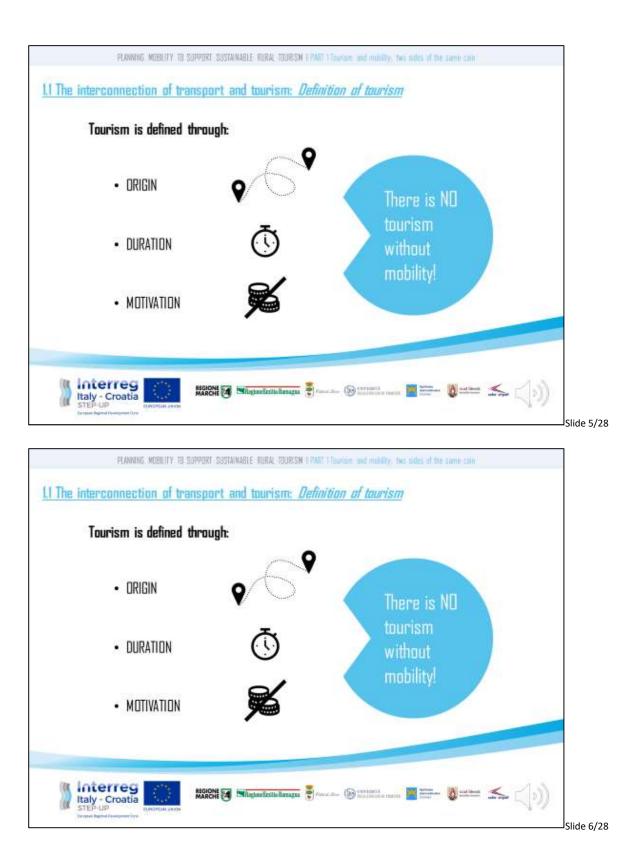
- 1. Planning mobility to support sustainable rural tourism
- 2. Participatory governance as a model for urban mobility planning
- 3. Sustainable transport and SUMPs
- 4. ICT tools for a more efficient and sustainable e-mobility model
- 5. Electric Vehicles (EVs), Sharing System, Reallocation and Balancing of sharing EVs within a city through an incentive system



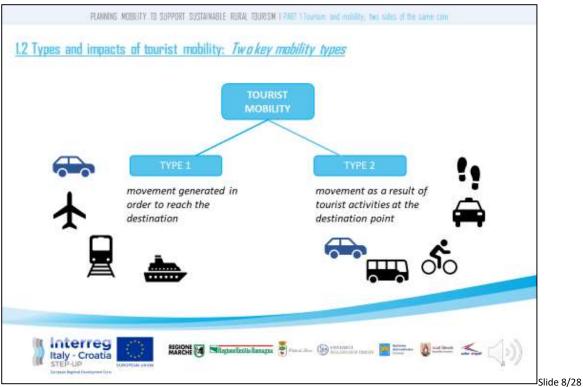
5.1.3.1 Planning mobility to support sustainable rural tourism [Petra Grgasović]

PART 1	Tourism and mobility: two sides of the same coin
1.1	The interconnection of transport and tourism
1.2	Types and impacts of touristic mobility
1.3	Challenges of tourist mobility management
1.4	Integrated planning as a key starting point
PART 2	The role of mobility management in rural tourism
2.1	Urban vs. rural tourism: challenges and opportunities
2.2	Characteristics of rural areas impacting mobility / tourism
2.3	Tourist mobility management as a tool for rural regeneration
PARTE	Existing approaches and solutions
3.1	Intermodality
3.2	E-mobility
3.3	The role of ICT in supporting rural touristic mobility
3.4	Best practice examples and initiatives
-	













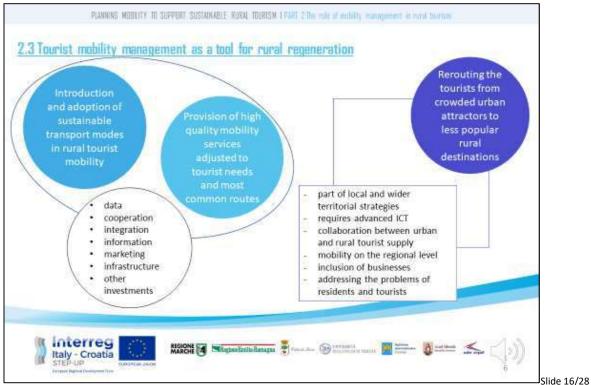




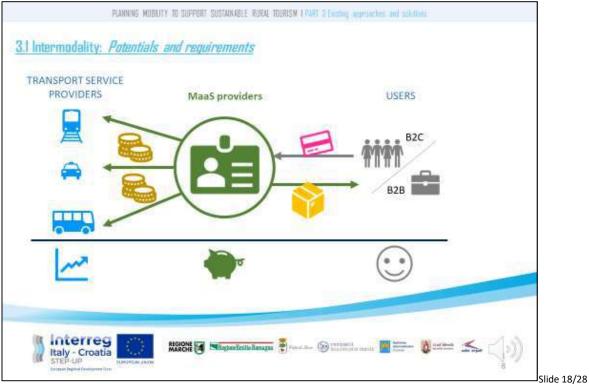


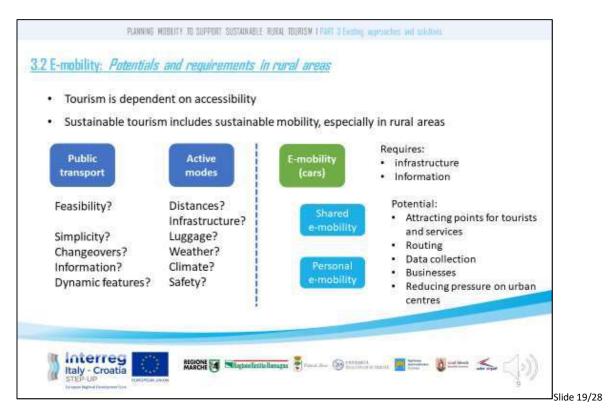


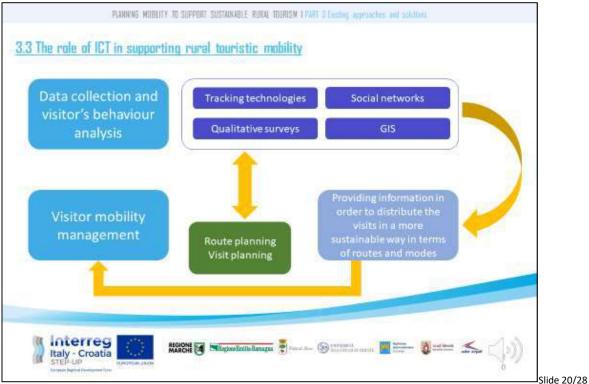




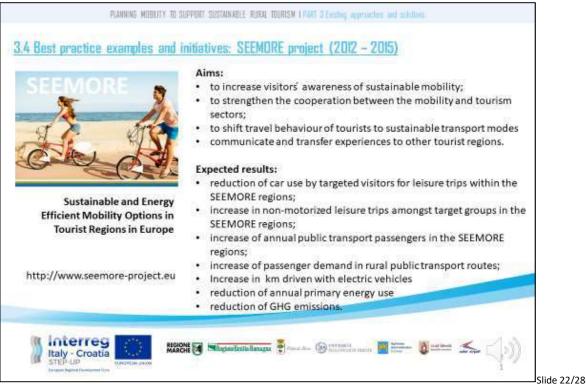


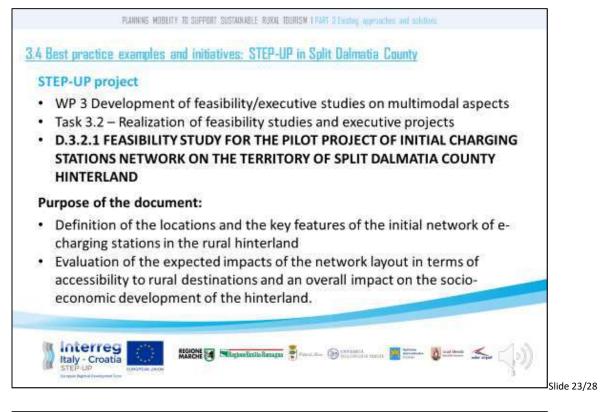


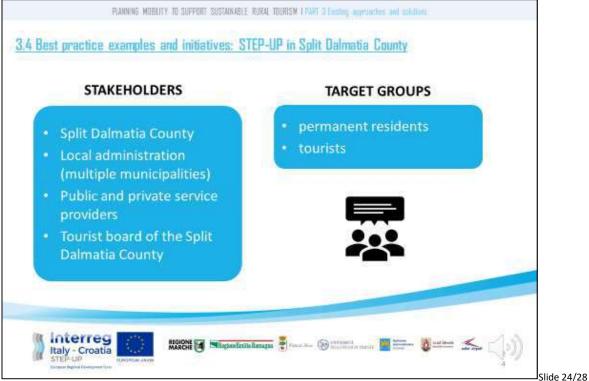














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	n and Community. Leadership in Rural Regions: Linking Mobility, Entrepreneurship, Tourism Development and Community & Development, 12(3), 354–370.doi:10.1080/21568316.2014.890129	
	a R (2019) Linking Sustainable Tourism and Electric Mobility – Moveletur. In: Machado J., Soares F., Veiga G. (eds) Innovation, rship. HELIX 2018. Lecture Notes in Electrical Engineering, vol 505. Springer, Cham, https://doi.org/10.1007/978-3-319-	
norile P., Larosa V., Spiru A ps://doi.org/10.1108/WH	., "Mobility as a service: a new model for sustainable mobility in tourism", Worldwide Hespitality and Jaurism Themes, ATT-12-2017-0083	
gimoto, K., Ota, K., & Suzu stainability, 11(3), 919. do	ks, 5. (2019). Visitor Mobility and Spatial Structure. In a Local Urban Tourism Destination: GPS Tracking and Network analysis. :10.3390/su11030919	



STEP-UP TRAINING: PLANNING MERELITY TO SUPPORT SUSTAINABLE RURAL TOURISM Contacts Splitsko dalmatinska županija ERKON Split Dalmatia County ERKONLED Contact person: Mr Martin Budan Contact person: Mrs Petra Grgasović 💡 Split, Croatia Zagreb, Croatia 🖂 martin.bucan@dalmacija.hr 🖂 petra.grgsovic@erkon.hr +385 21 400 156 +385 95 79 22 676 💮 www.dalmacija.hr www.erkon.hr Interreg Italy - Croatia IXXXII 👩 Steperioditation 🗧 ----- 🛞 IIIIIII ----- 🦉 🔤 ------ 🖏 ------- 🚺 ------Slide 28/28 5.1.3.2 Participatory governance as a model for urban mobility planning [Vanja Lipovac]





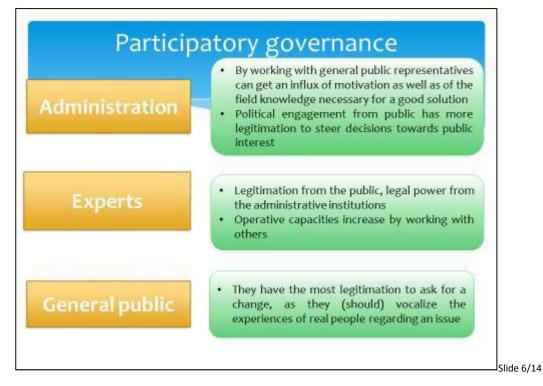


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- Participatory governance can mitigate the weaknesses of each stakeholder category by focusing on what they do the best
- Top to bottom approach focuses more on how to solve a problem the best, by engaging general public
- Bottom to top approach focuses more on establishing a ground network that can influence the administration
 - http://participatory.governance-in-culture.net/uploads/biljeske_EN_web.pdf

Slide 7/14

Participatory governance – approaches to engage the general public

- 1. Noticing a problem and detecting public opinion on it.
- 2. Stakeholder mapping
- 3. Discussions among stakeholders and further data collecting
- 4. Mutual course of action
- 5. Symbolic agreement for cooperation

A lot more ideas can be found here: https://www.civicus.org/index.php/es/centro-de-medios/recursos/manuales/611participatory-governance-toolkit

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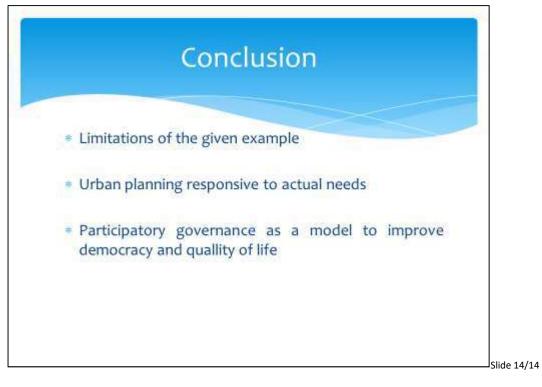


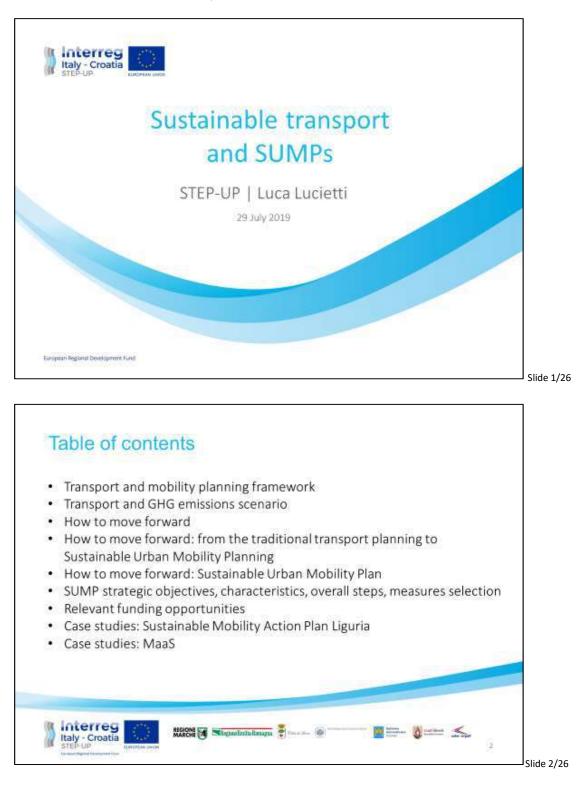
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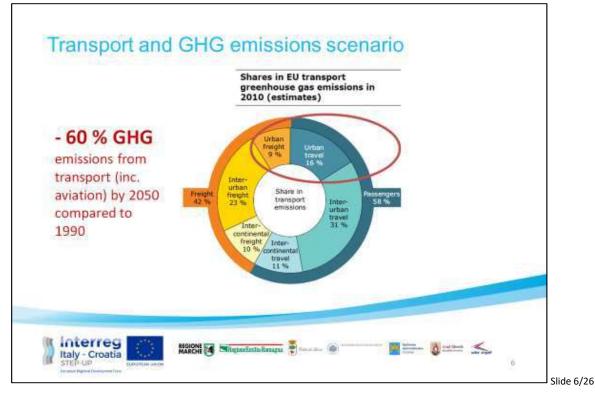


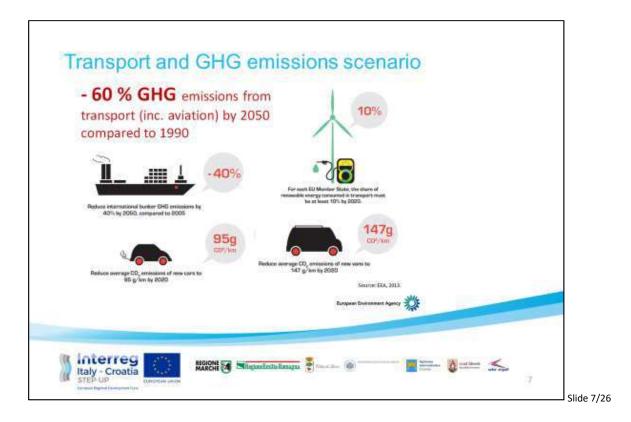
5.1.3.3 Sustainable transport and SUMPs [Luca Lucietti]



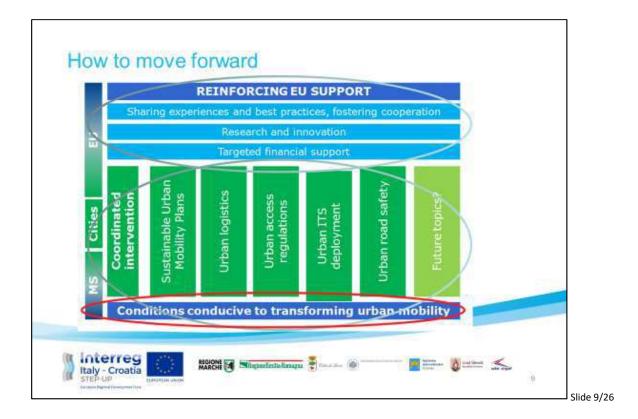














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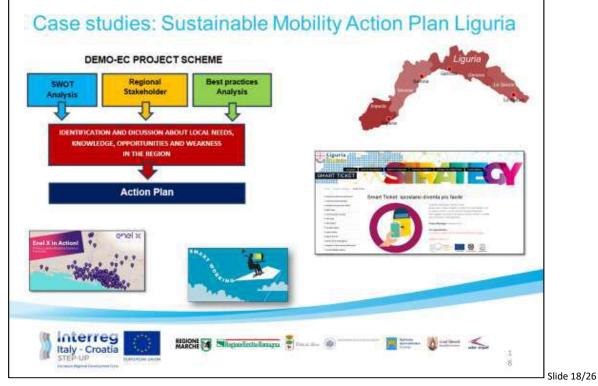
















Case studies: Sustainable Mobility Action Plan Liguria

E-mobility		DEMO-EC		
Incentives for E-mobility		C. Printer		
OBJECTIVE: Create a sustainable development condition in urban areas with economic incent Car tax exemption for electric and hybrid of for hybrid cars in the north of Italy	ives for citizens			
Free parking pass for electric vehicles in Bl goods vehicles access in LTZ (Limited Traffic		and urban		
> Scrapping incentive in Genova for electric	scooter and bike (Decer	nber 2017)		
a filia e second sidere	L			
> Free parking pass for electric vehicles in mi	unicipality area of La Sp	ezia		
 Electric cars {8 cars, 16 charging/parking sta available for employees of Municipality of 1 		es (25 bikes)		
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e MaaS Techr	ology Platform	[IMOVE]	- 11210	
VOVE	be City of Tur ccessed - for through a ner Route pla wildation transport collection on users, choices m Monthly of Monthly of	nin is testing the technology platfor free for the entire duration of the oblic app: nnee, booking and payment (and) for the following means of .local public transport, bite sharing g, taxi; of anorymous and aggregated da regarding use of the app, mobility ade, kilometres travelled; corporate billing for costs for work ulty-job of employees, during the	τ ι φ.	
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5.1.3.4 ICT tools for a more efficient and sustainable e-mobility model [Alessandro Rinaldi]



Introduction

Interreg Italy - Croatia (et

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- The evolution of mobility in a sustainable perspective requires specific attention to issues closely related to the changing needs of cities and public policies.
- · This change is also imposed by United Nation Agenda 2030 focusing on the several sustainable development goals linked to improve the quality of life in urban area.
- · Studies show that, in European Countries, the most frequent trip is made by car and it is characterized by:
 - 1. transport systems not efficient;
 - II, negative effects such as urban traffic congestion, parking shortages;
 - III. air pollution and noise pollution.



Introduction



- The transition to alternative mobility meets the objectives of decarbonisation, decentralization and digitalisation.
- In addition to the reduction of CO2 emissions and a clear improvement in air quality, a transport revolution based on more sustainable patterns and mobility habits and low environmental impact technologies has important repercussions not only in the environmental but also in the social sphere.
- In the field of mobility, a new transport mode is emerging, more based on access to services rather than on the use of a vehicle owned by the company.
- In this context, the Sustainable Mobility can allow the reduction of the negative effects inside the city area and to create a real smart city.

SM	ART CITY DEFINITION (EU)	
ENVIRONMENT	Reduction of CO2 emissions. Use of renewable energy sources, moniforing on energy consumptions	
LIVING	Co-working, Cultural initiatives, Living-Lah, crowthourcing co-design	
Мовалту	Development of technologies to improve arban mobility, low encoronnental impact	
Governance	Starting of processes for the involvment of citizens about topics of public rilevance	
ECONOMY	Cooperation among public and private actors, developmento of social incubators and of small and medium enterprises	
Propia	Sharing of data, security and protection of sources, astroorking and commication	

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ICT in Electro-mobility



- Modern ICT solutions allow significant improvement in the mobility sector, especially for electro-mobility and sharing systems.
- The ICT tools allow to incentivize and facilitate the use of Electric Vehicles (EV) by providing services such as booking and brokering, charging station, parking spots, as well as payments and vehicle monitoring.

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The ELVITEN project

Slide 6/25

ELVITEN at a glance



Electrified L-category Vehicles Integrated into Transport and Electricity Networks (ELVITEN)



Call identifier: H2020-GV-2017

Topic: GV-10-2017 "Demonstration (pilots) for integration of electrified Lcategory vehicles in the urban transport system"

EC funding: 7.840.648.75€

Duration: November 2017-October 2020

Demonstrations in **Six** European Cities

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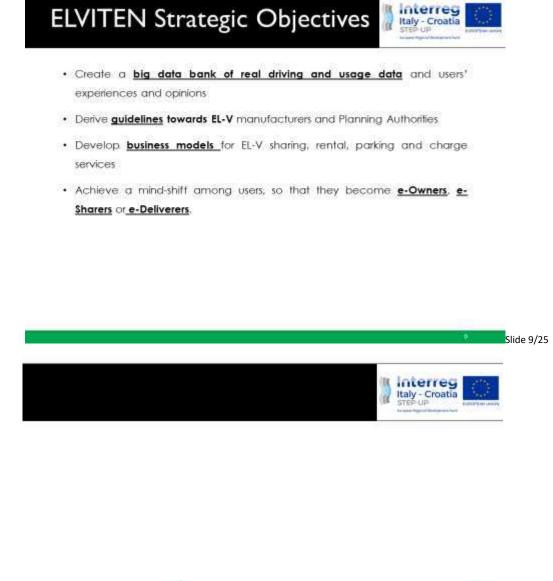
- Develop replicable usage schemes of EL-Vs for owners, sharers and light goods deliverers based on the deployment of :
 - EL-Vs innovative parking and charge services (including echarging hubs, integration of public and private charge points in Brokering service, interoperable eRoaming platform)
 - EL-Vs sharing and rental services
 - Support ICT tools to facilitate the usage of EL-Vs (Brokering service to book and pay. Management system for the echarging hubs) and <u>support ICT tools to motivate</u> the usage (Reet Monitoring application with Digital Coach app, Serious Game app. Incentives Management Smart Card).
 - Appropriate policies and incentives
- Organise <u>long-term demonstrations</u> of the ELVITEN usage schemes in 6 Cities





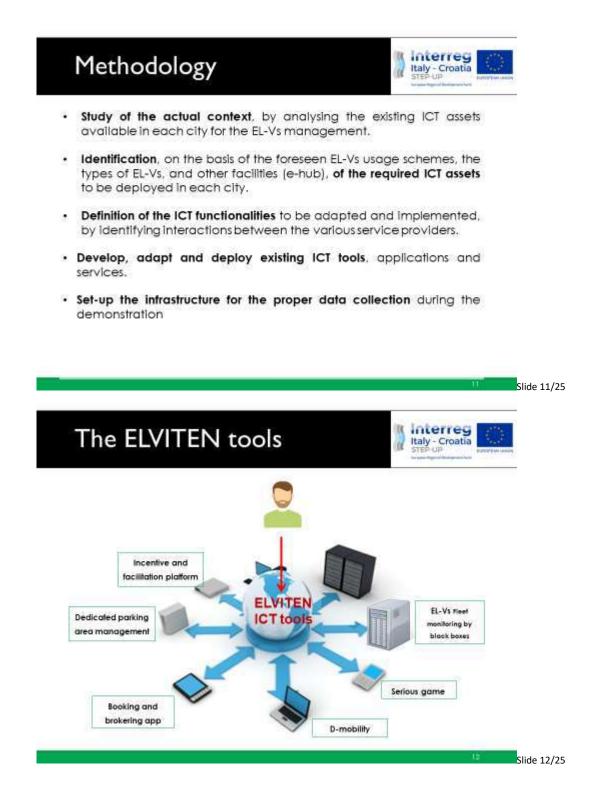


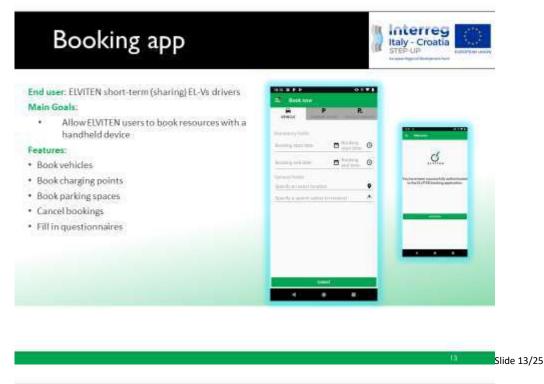
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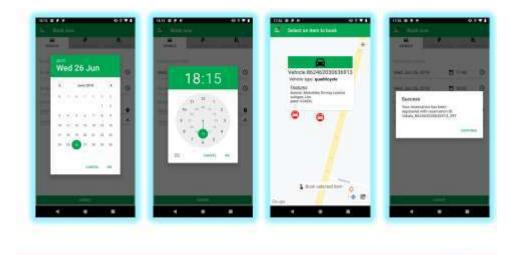
The ICT tools

Slide 10/25

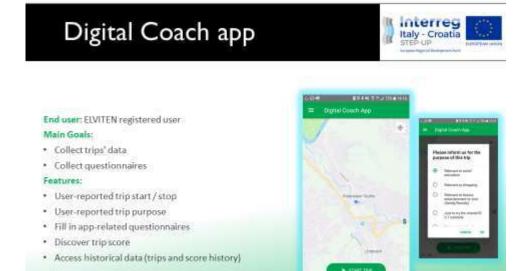








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Slide 15/25



Slide 16/25

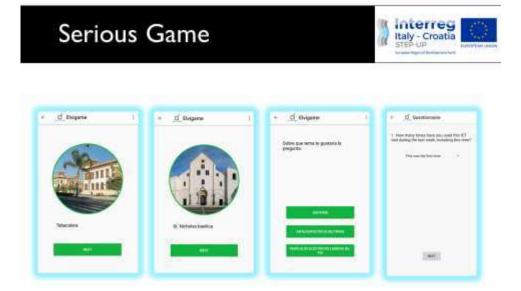
Fleet Monitoring tool





Slide 17/25 Serious Game Interreg Italy - Croatia N. a C throate End user: ELVITEN registered user Main Goals: Engage users into the project via gaming Collect questionnaires Features: Show data regarding the City and Electric Light Vehicles Ask questions to gain points Ś Collect points to reach achievements · Reach point of Interest in the city to discover the city · Fill in app-related questionnaires

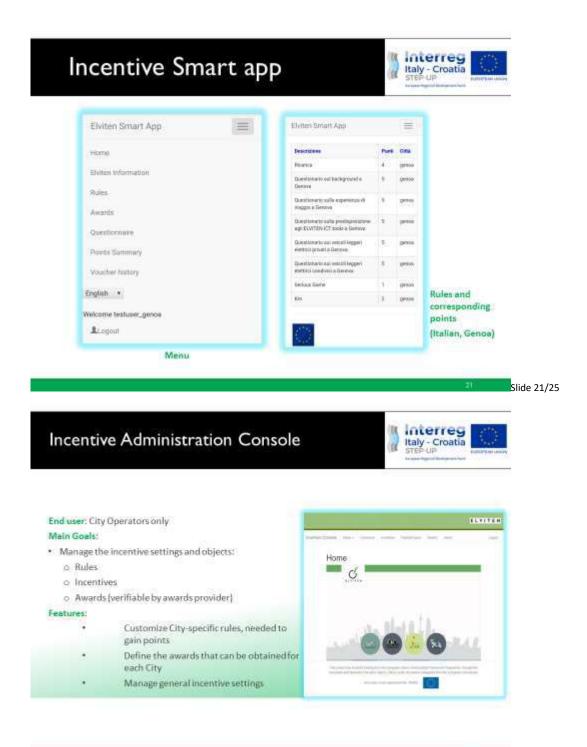
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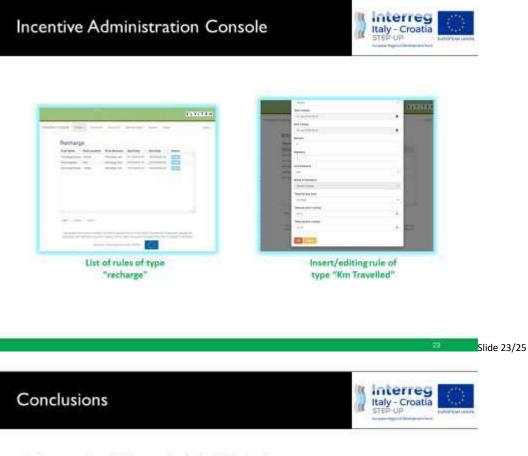
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Slide 20/25



Slide 22/25



In the smart mobility context, the ICT solutions:

- · allow significant improvement in the mobility sector;
- incentivize and facilitate the use of Electric Vehicles (EV) by providing different services;
- ensure high flexibility in order to sustain a good and motivating experience for EL-Vs users.
- allow the transiction to the smart mobility by improving the urban traffic and mobility on the basis of sustainability, innovation and safe transport.



Eng. Alessandro RINALDI, PhD

Polytechnic University of Bari





5.1.3.5 Electric Vehicles (EVs), Sharing System, Reallocation and Balancing of sharing EVs within a city through an incentive system



Slide 1/35

Mobility issues









Slide 2/35

Transport Externalities

- Air pollution
- Climate change
- Congestion
- Noise pollution
- Accidents
- Infrastructure wear and tear
- Land use
- Oil dependence

Slide 3/35

Transport Externalities in Urban Areas

Different approaches to negative impacts proposed in some EU projects:

- Environment (air and noise), Energy (consumption) and Economy (transport efficiency, safety, land use and urban planning)
- Travel time, employment, road safety and environmental pollution
- Economic, environmental and social
- Environmental and quality life (air pollution, noise, traffic and road deaths)

Slide 4/35

Transport Externalities in Urban Areas

Mobility produce positive impacts and negative impacts (externalities).

These negative impacts are mainly related to:

- Number of km travelled
- Number of people
- Emission factors of i-th transport mean given transport speed (vehicle technology and driving behaviour influenced primarily the factor)

- Average speed

Slide 5/35

Innovations

New Technologies

- EVs
- ICT systems and tools
- Smartphones

New mobility concept especially in urban area

- Mobility as a Service (MaaS)
- Sharing systems

Innovative mobility strategies

- Incentive system
- Gamification

Slide 6/35

Electric Vehicles (EVs) in urban area



Slide 7/35

Electric Vehicles (EVs) in urban area

	On the road	Mainly widespread vehicles. There are different types and sizes.
EVs	Water	Not very common as they can be used in the cities with waterways.
	Air	In the experimental phase, especially small and unmanned aerial vehicle (UAV)

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Electric Vehicles (EVs) in urban area

	BEV	Battery Electric Vehicle (electricity only)
	HEV	Hybrid Electric Vehicle (electricity, petrol/diesel)
EVs	PHEV	Plug-in Hybrid Electric Vehicles (electricity, petrol/diesel)
	E-REV	Extended Range Electric Vehicles (electricity, petrol/diesel)
	FCEV	Fuel Cell Electric Vehicles (electricity, hydrogen)

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EVs on the road in urban area

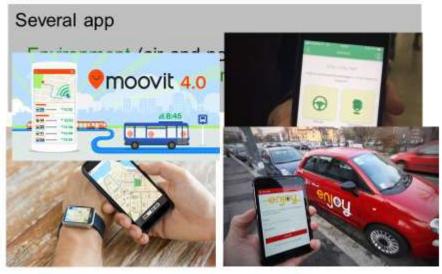
	Pedalec	Cycle with pedal assistance equipped with an auxiliary electric < 250 W, cut off when cyclist stops pedalling and/or vehicle speed reaches 25 km/h
	E-scooter, segway and hoverboard	New urban means of transport for passenger transport. Fast, agile, light and easy to carry.
	E-car	Different technologies developed for EVs for passenger transport
	E-Van	EVs for utility purposes
EVs		Lie Lie A (powered cycle) and Lie B (two-whee) model)
		De De-2 (three wheel moped for passanger transport) and De-0 (three wheel moped for units, purposes
		LSe: LSe-A1 (los-perform), LSe-A2 (medium-perform), LSe-A3 (high-perform, motorcycle), LSe-A42 (anduro motorcycle) and LSe-A47 (trial motorcycle)
	ELVs	(Ae: two-wheel inotorcycle with side car
	(L1e – L7e)	LSe: LSe: A (tricycle) and LSe: B (commercial tricycle)
		4.6e: L6e-A Illight on coadquests, L6e-BP (Tight questi-mobile for passenger transport and L6e-BU (Tight quedi-mobile for util "systemposes)
		ETer LTe-A1 (A1 heavy pr-road quad), LTeA2 (A2 heavy pr-road quad), IZe-B1 (all herrain quad), LTe-B2 (ade-by aide bugg), LTe-C7 (heavy quadri-robbile for passarger transport and LTe-CU (heavy quadri-mobile for utility purposes)

Slide 10/35



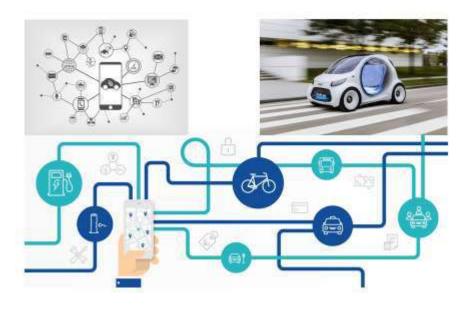
Slide 11/35

Smartphones



Slide 12/35

MaaS – Mobility as a Service



Slide 13/35

Sharing System



Slide 14/35

Incentive system



Slide 15/35

Gamification

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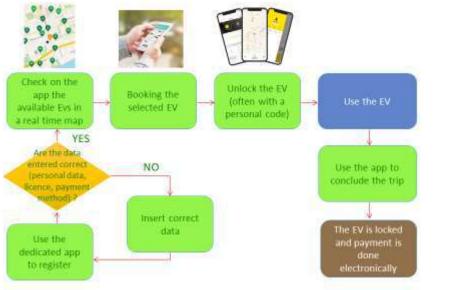
Sharing System with EVs





Slide 17/35

Sharing System with EVs



Slide 18/35

Issues of Sharing System with EVs

- Ensure the EVs availability in different city areas
- EVs charging activities
- Reallocation activities
- Stations location and permitted area of use
- Charging points location
- Charging time (EVs availability)

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Reallocation activities in a sharing system with EVs

Reallocation activities

- Move EVs from one station/area to an other in order to ensure the availability in all the urban areas. It is important for an high level of service for users which alternatively they would not use it more.
- Charging the EVs in order to guarantee the minimum EV autonomy to reach the destination
- The sharing company ensures this service with its staff. This service is an operative cost.
- The reallocation activities are expensive because are proportional to the number of reallocation, but moving the EVs to the most demands areas, at different times of day, ensures an increase in profits.
- Innovative approach could increase profits and reduce costs.

Slide 20/35

Positive Incentive

Concept of "Nudge" defined in Behaviour Economics

"SET OF MATERIAL AND VIRTUAL OBJECTS THAT HELP MODIFYING THE MOBILITY BEHAVIOUR TO OBTAIN REDUCTION OF DRIVING AND/OR USE OF ALTERNATIVE MODES"



Slide 21/35

Advantages to introduce Incentive System to reallocate sharing vehicles with user involvement

- Reduction of reallocation costs for the sharing company
- Engage users to the sharing system with reward to be used for mobility services
- Reduction GHG emission and negative impacts (Externalities) due to vehicles involved in the reallocation service by company staff



Slide 22/35

Design of an Incentive System



Slide 23/35

Reallocation and balancing of shared vehicles through an incentive system

- Propose the reallocation service to users in exchange for an incentive

 Incentive based on 3 ranges of values (all values are lower than the reallocation cost faced by the sharing company)

- User 1 -> 50% of company reallocation cost
- User 2 -> 70% of company reallocation cost
- User 3 -> 90% of company reallocation cost
- Acceptance of users based on probability

Slide 24/35

Innovative approach to the reallocation activities in a sharing system with EVs

Goal

Minimization of reallocation costs

ASSUMPTION and DATA:

- Consider a EVs (or ELVs) sharing system station based (or restricted areas as few blocks)
- · Distances and costs in the reallocation service defined
- Max and min number of EVs (or ELVs) defined in each station to be balanced
- · Number of EVs (or ELVs) in charging during the reallocation defined
- All the EVs (or ELVs) performing a trip during the reallocation are not considered
- · Number of EVs (or ELVs) in each station before the reallocation is known

Slide 25/35

Data and decision variables



C: reallocation cost to move one vehicle from the one station to an other station (data)

X: vehicle reallocated by the sharing company from a station/area to an other station/area (decision variables)

S: number of vehicles in a station/area before the optimization (data)

S: number of vehicles in a station/area after the optimization (decision variables)

Slide 26/35

Model of minimization of the reallocation costs service

Objective Function:

Minimization the total reallocation costs related to the distance to move the EVs from one station to an other

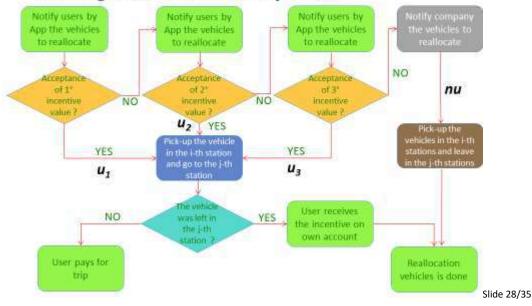
Subject to constraints:

- total number of EVs is the algebraic sum of the EVs leaving each station and those entering
- Min number of EVs in each station
- Max number of EVs in each station
- EVs in charge not considered in the reallocation process*

*This constraint is not present in the case of ELVs that are reallocated by van (such as e-bikes, etc.)

Slide 27/35

Process of the reallocation vehicles through an incentive system



Model of reallocation costs minimization with incentive system for users

Objective Function:

Minimization the total reallocation costs related to the distance to move the EVs from one station to an other, also considering the users reward

Subject to constraints:

- total number of EVs is the algebraic sum of the EVs leaving each station and those entering, also considering the reallocation by users
- Min number of EVs in each station
- Max number of EVs in each station
- Acceptance rate of users in the reallocation process
- EVs in charge not considered in the reallocation process*

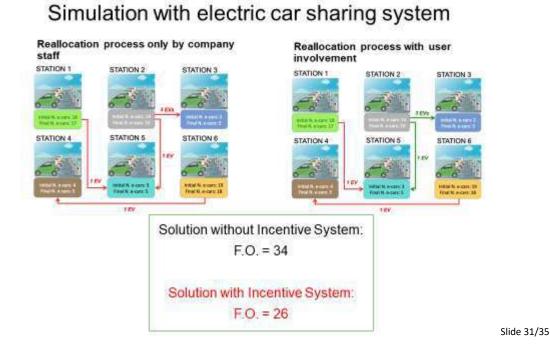
*This constraint is not present in the case of ELVs that are reallocated by van (such as e-bikes, etc.)

Slide 29/35

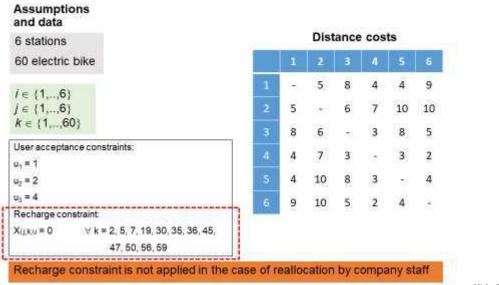
Simulation with electric car sharing system

Assumpti and data	ons							
6 stations				Dist	ance	cos	ts	
60 electric	: car		1	2	3	4	5	6
<i>i</i> ∈ {1,,6		1	15	5	8	4	4	9
/ ∈ {1,,6		2	5	100	6	7	10	10
<i>k</i> ∈ {1,,6	60}	3	8	6	5	3	8	5
User accepta	ince constraints.	4	4	7	3	1.2	3	2
u ₁ = 1 u ₂ = 2		5	4	10	8	3	5	4
u ₃ = 4		6	9	10	5	2	4	
Recharge co	nstraint:	Part and a second						
$X_{i,j,k,u} = 0$	∀ k = 2, 5, 7, 19, 30, 35, 36, 45,							
	47, 50, 56, 59							

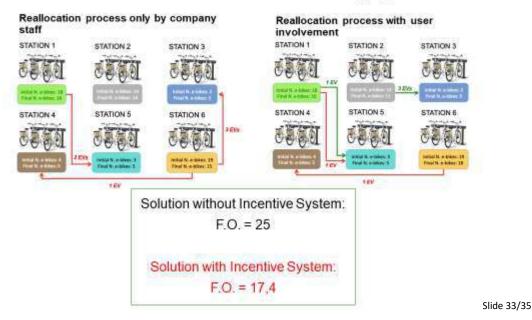
Slide 30/35



Simulation with electric bike sharing system



Slide 32/35



Simulation with electric bike sharing system

Conclusions

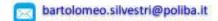
- The innovative EV reallocation approach to minimize the relocation cost for the sharing company on the basis of user involvement by means of an incentive scheme is presented
- The cost of reallocation with users involvement is always lower than that without users or at least is the same (in the simulation we observed about 20-30 % of decreased)
- The problem with the use of ELVs that are reallocated by van (such as: e-bikes, e-scooter, etc.) has all feasible solutions
- The problem with other ELVs or EVs can admit no solution
- User acceptance is based on probability (human behaviour)
- Incentive can be economic (money) or awards (free minutes for mobility sharing, season ticket, etc.). The second choice increases the customer loyalty for this mobility service.

Slide 34/35



Eng. Bartolomeo Silvestri, PhD candidate

Polytechnic University of Bari





5.2 III Training Session: 17 September 2019

After a welcome on behalf of UNITS group of University oft he Studies of Trieste, FIAB Association exposed critical points and future strategies concerning cyclism as a fundamental sector within sustainable urban mobility plans, also concerning tourism. They stressed governance and policy issues that stand as barriers which could be overcome through specific strategies.



After that, guests were invited to the light buffet to continue the networking, and to listen tot he presentations oft he experts who have been involved in the three training sessions. UNITS' personnel remained available through all the duration oft he event, to answer to the audience's questions.



5.2.1 Venue III Training Session

The event took place on 17th of September 2019 at Antico Caffé San Marco in Trieste, between 15:00 and 18:00.





It became famous as a rendezvous for intellectuals and writers including Italo Svevo, James Joyce and Umberto Saba, a tradition that continues to date with Claudio Magris. today it is known as a literary café and a meeting place for leisure and business as well as for families and students. a great place to meet people active in the pursuit of the well-being of the city from a cultural and practical point of view.

5.2.2 Agenda III Training Session



STEP-UP Third Training Sessions

NEW SCENARIES ON MULTIMODAL MOBILITY INFOMOBILITY FOR SUSTAINABLE PASSENGERS' FLOW BETWEEN ITALY AND CROATIA

Public Event

15:00 - 15:20	Welcome on behalf of University of the Studies of Trieste
15:20 - 15:30	Greeting on behalf of STEP-UP Partners (City of Šibenik) Petar Misura
15:30 - 16:00	FIAB, Trieste bicycle mobility general overview Luca Mastropasqua, FLB Association President Jacopo Rothenaisler, FLAB Association
16:00 - 18:00	Networking Buffet and Presentation on topics related to STEP-UP Project: available on multiple pc workstation
	 Sustainable destination management plans fostering climate change mitigation in the tourism sector, including transmational multimodal transport. STEP UP INTERREG IT-HR Project. An overview of STEP-UP Project, INTERREG IT-HR. Improving maritime and multimodal transport services between Italy and Croatia: the experience in MOSES project and the expectations from ICARUS project. The role of Mobility as a Service Electro-mobility integrated into transport and mobility networks Intermodality for a seamless solution Improving passengers' mobility, new ideas and methods to ensure sustainable mobility Smart Cruise Destination The beauty of small villages. Intermodality: the path to encounter it. Cultural routes – potential for info-mobility services EU projects of the Port of Trieste: several tools for a smart port The role of Mobility as a Service The role of Mobility as a Service EU projects of electric vehicles ICT tool in use at the Port of Trieste: The Port Community System Sinfomar How to use GTFS Maas Business Models Planning mobility to support sustainable rural tourism Participatory governance as a model for urban mobility planning Sustainable transport and SUMPs ICT tools for a more efficient and sustainable e-mobility model Electric Vehicles (EVs), Sharing System, Reallocation and Balancing of sharing EVs within a city through an incentive system

YouTube channel: **Project Step-Up** link to Web Page: <u>www.step-up.training</u> e-mail: <u>info@step-up.training</u> link to questionnaire: <u>https://step-up.training/questionnaire/</u>

5.2.3 Attendance III Training Session

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EVENT: III TRAINING SESSION - European Mobility Week VENUE: Antico Caffé San Marco, Via Battisti 18, Trieste DATE: 17/09/2019

ATTENDANCE LIST

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19	HARINA PREDONZANI	ULISTE FIAB	predantation @yahoo (om Ale.
20	CHIARA GELMINI	UNITS	Cgelmin Quaits it	desgel
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22	SARA CARCIOTA	UNITS	scarciotti Bunits it	Agre Carciett
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EVENT: III TRAINING SESSION - European Mobility Week VENUE: Antico Caffé San Marco, Via Battisti 18, Trieste DATE: 17/09/2019

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5.2.4 Dissemination III Training Session

5.2.4.1 Press Release III Training Session (English and Italian)

"TURISMO SOSTENIBILE? PUOI DIRE LA TUA!"

Nell'ambito della **Settimana Europea della Mobilità**, l'**Università di Trieste**, insieme a **FIAB** – Federazione Italiana Ambiente e Bicicletta, incontrerà i cittadini martedì 17 settembre, presso l'Antico Caffè San Marco di Trieste dalle ore 15:00 alle 18:00, sui temi del **turismo sostenibile**, sul ruolo delle **nuove tecnologie** nell'ambito della mobilità e sul panorama dei **progetti europei**.

I membri del gruppo di ricerca del **DIA – Dipartimento di Ingegneria e Architettura** dell'Università di Trieste saranno a disposizione per tutta la durata dell'evento per condividere la propria esperienza e rispondere alle curiosità del pubblico.

A tutti gli interessati verranno illustrate le attività e le finalità del progetto europeo Interreg ITA-CRO **STEP-UP** - *Sustainable Transport E-Planner to Upgrade the IT-HR mobility*.

Saranno inoltre presenti anche alcuni partner croati del progetto per presentare le proprie attività di Pilot Site.

Ai cittadini verrà data la possibilità di esprimersi sulla loro **percezione del turismo di massa** e i loro **suggerimenti verranno raccolti**, nell'ottica di una pianificazione partecipata, al motto: **"Turismo sostenibile? Puoi dire la tua!"**.

Nel corso dell'incontro saranno rese visibili su postazioni pc multiple le presentazioni delle precedenti Training Sessions (sessioni formative organizzate dall'Università di Trieste nell'ambito del progetto STEP-UP). Il materiale, che sarà a disposizione di tutti gli interessati, approfondisce alcuni dei **nuovi scenari della mobilità**: MaaS (Mobility as a Service), Electro-mobility, Info-mobility, Pilastri EUSAIR e Sustainable Tourism, ICT Tools for Tourism ed E-Planning Platforms.

Ad affiancare il DIA ci sarà la **FIAB**, associazione impegnata nella divulgazione e tutela della mobilità dolce e dei ciclisti, allo scopo di illustrare le attività in corso e i progetti futuri.

La partecipazione è libera e non è necessaria la prenotazione.

Durante l'evento ai partecipanti verrà offerto un rinfresco.

"SUSTAINABLE TOURISM? YOU CAN HAVE A SAY!"

As part of the European Mobility Week, the University of Trieste, together with FIAB - Italian Environment and Bicycle Federation, will meet the citizens on Tuesday 17 September, at the Antico Caffè San Marco in Trieste from 15:00 to 18:00 on the issues of sustainable tourism, on the role of new technologies in the field of mobility and on the panorama of European projects. The members of the research group of the DIA - Department of Engineering and Architecture of the University of Trieste will be available for the duration of the event to share their experience and respond to the curiosity of the public. All interested parties will be informed about the activities and aims of the European INTERREG project IT-HR STEP-UP - Sustainable Transport E-Planner to Upgrade the IT-HR mobility. Some Croatian partners of the project will also be present to present their Pilot Site activities. Citizens will be given the opportunity to express themselves on their perception of mass tourism and their suggestions will be collected, with a view to participatory planning, to the motto: "Sustainable tourism? You can have your say! " During the meeting, the presentations of the previous Training Sessions (training sessions organized by the University of Trieste within the STEP-UP project) will be made visible on multiple PC workstations. The material, which will be available to all interested parties, explores some of the new mobility scenarios: MaaS (Mobility as a Service), Electro-mobility, Info-mobility, EUSAIR Pillars and Sustainable Tourism, ICT Tools for Tourism and E-Planning Platforms. To support the DIA there will be the FIAB, an association engaged in the dissemination and protection of soft mobility and cyclists, in order to illustrate the activities in progress and future projects. Participation is free and no reservation is required. During the event participants will be offered refreshments.

5.2.4.2 Articles from Il Piccolo (17/09/2019 and 18/09/2019)

UNIVERSITÀ E FIAB Turismo sostenibile Se ne parla al San Marco

Nell'ambito della Settimana europea della mobilità, Università e Fiab - Federazione italiana ambiente e bicicletta organizzano oggi all'Antico Caffè San Marco dalle 15 per un incontro sui temi della mobilità (nuovo piano urbano della mobilità sostenibile) e del turismo sostenibile, sul ruolo delle nuove tecnologie nell'ambito della mobilità e sul panorama dei progetti europei.

Nel corso dell'appuntamento verranno illustrate le attività del gruppo di ricerca e le finalità del progetto progetto europeo Inter-Italia-Croazia reg "Step-Up" (Sustainable Transport E-Planner to Upgrade the IT-HR mobility), come terza Training Session. Saranno inoltre presenti anche alcuni partner croati del progetto per presentare le proprie attività di Pilot Site.

SETTIMANA EUROPEA DELLA MOBILITÀ

Trieste si interroga sulla ciclabilità a partire da Muggia e Porto vecchio



II "Bike Pride" in via Mazzini organizzato da Fiab Ulisse nel 2015

Micol Brusaferro

Un momento di incontro e confronto, un dibattito su quanto Trieste possa essere proiettata verso una mobilità e un turismo sempre più sostenibili. E' l'argomento dell'appuntamento di ieri al caffe San Marco, organizzato nell'ambito della Settimana Europea della Mobilità, e curato dall'Università di Trieste insieme a Fiab, la Federazione Italiana Ambiente e Bicicletta di Trieste. L'evento rientra anche nella cornice del progetto europeo Interreg Italia-Croazia "Step up" con il Dipartimento di Ingegneria e Architettura dell'Università di Trieste, che ha promosso un contatto diretto con i cittadini nel corso del pomeriggio. Il pubblico ha compilato un questionario sul tema del turismo, utila gente a Trieste sull'argomento, e ha ascoltato i dettagi di "Step up", il programma che punta a creare uno sviluppo dei collegamenti ra Italia e Croazia all' insegna della tutela ambientale. Un lavoro di gruppo, che vede impegnate realtà italiane e croate, al lavoro anche per migliorare la mobilità sostenibile nei rispettivi ambiti. A margine dell'incontro è stato fatto anche un punto sui tanti progetti di ciclabilità peri il tuturo della città. E'in fase di progettazione la Trieste-Muggia – ricorda Luca Mastropasqua, presidente di Ulisse Fiab - che farà parte di una rete europea di ciclabili, c'è poi quella che riguarda il Porto Vecchio, con un primo lotto già pronto, che percorretà l'intero comprensorio e sarà bidirezionale. E ancora di sta operando anche per la ciclabile del Carso, già finanziata. Poi c'è la prospettiva di crearne anche una sulla strada Costiera, nell'ambito di una possibile trasformazione della via in strada turistica».

Grandi iniziative ma anche piccole attenzioni. «Lavoriamo anche per l'aumento degli stalli in città e per rendere in generale Trieste sempre più fruibile da chi ama la bicicletta, anche se stiamo constatando con un po' di amarezza – dice – che dal Comune sentiamo una chiusura nei nostri confronti e una scarsa collaborazione».—

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5.2.4.3 Article on Bora.la <u>https://bora.la/2019/09/16/turismo-sostenibile-puoi-dire-la-tua/</u>



Nell'ambito della Settimana Europea della Mobilità, l'Università di Trieste insieme a FIAB – Federazione Italiana Ambiente e Bicicletta sono lieti di invitare i cittadini martedì 17 settembre, presso l'Antico Caffè San Marco di Trieste dalle ore 15:00 alle 18:00, per un incontro sui temi della mobilità (nuovo piano urbano della mobilità sostenibile) e del turismo sostenibile, sul ruolo delle nuove tecnologie nell'ambito della mobilità e sul panorama dei progetti europei.

L'evento è organizzato nella cornice del progetto europeo Interreg ITALIA-CROAZIA "STEP-UP" (Sustainable Transport E-Planner to Upgrade the IT-HR mobility), come terza Training Session (sessione formativa ideata dall'Università di Trieste).

I membri del gruppo di ricerca del DIA – Dipartimento di Ingegneria e Architettura dell'Università di Trieste saranno a disposizione per tutta la durata dell'evento per condividere la propria esperienza e rispondere alle curiosità del pubblico.

A tutti gli interessati verranno illustrate le attività del gruppo di ricerca e le finalità del progetto STEP-UP.

Saranno inoltre presenti anche alcuni partner croati del progetto per presentare le proprie attività di Pilot Site.

Ai cittadini verrà inoltre data la possibilità di esprimersi sulla loro percezione del turismo di massa e i loro suggerimenti verranno raccolti, nell'ottica di una pianificazione partecipata, al motto: "Turismo sostenibile? Puoi dire la tua!".

Nel corso dell'incontro saranno rese visibili su postazioni pc multiple le presentazioni delle precedenti Training Sessions.

Il materiale, che sarà a disposizione di tutti gli interessati, approfondisce alcuni dei nuovi scenari della mobilità: MaaS (Mobility as a Service), Electro-mobility, Info-mobility, Pilastri EUSAIR e Sustainable Tourism, ICT Tools for Tourism ed E-Planning Platforms.

Ad affiancare il DIA ci sarà l'associazione FIAB, da anni impegnata nella divulgazione e tutela della mobilità dolce e del ciclismo in area urbana, per illustrare le attività in corso e i progetti futuri.

La partecipazione è libera e non è necessaria la prenotazione.

Durante l'evento ai partecipanti verrà offerto un rinfresco.

5.3 III Training Session: Questionnaire

During the preparation of the first training session a questionnaire previously designed has been distributed to the audience. The questionnaire was printed on paper was distributed at the registration desk to those present to the conference room and collected at the end of the conference or at their departure. In this way the participants could quickly view the questions and formulate a response idea following the conference.

The results obtained from the first training session questionnaire gave a useful feedback in regards of the organization of the next sessions.

Follows the list of questions proposed to the audience. For each question the audience was asked to express a preference according to the given assessment grid.

After the list of the proposed questions follows the answers given by the conference participants. Note that each question is marked with a bulleted number. while consulting the answers, refer to it.

		Assessment grid	Not at all	Not quite	Neutral	Much	Very much
1 TOPICS							
	1.1	The topics were relevant to me					
	1.2	I was familiar with the proposed topics					
	1.3	The topics offered a good overview on issues related to Passengers' flow					
2 SPEECHES							
	2.1	The material used for the presentations was coherent and clear					
	2.2	I would find it useful to have the presentations material available for future consultation					
	2.3	The presentations were coherent with the title and the topic					
	2.4	The presentations met my expectations					
3 CONFERENCE							
	3.1	The conference contributed to deepen my knowledge on the topics:					
		3.1.1 Multimodality					
		3.1.2 European projects on mobility					

New scenaries on mobility (Maas, Electro-mobility)	3.1.3
Info-mobility	3.1.4
Sustainable Tourism	3.1.5
ICT Tools for Tourism	3.1.6
E-Planning Platforms	3.1.7
Other	3.1.8
I think these topics should be more disseminated	3.2
After the conference my knowledge on the covered topics has improved	3.3
I am involved in these topics (e.g. in daily life/at work)	3.4
The conference has been well organised	3.5
	General assessments:
Which topic was of major interest?	4.1
Which elements of the presentations could be enhanced? (e.g. the quality of presentations, technical aspects,)	4.2
Which topics would you like to be deepened further in the next Training Sessions?	4.3

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1	торіс			Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much
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		1.3						x					x									x	
2	SPEECHES			-																			
		2.1						×					x					×					>
		2.2						×			x							x					>
		2.3						x					x					x)
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3	CONFERENCE																						
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			3.1.4					x				x						x					>
			3.1.5					×					x					x					>
			3.1.6					x				x						x					>
			3.1.7					x				x						x					>
			3.1.8								x												
		3.2					x						x					x					>
		3.3	-				x						x					x				x	
		3.4						×				x					×						3
		3.5						×					x					x					х

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		1.1					x					x						x				х	
		1.2										x			x							x	
		1.3									x											x	
2	SPEECHES													1									
		2.1										x					x					x	
		2.2			x								×				×					x	
		2.3						x				×						×				x	
		2.4						x				x						x				x	
3	CONFERENCE																						
		3.1																					
			3.1.1								x												
			3.1.2								x						x					x	
			3.1.3									x										x	
			3.1.4									x					x						
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		3.2					×					x						x				×	-
		3.3					x					x						x				x	
		3.4					x				x						x					x	
		3.5					x						x					х				x	

				9					10					11					12				
				prof	essio	nial			prof	essio	nal												
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1	торіс			Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much	Not at all	Not quite	Neutral	Much	Very much
		1.1						x					×				×					x	
		1.2				х					х						x					x	
		1.3					x				x						×						
2	SPEECHES																						
		2.1						×					x				x						
		2.2						×					x				x				×		
		2.3					×						×					x					х
		2.4											x					x					x
3	CONFERENCE								1														
		3.1																					
			3.1.1					x					x					x					x
			3.1.2										x										x
			3.1.3										×										×
			3.1.4										x					x					x
			3.1.5										x										x
			3.1.6					×					×										x
			3.1.7	-									x										x
			3.1.8							x													
		3.2						×					x				×						×
		3.3					x					x					x						x
		3.4						x				x					x				x		
		3.5						x					x					×					x

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				expe	ert cit	tizen		
				fiab				
1	ТОРІС			Not at all	Not quite	Neutral	Much	Very much
		1.1					x	
		1.2						x
		1.3					x	
2	SPEECHES					1.1 U.		() ()
		2.1						
		2.2					x	
		2.3					x	
		2.4					x	
3	CONFERENCE			() (M		50 - 1V		-
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			3.1.1		_		x	
			3.1.2					2 0
			3.1.3					
			3.1.4					-
			3.1.4				x	
				-		x	x	
			3.1.6			×		
			3.1.7					
		_	3.1.8					
		3.2						x
		3.3						
		3.4					x	
		3.5						

The feedback received for section 4. General assessment follows:

4.1 Which topic was of major interest?

turismo sostenibile (sustainable tourism)

new scenarios on mobility

il ruolo della bicicletta anche nel sistema economico e turistico (the role of the bycicle also in the economic and touristic system) Tutti (all)

cicloturismo accessibilità delle città (cyletourism and cities accessibility)

4.2 Which elements of the presentations could be enhanced? (e.g. the quality of presentations, technical aspects, ...)

e-planning platforms

eventually connection with train connection from italy and another country

tutto ciò che riguarda Trieste (everything that concerns Trieste)

sulle eventuali ciclovie sul carso triestino ((what concerns the bycicle ways on the Karst around Trieste)

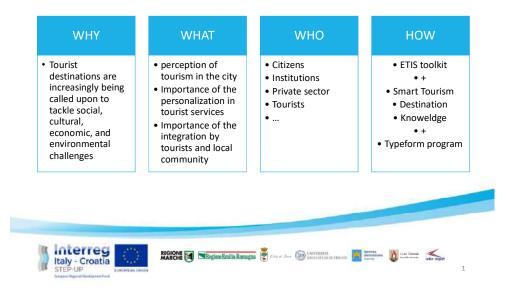
5.4 Smart Tourism Survey for Trieste

During the III Training Session UNITS wanted to be not only a mean for conveying knowledge, but also work as a listener to the citizenship's perception on STEP-UP themes, such as mass tourism and Technology applied to Tourism.

For this reason, we designed a special questionnaire (different from the questionnaire for the overall session evaluation which finds place in a specific chapter).

The questionnaire is based on ETIS (European Tourism Indicators System), which is a guideline set by the European Union dedicated to all touristic destinations towards adopting a more intelligent approach to tourism planning.

This initiative was accepted within the European Mobility Week.



Smart Tourism Survey for Trieste



Smart Tourism Destination knowledge







https://it.surveymonkey.com/r/TSTURISMO

info: scarciotti@units.it

The questionnaire have been fully compiled by almost 400 people and have been started or almost fully compiled by almost 500, making the data collected consistent.

INDAGINE ATTIVA	
• • •	
444	360
Totale	Risposte
risposte	completate
Tasso di completamento	81%
Ultima immissione	29/10/2019
Data creazione	05/09/2019
VISUALIZZA DETTAGLI	
VISUALIZZA TUTTE LE IND	AGINI

6. Web repository to training sessions relevant material

All the material produced in relation to the training sessions is available on the repositories web page at the following address: <u>www.step-up.training</u>

This web page was developed to support the Training Sessions Activity within STEP-UP Sustainable Transport E-Planner to Upgrade the IT-HR mobility.

Official Website of STEP-UP Project: https://www.italy-croatia.eu/web/step-up

Just connected to the site you can see the home, see the screenshots reported below. Three buttons link to the page dedicated to each of the three training sessions.



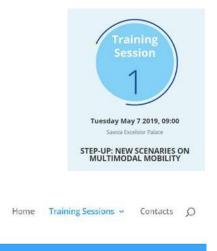




6.1 I Training Session

For the First Training Session all the relevant material is available at the following link:

https://step-up.training/new scenaries on multimodal mobility/





STEP-UP: NEW SCENARIES ON MULTIMODAL MOBILITY INFOMOBILITY FOR SUSTAINABLE PASSENGERS' FLOW BETWEEN ITALY AND CROATIA

THE CONFERENCE is organised as the first Training Session of STEP-UP project, INTERREG ITALY-CROATIA funded by the European Regional Development Funds. The conference aims to promote the knowledge of the fields of tourism, multimodality and ICT systems applied to passenger flows, and bring attention to development projects involving the Adriatic area between Italy and Croatia.

The invited speakers are both experts within the project partnership and external professionals, all of them own renowned experience in the field they present.

The conference will be followed by two other training sessions on topics such as info-mobility and the European perspective in the field of transport and tourism. All the sessions, held in English as afficial language of the project, are free and accessible remotely via webinar.





Link to the Program:

https://step-up.training/wp-content/uploads/2019/05/STEP-UP_FirstTrainingSession-7May_FinalAgenda.pdf



oia Excelsi	or Palace Hotel - Trieste, 7th May 2019
8:40 - 09:00	Registration of participants and Welcome Coffee
9:00 - 09:15	Welcoming on behalf of University of Studies of Trieste
	Institutional greetings
9:15 - <mark>10:15</mark>	Sustainable tourism destination management plans, focusing on climate change mitigation and multimodal transport
	Cinzia De Marzo, Lawyer, specialized in European Union Law & International Sustainable Tourism Expert
0:15 - 10:30	STEP UP INTERREG IT-HR Project
	Letizia Casonato, Head of Local Public Transport, Logistics and Viability Department, Marche Region (STEP-UP project Lead Partner)
0:30 - 10:45	Improving maritime and multimodal transport services between Italy and Croatia:
	the experience in MOSES project and the expectations from ICARUS project Massimiliano Angelotti, Direzione centrale infrastrutture e territorio, FVG Region
0:45 - 11:00	The role of Mobility as a Service
	Daniela Vasari, Project manager, solution designer in ITS projects and International cooperation, Pluservice, Technical Assistance of Marche Region (STEP-UP project Lead Partner)
11:00 - 11:15	Electro-mobility integrated into transport and mobility networks Maria Pia Fanti, Full professor of System and Control Engineering, Department of Electrical and Information Engineering of the Polytechnic University of Bari
1:15 - 11:30	Coffee Break
1:30 - 11:45	Intermodality for a seamless solution Glorgia Fanesi, Software analyst and project manager, Pluservice, Technical Assistance of Marche Region (STEP-UP project Lead Partner)
11:45 - 12:00	Improving passengers' mobility, new ideas and methods to ensure sustainable mobility
	Stipe Španja, Senior Associate for Development and EU projects, City of Šibenik (STEP-UP project Partner)
12:00 - 12:15	Smart Cruise Destination: a network between territory and cruise tourism Sara Carciotti, Architect, PhD Student, University of Trieste, Engineering and Architecture Department (STEP-UP project Partner)
12:15 - 12:30	The great heauty of the small villages. Intermodality: the road to meet it Laura Schiff, Director for Quality of Touristic Areas, Emilia Romagna Region (STEP-UP project Partner)
12:30 - 12:45	Cultural routes – a potential for info-mobility services Vanja Lipovae, Consultant for EU Projects, Zadar Airport (STEP-UP project Partner)
12:45 - 13:00	EU projects of the Port of Trieste: several tools for a smart port Valentina Boschian, Port Network Authority of the Eastern Adriatic Sea
	Closing remarks

European Regional Development Fund



Hotel Savoia Excelsior Palace

Riva del Mandracchio, 4, 34124 Trieste TS

+39 040 77941

Note on accommodation: the chosen venue is placed in the main centre of Trieste. In the surroundings of the venue there are several hotel and B&Bs of any level. Since the STC Meeting is approaching and the season will be almost high, we recommend to book an accommodation as soon as possible. We can give further assistance when needed.



6.1.1 Link to speaker's presentation, I Training Session

Each involved speaker is presented on the page dedicated to the training session in which he participated. For each of them you can see a photo, the description of the role held, a brief biography, a link to the PDF containing the proposal presentation (already entered in full in Deliverable 5.1.1) and a link to the video of the presentation.

6.1.1.1 ustainable destination management plans fostering climate change mitigation in the tourism sector, including transnational multimodal transport. [Cinzia de Marzo]



CINZIA DE MARZO

Lawyer, specialized in European Union Law & International Sustainable Tourism Expert

"Sustainable destination management plans fostering climate change mitigation in the tourism sector, including transnational multimodal transport"

Abstract

- Short overview about Paris Agreement objectives and UN Sustainable Development Goals
- Alignement to the existing EU policy framework and strategies (Coastal and Maritime tourism strategy for more Growth and Jobs, EUSAIR, A Clean Planet for all, Reflection Paper towards a sustainable Europe by 2030...)
- · Geo-political context (Adriatic and Ionion Regions)
- · Interregional cooperation between Croatia and Italy for promoting multimodel transports and sustainable mobility

Short bio

Cinzia de Marzo, a lawyer specialising in EU Law and economy, is dedicated to sustainable tourism within the European Union. For several years now, she has been worked on the ETIS system, as an EU national expert at the Commission and as one of the people deeply involved in the implementation of EUSAIR (Adriatic-Ionian) EU Strategy. She talked with Stefan Lazic about the need for quality measurement for sustainable tourism and why is it important to work together to secure a brighter future.





Link to presentation's PDF:

https://step-up.training/wp-content/uploads/2019/06/1 PPT Trieste 07 05 19 Cinzia-De-Marzo.pdf

Link to registration of the presentation on You tube channel: https://www.youtube.com/watch?time_continue=1&v=0FIBHragojg

6.1.1.2 STEP UP INTERREG IT-HR Project. An overview of STEP-UP Project, INTERREG IT-HR. [Valeria Corina]



VALERIA CORINA

Sinergia, Technical Assistance of Marche Region (STEP-UP project Lead Partner)

"STEP UP INTERREG IT-HR Project"

Abstract

An overview of STEP-UP Project, INTERREG IT-HR.

Short bio

Sinergia, Technical Assistance of Marche Region (STEP-UP project Lead Partner)





Link to presentation's PDF: https://step-up.training/wp-content/uploads/2019/06/2 Corina STEP-UP Regione-Marche.pdf

You Tube channel:

https://www.youtube.com/watch?time_continue=1&v=7FZ_HXIjzQY

6.1.1.3 Improving maritime and multimodal transport services between Italy and Croatia: the experience in MOSES project and the expectations from ICARUS project. [Massimiliano Angelotti]



MASSIMILIANO ANGELOTTI

Central Department of Infrastructures and Territory, Friuli Venezia Giulia Region

"Improving maritime and multimodal transport services between Italy and Croatia: the experience in MOSES project and the expectations from ICARUS project."

Abstract

The presentation is intended to provide an overlook on the concrete contributions provided so far in the framework of Standard+ project MOSES, based on the capitalization of the previous strategic project EASEAWAY (IPA Adriatic 2007-2013), in terms of new sustainable passenger mobility options made available in the cross-border Programming area, showing two best practices developed during summer 2018, with a final focus extended also to the expected outputs of the ICARUS project, recently approved among the Standard projects, which is strongly based on the concept of Mobility as a Service.

Short bio

Civil servant at Autonomous Region of Friuli Venezia Giulia, Central Directorate for infrastructure and territory, Coordinator of the European Programmes Unit. He graduated at the University of Trieste (Italy) in Political Sciences. He started working as free lance journalist for a regional newspaper in 1994 and kept working as free lance until 2004. In 1995 he moved to London for a six months working postgraduate experience in the Shipping management sector and then he worked from 1996 until 2000 for an Italian company as assistant technical manager (shipping sector – commercial vessels). In 2000 he moved to work for Friuli Venezia Regional administration, in the field of programmes and projects co-financed by EU.

He has worked in over 30 cooperation projects since Programming period 1999 – 2001 co-financed by EU structural funds in logistic, freight and passenger transport sectors, and acted as a co-ordinator in four of them, where selected ones are: TRANSITECTS, ALPFRAIL and ALPINNOCT (rail freight sector, Alpine Space Programme), SONORA and BATCo (Baltic – Adriatic freight transport axis, Central Europe Programme), FUTUREMED (ICT and port-hinterland freight links, MED Programme), ADB multiplatform and Acrossee (freight intermodal transport, SEE Programme) PORTUS and EA SEA-WAY (passengers mobility in Adriatic and Ionian area, IPA Adriatic Programme), MOSES and ICARUS (mobility of passengers, Italy-Croatia Programme).

He is currently managing, as project manager, the project CROSSMOBY, which is a strategic project approved in the framework Interreg Italy-Slovenia Programme, developing and promoting environmentally friendly, intermodal transport solutions for passengers across the crosss-border area.





Link to presentation's PDF:

https://step-up.training/wp-content/uploads/2019/06/3_Angelotti_Improving-maritime-andmultimodal-transport.pdf

You Tube channel: https://www.youtube.com/watch?v=sEjkzcGvM-I

6.1.1.4 The role of Mobility as a Service [Daniela Vasari]



DANIELA VASARI

Project manager, solution designer in ITS projects and International cooperation, Pluservice, Technical Assistance of Marche Region (STEP-UP project Lead Partner)

"The role of Mobility as a Service"

Abstract

An overview on Mobility as a Service

Short bio

Daniela Vasari graduated in Computer Engineering, in March 2009. She works in PluService since 2009 as Solution Designer for ITS in Passenger Transportation and since 2014 as Senior Project Manager.

She is involved in EU-International-National projects on topics such as Demand Responsive Transport, Multi-modal Traveller Information Systems, Automatic Vehicle Monitoring systems.

She is the Project Manager of several European funded projects.





Link to presentation's PDF:

https://step-up.training/wp-content/uploads/2019/06/4_Vasari_The-role-of-Mobility-as-a-Service.pdf You Tube channel:

https://www.youtube.com/watch?v=EtckMkf64yg&feature=emb_logo

6.1.1.5 Electro-mobility integrated into transport and mobility networks [Maria Pia Fanti]



MARIA PIA FANTI

Full professor of System and Control Engineering. Department of Electrical and Information Engineering of the Polytechnic University of Bari

"Electro-mobility integrated into transport and mobility networks"

Abstract

Electro-mobility integrated into transport and mobility networks concerning: open problems related to alectromobility as the major factor towards transport decarbonization, two in progress European H2020 projects for electromobility underlining their strategic objectives, some developed ICT tools for electromobility (Virtual Sensors) and their implementation methodology, hyper-networks, personal mobility probability and charge price prediction.

Short bio

Maria Pia Fanti is full professor of System and Control Engineering at the Department of Electrical and Information Engineering of the Polytechnic of Bari (Italy). She received the Laurea degree in Electronic Engineering from the University of Pisa (Italy), in 1983. She was a visiting researcher at the Rensselaer Polytechnic Institute of Troy, New York, in 1999. Since 1983 she has been with the Department of Electrical and Electronic Engineering of the Polytechnic of Bari (Italy), where she was Assistant Professor from 1990 till 1998 and Associate Professor from 1990 till April 2012.

Maria Pia Fanti is IEEE fellow for contributions to modeling and control of discrete event systems.

Her research interests include Discrete event systems, Petri net, consensus algorithms, networked and control systems, management and modeling of logistic systems, automated manufacturing systems, automatic guided vehicle systems, traffic networks, and healthcare systems.

Maria Pia Fanti is author of 2 books and 280+ papers including 85 journal papers including. 11 book chapters and many conference proceeding papers.



You Tube channel: https://www.youtube.com/watch?time_continue=1&v=erNivRUZC1A

6.1.1.6 Intermodality for a seamless solution [Giorgia Fanesi]



GIORGIA FANESI

Software analyst and project manager, Pluservice, Technical Assistance of Marche Region (STEP-UP project Lead Partner)

"Intermodality for a seamless solution"

Abstract

Definition of Intermodality, exploring the opportunities it offers

Short - bio

After her Master Degree in industrial engineering at the University of Bologna and an internship at IRU, Giorgia Fanesi has worked on ICT projects for PluService s.r.l. and is currently Software Analyst and Project Manager at myCicero.





Link to presentation's PDF:

https://step-up.training/wp-content/uploads/2019/06/6_Fanesi_Intermodality-for-a-seamlesssolution.pdf

You Tube channel:

https://www.youtube.com/watch?v=LyL5zKj4KWM&feature=emb_logo

6.1.1.7 Improving passengers' mobility, new ideas and methods to ensure sustainable mobility [Petar Mišura]



PETAR MIŠURA

Senior Associate for Development and EU projects, City of Šibenik (STEP-UP project Partner)

"Improving passengers' mobility, new ideas and methods to ensure sustainable mobility"

Abstract

Ideas and ways to improve passenger mobility in the city. Basically, every city due to its specific morphological, cultural, social and economic features has to develop specific transport solutions that suits the needs of local resident living in it. Which are the crucial steps to do it? An indication about where to start and how EU funds can help us to resolve this issue. The City of Šibenik as an example: what it has done so far and what is planned next.





Link to presentation's PDF:

https://step-up.training/wp-content/uploads/2019/06/7_Misura_Improving-passengers-mobility.pdf

You Tube channel: https://www.youtube.com/watch?v=OtyRUbNTCho

6.1.1.8 Smart Cruise Destination [Sara Carciotti]



SARA CARCIOTTI

Architect, PhD at Engineering and Architecture Department at the University of the Studies of Trieste

"Smart Cruise Destination"

Abstract

The research introduces the concept of smart cruise destination in order to manage in an innovative way the cruise tourist flows. The network of cruise destination is based on the principle of sustainable tourism. It considers a framework consisting of a combination of distributed knowledge, data and models. Through this framework, the stakeholders have the possibility to base on sound and rational bases all decisions concerning policies, infrastructure development and the managing system. Moreover, the smart cruise destination is based on the evolution of the well-known tourism destination concepts with the aim to enhance both the residents' wellbeing and tourists' enjoyment and satisfaction. To fulfil this aim, the knowhow of experience economy is adopted in different scale.

Short bio

Sara Carciotti is a young Italo-Slovenian architect specialized in exhibit design. After her master degree she has worked in the Architectural industry for a long period. Her international experience covers a wide range of projects and competitions from home units, commercial and retail mixed-use projects to urban design and sustainable strategy planning. After Venice, Paris and Ljubljana she has started the PhD program at the University of Trieste where actually works with the group of the prof. Ukovich. She is mostly focused on projects regarding urban mobility, people mobility and tourist's wellbeing.





Link to presentation's PDF:

https://step-up.training/wp-content/uploads/2019/06/8 STEP-UP Carciotti.pdf

You Tube channel:

https://www.youtube.com/watch?v=W8nfQ0M-HkA

6.1.1.9 The beauty of small villages. Intermodality: the path to encounter it. [Laura Schiff]



LAURA SCHIFF

Director for Quality of Touristic Areas, Emilia Romagna Region (STEP-UP project Partner)

"The beauty of small villages. Intermodality: the path to encounter it"

Abstract

When you can only move with your private vehicle to reach the historic villages you arrive in small towns, where it becomes difficult to move and park. When in this situation the desire to visit authentic places arises, to discover the true traditions and the soul of a community that is different from the usual, once you have chosen a real place that you would like to know ... often you give up. What is the waiver due to? The frustrating idea of having to plunge into traffic and get back to parking problems. That's why we need a new intermodality, along the coast and towards the small charming villages of the hinterland. Train, bicycle and public buses are the means that, interconnected and made available and usable by smart technologies, can bring new travelers to the discovery of art, history, nature and local products, and contribute to the economic development of small towns without altering their features.

Short bio

Laura Schiff is graduated in Agricultural Sciences in 1977 at the University of Bologna, with specialization in territorial planning. She held the positions of Manager of the Planning Office of the Mountain Community of the Appennino of Bologna and that of Head of the floriculture sector and public green. From 1991 to 2017, she was the urban quality manager of the tourist resorts at the Tourism Department of the Emilia-Romagna Region. From 1991 to 2017 he designed and managed numerous projects – both at the regional and European level – for sustainable development of tourist areas for the creation and enhancement of new tourist products. From 2017 she directs the Communication, promotion, coordination of European projects and special projects of the Emilia-Romagna Region; is coordinator for the Italian Regions for managing important projects financed by the Ministry of Tourism, with the purpose of deloping the Network of Italian Historic Villages, Landscapes and Accessible Tourism.





Link to presentation's PDF:

https://step-up.training/wp-content/uploads/2019/06/9_Schiff_RegioneEmiliaRomagna.pdf

You Tube channel: https://www.youtube.com/watch?time_continue=1&v=UZyGyShKI4Q

6.1.1.10 Cultural routes – potential for info-mobility services [Vanja Lipovac]



VANJA LIPOVAC

Consultant for EU Projects, Zadar Airport (STEP-UP project Partner)

"Cultural routes - a potential for info-mobility services"

Abstract

The presentation will consist of three parts providing context and information for utilizing info-mobility services in current touristic trends. First part will elaborate what Cultural routes are, focusing mainly on the EU initiative of Cultural Routes, but also will elaborate how this touristic/business model can be developed on local/regional/europe level. Second part will focus on current touristic trends and developments. Cultural routes as a cultural tourism service fits in well with current trends, strategic priorities such as sustainability etc. Finally, third part will focus on how can info-mobility services fit in the Cultural routes and what are the best ways to approach it.

Short bio

Vanja Lipovac has master degree in cultural sociology (2015). Shortly after, he started an internship in Zadar County department for EU projects and development, where he participated on preparation and implementation of several national and international EU projects.

After finishing a year of internship he started working as a project manager for "Foster children rights" project, financed from European social funds. After the project ended, he started working as a consultant for EU project for Driope. He is mostly focused on projects regarding urban mobility, intermodality, info-mobility and sustainable development.





Link to presentation's PDF:

https://step-up.training/wp-content/uploads/2019/06/10_Lipovac_Cultural-routes-and-infomobility_ZadarAirport.pdf

You Tube channel: https://www.youtube.com/watch?v=1lb5mOahx08

6.1.1.11 EU projects of the Port of Trieste: several tools for a smart port [Valentina Boschian]



VALENTINA BOSCHIAN

Port Network Authority of the Eastern Adriatic Sea

"EU projects of the Port of Trieste: several tools for a smart port"

Abstract

The presentation gives an overview of the European Projects that the Port Network Authority of the Eastern Adriatic Sea – Port of Trieste is participating, as lead partner as well as project partner. EU projects represent a fundamental instrument to pursue the mission of the Port of Trieste and to optimise the existing port infrastructures with the final aim to make the Port of Trieste more competitive and more attractive to investors. The port of Trieste is involved in 22 co-funded projects, for an overall budget of 126.7 mln euros and an EU contribution of 32.3 mln euros in the following domains: infrastructures (3 projects), environment and energy efficiency (6 projects), port-inland optimisation (3 projects), culture (1 project), development cooperation (1 project), ICT (8 projects). With a particular focus on ICT, the following projects are presented. One project related to maritime access: INTESA – Improving maritime transport efficiency and safety in the Adriatic (Interreg Italia-Croazia 2014-2020); two projects related to railway access "PORTIS – Sustainable mobility solutions for port cities (Horizon 2020), URSA MAJOR neo (Connecting Europe Facility – CEF); four projects related to railway access and fast corridors: AlpInnoCT – Alpine Innovation for Combined Transport (Interreg Spazio Alpino), PROMARES – Promoting maritime and multimodal freight transport in the Adriatic Sea (Interreg Italia-Croazia 2014-2020), SMARTLOGI – Logistica transfrontaliera sostenibile e intelligente (Interreg Italia-Austria), COMODALCE – Enhancing COordination on multiMODAL freight transport in CE (Interreg Central), FENIX – A European FEderated Network of Information eXchange in Logistics (Connecting Europe Facility – CEF).

Short bio

Dott. Ing. Valentina Boschian, Ph.D., works at the Port Network Authority of the Eastern Adriatic Sea – Port of Trieste, in the Digital Port Area. Since 2008, her expertise is focused on consultancy activities related to the analysis of ICT impact on new business cases, mainly in the field of transport and logistics. After obtaining a degree in Management Engineering and a PhD in Computer Science Engineering, she worked as a project manager in several international research projects. She is also expert in business model innovation.

Main skills: Analysis and modelling of processes; Assessment analysis (based on KPIs definition); Management of complex systems with analytical models; Analysis of business scenarios, Use Case identification and User Requirement definition; Project management, ICT applications in logistics and transportation management.

Education

- Dottorato (Ph.D.) in Information Technology Engineering, University of Trieste (2012)
- Degree in Management Engineering and Integrated Logistics (graduation with first class honours, "110/110 e lode"). University of Trieste (2008)
- Degree in Management Engineering (graduation with first class honours, "110/110 e lode"), University of Trieste (2003).



PDF presentation:

https://step-up.training/wp-content/uploads/2019/10/11 Boschian EUproject 070519 v01.pdf

6.2 II Training Session

For the Second Training Session all the relevant material is available at the following link:

https://step-up.training/training-session-ii/





Home Training Sessions - Contacts O

STEP-UP: TRAINING SESSION II

INFOMOBILITY FOR SUSTAINABLE PASSENGERS' FLOW BETWEEN ITALY AND CROATIA

THE WEBINAR is organised as the second Training Session of STEP-UP project, INTERREG ITALY-CROATIA funded by the European Regional Development Funds. The webinar aims to promote the knowledge of the fields of tourism, multimodality and ICT systems applied to passenger flows, and bring attention to development projects involving the Adriatic area between Italy and Croatia.

The invited speakers are both experts within the project partnership and external professionals, all of them own renowned experience in the field they present.

The session, held in English as official language of the project, is free and accessible remotely via webinar.





Link to the Program:

https://step-up.training/wp-content/uploads/2019/07/Program.pdf



STEP-UP Second Training Sessions

NEW SCENARIES ON MULTIMODAL MOBILITY

INFOMOBILITY FOR SUSTAINABLE PASSENGERS' FLOW BETWEEN ITALY AND CROATIA

Webinar

 10:30 - 11:00
 The role of Mobility as a Service Daniela Vasari, Project manager, solution designer in ITS projects and International cooperation, Pluservice, Technical Assistance of Marche Region (STEP-UP project Lead Partner)

 11:00 - 11:30
 The economics of electric vehicles Romeo Danielis, Department of Economics, Business, Mathematics and Statistics, University of Trieste

 11:30 - 12:00
 ICT tool in use at the Port of Trieste: the Port Community System Sinfomar Valentina Boschian, Port Network Authority of the Eastern Adriatic Sea

 12:30 - 13:00
 How to use GTFS Giorgia Fanesi, Software analyst and project manager, Pluservice, Technical Assistance of Marche Region (STEP-UP project Lead Partner)

 13:00 - 13:30
 ManS Business Models Andrea Molinaro, Consultant at Studio Peloso & Associati - expert in design thinking, business organization and subsidized finance

YouTube channel: Project Step-Up link to Web Page: www.step-up.training e-mail: info@step-up.training link to questionnaire: https://step-up.training/questionnaire/



6.2.1 Links to speaker's presentation, II Training Session

Each involved speaker is presented on the page dedicated to the training session in which he participated. For each of them it is proposed a photo, the description of the role held, a brief biography, a link to the PDF containing the lecturer presentation (fully available in the related Deliverable) with a link to the video of the presentation (on the official YouTube channel).

6.2.1.1 The role of Mobility as a Service [Daniela Vasari]



DANIELA VASARI

Project monoger, solution designer in ITS projects and International cooperation, Pluservice, Technical Assistance of Marche Region (STEP-UP project Lead Partner)

"The role of Mobility as a Service"

Abstract

An overview on Mobility as a Service

Short bio

Daniela Vasari graduated in Computer Engineering, in March 2009. She works in PluService since 2009 as Solution Designer for ITS in Passenger Transportation and since 2014 as Senior Project Manager.

She is involved in EU-International-National projects on topics such as Demand Responsive Transport, Multi-modal Traveller Information Systems, Automatic Vehicle Monitoring systems.

She is the Project Manager of several European funded projects.





Link to presentation's PDF:

https://step-up.training/wp-content/uploads/2019/07/The-role-of-Mobility-as-a-Service_2nd_TS.pdf

Link to registration of the presentation on You tube channel: https://www.youtube.com/watch?v=FtibHZDoMFM

6.2.1.2 The economics of electric vehicles [Romeo Danielis]



ROMEO DANIELIS

Department of Economics, Business, Mathematics and Statistics, University of Trieste

"The economics of electric vehicles"

Abstract

The presentation discusses the economics of electric vehicles. I will anwer the following questions: Why do we need for Evs? Are EVs technologically feasible? Is there an economic case for EVs? Which EVs are available and for which transport modes? Is it possible to decarbonise transport?

Short blo

Romeo Danielis is full professor of Economics at the University of Trieste. He teaches Industrial Economics, Transport Economics and Logistics, and Market and Business Economics.





Link to presentation's PDF:

https://step-up.training/wp-content/uploads/2019/07/Presentazione-Danielis-18.6.2019.pdf

Link to registration of the presentation on You tube channel: https://www.youtube.com/watch?v=E_4vX7wXKbc

6.2.1.3 ICT tool in use at the Port of Trieste: the Port Community System Sinfomar [Valentina Boschian]



VALENTINA BOSCHIAN

Port Network Authority of the Eastern Adriatic Sea

"ICT tool in use at the Port of Trieste: the Port Community System Sinfomar"

Abstract

Sinfomar is the name of the PCS implemented since 2014 and currently in use at the Port of Trieste. It is an on-line platform designed for the management of administrative, tax and customs procedures in compliance with the specificities regarding the Port Authority logistics chain. Indeed, during the design phase of the Sinfomar, the distinctive legislative nature of the Port of Trieste international free zones areas was taken into consideration in all its regulatory peculiarities. The leading stakeholder is the Port Network Authority of the Eastern Adriatic Sea – Port of Trieste. The development project of Sinfomar involved the entire local and regional maritime industry stakeholders. In particular, having regard to public actors, the following main stakeholders were involved: Harbor Masters, Customs Agency, Finance Police and Maritime Health Authority. Considering the private operators, the following main stakeholders were involved: shipping agents, terminal operators, freight forwarders and inland terminal operators.

From the architecture perspective, the 'Sinfomar' is structured in modules and sub-modules based on code languages and international Open Source standards. In particular, technologies related to web-services use XML. The software is constantly under development in order to guarantee the full adaptation of its functionalities/features to the dynamics of constant change related to the global international maritime transport domain as well as its capability to elaborate the increasing volumes of data associated with the Port of Trieste traffic growth rates. Indeed, the constant commitment in ensuring the adaptation capability of the 'Sinfomar' Is one of the main objectives of the Port Authority, as to ensure the system compliance with the relevant national and EU applicable rules and international standards.

Short bio

Dott. Ing. Valentina Boschian Ph.D. works at the Port Network Authority of the Eastern Adriatic Sea – Port of Trieste, in the Digital Port Area. Since 2008, her expertise is focused on consultancy activities related to the analysis of ICT impact on new business cases, mainly in the field of transport and logistics. After obtaining a degree in Management Engineering and a PhD in Computer Science Engineering, she worked as a project manager in several international research projects. She is also expert in business model innovation.





Link to presentation's PDF:

https://step-up.training/wp-content/uploads/2019/07/BOSCHIAN STEP-UP webinar ICT.pdf

Link to registration of the presentation on You tube channel: <u>https://www.youtube.com/watch?v=b0oKhY5Oryk</u>

6.2.1.4 How to use GTFS [Giorgia Fanesi]



GIORGIA FANESI

Software analyst and project manager, Pluservice, Technical Assistance of Marche Region (STEP-UP project Lead Partner)

"Intermodality for a seamless solution"

Abstract

The presentation is focused on the importance of the Mobility Data to feed travel planner systems with particular attention to the GTFS format.

During the presentation it will be explained what a GTFS is, the structure of the GTFS and how it is possible to create a GTFS based on the dependency through the files txt.





Link to presentation's PDF:

https://step-up.training/wp-content/uploads/2019/06/6_Fanesi_Intermodality-for-a-seamlesssolution.pdf

Link to registration of the presentation on You tube channel: https://www.youtube.com/watch?v=utK6EF-DhTQ

6.2.1.5 MaaS Business Models [Andrea Molinaro]



ANDREA MOLINARO

Consultant at Studio Pelaso & Associati – expert in design thinking, business organization and subsidized finance

"MaaS Business Model"

Abstract

With this webinar we want to transfer to you specific and clear concepts about business analysis and we will describe strategic tools that we really use working with our clients. Everyday! We will define business model meaning, and then we will talk about design thinking approach for the develop of business models: in particular we will describe the Business Model Canvas method. In the end part we will apply the theory of business model into the world of Mobility as a Service (M.a.a.S.).

Short bio

Degree in economics and business at the at the University of Udine.

Senior consultant expert in design thinking techniques, analysis of business models, sales area development plans and business organization.

Senior funding and grant consultant for R & D and Innovation projects.

Has been collaborating for 10 years with the Studio Peloso & Associati.





Link to presentation's PDF:

https://step-up.training/wp-content/uploads/2019/07/MaaS-Business-Models.pdf

Link to registration of the presentation on You tube channel: https://www.youtube.com/watch?v=VW3xqtWT-Ec

6.3 Didactic materials III Training Session

For the Third Training Session all the relevant material is available at the following link:

https://step-up.training/training-session-iii/

STEP-UP: TRAINING SESSION III NEW SCENARIES ON MULTIMODAL MOBILITY INFOMOBILITY FOR SUSTAINABLE PASSENGERS' FLOW BETWEEN ITALY AND CROATIA

The third and last Training Session wants to be an open and dynamic appointment with citizens, to tell the aims of the STEP-UP project and to explore some new mobility scenarios: MaaS (Mobility as a Service), Electro-mobility, Info-mobility, EUSAIR Pillars and Sustainable Tourism, ICT Tools for Tourism and E-Planning Platforms.

The invited speakers are both experts within the project partnership and external professionals, all of them own renowned experience in the field they present. The session, held in English as official language of the project, is free and accessible remately via webinar.



BARTOLOMEO SILVESTRI

PhD student and research fellow in the Polytechnic University of Bari, Italy

"Electric Vehicles (EVs), Sharing System, Reallocation and Balancing of sharing EVs within a city through an incentive system"

Abstract

The presentation shows new mobility technologies and concepts to improve the citizen life in the urban area. Moreover an innovative approach with incentive scheme in a sharing system with Electric Vehicles (EVs) is presented.

Transport externalities are more relevant in urban areas because there are more vehicles and more people. New technologies in mobility sector allow reducing these negative impacts.

Sharing system with EVs is a valid alternative to the current concept of urban mobility with private vehicles. The reallocation task, strongly affects the company operating cost, and consequently the service price for users. An incentive scheme is proposed to involve users in the reallocation with a dual purpose: reduce the reallocation cost and increase user loyalty.

Short blo

Bartolomeo Silvestri is a third-year PhD student and research fellow in the Polytechnic University of Bari, Italy. His doctoral research investigates sustainable transport in smart cities, both for the mobility of people and for the last mile logistics. He is focusing on EVs, ELVs and new mobility concepts such as Mobility as a Service, sharing system and innovative approach to engage users. He analyzes also the transport externalities, especially in urban area and energy consumption with the use of EVs as storage in a smart city. He co-authored of several scientific papers in international conference and journal. He holds a master's degree in Management Engineering with specialization in environmental management of companies, from Polytechnic University of Bari, Italy, with a thesis on the optimization of the plants configuration for recovery and treatment of solid urban waste in metropolitan Bari area. He holds a degree in Management Engineering from Polytechnic University of Bari, Italy, with a thesis on the optimization of the train seller point in Apulia region.

Link to presentation: https://step-up.training/wp-content/uploads/2020/01/STEP-UP_Silvestri.pdf



VANJA LIPOVAC

Consultant for EU Projects, Zadar Airport (STEP-UP project Partner)

"Participatory governance as a model for urban mobility planning"

Abstract

The presentation will be a short introduction to participatory governance model, exemplified with an EU project REMEDIO that used this approach to tackle Split city urban mobility issues. The presentation will focus on relevance of participatory governance and why can it be beneficial to stakeholders as well as the public, stakeholder distribution and characteristics and some approaches how to develop participatory governance in practice. Finally, a showcase of REMEDIO methodology and achievements will be discussed.

Short bio

Vanja Lipovac has master degree in cultural sociology (2015). Shortly after, he started an internship in Zadar County department for EU projects and development, where he participated on preparation and implementation of several national and international EU projects. After finishing a year of internship he started working as a project manager for "Foster children rights" project, financed from European social funds. After the project ended, he started working as a consultant for EU project for Driope. He is mostly focused on projects regarding urban mobility, intermodality, info-mobility and sustainable development.

Link to presentation:

https://step-up.training/wp-content/uploads/2019/10/Participatory-governance-as-a-model-for-urbanmobility-planning-1.pdf



ALESSANDRO RINALDI

Research fellow and research doctor at the Department of Electrical and Information Engineering (DEI) of the Polytechnic of Bari.

"ICT tools for a more efficient and sustainable e-mobility model"

Abstract

With reference to the specific topic on "European Project on mobility and sustainable tourism", the work shows how ICT tools can allow and assist the transition towards smart and sustainable mobility. In this context, the ICT tools and services developed within the European project H2020 ELVITEN (GA nr. 769926) are described. In particular, the ICT tools are described, including the search service and the booking service for vehicles and charging stations, the ICT platform for monitoring the fleet of electric vehicles, the serious game app and a smart app for incentives. These tools were suitable and indispensable to incentivize and encourage users towards a new mobility that is electric and sustainable.

Short bio

Experience and expertise in the specific disciplinary area of IICAR 10 with particular regard to the issues of energy efficiency and sustainability of buildings, also demonstrated through active participation in national and international conferences, as well as constant scientific production with contributions to international journals.Dottorato (Ph.D.) in Information Technology Engineering, University of Trieste (2012)

Link to presentation:

https://step-up.training/wp-content/uploads/2019/10/ICT-tools-for-a-more-efficient-and-sustainable-emobility-model-1.pdf



LUCA LUCIETTI

Civil engineer expert in mobility and transport currently in service at Roma Capitale

"Sustainable transport and SUMPs"

Abstract:

A Sustainable Urban Mobility Plan (SUMP) is a strategic plan designed to satisfy the mobility needs of people and businesses in cities and their surroundings for a better quality of life, on a long term vision. The policies and measures defined in a SUMP cover all modes and forms of transport in the entire urban agglomeration, including public and private, passenger and freight, motorised and non-motorised, moving and parking. A SUMP grows on the principles of integration, participation, and evaluation principles following a transparent and participatory approach.

Participatory planning is a prerequisite for citizens and stakeholders to take ownership of the SUMP and the policies it promotes. It makes public acceptance and support more likely and thus minimises risks for decision-makers and facilitates the plan implementation.

The presentation explores the importance of SUMPs and the integration of new transport technologies in the development of transport effectiveness and efficiency, and the role of these factors in the achievement of the sustainability policy targets set by the EU.

Short bio:

Luca Lucietti – Graduated in Civil Engineering (Transport) in 2001 at the University of Rome La Sapienza. He worked from March 2002 up to June 2019 in FIT Consulting srl, an Italian independent SME, where he held the role of Project Manoger several projects. FIT built up remarkable national and international experience in research & innovation, demonstration and supporting action projects in mability of people and goods. He carried out feasibility studies in the urban logistics sector for the cities of Padua, Ferrara, Parma, Frosinone and Prato. He provided technical support for the SUMP elaboration for the cities of Piacenza, Parma, Trieste and Verana, with specific focus on the reorganization of the urban goods distribution. He has lectured and trained on logistics issues in the Link University of Rome's master of sustainable mability and logistics. He works in the Municipality of Rome (Roma Capitale) since July 1st 2019.

Link to presentation:

https://step-up.training/wp-content/uploads/2019/10/Sustainable-transportSUMPs.pdf



PETRA GRGASOVIĆ

a director of Erkon Ltd, an independent expert in fields of urban mobility and integrated urban development, also active as an ad-hoc URBACT expert Airport (STEP-UP project Partner)

"Planning mobility to support sustainable rural tourism"

Abstract

Objectives of the training are:

- to establish a clear connection between tourism and transport system development
- · to identify the impacts of tourist mobility on destination points and their surroundings
- to learn about challenges and optimal approaches to tourist mobility management, with a focus on the development and preservation of life in rural areas
- to explore existing solutions and approaches to mobility planning as tools to support overall local and regional development in line with the sustainability objectives

The training aims to help all individuals and entities which participate in tourism or mobility planning, regardless of the level of their engagement on the topics in question (local and regional administration engaged in strategic planning processes, key private and public stakeholders of local and regional transport systems, parties involved in sustainable tourism development, professionals and researchers in fields of transport, mobility, tourism, integrated regional, urban or rural development). Taking the defined training objectives and target groups into consideration, the structure of the training is the following:

- PART 1 Tourism and mobility: two sides of the same coin
- · PART 2 The role of mobility management in rural tourism
- PART 3 Existing approaches and solutions related to (rural) tourist mobility.

These parts are designed to guide the listener from the more general issues related to tourism and its dependency on transport, towards specific challenges and solutions related to mobility management that has the potential to support sustainable tourism (and life) in rural areas. Some examples of the already undertaken initiatives are also presented.

Short blo

Petra Grgasovic is a director of Erkon Ltd and an independent expert in fields of urban mobility and integrated urban development, also active as an ad-hoc URBACT expert. During the last decade she has been working both in public and private sector, mostly on project evaluation, development and implementation, strategic planning and policy analysis. Petra is currently a PhD student in field of Geography, already holding a Master's degree in Architecture and Urban Planning and a specialisation in Eco – engineering.

Link to presentation:

https://step-up.training/wp-content/uploads/2020/01/STEP-UP_IIITS_Grgasovic.pdf

7. Overall assessment, evaluations and conclusions

The main aim of WP5 - Creation of new job profiles, professional training and business model development, was to ensure transferability and durability through two main activities, Act. 5.1 and 5.2.

In this document, we concentrated on Activity 5.1 – Training Activities, whose expected outputs, deliverables and activities have been fully achieved.

We have taken into account barriers encountered in previous projects: very limited knowledge of these subjects and on how to deal with them slowed the progress and made it prone to errors. For this reason, we stressed the importance of creating a common ground knowledge for all the PPs and making available to all the partnership the knowledge already owned by singular PPs.

As expected outputs for Activity WP5.1 (Training Activities) we produced three training sessions, which have been recorded and made available on the project's YouTube channel and our training sessions' webpage (www.step-up.training). On this webpage we uploaded didactic material, to help anyone interested in improving his/her knowledge about multi-modal passengers' mobility.

Thanks to a careful selection of the lecturers, the topics, the modalities for the sessions, and also given the positive feedback collected after each training session, we can say that the goal of educating on mobility and travel planner aspects, and on collecting, sharing and managing transport data has been fully achieved. Moreover, the webpage created and the links to the official YouTube channel will make it easier for partners and interested stakeholders to reach the didactic materials, fostering the formation of new professional figures and the professional growth of the already existing ones.