

Target 8 Joint SECAP plans

Final Version 30/04/ 2021

Deliverable Number 4.3

Output 2.102

Plans of adaptation measures put in place

ANNEX I - Joint Actions Repertoire
Part A



ANNEX I: Joint Actions Repertoire

[PP1] IRENA - Istrian Regional Energy Agency

Actions HOME

Actions

ⓘ Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)
 ⓘ For the actions your local authority considered as "key actions" - fill in the dedicated "key action" tab.

1) Type of action Mitigation Adaptation Energy poverty ⓘ Only in combination with "Mitigation" and/or "Adaptation" actions

2) Title of the action

3) Origin of the action

4) Responsible body

5) Short description ⓘ 891 characters left

6) Implementation timeframe

7) Implementation status

8) Stakeholders involved ⓘ For multiple choice, insert additional rows as needed

9) Stakeholders involved ⓘ For multiple choice, insert additional rows as needed

Additional comments

9) Total implementation costs €

Source of funding

Investment costs: €

Non-investment costs: €

A. Mitigation

ⓘ Only for actions addressing mitigation. Click on the [-+] buttons on the left to expand or collapse

10) Sector ⓘ To be filled in only for the concerned sector

Tool / Area of intervention	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/Cool Production	Other
Policy instrument	<input type="text" value="drop-down"/>	<input type="text" value="drop-down"/>	<input type="text" value="drop-down"/>	<input type="text" value="drop-down"/>	<input type="text" value="drop-down"/>	<input type="text" value="drop-down"/>	<input type="text" value="drop-down"/>

11) Estimated impacts

Energy savings: MWh/a

Renewable energy production: MWh/a

CO₂ reduction: t CO₂/a

12) Vulnerable population group(s) targeted ⓘ For multiple choice, insert additional rows as needed

13) Financial savings €

14) Life expectancy of the action years

15) Return on investment %

16) Jobs created full-time equivalent

17) Other figures (Please specify) (numerical value) (Unit)

B. Adaptation

ⓘ Only for actions addressing adaptation. Click on the [-+] buttons on the left to expand or collapse

18) Climate hazard(s) addressed ⓘ For multiple choice, insert additional rows as needed

19) Sector(s) addressed ⓘ For multiple choice, insert additional rows as needed

20) Outcome(s) reached

Description: ⓘ 863 characters left

Related indicator	Value	Unit
Irrigation rate	0	%

21) Vulnerable population group(s) targeted ⓘ For multiple choice, insert additional rows as needed

22) Avoided cost €

23) Life expectancy of the action years

24) Return on investment %

25) Jobs created full-time equivalent

26) Other figures (Please specify) (numerical value) (Unit)

C. Energy poverty

ⓘ Only for actions addressing energy poverty. Click on the [-+] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted ⓘ For multiple choice, insert additional rows as needed

28) Outcome(s) reached

Description: ⓘ 1000 characters left

Related indicator	Value	Unit
<input type="text" value="Please specify"/>	<input type="text" value="numerical value"/>	<input type="text" value="Unit"/>

Further information

30) Weblink

31) Video link

32) Picture

Actions HOME

Actions

Ⓜ Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)
 Ⓜ For the actions your local authority considered as "key actions" - Ⓜ In the dedicated "key action" tab.

1) Type of action Mitigation Adaptation Energy poverty Ⓜ Only in combination with "Mitigation" and/or "Adaptation" actions

2) Title of the action **Joint Action: Preparation of the unique Marketing plan for tourism development of the NW Istra cluster**

3) Origin of the action **Local authority**

4) Responsible body **Municipalities**

5) Short description **Number of Municipalities involved: 3 Total number of Municipalities of the target area: 3
All the municipalities join this action because the Marketing Plan refers to the entire cluster. The action has the goal to improve the touristic offer as well as to promote the whole area as a unique touristic destination.** 879 characters left

6) Implementation timeframe **Start: 2021 End: 2022**

7) Implementation status **Ongoing**

8) Stakeholders involved **Sub-national governments(s) and/or agency(ies) Business & private sector** Ⓜ For multiple choice, insert additional rows as needed

Additional comments **The stakeholders were involved thanks to a specifically designed focus group meeting organized and managed by the "Joint Action Coordinator for Climate and Energy" and the external consultant. The role of stakeholders was to present the status of each relevant sector, strengths and weaknesses, issues encountered so far and further challenges as well as their views on possible solutions to improve the situation. Climate change adaptation measures proposed were evaluated according to predefined criteria and discussed in full agreement.**

9) Total implementation costs **unknown** €
 Source of funding: **Local authority's own resources** €
EU funds and programmes €
 Investment costs: **unknown** €
 Non-investment costs: **unknown** €

A. Mitigation

Ⓜ Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector **[Drop-down]** Ⓜ To be filled in only for the concerned sector

Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

11) Estimated impacts **Energy savings: [] MWh/a
Renewable energy production: [] MWh/a
CO₂ reduction: [] t CO₂a**

12) Vulnerable population group(s) targeted **[Drop-down]** Ⓜ For multiple choice, insert additional rows as needed

13) Financial savings **[]** €

14) Life expectancy of the action **[]** years

15) Return on Investment **[]** %

16) Jobs created **[]** full-time equivalent

17) Other figures **[Please specify]** **[numerical value]** **[Unit]**

B. Adaptation

Ⓜ Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed **Extreme heat Extreme cold Heavy precipitation Storms** Ⓜ For multiple choice, insert additional rows as needed

19) Sector(s) **Tourism** Ⓜ For multiple choice, insert additional rows as needed

20) Outcome(s) reached **Description: This action has the following outcomes: unique Marketing Plan developed and improved touristic offer. This is expected to be reached thanks to Action's joint implementation.** 827 characters left
Related indicator: Marketing Plan 1

21) Vulnerable population group(s) targeted **All** Ⓜ For multiple choice, insert additional rows as needed

22) Avoided cost **[]** €

23) Life expectancy of the action **10** years

24) Return on Investment **[]** %

25) Jobs created **[]** full-time equivalent

26) Other figures **[Please specify]** **[numerical value]** **[Unit]**

C. Energy poverty

Ⓜ Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted **[Drop-down]** Ⓜ For multiple choice, insert additional rows as needed

28) Outcome(s) reached **Description: []** 1000 characters left
Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink **www. []**

31) Video link **www. []**

32) Picture **[upload]**

Actions HOME

Actions

① Copy as many "action" tabs as necessary (**minimum 3 mitigation actions and 3 adaptation actions**)
 ② For the actions your local authority considered as "key actions" - fill in the dedicated "key action" tab.

1) Type of action

Mitigation
 Adaptation
 Energy poverty ① Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: **Joint Action: Education of employees in tourism sector**

3) Origin of the action: **Local authority**

4) Responsible body: **Tourist boards**

5) Short description: **Number of Municipalities involved: 3 Total number of Municipalities of the target area: 3
 All the municipalities join this action in order to increase the cost-effectiveness of the adaptation measure itself, simultaneously connecting and coordinating tourism sectors of each area. The action has the goal to increase the tourism sector capacities ie increase knowledge among sector employees in order to increase climate change resilience.** 553 characters left

6) Implementation timeframe: **Start: 2021 End: 2030**

7) Implementation status: **Ongoing**

8) Stakeholders involved: **Business & private sector** ① For multiple choice, insert additional rows as needed
Sub-national governments(s) and/or agency(ies)

Additional comments: **The stakeholders were involved thanks to a specifically designed focus group meeting organized and managed by the Joint Action Coordinator for Climate and Energy and the external consultant. The rest of stakeholders was to present the status of each relevant sector, strengths and weaknesses, issues encountered so far and further challenges as well as their views on possible solutions to improve the situation. Climate change adaptation measures proposed were evaluated according to predefined criteria and discussed to full agreement.**

9) Total implementation costs: **unknown** €
 Source of funding: **Regional funds and programmes**
Local authority's own resources
EU funds and programmes
 Investment costs: **unknown** €
 Non-investment costs: **unknown** €

A. Mitigation

① Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

10) Sector: **[Drop-down]**

Tax / Area of Intervention	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Policy instrument:	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

① To be filled in only for the concerned sector

11) Estimated impacts: **Energy savings: [] MWh/a**
Renewable energy production: [] MWh/a
CO₂ reduction: [] t CO₂a

12) Vulnerable population group(s) targeted: **[Drop-down]** ① For multiple choice, insert additional rows as needed

13) Financial savings: **[] €**

14) Life expectancy of the action: **[] years**

15) Return on investment: **[] %**

16) Jobs created: **[] full-time equivalent**

17) Other figures: **[Please specify] [numerical value] [Unit]**

B. Adaptation

① Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: **Extreme heat** ① For multiple choice, insert additional rows as needed
Heavy precipitation

19) Sector(s): **Tourism** ① For multiple choice, insert additional rows as needed

20) Outcome(s) reached: **Description: This action has the following outcomes: increased capacities of tourism sector in climate change issues. These are expected to be reached thanks to action's full implementation.** 553 characters left
Related indicator: at least one workshop/training per year

21) Vulnerable population group(s) targeted: **All** ① For multiple choice, insert additional rows as needed

22) Avoided cost: **[] €**

23) Life expectancy of the action: **10 years**

24) Return on investment: **[] %**

25) Jobs created: **[] full-time equivalent**

26) Other figures: **[Please specify] [numerical value] [Unit]**

C. Energy poverty

① Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: **[Drop-down]** ① For multiple choice, insert additional rows as needed

28) Outcome(s) reached: **Description: []** 1000 characters left
Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink: **www.**

31) Video link: **www.**

32) Picture: **[Upload]**

[PP2] Municipality of San Benedetto Del Tronto

Actions
HOME

Actions

1) Type of action	<input type="checkbox"/> Mitigation <input checked="" type="checkbox"/> Adaptation <input type="checkbox"/> Energy poverty <p style="font-size: 0.8em; margin-top: 5px;">Ⓜ Only in combination with 'Mitigation' and/or 'Adaptation' actions</p>								
2) Title of the action	Individual action - A-ACQ-01 - Retrofit of the sewage system								
3) Origin of the action	Other								
4) Responsible body	Water service managing body (CIP SpA), Municipality								
5) Short description	<p style="font-size: 0.8em; margin: 0;">Given the shortcomings in the sewerage observed in the 4 municipalities (dysfunctionalities in some piece of the infrastructure and malfunctions of the drainage system), the sectorial planning tools provide for the implementation of structural measures on the existing network:</p> <ul style="list-style-type: none"> - Adaptation of sewer schemes and renovation of damaged, obsolete or insufficient pipelines; - Adaptation of flood spillways through the construction of first rain basins at the mouths of rivers, bathing water and drinking water catchments; - Separation of the sewer networks with consequent progressive elimination of the flood spillways present in the mixed sewers. For the details of the interventions it is necessary to refer to the 2016-2032 programming documents of the water services managing body. Some works have already been carried out: pumping systems have been installed on some road underpasses, their effectiveness will be evaluated in the medium term. Moreover the water service managing body is working on the modeling of the sewage system, aimed at identifying the critical spillways and planning targeted interventions such as additional treatment systems, reactivation of the lifting systems, maintenance of road drains. <p style="text-align: right; font-size: 0.8em; margin: 0;">219 characters left</p>								
6) Implementation timeframe	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <tr><td style="width: 50%; text-align: center;">Start</td><td style="width: 50%; text-align: center;">2010</td></tr> <tr><td style="text-align: center;">End</td><td style="text-align: center;">2031</td></tr> </table>	Start	2010	End	2031				
Start	2010								
End	2031								
7) Implementation status	Ongoing								
8) Stakeholders involved	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <tr><td style="width: 80%;">Sub-national governments(s) and/or agency(ies)</td><td style="width: 20%; font-size: 0.7em;">Ⓜ For multiple choice, insert additional rows as needed</td></tr> </table> <p style="font-size: 0.8em; margin-top: 5px;">Additional comments</p> <div style="border: 1px solid #ccc; height: 20px; width: 100%;"></div>	Sub-national governments(s) and/or agency(ies)	Ⓜ For multiple choice, insert additional rows as needed						
Sub-national governments(s) and/or agency(ies)	Ⓜ For multiple choice, insert additional rows as needed								
9) Total implementation costs	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <tr><td style="width: 80%;">unknown</td><td style="width: 20%; text-align: right;">€</td></tr> <tr><td>Source of funding: Regional funds and programmes</td><td></td></tr> <tr><td>Investment costs:</td><td style="text-align: right;">€</td></tr> <tr><td>Non-investment costs:</td><td style="text-align: right;">€</td></tr> </table>	unknown	€	Source of funding: Regional funds and programmes		Investment costs:	€	Non-investment costs:	€
unknown	€								
Source of funding: Regional funds and programmes									
Investment costs:	€								
Non-investment costs:	€								

A. Mitigation

Ⓜ Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

B. Adaptation

Ⓜ Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed	Heavy precipitation	Ⓜ For multiple choice, insert additional rows as needed			
19) Sector(s)	Water	Ⓜ For multiple choice, insert additional rows as needed			
20) Outcome(s) reached	<p style="font-size: 0.8em; margin: 0;">Description: Reduction in the number of localized flooding events and in the occurrence of release of untreated wastewater in river and coastal waters during particularly intense meteoric events.</p> <p style="font-size: 0.8em; margin: 0;">Related indicator: Number, type and extent of interventions carried out</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.7em;"> <tr> <td style="width: 60%;"></td> <td style="width: 20%; text-align: center;">[numerical value]</td> <td style="width: 20%; text-align: center;">[Unit]</td> </tr> </table> <p style="text-align: right; font-size: 0.8em; margin: 0;">818 characters left</p>			[numerical value]	[Unit]
	[numerical value]	[Unit]			
21) Vulnerable population group(s) targeted	All				
22) Avoided cost	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <tr><td style="width: 80%;"></td><td style="width: 20%; text-align: right;">€</td></tr> </table>			€	
	€				
23) Life expectancy of the action	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <tr><td style="width: 80%;"></td><td style="width: 20%; text-align: right;">years</td></tr> </table>			years	
	years				
24) Return on Investment	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <tr><td style="width: 80%;"></td><td style="width: 20%; text-align: right;">%</td></tr> </table>			%	
	%				
25) Jobs created	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <tr><td style="width: 80%;"></td><td style="width: 20%; text-align: right;">full-time equivalent</td></tr> </table>			full-time equivalent	
	full-time equivalent				
26) Other figures	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <tr> <td style="width: 60%;">[Please specify]</td> <td style="width: 20%; text-align: center;">[numerical value]</td> <td style="width: 20%; text-align: center;">[Unit]</td> </tr> </table>		[Please specify]	[numerical value]	[Unit]
[Please specify]	[numerical value]	[Unit]			

C. Energy poverty

Ⓜ Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

Further information

30) Weblink	
31) Video link	
32) Picture	[upload]

HOME

Actions

Copy as many "action" tabs as necessary (**minimum 3 mitigation actions and 3 adaptation actions**)
 For the actions your local authority considered as "key actions" - fill in the dedicated "key action" tab.

1) Type of act: Mitigation, Adaptation, Energy poverty ⓘ Only in combination with "Mitigation" and/or "Adaptation" actions

2) Title: **Joint action - A-AGRI-02 - Resilient agriculture help desk**

3) On: **Local authority**

4) Ref: **Local Authorities**

5) Sh: **Support, information and training activities addressed to farmers and actors in the food and forestry sectors. Systematization and dissemination of knowledge and existing data on climate change in agriculture and on good practices for adaptation, through awareness-raising and communication actions aimed at increasing knowledge on adaptive capacities on the side of operators. Promotion of the progressive decrease in the use of substances extraneous to local natural processes (pesticides, herbicides, fertilizers, livestock sewage) for a better safeguard of biodiversity and crop integrity, and the creation of "green infrastructures" capable of mitigating the impacts caused from extreme atmospheric events (floods, riparian erosion, desertification). Support action targeted mainly to the farmers also to promote investments, based on regional planning and European funds, for the implementation of impact reduction measures.** 88 characters left

6) Imp: **Start: 2021, End: 2025**

7) Imp: **Not started**

8) Sta: **Sub-national government(s) and/or agency(ies), Business & private sector** ⓘ For multiple choice, insert additional rows as needed

Additional comments:

9) Tot: **50000** €
 Source of funding: **Regional funds and programmes** €
 Investment costs: €
 Non-investment costs: €

A. Mitigation
ⓘ Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

B. Adaptation
ⓘ Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Clir: **Droughts and water scarcity, Extreme heat, Storms, Other** ⓘ For multiple choice, insert additional rows as needed

19) Sev: **Agriculture & forestry** ⓘ For multiple choice, insert additional rows as needed

20) Outcome(s) reached
 Description: **Promote the transition to a more sustainable and resilient agriculture to the effects of climate change. Increasing the knowledge of the operators in the sector.** 839 characters left

Related indicator	Expenditure (EUR) on dissemination activities	[numerical value]	euro
Number and type of subscribers to the service	[numerical value]	euro	
Number and type of participants in the events	[numerical value]	euro	
Number of communication and dissemination activities	[numerical value]	euro	
Number of policies taken out	[numerical value]	euro	
Agricultural area involved	[numerical value]	euro	

21) Vul: **Other** ⓘ For multiple choice, insert additional rows as needed

22) Avoided cost: €

23) Life: **5** years

24) Return on investment: %

25) Job: **2 persons** full-time equivalent

26) Oth: [numerical value] [Unit]

C. Energy poverty
ⓘ Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vul: **[Drop-down]** ⓘ For multiple choice, insert additional rows as needed

28) Outcome(s) reached
 Description: 1000 characters left
 Related indicator: [numerical value] [Unit]

Further information

30) We:

31) Vid:

32) Pic:

Actions HOME

Actions

📄 Copy as many "action" tabs as necessary (**minimum 3 mitigation actions and 3 adaptation actions**)

📄 For the actions your local authority considered as "key actions" - fill in the dedicated "key action" tab.

1) Type of action

Mitigation
 Adaptation
 Energy poverty
 📄 Only in combination with "Mitigation" and/or "Adaptation" actions

2) Title of the action: **Joint action - A-TUR-01 - TOURISM ALL YEAR LONG**

3) Origin of the action: **Local authority**

4) Responsible body: _____

5) Short description

Currently the tourist sector of the municipalities is mainly of the seaside type, with touristic presences concentrated in some particularly crowded months, which coincide with the period of less climatic comfort. For this reason, a sovralocal strategy is needed to seasonally adjust attendance and promote integrated itineraries together with other entities in the area, like the inland settlements. Therefore, a new form of tourism linked to principles of sustainability and responsibility will be promoted, such as the active conservation of natural and cultural heritage, the involvement of local communities, and alongside traditional tourist products (seaside tourism) complementary proposals will be developed (for example experiential tourism, wellness tourism, food and wine, sports, naturalistic, cultural tourism, etc.). It is therefore planned to implement these actions by promoting a permanent "work table on tourism" of inter-municipal interest.

41 characters left

6) Implementation timeframe

Start: **2021**
End: **2031**

7) Implementation status: **Not started**

8) Stakeholders involved: **Business & private sector** 📄 For multiple choice, insert additional rows as needed

Additional comments

9) Total implementation costs

unknown €
Source of funding: Regional funds and programmes €
Investment costs: €
Non-investment costs: €

A. Mitigation

📄 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

B. Adaptation

📄 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed

Extreme heat 📄 For multiple choice, insert additional rows as needed
 Droughts and water scarcity
 Floods and sea level rise
 Heavy precipitation
 Other

19) Sector(s): **Tourism** 📄 For multiple choice, insert additional rows as needed

20) Outcome(s) reached

Description: **Coordination of public and private entities involved in tourism policies. De-seasonalization of tourism and expansion of the offer in an inter-municipal logic.** 841 characters left

Related indicator	Value	Unit
Number of training and information events carried out	[numerical value]	[Unit]
Number of participants in training / information events	[numerical value]	[Unit]
Variation in the number of seasonally adjusted tourism initial	[numerical value]	[Unit]
Variation in the number of arrivals and presences outside the	[numerical value]	[Unit]

21) Vulnerable population group(s) targeted: **Other** 📄 For multiple choice, insert additional rows as needed

22) Avoided cost: _____ €

23) Life expectancy of the action: _____ years

24) Return on investment: _____ %

25) Jobs created: _____ full-time equivalent

26) Other figures

[Please specify] [numerical value] [Unit]

C. Energy poverty

📄 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: **[Drop-down]** 📄 For multiple choice, insert additional rows as needed

28) Outcome(s) reached

Description: _____ 800 characters left

Related indicator	Value	Unit
[Please specify]	[numerical value]	[Unit]

Further information

30) Weblink: **www.**

31) Video link: **www.**

32) Picture: **[upload]**

Actions HOME

Actions

📄 Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)
 📄 For the actions your local authority considered as "key actions" - fill in the dedicated "key action" tab.

1) Type of action

Mitigation
 Adaptation
 Energy poverty

📄 Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: **joint action A-EME-01 - Optimization of the Civil Protection system**

3) Origin of the action: **Local authority**

4) Responsible body: **[Empty field]**

5) Short description

Il Sistema di Protezione Civile fa riferimento all'omologo Piano ovvero all'insieme delle procedure operative di intervento per fronteggiare una qualsiasi calamità attesa in un determinato territorio. L'efficacia del sistema, dunque, è strettamente connessa all'aggiornamento e alla completezza dei Piani di Emergenza e Protezione. Essi coordinano procedure, attività e mezzi necessari a fronteggiare un evento calamitoso atteso in un territorio, in modo da garantire l'effettivo ed immediato superamento dell'emergenza connessa nello specifico agli effetti dei cambiamenti climatici, e il ritorno alle normali condizioni. I comuni dell'area hanno quattro Piani Comunali di Emergenza approvati tra il 2013 e il 2018 (San Benedetto del Tronto 2018; Montegradone 2018; Grottammare 2014; Cupra Marittima 2013).
 L'azione prevede che essi possano essere aggiornati ed integrati, in una logica intercomunale, con la finalità di ottimizzare gli strumenti a disposizione (mezzi e personale), le strutture di presidio sanitario, i vigili del fuoco, gli operatori non sanitari, le procedure - con particolare riferimento alla gestione degli eventi climatici estremi.
 In particolare si prevede:
 -revisione e aggiornamento dei piani rispetto agli effetti dei cambiamenti climatici
 -definizione di protocolli sanitari specifici e forme di assistenza alternative al pronto soccorso con presidi diffusi sul territorio soprattutto nei mesi di maggiore carico insediativo

500 characters left

6) Implementation timeframe

Start: **2021**
 End: **2031**

7) Implementation status: **Ongoing**

8) Stakeholders involved

Sub-national government(s) and/or agencies: **[Empty field]** 📄 For multiple choice, insert additional rows as needed
 Citizens: **[Empty field]** 📄 For multiple choice, insert additional rows as needed

Additional comments: **[Empty field]**

9) Total implementation costs

unknown €
 Source of funding: **[Drop-down]** €
 Investment costs: **[Empty field]** €
 Non-investment costs: **[Empty field]** €

A. Mitigation
📄 Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

B. Adaptation
📄 Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed

Extreme heat 📄 For multiple choice, insert additional rows as needed
 Heavy precipitation
 Floods and sea level rise
 Droughts and water scarcity
 Storms
 Mass movement
 Wild fires

19) Sector(s): **Civil protection & emergency** 📄 For multiple choice, insert additional rows as needed

20) Outcome(s) reached

Description: **Miglioramento della risposta del sistema di protezione civile e primo soccorso. Ottimizzazione della collaborazione intercomunale.** 870 characters left

Related indicator	Numero di atti di aggiornamento dei piani di emergenza	[numerical value]	[Unit]
Related indicator	Protezione Civile	[numerical value]	[Unit]
Related indicator	Numero di aggiornamenti dei protocolli sanitari	[numerical value]	[Unit]
Related indicator	Numero di eventi formativi degli operatori coinvolti	[numerical value]	[Unit]

21) Vulnerable population group(s) targeted: **All** 📄 For multiple choice, insert additional rows as needed

22) Avoided cost: **unknown** €

23) Life expectancy of the action: **[Empty field]** years

24) Return on investment: **[Empty field]** %

25) Jobs created: **[Empty field]** full-time equivalent

26) Other figures: **[Please specify]** [numerical value] [Unit]

C. Energy poverty
📄 Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: **[Drop-down]** 📄 For multiple choice, insert additional rows as needed

28) Outcome(s) reached

Description: **[Empty field]** 8000 characters left

Related indicator	[Please specify]	[numerical value]	[Unit]
-------------------	------------------	-------------------	--------

Further information

30) Weblink: **www.**

31) Video link: **www.**

32) Picture: **[upload]**

Actions HOME

Actions

Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)
For the actions your local authority considered as "key actions" - fill in the dedicated "key action" tab.

1) Type of action

Mitigation
 Adaptation
 Energy poverty Only in combination with "Mitigation" and/or "Adaptation" actions

2) Title of the action: **joint action A-EME-02 - Improvement of the early warning systems**

3) Origin of the action: **Local authority**

4) Responsible body:

5) Short description

I sistemi di early warning (EW) offrono un contributo nella lotta ai cambiamenti climatici, in quanto strumenti che utilizzano sistemi integrati di comunicazione che possono supportare il processo di preparazione delle comunità ad eventi catastrofici legati al clima (UN-Climata Action). Per essere efficaci, i sistemi EW necessitano di coinvolgere attivamente le persone e le comunità esposte ai diversi fattori di rischio, favorire l'educazione pubblica e la consapevolezza dei rischi, diffondere messaggi e segnalazioni di allerta in modo efficiente, assicurare che ci sia un costante livello di preparazione e che sia possibile agire in modo tempestivo. Il sistema può attingere da sistemi ad ampia scala come il Copernicus (Copernicus EMS) che utilizza immagini satellitari e altri dati geospaziali offrendo informazioni utili per rispondere alle emergenze legate a vari tipi di disastri, compresi quelli connessi con il clima, oppure a sistemi a scale inferiori (regionale, nazionale, sub-nazionale e locale). Tra questi il sistema di allerta meteo della Regione Marche (AllertaMarche). Inoltre, il sistema può essere alimentato anche dal basso, coinvolgendo direttamente la popolazione, attraverso specifiche segnalazioni.

Le azioni previste sono le seguenti:
 -potenziamento delle strutture incaricate di diffondere l'allerta meteo e connessione con i sistemi di monitoraggio;
 -sviluppo di applicazioni mobile - integrate da strumenti telefonici per chi non ha accesso alla rete - che garantiscano la massima diffusione tra i cittadini.
 -installazione di totem o altre segnalazioni per l'allerta.

6) Implementation timeframe: **Start: 2021, End: 2031**

7) Implementation status: **Ongoing**

8) Stakeholders involved: **Sub-national government(s) and/or agency(ies), Citizens**

9) Total implementation costs: **unknown** €

A. Mitigation
Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

B. Adaptation
Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: **Extreme heat, Wild fires, Heavy precipitation, Floods and sea level rise, Storms, Mass movement**

19) Sector(s): **Civil protection & emergency**

20) Outcome(s) reached

Description: **Miglioramento della preparazione della popolazione agli eventi calamitosi. Riduzione delle vittime e dei danni a infrastrutture e abitazioni.**

Related indicator: **numero di sistemi regionali o sistemi di allarme in servizio** [numerical value] [Unit]

Related indicator: **numero di danni o altri esposti o segnalazione per allerta installati** [numerical value] [Unit]

21) Vulnerable population group(s) targeted: **All**

22) Avoided cost: **unknown** €

23) Life expectancy of the action: **years**

24) Return on Investment: **%**

25) Jobs created: **full-time equivalent**

26) Other figures: **[Please specify]** [numerical value] [Unit]

C. Energy poverty
Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: **[Drop-down]**

28) Outcome(s) reached

Description: **[Please specify]** [numerical value] [Unit]

Further information

30) Weblink: **www.**

31) Video link: **www.**

32) Picture: **[upload]**

Actions HOME

Actions

ⓘ Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)
 ⓘ For the actions your local authority considered as "key actions" - fill in the dedicated "key action" tab.

1) Type of action

Mitigation
 Adaptation
 Energy poverty

ⓘ Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: **joint action A-PIA-02 - Implementation of Green Infrastructure planning tools**

3) Origin of the action: **Local authority**

4) Responsible body: **[Empty field]**

5) Short description

In un contesto altamente urbanizzato come la costa marchigiana meridionale e la valle del Tronto, il sistema delle aree verdi gioca un ruolo determinante per migliorare la risposta del sistema insediativo agli stress e agli shock determinati dal cambiamento climatico. Operando in una prospettiva di adattamento per favorire il mantenimento dei servizi ecosistemici resi dalle aree verdi - in termini di regolazione del microclima, gestione dei deflussi, benessere della popolazione, stock di carbonio, mantenimento della biodiversità - è necessaria una visione progettuale unitaria capace di aumentare la quantità e qualità degli spazi verdi e favorire le connessioni ecologiche a scala locale e sovralocale, sia attraverso il coordinamento di piani e programmi esistenti, che attraverso strumenti urbanistici e gestionali innovativi.

Al fine di sistematizzare le conoscenze disponibili e definire modalità di intervento condivise, l'azione prevede innanzitutto che i 4 comuni intervengano in modo coordinato per l'aggiornamento degli strumenti di livello comunale già esistenti previsti (il Censimento o la Carta del verde e il Regolamento del verde, in alcuni casi disponibili solo a livello regionale) per dare loro maggiore efficacia, integrando questioni rilevanti ai fini dell'adattamento al cambiamento climatico in funzione di nuovi rischi e nuove necessità. Gli argomenti da aggiornare comprendono la costruzione di un sistema informativo del verde, i criteri per la selezione delle specie vegetali, la gestione dell'acqua, il monitoraggio, le procedure di manutenzione e i protocolli fitosanitari e sono trattate anche nelle linee guida nazionali sul verde urbano.

In secondo luogo, l'azione prevede di rafforzare la dimensione pianificatoria promuovendo la redazione di un Piano intercomunale di infrastrutturazione verde, che, in linea con i principi della Comunicazione della Commissione Europea sulle infrastrutture verdi del 2013 "Infrastrutture verdi - Rafforzare il capitale naturale in Europa":

- definisca una rete di aree naturali e seminaturali progettata e gestita in maniera da fornire un ampio spettro di servizi ecosistemici;
- approfondisca tipologie di intervento e relativi obiettivi, con particolare attenzione alla riduzione dell'isola di calore urbana, alla gestione dei deflussi in caso di precipitazioni intense e alluvioni, al risparmio/recupero idrico;
- individuati ambiti idonei alla realizzazione di nuove aree verdi, interventi di rinaturalizzazione, riforestazione e riqualificazione naturalistica;
- proponga modalità attuative, strumenti di gestione e canali di finanziamento.

Tra gli elaborati del piano potranno essere inclusi: linee guida e repertori di buone pratiche per orientare l'azione dei privati, modelli contrattuali per il coinvolgimento dei privati nella realizzazione e gestione degli interventi (Es. Contratti di forestazione

6) Implementation timeframe: **Start: 2021, End: 2025**

7) Implementation status: **Not started**

8) Stakeholders involved: **Business & private sector**

Additional comments: **[Empty field]**

9) Total implementation costs: **unknown** €

Source of funding: **Regional funds and programmes** €

Investment costs: €

Non-investment costs: €

A. Mitigation

ⓘ Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

B. Adaptation

ⓘ Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed

Extreme heat
 Droughts and water scarcity
 Heavy precipitation
 Mass movement
 Storms
 Other

19) Sector(s): **Land use planning**

20) Outcome(s) reached

Description: **aggiornamento della Carta del verde comunale; Aggiornamento del Regolamento del verde comunale**

Related indicator: **Previdizione del Piano intercomunale di infrastrutturazione verde** [numerical value] [Unit]
Copertura territoriale del Piano di infrastrutturazione verde 4 [numerical value] [Unit]
Numero di atti di aggiornamento del Regolamento e della CA [numerical value] [Unit]

21) Vulnerable population group(s) targeted: **All**

22) Avoided cost: **unknown** €

23) Life expectancy of the action: **[Empty field]** years

24) Return on Investment: **[Empty field]** %

25) Jobs created: **[Empty field]** full-time equivalent

26) Other figures: **[Please specify]** [numerical value] [Unit]

C. Energy poverty

ⓘ Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: **[Drop-down]**

28) Outcome(s) reached

Description: **[Empty field]**

Related indicator: **[Please specify]** [numerical value] [Unit]

Further information

30) Weblink: **www.**

31) Video link: **www.**

32) Picture: **[upload]**

[PP3] Abruzzo Region

Strategy

1) **MANIPOLJANA (2020-2024)**
 The Municipality of Čapljina, Čapljina 41, City and five local individuals joined the Call to 2017, presenting their own SECAP. However, due to the short design period, they decided to make their actions more precise and to plan together and develop a new SECAP. The common vision is to face the challenge of climate change having the strength and responsibility to choose not the single Municipality, but for a wider area (region), the community. The vision is to understand that the individual municipalities are not separate units from each other, but a part of the wider area that should take care of the broader emergency in a community, interests and aware on the existing climate changes and the possible associated impacts.
 The local and national climate goals to reduce greenhouse gas emissions in order to contribute to avoid the worst case scenario that are available over time.
 When system, ready to face the new challenges and critically necessary climate change.

2) **Target(s) and commitment(s)**

Objective level	Unit	Target Year	Emission		Detailed objectives (avoided tons)
			2024	2030	
Climate	%	2024	2024	per capita	11,248
	%	2030	2030	per capita	16,972
Energy	%	2024	2024	per capita	12,147
	%	2030	2030	per capita	12,147

3) **Qualitative indicators**

Indicator	2024		2030	
	Value	Unit	Value	Unit
Reduce the consumption of land and water	3000	% of population	3000	% of population
Increase green infrastructure	1000	% of new green	1000	% of new green
Increase the resilience of the urban environment	2000	% of population	2000	% of population
Enhance the local hydrological activity	7000	% of population	7000	% of population

4) **Stakeholder involvement**

Type	The urban plan			The implementation		
	Decision	Approval	Implementation	Decision	Approval	Implementation
Local authority	■	■	■	■	■	■
Other stakeholder (Government, Citizens/Associations or companies)	■	■	■	■	■	■
External consultant	■	■	■	■	■	■
Other	■	■	■	■	■	■

5) **Budget**

Type of budget	2024		2030	
	Value	Unit	Value	Unit
Operating revenue	10,000,000	EUR	10,000,000	EUR
External income	0	EUR	0	EUR
Total	10,000,000	EUR	10,000,000	EUR

6) **Monitoring process**

7) **Comments**

Climate Change Risks and Vulnerabilities

Risk & Vulnerability Assessment (RVA)

Note that the online platform *MyGovernant* applies an IT solution through which tables in the RVA are generated automatically and prefilled depending on previously made selections. While content in this file and in *MyGovernant* is the same, the method of completion of the RVA will slightly differ.

- Underlined words are default; definitions are visible upon clicking the respective cell. Definitions of climate hazards, sectors, adaptive capacity factors are provided in the reporting guidelines.
- To choose option(s) from a predefined list, copy and paste the relevant option(s). *Single choice* indicates only one option is possible; *multiple choice* indicates more than one options are possible.

Table 1) Climate hazards

Climate hazards	Current (risk of hazard occurring)		Future hazards		
	Probability of hazard	Impact of hazard	Expected change in hazard intensity	Expected change in hazard frequency	Impact period
<p>Step 1) Check the boxes for the climate hazards that are applicable to your local authority -> Step 2) Fill in all green fields for the selected hazards by choosing (i.e. copying and pasting) option(s) in row 14 -> Step 3) Optionally, fill in information for the relevant sub-hazards (do not fill anything for sub-hazards that are not relevant).</p>					
	Single choice Low Moderate High Not known	Single choice Low Moderate High Not known	Single choice Increase Decrease No change Not known	Single choice Increase Decrease No change Not known	Multiple choice Short-term Medium-term Long-term Not known
Extreme heat	High	High	No change	Increase	Short-term
Extreme cold	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Heavy precipitation	High	High	No change	Increase	Short-term
Heavy rainfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Flash flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Coastal flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Storm surge	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Ice	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Sea level rise	Low	Moderate	Not known	Increase	Short-term
Flash / surface flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
River flood	Low	Moderate	Not known	Not known	Short-term
Coastal flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Storm surge	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Permanent inundation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Drought & water scarcity	Low	Moderate	No change	Increase	Short-term
Storms	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Severe wind	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Tornado	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Cyclone (hurricane / typhoon)	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Tropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Extratropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Storm surge	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Lightning / thunderstorm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Mass movement	High	High	Not known	Increase	Short-term
Landslide	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Avalanche	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Rockfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Subsidence	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Wild fires	Medium	Moderate	No change	Increase	Not known
Forest fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Land fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Chemical hazards	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Subsoil intrusion	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Organic acidification	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Atmospheric CO2 concentration	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Biological hazards	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Waterborne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Vectorborne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Airborne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Insect infestation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]
Other	[Please specify]	[Please choose]	[Please choose]	[Please choose]	[Please choose]

Table 2) Vulnerable sectors

Climate hazards	Relevant vulnerable sector(s)	Current vulnerability level	Indicator
<p>Step 4) If it is again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/inserted automatically). Ignore the rest of this hazard. -> Step 5) Choose (i.e. copy/paste) the relevant sectors from the list. When more than one sector is relevant, add separate rows for each sector and indicate the level of vulnerability against each sector identified.</p>			
	Multiple choice Buildings Transport Energy Water Waste Land use planning Agriculture & forestry Environment & biodiversity Emergency & disaster management Health Civil protection & emergency Tourism Education ICT (information & communication technologies) All listed sectors Not known	Single choice Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.
Extreme heat	Buildings Agriculture & forestry Environment & biodiversity Civil protection & emergency Tourism	Low Low Low Low Low	IND_COP_2111: Ratio between the population of non-active age (14 yrs and > 65 yrs) and the population of active age (15-65 years) compared to the regional data. E30-E31: % of residential buildings with poor state of conservation compared to the total municipal stock. IND_RF: municipalities infested by <i>Phlyctocyphus ferrugineus</i> . The value of the total weighted indicator (combination of the previous ones) is 0,39.
Extreme cold	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
Heavy precipitation	Buildings Agriculture & forestry Environment & biodiversity Civil protection & emergency Tourism	Moderate Moderate Moderate Moderate Moderate	IND_COP_2111: Ratio between the population of non-active age (14 yrs and > 65 yrs) and the population of active age (15-65 years) compared to the regional data. E30-E31: % of residential buildings with poor state of conservation compared to the total municipal stock. The value of the total weighted indicator (combination of the previous ones) is 0,49.

Climate Change Risks and Vulnerabilities

Category	Hazard	Indicator	Value	Notes
a	Floods & sea level rise	Buildings	Moderate	IND_DIP_STR: Ratio between the population of non-active age (0-14 yrs and > 65 yrs) and the population of active age (15-65 years) compared to the regional data. E30+E31: % of residential buildings with poor state of conservation compared to the total municipal stock. The value of the total weighted indicator (combination of the previous ones) is 0,46
		Agriculture & forestry	Moderate	
		Environment & biodiversity	Moderate	
		Civil protection & emergency	Moderate	
		Tourism	Moderate	
b	Droughts & water scarcity	Buildings	Low	IND_DIP_STR: Ratio between the population of non-active age (0-14 yrs and > 65 yrs) and the population of active age (15-65 years) compared to the regional data. R_F: % of area with risk of fire of forest with medium or high level. SPI: n° of February monthly/quarterly with SPI values < -1 (draught season) in the period 1951-2020. The value of the total weighted indicator (combination of the previous ones) is 0,34
		Agriculture & forestry	Low	
		Environment & biodiversity	Low	
		Civil protection & emergency	Low	
		Tourism	Low	
c	Storms	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
	Mass movement	Buildings	Moderate	IND_DIP_STR: Ratio between the population of non-active age (0-14 yrs and > 65 yrs) and the population of active age (15-65 years) compared to the regional data. E30+E31: % of residential buildings with poor state of conservation compared to the total municipal stock. The value of the total weighted indicator (combination of the previous ones) is 0,46
	Agriculture & forestry	Low		
	Environment & biodiversity	Low		
	Civil protection & emergency	Low		
	Tourism	Low		
d	Wild fires	Buildings	Moderate	R_F_0: % of area with risk of fire of forest with medium/high level compared with regional data. The value is 0,58
		Agriculture & forestry	Moderate	
		Environment & biodiversity	Moderate	
		Civil protection & emergency	Moderate	
		Tourism	Moderate	
e	Other	[please specify]	[Choose from the list above]	[Please choose]

Table 3) Adaptive capacity

Impacted sector(s)	Relevant climate hazard(s)	Adaptive capacity factor(s)	Current adaptive capacity level	Indicator
<p>Step 6) Mark with a tick box the sectors which have been identified in Table 2 above, in respect of all climate hazards (in the online template, the list of sectors will be generated/displayed automatically. The online template will also generate automatically the hazards relevant to each sector as in Table 2, there is no need to fill in this information below) >>> Step 7) Choose (i.e. copy-paste) the relevant adaptive capacity factors from the list. When more than one adaptive factor is relevant, add separate rows for each factor and indicate the level of adaptive capacity against each factor.</p>				
	Column not to be filled in	<p>Multiple choice:</p> <ul style="list-style-type: none"> Access to services Socio-economic Governmental & institutional Physical & environmental Knowledge & innovation 	<p>Single choice:</p> <ul style="list-style-type: none"> Low Moderate High Not known 	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.
<input type="checkbox"/> Buildings	[to be generated automatically in online template]	Socio-economic	High	IVSM: Social and material vulnerability index = 0,70
<input type="checkbox"/> Transport	[to be generated automatically in online template]	[Choose from the list above]	Not known	[Choose from Annex 3 or write down your own]
<input type="checkbox"/> Energy	[to be generated automatically in online template]	[Choose from the list above]	Not known	[Choose from Annex 3 or write down your own]
<input type="checkbox"/> Water	[to be generated automatically in online template]	[Choose from the list above]	Not known	[Choose from Annex 3 or write down your own]
<input type="checkbox"/> Waste	[to be generated automatically in online template]	[Choose from the list above]	Not known	[Choose from Annex 3 or write down your own]
<input type="checkbox"/> Land use planning	[to be generated automatically in online template]	[Choose from the list above]	Not known	[Choose from Annex 3 or write down your own]
<input type="checkbox"/> Agriculture & forestry	[to be generated automatically in online template]	Governmental & institutional	Low	FF_P: Presence and updating of the regional forest fire prevention plans: 0,0
<input type="checkbox"/> Environment & biodiversity	[to be generated automatically in online template]	Governmental & institutional	Low	R_A_H: % of financial regional resources for flood and landslides: 0,10
<input type="checkbox"/> Health	[to be generated automatically in online template]	[Choose from the list above]	Not known	[Choose from Annex 3 or write down your own]
<input type="checkbox"/> Civil protection & emergency	[to be generated automatically in online template]	Governmental & institutional	High	M_E_P: n° of municipal emergency plans and state of update => 81
<input type="checkbox"/> Tourism	[to be generated automatically in online template]	Socio-economic	High	IVSM: Social and material vulnerability index = 0,70
<input type="checkbox"/> Education	[to be generated automatically in online template]	[Choose from the list above]	Not known	[Choose from Annex 3 or write down your own]
<input type="checkbox"/> ICT (Information & communication technologies)	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]

Table 4) Vulnerable population groups

Climate hazards	Most vulnerable population group(s)
<p>Step 8) Mark again with a tick box the same hazards selected in Table 3 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards >>> Step 9) Choose (i.e. copy-paste) the most vulnerable population groups from the list. When more than one group is relevant, add in the same cell and separate with a comma.</p>	
	<p>Multiple choice:</p> <ul style="list-style-type: none"> Women and girls Children Youth Elderly Marginalized groups Persons with disabilities Persons with chronic diseases Low-income households Overstayed persons Persons living sub-standard housing Migrants and displaced people Other All listed population groups Not known
<input type="checkbox"/> Extreme heat	All
<input type="checkbox"/> Extreme cold	[Choose from the list above]
<input type="checkbox"/> Heavy precipitation	All
<input type="checkbox"/> Floods & sea level rise	All
<input type="checkbox"/> Droughts & water scarcity	All
<input type="checkbox"/> Storms	[Choose from the list above]
<input type="checkbox"/> Mass movement	[Choose from the list above]
<input type="checkbox"/> Wild fires	All
<input type="checkbox"/> Other	[please specify]

Additional comments

The risk and vulnerability assessment was developed following the methodological guidelines defined by the lead partner Unicam, based on the methodological framework described by the International Panel on Climate Change (IPCC) in the Fifth Assessment Report and on the Vulnerability Sourcebook by Ciz. The methodology was based on 7 modules (m1: Preparing the risk assessment; m2: Developing impact chains; m3: Identifying and selecting indicators; m4: Data acquisition and management; m5: Normalisation of indicator data; m6: Weighting and aggregating of indicators; m7: Aggregating risk components to risk).

Action Plan

[HOME](#)

1) Action plan(s) and other related documents

1) Action plan(s)

Ⓢ Add as many rows as necessary. Minimum 1 action plan document

Title	Short description	Date of formal approval	Decision body approving the plan	Nature of the document	Scope / Boundary	Language	Published?
Piano di Azione congiunto area target 1 della Regione Abruzzo - Progetto Joint-SECAP	Joint SECAP of the municipalities of Castiglione M.R., Castilenti, Elice and Penne.	[dd/mm/yy]	Council decision (TED)	Integrated climate plan (ad-Greater than municipali	Italy		<input type="checkbox"/>

2) Other related documents

Ⓢ Add as many rows as necessary.

Title	Short description	Date	Author(s)	Nature of the document	Scope / Boundary	Method & Sources	Language	Published?
		[dd/mm/yy]						<input type="checkbox"/>
		[dd/mm/yy]						<input type="checkbox"/>
		[dd/mm/yy]						<input type="checkbox"/>

Comments [v]

Ⓢ Click on the [+/-] button on the left to expand or collapse.

List of actions

Ⓢ Please specify the total number of (mitigation and adaptation) actions planned per sector. For mitigation actions, estimate their impacts in your plan's time horizon (2020, 2030 and/or other).

4) Adaptation actions

Ⓢ Only if your local authority is committed to adaptation.

Adaptation sectors	Number of actions included in the plan
Buildings	1.4
Transport	0.1
Energy	0.1
Water	0.4
Waste	0.4
Land Use Planning	0.4
Agriculture & Forestry	1.4
Environment & Biodiversity	0.6
Health	0.1
Civil Protection & Emergency	0.1
Tourism	0.6
Education	1.9
ICT (Information & communication technologies)	0.1
Other	0.1
TOTAL	8

Action plan implementation status			
Completed (%)	On-going (%)	Postponed (%)	Not-started (%)
0%	0%	0%	100.0%
0%	0%	0%	100.0%
0%	0%	0%	100.0%
0%	0%	0%	100.0%
0%	0%	0%	100.0%
0%	0%	0%	100.0%
0%	0%	0%	100.0%
0%	0%	0%	100.0%
0%	0%	0%	100.0%
0%	0%	0%	100.0%
0%	77.8%	0%	22.2%
0%	26.4%	0%	73.6%
0%	0%	0%	100.0%
0%	0%	0%	100.0%

Key Action1 HOME

Actions

Ⓜ Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action Mitigation Adaptation Energy poverty Ⓜ Only in combination with "Mitigation" and/or "Adaptation" actions

2) Title of the action **JOINT ACTION: Communication and involvement of citizens, enterprises and tourism sector on issues related to climate change**

3) Origin of the action **Local authority**

4) Responsible body **Municipal offices of the Governor of Mayors**

5) Short description **All the Municipalities of the JOINT-SECAP cooperate for this action, with the support of the Abruzzo Region, because they deem it necessary to involve the local businesses, citizens and tourism sector in a functional way. The action provides for the organization of information, communication and training events for citizens, business company and tourism sector. In fact, all the three groups are among the main subjects to suffer the consequences of the climate change underway, including dissemination for improving the energy efficiency of buildings through the insulation of the envelop.** 420 characters left

6) Implementation timeframe **Start: 2016 End: 2020**

7) Implementation status **Ongoing**

8) Stakeholders involved **Sub-national government(s) and/or agency(ies) Business & private sector Education sector NGOs & civil society Citizens** Ⓜ For multiple choice, insert additional rows as needed

8) Stakeholders involved **Additional comments**
The stakeholders are involved through a Focus group and communication via email, telephone and web meetings managed by the Abruzzo Region and the municipal representatives. The role of stakeholders outside the Municipality is to provide information and promote the communication campaign as far as they are concerned. ENEA participates in communication as regional opinion leaders, participation in information days also through the "ITALY in class A" campaign. The CDCA carries out communications on social media, creation of information materials, workshops in schools and during public initiatives. The funds are regional structural "Communicate to Protect" or other types. The Ministry supports through national plans and local actions through CREIAMO PA. The role of the Municipalities is to coordinate all the activities as well as to inform on their thematic channels and through the schools. The tourism trade associations will involve and inform the different tourist structures of the area. 48 characters left

9) Total implementation costs **7.000 €**
 Source of funding: **Local authority's own resources**
 Investment costs: **0 €**
 Non-investment costs: **7000 €**

B. Adaptation

Ⓜ Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed **Heavy precipitation Mass movement Droughts and water scarcity Extreme heat Wild fires** Ⓜ For multiple choice, insert additional rows as needed

19) Sector(s) **Education Tourism** Ⓜ For multiple choice, insert additional rows as needed

20) Outcome(s) reached **Description: Specifically, the expected result of the form is the communication: + to farms located in the territory of the target areas, + to trade associations in the agricultural sector (eg Confagricoltura, Coldiretti, etc.), + to citizens and their associations + to operators of the tourism sector and their associations, + to companies in the industrial sector with the highest daily water consumption per employee + to trade associations in the industrial sector (eg Confindustria, Confindustria, etc.). The organization of training and information events can take place through: + round tables, focus groups, workshops, + activation of accompanying paths to obtain green certifications, by strengthening the SUAP (Single Desk for Productive Activities), + activation of accompanying paths to obtain European, national and regional funding.** 105 characters left

Related indicator	IT of events/meetings organized	12	N
Related indicator	IT of citizens reached by the communication activities	8000	N

21) Vulnerable population group(s) targeted Ⓜ For multiple choice, insert additional rows as needed

22) Avoided cost **0 €**

23) Life expectancy of the action **14 years**

24) Return on Investment **0 %**

25) Jobs created **0 Full-time equivalent**

26) Other figures **Please specify [numerical value] [Unit]**

C. Energy poverty

Ⓜ Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted **[Drop-down]** Ⓜ For multiple choice, insert additional rows as needed

28) Outcome(s) reached **Description: [Please specify] [numerical value] [Unit]** 100 characters left

Further information

30) Weblink **www**

31) Video link **www**

32) Picture **[upload]**

Key Action2 HOME

Actions

Ⓜ Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

- Mitigation
- Adaptation
- Energy poverty

Ⓜ Only in combination with "Mitigation" and/or "Adaptation" actions

2) Title of the action: **JOINT ACTION: Promotion of activities for saving, recycling and reusing water, also reducing the use of plastic in schools**

3) Origin of the action: **Local authority**

4) Responsible body: **Municipal offices of the Government of Molise**

5) Short description

All the Municipalities of the JOINT-SECAP cooperate for this action, with the support of the Abruzzo Region, because they believe it necessary to involve the citizens of the territory in a functional way. The action provides for the organization of information, communication and training events for citizens. Citizens are in fact among the main subjects who can contribute to the activity of saving, recycling and reusing water. This action allows both a better climatic adaptation due to the scarcity of the water resource, and a reduction in energy consumption, linked to the production of hot water and the use of electric pumps. Another goal is to increase the consumption of drinking water from the public aqueduct, also to reduce plastic waste from the consumption of bottled mineral water. The actions also provide for the free distribution of water bottles to students and the installation of water columns at the entrance to schools.

6) Implementation timeframe

Start: 2021
End: 2030

7) Implementation status: **Not started**

8) Stakeholders involved

- Sub-national government(s) and/or agency(ies)
- Business & private sector
- Education sector
- Citizens

Ⓜ For multiple choice, insert additional rows as needed

Additional comments

The stakeholders were involved through a Focus group and through the communication activity via email, telephone and webmeetings managed by the territorial coordinator (Abruzzo Region) and the municipal representatives. The role of stakeholders external to the Municipality is to provide information and information material for the communication campaign as well as to disseminate information to citizens, including young students, as far as they are concerned, also providing free water bottles for the water in aluminum. The role of the Municipalities is to coordinate all activities as well as to inform on their thematic channel what is proposed in this sheet.

9) Total implementation costs

Source of funding:	Public-private partnerships	€
Investment costs:	25000	€
Non-investment costs:	5000	€

B. Adaptation

Ⓜ Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse:

18) Climate hazard(s) addressed: **Droughts and water scarcity**

19) Sector(s)

- Water
- Waste
- Environment & biodiversity
- Education

20) Outcome(s) reached

Description:

The objective of the action is to promote the rational use of water and the reduction of using plastic bottles through meetings, training, dissemination of information material and installation of water distributors. The promotion focuses on both technological and behavioral aspects. Citizens are informed of the different practices:

- less use of plastic due to the lower purchase of bottled water;
- low-flow toilet drain;
- low-consumption taps and showers;
- low-water pressure reducers;
- low-water consumption appliances;
- reuse of gray water and recovery of rainwater.

Furthermore, through the dissemination of good behavioral practices, which do not require the use of particular devices, but a change in daily actions, unnecessary waste will be avoided. The action includes the distribution of aluminum bottles at school for students and the installation of water distributors in order to increase the use of water from local distributor and to reduce the use of plastic bottles.

Related indicator:

Indicator	Value	Unit
Number of events / activities organized	6	N.
Number of water distributors installed	3	N.
Number of people involved	6000	N.
Number of aluminum bottles distributed	1500	N.

21) Vulnerable population group(s) targeted: **Drop-down**

22) Avoided cost: **0** €

23) Life expectancy of the action: **9** years

24) Return on investment: **0** %

25) Jobs created: **0** full-time equivalent

26) Other figures: **0** (Please specify) [numerical value] [Unit]

C. Energy poverty

Ⓜ Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse:

27) Vulnerable population group(s) targeted: **Drop-down**

28) Outcome(s) reached

Description:

Related indicator:

Indicator	Value	Unit
(Please specify)	[numerical value]	[Unit]

Further information

30) Weblink: **www.**

31) Video link: **www.**

32) Picture: **[upload]**

Key Action3 HOME

Actions

Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action Mitigation Adaptation Energy poverty Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action **JOINT ACTION: Activation of an inter-municipal control for "soil consumption"**

3) Origin of the action **Other (national, regional, ...)**

4) Responsible body **Abruzzo Region**

5) Short description **The action for all municipalities was proposed by the Abruzzo Region and sees the creation of an inter-municipal environmental defence body for "land consumption" in the 4 Municipalities of the target area 1. The environmental defence body will have the task of providing an updated summary of the transformation processes of the territory, the state of degradation and the impact of land use on the landscape and ecosystem services. The compromise of the soil causes damage to the climate because it alters the regulation of carbon, it also prevents the retention of a large part of the precipitation waters that flow downstream, enhancing flood phenomena on the one hand and desertification on the other. Abruzzo accounts for 4.96% of land consumed, according to the Ispra 2020 report. The regional per capita land consumption is 1.60 square meters / inhabitant against the national average of 0.9 square meters.** 80 characters left

6) Implementation timeframe **Start: 2022 End: 2030**

7) Implementation status **Not started**

8) Stakeholders involved **Sub-national governments(s) and/or agency(ies)** For multiple choice, insert additional rows as needed

Trade unions
NGOs & civil society
Citizens

Additional comments
The stakeholders will be involved through communication activities via email, telephone and web meetings managed by the Abruzzo Region in collaboration with the project partners. This action must be accompanied by greater maintenance of the territory (and not only of the infrastructures) based on criteria of renaturalization and restoration of ecological functionality. In particular, the Region must favor the recovery of the water retention capacity in the hilly areas, promoting the maintenance and, where possible, the increase of the structured and quality wooded area and renaturalizing the watercourses to guarantee a real reduction of hydrogeological risk. There must be clear opposition to any new construction in the river beds and it is essential to recover and expand the natural flooding areas of the rivers in the valley bottoms and plains to allow adequate management of the increasingly frequent precipitation and sudden flood events.

9) Total implementation costs **0** €
Source of funding **Regional funds and programmes**
Investment costs **0** €
Non-investment costs **0** €

B. Adaptation

Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed **Heavy precipitation** For multiple choice, insert additional rows as needed
Mass movement

19) Sector(s) **Land use planning** For multiple choice, insert additional rows as needed
Environment & biodiversity
Agriculture & forestry
Buildings

20) Outcome(s) reached **Description: The expected result is to progressively reduce land consumption by making it tend towards the national average value of 0.9 m²/inhabitant.** 100 characters left
Related indicator: land consumption per capita **0,9** **m²/person**

21) Vulnerable population group(s) targeted For multiple choice, insert additional rows as needed

22) Avoided cost **0** €

23) Life expectancy of the action **8** years

24) Return on investment **0** %

25) Jobs created **0** full-time equivalent

26) Other figures **(Please specify)** **(numerical value)** **(Unit)**

C. Energy poverty

Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted **[Drop-down]** For multiple choice, insert additional rows as needed

28) Outcome(s) reached **Description:** 1000 characters left
Related indicator: **(Please specify)** **(numerical value)** **(Unit)**

Further information

30) Weblink **www.**

31) Video link **www.**

32) Picture **[upload]**

Key Action4

[HOME](#)

Actions

Ⓜ Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action	<input type="checkbox"/> Mitigation <input checked="" type="checkbox"/> Adaptation <input type="checkbox"/> Energy poverty <small>Ⓜ Only in combination with "Mitigation" and/or "Adaptation" actions</small>																
2) Title of the action	JOINT ACTION: Monitoring system of the action plan, extreme events, evasion of invasive species and heat waves																
3) Origin of the action	Other (national, regional, ...)																
4) Responsible body	Coverand of Mevo's responsible office																
5) Short description	<p>Number of Municipalities involved: 4 Total number of Municipalities of the target area: 4 The Municipalities cooperate for this action, supported by the Abruzzo Region, because they consider it necessary to implement a monitoring and alert system in case of extreme events. This action provides for agreements with civil protection and other bodies, to promote a weather alert service to citizens and tourism, industrial, agricultural sectors, for forecasts of imminent climatic danger. This service is provided through messages on social networks and / or through messages to mobile phones and / or through APPs for mobile phones and computers. Municipalities will plan the most suitable communication activities and methodologies. The system also predicts, monitors and prevents heat waves and the health effects of the vulnerable population. The system processes the data on a daily basis and distributes the meteorological bulletin containing the expected</p>																
6) Implementation timeframe	Start: 2021 End: 2030																
7) Implementation status	Not started																
8) Stakeholders involved	<table border="1"> <tr><td>National government and/or agency(ies)</td></tr> <tr><td>Sub-national governments(s) and/or agency(ies)</td></tr> <tr><td>NGOs & civil society</td></tr> <tr><td>Citizens</td></tr> </table> <p><small>Ⓜ For multiple choice, insert additional rows as needed</small></p> <p>Additional comments</p> <p>The stakeholders were involved through the communication activities via email, telephone and web meetings managed by the territorial coordinator (Abruzzo Region) and the municipal representatives. The role of stakeholders outside the Municipality is to provide information and support the Municipality in order to monitor heat waves and others extreme events, both through weather forecasting and to verify the number of hospital patients due to heat waves. Another role of stakeholders involved in services for the elderly is to communicate how to adapt to heat waves and plan specific activities for the hottest periods of the year and subject to heat waves. The role of the Municipalities is to coordinate all the activities in this sheet as well as inform the entire population, with particular attention to vulnerable groups, of the risks of future heat waves and extreme events at 1,2 and 3 days.</p>	National government and/or agency(ies)	Sub-national governments(s) and/or agency(ies)	NGOs & civil society	Citizens												
National government and/or agency(ies)																	
Sub-national governments(s) and/or agency(ies)																	
NGOs & civil society																	
Citizens																	
9) Total implementation costs	<table border="1"> <tr><td>16.000</td><td>€</td></tr> <tr><td>Source of funding</td><td>Regional funds and programmes</td></tr> <tr><td>Investment costs:</td><td>12500</td><td>€</td></tr> <tr><td>Non-investment costs:</td><td>3500</td><td>€</td></tr> </table>	16.000	€	Source of funding	Regional funds and programmes	Investment costs:	12500	€	Non-investment costs:	3500	€						
16.000	€																
Source of funding	Regional funds and programmes																
Investment costs:	12500	€															
Non-investment costs:	3500	€															
A. Mitigation																	
<small>Ⓜ Only for actions addressing mitigation. Click on the [-] buttons on the left to expand or collapse</small>																	
B. Adaptation																	
<small>Ⓜ Only for actions addressing adaptation. Click on the [-] buttons on the left to expand or collapse</small>																	
16) Climate hazard(s) addressed	<table border="1"> <tr><td>Extreme heat</td></tr> <tr><td>Extreme cold</td></tr> <tr><td>Heavy precipitation</td></tr> <tr><td>Floods and sea level rise</td></tr> <tr><td>Storms</td></tr> </table> <p><small>Ⓜ For multiple choice, insert additional rows as needed</small></p>	Extreme heat	Extreme cold	Heavy precipitation	Floods and sea level rise	Storms											
Extreme heat																	
Extreme cold																	
Heavy precipitation																	
Floods and sea level rise																	
Storms																	
19) Sector(s)	All listed sectors <small>Ⓜ For multiple choice, insert additional rows as needed</small>																
20) Outcome(s) reached	<p>Description:</p> <p>The heat wave and other extreme events monitoring and warning system results in an analysis of the weather forecast in order to predict future dangerous events in the area. Cases of patients who are hospitalized at local ASL, following illness from heat waves are also monitored. Following a heat wave or other extreme events risks, the Municipalities take action in order to spread the possible risk throughout the territory, through a communication campaign aimed at the entire population and in particular to the most vulnerable people. A communication system programmed for the most vulnerable people is activated to adapt to heat waves. Municipalities and Abruzzo Region collaborate with "Thonias for the elderly" and clubs for the elderly to activate a specific program of activities that are best suited to the hottest periods of the year. Other communication campaigns will be done to be ready by all sectors and citizens on how to reduce the damage in case of extreme events.</p> <table border="1"> <tr><td>Related indicator</td><td>% of events/hearings organized</td><td>12</td><td>N.</td></tr> <tr><td>Related indicator</td><td>Alarm system in case of extreme events</td><td>1</td><td>N.</td></tr> <tr><td>Related indicator</td><td>Summer events for all the municipalities</td><td>9</td><td>N.</td></tr> <tr><td>Related indicator</td><td>People informed</td><td>2000</td><td>N.</td></tr> </table> <p><small>18 characters left</small></p>	Related indicator	% of events/hearings organized	12	N.	Related indicator	Alarm system in case of extreme events	1	N.	Related indicator	Summer events for all the municipalities	9	N.	Related indicator	People informed	2000	N.
Related indicator	% of events/hearings organized	12	N.														
Related indicator	Alarm system in case of extreme events	1	N.														
Related indicator	Summer events for all the municipalities	9	N.														
Related indicator	People informed	2000	N.														
21) Vulnerable population group(s) targeted	Elderly <small>Ⓜ For multiple choice, insert additional rows as needed</small>																
22) Avoided cost	0 €																
23) Life expectancy of the action	9 years																
24) Return on investment	0 %																
25) Jobs created	0 full-time equivalent																
26) Other figures	<table border="1"> <tr><td>(Please specify)</td><td>(numerical value)</td><td>(Unit)</td></tr> </table>	(Please specify)	(numerical value)	(Unit)													
(Please specify)	(numerical value)	(Unit)															
C. Energy poverty																	
<small>Ⓜ Only for actions addressing energy poverty. Click on the [-] buttons on the left to expand or collapse</small>																	
27) Vulnerable population group(s) targeted	[Drop-down] <small>Ⓜ For multiple choice, insert additional rows as needed</small>																
28) Outcome(s) reached	<p>Description:</p> <table border="1"> <tr><td>(Please specify)</td><td>(numerical value)</td><td>(Unit)</td></tr> </table> <p><small>1000 characters left</small></p>	(Please specify)	(numerical value)	(Unit)													
(Please specify)	(numerical value)	(Unit)															
Further information																	
30) Weblink	www																
31) Video link	www																
32) Picture	[upload]																

Key Action5

HOME

Actions

Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

2) Title of the action: JOINT ACTION: Viticulture project - Region - Wines Protection Consortium agreement to prevent climate change

3) Origin of the action: Other (national, regional,...)

4) Responsible body: Wines Protection Consortium

5) Short description:

* Number of Municipalities involved: 4 Total number of Municipalities of the target area: 4
 The project foresees the collaboration between the Region and the Consortium for the protection of wines to implement a climate register of the wine seasons and to strengthen the monitoring network thanks to the purchase of new meteorological control unit.
 The Climate register of wine seasons will collect data and will provide useful information to anticipate the impact of the climate changes on viticulture, helping farmers to set the most suitable agronomic strategies.
 The project also provides for the drafting of the "Vintage Report", which will be able to give a longer term decision support to those who want to invest in viticulture in Abruzzo, but also provide producers with a clear picture of climate change and its consequences on viticulture in the different wine cultivated in the region.

6) Implementation timeframe:

Start	2021
End	2030

7) Implementation status: Not started

8) Stakeholders involved:

Sub-national governments(s) and/or agency(ies)
Business & private sector

Additional comments:

Stakeholders were involved through emails, calls and meetings.
 The increase of temperatures in some wine-growing areas of the region, in recent years, especially in the non-irrigated hilly vineyards, has shown the anticipation of the phenological phases and the acceleration of the ripening process of the grapes with the consequent increase in sugar concentration and alcohol content of wines. A process that is alarming the sector.

9) Total implementation costs:

	490.000	€
Source of funding:	Regional funds and programmes	
Investment costs:	490000	€
Non-investment costs:		€

A. Mitigation

Only for actions addressing mitigation. Click on the [-] buttons on the left to expand or collapse

B. Adaptation

Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Extreme heat

19) Sector(s): Agriculture & forestry

20) Outcome(s) reached:

Description: The purchase of new meteorological stations (actually they are 25) that will be located on the regional territory will be a valid support in terms of prevention and study in support of the regional agricultural sector. The number of control units that will be installed in each Municipality haven't been already decided.

Related indicator:	n° of new meteorological stations purchased in Abruzzo	22	NL
--------------------	--	----	----

21) Vulnerable population group(s) targeted:

22) Avoided cost: 0 €

23) Life expectancy of the action: 9 years

24) Return on investment: 0 %

25) Jobs created: 0 full-time equivalent

26) Other figures:

(Please specify)	(numerical value)	(Unit)
------------------	-------------------	--------

C. Energy poverty

Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: [Drop-down]

28) Outcome(s) reached:

Description:

Related indicator:	(Please specify)	(numerical value)	(Unit)
--------------------	------------------	-------------------	--------

Further information

30) Weblink:

31) Video link:

32) Picture:

Key Action6

[HOME](#)

Actions

Copy as many "action" tabs as necessary (maximum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

2) Title of the action: JOINT ABRUZZO TIGER grant - energy renovation in social housing buildings and communication activities to tackle energy poverty

3) Origin of the action: Other (national, regional, ...)

4) Responsible body: Abruzzo Region

5) Short description:

Number of Municipalities involved: 4 Total number of Municipalities of the target area: 4
 TIGER (Triggered Investments for Grouping of buildings in Energy Renovation) aims to provide technical assistance to social housing operators (ATERS) to prepare tenders for energy renovation of their buildings and to introduce innovative financing mechanisms that combine the Energy Performance Contract with other financial instruments (i.e. Superbonus, White Certificates, Thermal Account, Structural Funds, ...). TIGER involves over 1500 families living in 120 buildings, located in 59 municipalities in Abruzzo. Further a capacity building programme for tenants and a awareness campaign will be set up to encourage vulnerable consumers to change their energy related behaviour. Partners of the project are: 2 Abruzzo agencies AGENIA and AESS, 5 ATERS and AISFOR, 4 agencies for Innovation, Development and Training.

6) Implementation timeframe:

Start	2021
End	2024

7) Implementation status: Not started

8) Stakeholders involved:

Sub-national governments(3) and/or agency(ies)	<input type="checkbox"/> For multiple choice, insert additional rows as needed
Citizens	<input type="checkbox"/>
Business & private sector	<input type="checkbox"/>

Additional comments:

Stakeholders have been involved since the drafting of the proposal through mail and phone call to collect their expressions of interest in participating in the project. In the future they will be involved through communication activities via email, telephone and web meetings managed by the Abruzzo Region in collaboration with the project partners. The role of the stakeholders is to promote and finalize the initiative.

9) Total implementation costs:

Source of funding	17 097 075	€
EU funds and programmes		
National funds and programmes		
Other		
Investment costs	16000000	€
Non-investment costs	1007075	€

A. Mitigation

10) Sector:

Sector	Buildings	Public lighting	Transport	Industry	Electricity Production	Heat/cold Production	Other
Total / Area of intervention	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]
Policy instrument	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]	[drop-down]

11) Estimated impacts:

Energy savings		Moneta
Renewable energy production		Moneta
CO ₂ reduction		CO ₂ e

12) Vulnerable population group(s) targeted: [drop-down]

13) Financial savings: [] €

14) Life expectancy of the action: [] years

15) Return on Investment: [] %

16) Jobs created: [] full-time equivalent

17) Other figures: [Please specify] [numerical value] [Unit]

B. Adaptation

18) Climate hazard(s) addressed:

Extreme heat	<input type="checkbox"/> For multiple choice, insert additional rows as needed
Extreme cold	<input type="checkbox"/> For multiple choice, insert additional rows as needed

19) Sector(s):

Buildings	<input type="checkbox"/> For multiple choice, insert additional rows as needed
Education	<input type="checkbox"/> For multiple choice, insert additional rows as needed

20) Outcome(s) reached:

Description: For the Municipality of Castelli, energy efficiency interventions are planned on 2 buildings for a total of 6 apartments, in which the heat generators and windows will be replaced, improving their thermal comfort. The municipalities of the entire target area will be involved in communication and awareness raising activities on issues concerning energy efficiency and financing through social networks, distribution of brochures, activation of information helpdesks.

Related indicator	77 of renovated dwellings	6	N
Related indicator	77 of utilities resulted by the communication activities in the target area	60	N

21) Vulnerable population group(s) targeted: Persons living in sub-standard housing

22) Avoided cost: 0 €

23) Life expectancy of the action: 3 years

24) Return on Investment: 0 %

25) Jobs created: 0 full-time equivalent

26) Other figures: [Please specify] [numerical value] [Unit]

C. Energy poverty

27) Vulnerable population group(s) targeted: Persons living in sub-standard housing

28) Outcome(s) reached:

Description: []

Related indicator	[Please specify]	[numerical value]	[Unit]
-------------------	------------------	-------------------	--------

Further information

30) Weblink: [www]

31) Video link: [www]

32) Picture: [upload]

Key Action7

[HOME](#)

Actions

Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

① Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action

JOINT ACTION: Creation of a working group among Joint Secap Municipalities to monitor the impacts of climate change and the effectiveness of the actions of the Plan

3) Origin of the action

Local authority

4) Responsible body

All four municipalities - Covenant of Mayors' responsibility

5) Short description

Number of Municipalities involved: 4 Total number of Municipalities of the target area: 4
 All the Municipalities joint this action, because they consider necessary to foster institutional cooperation and joint approaches among local authorities operating in the same territorial area for mitigation and for adaptation to climate change as well as for the monitoring of the plan. The action envisages the setting up of an inter-municipal working group, coordinated by the local coordinator. The working group is composed by the internal staff of each Municipality, supported by the CoM territorial coordinator and by external expert. The monitoring of the impacts of climate change may take place at least every two years, in line with the deadline set out in the CoM and can be achieved through a system set up ad hoc for the municipalities of the target area.

45 characters left

6) Implementation timeframe

Start	2021
End	2030

7) Implementation status

Not started

8) Stakeholders involved

National government and/or agency(ies) ② For multiple choice, insert additional rows as needed
 Sub-national governments(s) and/or agency(ies)

Additional comments

The Adriatic Region supports the municipalities to identify the most suitable working group, to provide technical assistance for monitoring activities. ENEA as national support coordinator for the CoM will provide technical and information assistance through the ES-PA project and starting from June 2021 it will provide a platform tool (available for free) to support the monitoring of SEAPs. The role of the Municipalities is to coordinate all the activities within the Municipalities and with the Region for the preparation of the monitoring plan. Thanks to this action, municipalities can also strengthen the ability to identify additional joint interventions and to verify the effective sustainability of the actions; strengthen coordination skills between the various parties involved in the definition and implementation of energy and sustainability policies in order to enhance synergies and avoid overlaps; strengthen the capacity for monitoring and evaluating interventions.

9) Total implementation costs

0	€
Source of funding: Local authority's own resources	
Investment costs: 0	€
Non-investment costs: 0	€

A. Mitigation

② Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

B. Adaptation

② Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed

Other ② For multiple choice, insert additional rows as needed

19) Sector(s)

All listed sectors ② For multiple choice, insert additional rows as needed

20) Outcome(s) reached

Description: The expected result is the preparation of monitoring reports, including the periodic verification of different factors, such as:

- number, size, location and damages caused by forest fires;
- number, intensity and damages to the agricultural and / or industrial production system from drought;
- number, intensity and damages to the agricultural production system due to intense rainfall;
- number, size, location and damages caused by landslides or floods;
- number, intensity and effects on people's health caused by possible heat waves in the summer season.

437 characters left

Related indicator: n° of biennial monitoring

4	N
---	---

21) Vulnerable population group(s) targeted

② For multiple choice, insert additional rows as needed

22) Avoided cost

0 €

23) Life expectancy of the action

9 years

24) Return on investment

0 %

25) Jobs created

0 full-time equivalent

26) Other figures

[Please specify] [numerical value] [Unit]

C. Energy poverty

② Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted

Persons living in sub-standard housing ② For multiple choice, insert additional rows as needed

28) Outcome(s) reached

Description: [Please specify]

1000 characters left

Related indicator: [Please specify]

[numerical value]	[Unit]
-------------------	--------

Further information

30) Weblink

www.

31) Video link

www.

32) Picture

[upload]

Key Action8 HOME

Actions
 ☑ Copy as many "action" tabs as necessary **(maximum 3 mitigation actions and 3 adaptation actions)**

1) Type of action Mitigation Adaptation Energy poverty ☑ Only in combination with "Mitigation" and/or "Adaptation" actions

2) Title of the action

3) Origin of the action

4) Responsible body

5) Short description 1 characters left

6) Implementation timeframe

7) Implementation status

8) Stakeholders involved ☑ For multiple choice, insert additional rows as needed

 Additional comments:

9) Total implementation costs €
 Source of funding: €
 Investment costs: €
 Non-investment costs: €

A. Mitigation
 ☑ Only for actions addressing mitigation. Click on the [-] buttons on the left to expand or collapse

10) Sector ☑ To be filled in only for the concerned sector
 Tool / Area of intervention:
 Policy instrument:

11) Estimated impacts MWh/a
 MWh/a
 CO2/a

12) Vulnerable population group(s) targeted ☑ For multiple choice, insert additional rows as needed

13) Financial savings €

14) Life expectancy of the action years

15) Return on investment %

16) Jobs created full-time equivalent

17) Other figures [numerical value] [Unit]

B. Adaptation
 ☑ Only for actions addressing adaptation. Click on the [-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed ☑ For multiple choice, insert additional rows as needed
 ☑ For multiple choice, insert additional rows as needed

19) Sector(s) addressed ☑ For multiple choice, insert additional rows as needed
 ☑ For multiple choice, insert additional rows as needed

20) Outcome(s) reached 379 characters left
 Related indicator: 1 [numerical value] n. [Unit]

21) Vulnerable population group(s) targeted ☑ For multiple choice, insert additional rows as needed

22) Avoided cost €

23) Life expectancy of the action years

24) Return on investment %

25) Jobs created full-time equivalent

26) Other figures [numerical value] [Unit]

C. Energy poverty
 ☑ Only for actions addressing energy poverty. Click on the [-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted ☑ For multiple choice, insert additional rows as needed

28) Outcome(s) reached 1000 characters left
 Related indicator: [numerical value] [Unit]

Further information

30) Web link

31) Video link

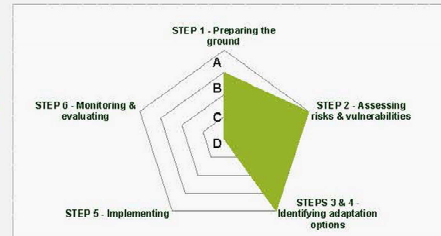
32) Picture

ANNEX 2 - Adaptation Scoreboard

HOME

Please complete the following self-assessment checklist, using the A-B-C-D scaling system (presented below) in column F (compulsory). Identify your next steps/areas of possible improvements through comments entered in column I (optional). The average status for every step is then visualised through the (automatically computed) spider graph below as well as in the "Synthesis Report" tab.

Status Scale	Status	Indicative Completion Level
D	Not started or getting started	0-25 %
C	Moving forward	25-50 %
B	Fully assessed	50-75 %
A	Taking the lead	75-100 %



Adaptation cycle steps	Actions	Self check of the Status	Comments
STEP 1 - Preparing the ground for adaptation <input type="button" value="STRATEGY"/>	<u>Adaptation commitments defined/integrated into the local climate policy</u> Human, technical and financial resources identified Adaptation team (officer) appointed within the municipal administration and clear responsibilities assigned Horizontal (i.e. across-sectoral departments) coordination mechanisms in place Vertical (i.e. across-governance levels) coordination mechanisms in place Consultative and participatory mechanisms set up, fostering the multi-stakeholder engagement in the adaptation process Continuous communication process in place (for the engagement of the different target audiences)		500 chars left
STEP 2 - Assessing risks & vulnerabilities to climate change <input type="button" value="RISKS & VULNERABILITIES"/>	Mapping of the possible methods & data sources for carrying out a <u>Risk & Vulnerability Assessment</u> , conducted Assessment(s) of climate risks & vulnerabilities undertaken Possible sectors of action identified and prioritised Available knowledge periodically reviewed and new findings integrated		500 chars left
STEPS 3 & 4 - Identifying, assessing and selecting adaptation options <input type="button" value="ACTIONS"/>	Full portfolio of adaptation options compiled, documented and assessed Possibilities of <u>mainstreaming adaptation</u> in existing policies and plans assessed, possible synergies and conflicts (e.g. with mitigation actions) identified <u>Adaptation Actions</u> developed and adopted (as part of the SECAP and/or other planning documents)		500 chars left
STEP 5 - Implementing <input type="button" value="ACTIONS"/>	Implementation framework set, with clear milestones <u>Adaptation actions</u> implemented and mainstreamed (where relevant) as defined in the adopted SECAP and/or other planning documents Coordinated action between mitigation and adaptation set		500 chars left
STEP 6 - Monitoring and evaluating <input type="button" value="INDICATORS"/>	Monitoring framework in place for adaptation actions Appropriate M&E indicators identified Progress regularly monitored and reported to the relevant decision-makers <u>Adaptation strategy</u> and/or <u>Action Plan</u> updated, revised and readjusted according to the findings of the M&E procedure		500 chars left

Summary table:

The score obtained for each step is summarised in the table below (based on the information entered by the user in the above table - A: 4 points, B: 3 points, C: 2 points, D: 1 point). The spider graph at the top is automatically generated, making the results more visual.

Adaptation Steps	Your Average Score
STEP 1 - Preparing the ground	3
STEP 2 - Assessing risks & vulnerabilities	4
STEPS 3 & 4 - Identifying adaptation options	4
STEP 5 - Implementing	0
STEP 6 - Monitoring & evaluating	0

Strategy

1) **Local authorities' 2020-2025 Strategy**

2) **Targets and commitments**

Objective	Unit	2020		2025		Baseline indicator
		Start	End	Start	End	
...

3) **Indicators**

Indicator	Unit	2020	2025
...

4) **Financial details**

Type	Source	2020	2025
Local authority
External resources
Total

5) **Stakeholder engagement**

Stakeholder	Engagement method	Frequency	Responsible party
Local authority
External stakeholders

6) **Budget**

Year	Initial budget	Actual budget
2020
2021

7) **Monitoring process**

...

Climate Change Risks and Vulnerabilities HOME

Risk & Vulnerability Assessment (RVA)

Note that the online platform MyCovenant applies an IT solution through which tables in the RVA are generated automatically and pre-filled depending on previously made selections. While content in this file and in MyCovenant is the same, the method of completion of the RVA will slightly differ.

- Ⓞ Underlined words are defined, definitions are visible upon clicking the respective cell. Definitions of climate hazards, sectors, adaptive capacity factors are provided in the reporting guidelines.
- Ⓞ To choose options from a predefined list, copy and paste the relevant option(s). "Single choice" indicates only one option is possible; "multiple choice" indicates more than one options are possible.

Table 1) Climate hazards

Climate hazards	Current risk of hazard occurring >>		Future hazards <<			
	Probability of hazard	Impact of hazard	Expected change in hazard intensity	Expected change in hazard frequency	Time frame(s)	
<small>Ⓞ Step 1) Check the boxes for the climate hazards that are applicable to your local authority >>> Step 2) Fill in all green fields for the selected hazards by choosing (i.e. copying and pasting) options in row 14 >>> Step 3) Optionally, fill in information for the relevant sub-hazards (do not fill anything for sub-hazards that are not relevant).</small>						
	Single choice: Low Moderate High Not known	Single choice: Low Moderate High Not known	Single choice: Increase Decrease No change Not known	Single choice: Increase Decrease No change Not known	Multiple choice: Short-term Medium Long-term Not known	
<input checked="" type="checkbox"/> Extreme heat	Low	Moderate	Increase	Increase	Short-term	
<input checked="" type="checkbox"/> Extreme cold	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input checked="" type="checkbox"/> Heavy precipitation	High	High	No change	Increase	Short-term	
<input type="checkbox"/> Heavy rainfall	High	Moderate	Increase	Increase	Short-term	
<input type="checkbox"/> Heavy snowfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Fog	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Hail	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input checked="" type="checkbox"/> Floods & sea level rise	High	High	Not known	Increase	Short-term	
<input type="checkbox"/> Flash / surface flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> River flood	High	High	Not known	Increase	Short-term	
<input type="checkbox"/> Coastal flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Groundwater flood	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Permanent inundation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input checked="" type="checkbox"/> Droughts & water scarcity	Low	Moderate	Increase	Increase	Short-term	
<input checked="" type="checkbox"/> Storms	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Severe wind	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Tornado	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Cyclone (hurricane / typhoon)	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Tropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Extratropical storm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Storm surge	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Lightning / thunderstorm	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input checked="" type="checkbox"/> Mass movement	Low	Moderate	Not known	Increase	Short-term	
<input type="checkbox"/> Landslide	Low	Moderate	Not known	Increase	Short-term	
<input type="checkbox"/> Avalanche	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Rockfall	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Subsidence	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input checked="" type="checkbox"/> Wild fires	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Forest fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Land fire	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input checked="" type="checkbox"/> Chemical changes	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Subwater acidification	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Ocean acidification	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Atmospheric CO2 concentration	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input checked="" type="checkbox"/> Biological hazards	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Water-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Vector-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Air-borne disease	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input type="checkbox"/> Insect proliferation	[Please choose]	[Please choose]	[Please choose]	[Please choose]	[Please choose]	
<input checked="" type="checkbox"/> Other	coastal erosion	Low	Moderate	Not known	Increase	Mid-term

Table 2) Vulnerable sectors

Climate hazards	Relevant vulnerable sector(s)	Current vulnerability level	Indicator
<small>Ⓞ Step 4) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/ displayed automatically). Ignore the rest of the hazards. >>> Step 5) Choose (i.e. copy-paste) the relevant sectors from the list. When more than one sector is relevant, add separate rows for each sector and indicate the level of vulnerability against each sector identified.</small>			
	Multiple choice: Buildings Tourism Energy Water Waste Land use planning Agriculture & forestry Environment & biodiversity Health Crisis protection & emergency Tourism Education ICT (information & communication technologies) All listed sectors Not known	Single choice: Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.
<input checked="" type="checkbox"/> Extreme heat	Buildings	Low	IND_DIP_STR: Ratio between the population of non-active age (0-14 yrs and + 65 yrs) and the population of active age (15-65 years) compared to the regional data, E20-E31: % of residential buildings with poor state of conservation compared to the total municipal stock; IN_LIF: municipalities affected by Rhinotomopsis ferrugineus. The value of the total weighted indicator (combination of the previous ones) is 0,39
<input checked="" type="checkbox"/> Extreme cold	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/> Heavy precipitation	Buildings Agriculture & forestry Environment & biodiversity	Low	IND_DIP_STR: Ratio between the population of non-active age (0-14 yrs and + 65 yrs) and the population of active age (15-65 years) compared to the regional data, E20-E31: % of residential buildings with poor state of conservation compared to the total municipal

Climate Change Risks and Vulnerabilities

HOME

		Civil protection & emergency	Low
		Tourism	Low
<input checked="" type="checkbox"/>	Floods & sea level rise	Buildings	Low
		Agriculture & forestry	Low
		Environment & biodiversity	Low
		Civil protection & emergency	Low
		Tourism	Low
<input checked="" type="checkbox"/>	Droughts & water scarcity	Buildings	Low
		Agriculture & forestry	Low
		Environment & biodiversity	Low
		Civil protection & emergency	Low
		Tourism	Low
<input type="checkbox"/>	Storms	[Choose from the list above] [Please choose]	
<input checked="" type="checkbox"/>	Mass movement	Buildings	Low
		Agriculture & forestry	Low
		Environment & biodiversity	Low
		Civil protection & emergency	Low
		Tourism	Low
<input type="checkbox"/>	Wild fires	[Choose from the list above] [Please choose]	
<input checked="" type="checkbox"/>	Other	coastal erosion	Moderate
		Buildings	Moderate
		Agriculture & forestry	Moderate
		Environment & biodiversity	Moderate
		Civil protection & emergency	Moderate
		Tourism	Moderate

IND_DP_STR: Ratio between the population of non-active age (0-14 yrs and > 65 yrs) and the population of active age (15-65 years) compared to the regional data; E_30+E_31: % of residential buildings with poor state of conservation compared to the total municipal stock. The value of the total weighted indicator (combination of the previous ones) is 0,30

IND_DP_STR: Ratio between the population of non-active age (0-14 yrs and > 65 yrs) and the population of active age (15-65 years) compared to the regional data; R_F: % of area with risk of fire of forest with medium or high level; SPI: # of February monthly/quarterly with SPI values <-1 (drought season) in the period 1961-2020. The value of the total weighted indicator (combination of the previous ones) is 0,28

IE_V: Average of the vulnerability indicators derived from "AnCoRif" project=0,54

(0) Specify your indicators in Annex 3, Table 1 (optional)

Table 3) Adaptive capacity

Impacted sector(s)	Relevant climate hazard(s)	Adaptive capacity factor(s)	Current adaptive capacity level	Indicator	
(0) Step 8) If any with a tick box the sectors which have been identified in Table 2 above, in respect of all climate hazards (in the online template, the list of sectors will be generated/displayed automatically. The online template will also generate automatically the hazards relevant to each sector as in Table 2, there is no need to fill in this information below) >>> Step 9) Choose (i.e. copy-paste) the relevant adaptive capacity factors from the list. When more than one adaptive factor is relevant, add separate rows for each factor and indicate the level of adaptive capacity against each factor.					
	(0) Column not to be filled in	Multiple choice Access to services Socio-economic Governmental & institutional Physical & environmental Knowledge & innovation	Single choice Low Moderate High Not known	Choose an indicator from Annex 3, Table 1, along with a unit and numeric value, or write down your own indicator.	
<input type="checkbox"/>	Building	[to be generated automatically in online template]	Socio-economic	High	IVEM: Social and material vulnerability index = 0,70
<input type="checkbox"/>	Transport	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Energy	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Water	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Waste	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	Land use planning	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Agriculture & forestry	[to be generated automatically in online template]	Socio-economic	High	IVEM: Social and material vulnerability index = 0,70
<input checked="" type="checkbox"/>	Environment & biodiversity	[to be generated automatically in online template]	Governmental & institutional	Low	RCA_H: % of financial regional resources for food and territories: 0,30
<input type="checkbox"/>	Health	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input checked="" type="checkbox"/>	Civil protection & emergency	[to be generated automatically in online template]	Governmental & institutional	Moderate	M_E_P: # of municipal emergency plans and state of update: 0,40
<input checked="" type="checkbox"/>	Tourism	[to be generated automatically in online template]	Physical & environmental	Moderate	IE_V: Average of the vulnerability indices derived from "AnCoRif" project: 0,54
<input type="checkbox"/>	Education	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]
<input type="checkbox"/>	ICT (Information & communication technologies)	[to be generated automatically in online template]	[Choose from the list above]	[Please choose]	[Choose from Annex 3 or write down your own]

(0) Specify your indicators in Annex 3, Table 2 (optional)

Table 4) Vulnerable population groups

Climate hazards	Most vulnerable population groups(s)	
(0) Step 8) Mark again with a tick box the same hazards selected in Table 1 above (in the online template, these hazards will be generated/displayed automatically). Ignore the rest of the hazards >>> Step 9) Choose (i.e. copy-paste) the most vulnerable population groups from the list. When more than one group is relevant, add in the same cell and separate with a comma.		
	Multiple choice Women and girls Children Youth Elderly Marginalized groups Persons with disabilities Persons with chronic disease Low-income households Unemployed persons Persons living in sub-standard housing Migrants and displaced people Other All listed population groups Not known	
<input checked="" type="checkbox"/>	Extreme heat	All
<input type="checkbox"/>	Extreme cold	[Choose from the list above]
<input checked="" type="checkbox"/>	Heavy precipitation	All
<input checked="" type="checkbox"/>	Floods & sea level rise	All
<input checked="" type="checkbox"/>	Droughts & water scarcity	All
<input type="checkbox"/>	Storms	[Choose from the list above]
<input checked="" type="checkbox"/>	Mass movement	All
<input type="checkbox"/>	Wild fires	[Choose from the list above]
<input type="checkbox"/>	Other	Coastal erosion

Additional comments

The risk and vulnerability assessment was developed following the methodological guidelines defined by the lead partner Unicam, based on the methodological framework defined by the International Panel on Climate Change (IPCC) in the Fifth Assessment Report and on the Vulnerability Sourcebook by Ciz. The methodology was based on 7 modules (m1) Preparing the risk assessment; m2 Developing impact chains; m3 Identifying and selecting indicators; m4 Data acquisition and management; m5 Normalisation of indicator data; m6 Weighting and a comparison of indicators; m7 Aggregating risk components to risk.

Action Plan

[HOME](#)

1) Action plan(s) and other related documents

1) Action plan(s)

ⓘ Add as many rows as necessary. Minimum 1 action plan document

Title	Short description	Date of formal approval	Decision body approving the plan	Nature of the document	Scope / Boundary	Language	Published?
Piano di Azione congiunto area target 2 della Regione Abruzzo - Progetto Joint-SECAP	Joint SECAP of the municipalities of SIM, Pineto, Roseto degli Abruzzi, Giulianova and Mosciano S. Angelo	[dd/mm/yy]	Council decision (TBD)	Integrated climate plan (addressing both mitigation and adaptation)	Greater than municipality's boundary	Italian	<input type="checkbox"/>

2) Other related documents

ⓘ Add as many rows as necessary.

Title	Short description	Date	Author(s)	Nature of the document	Scope / Boundary	Method & Sources	Language	Published?
		[dd/mm/yy]						<input type="checkbox"/>
		[dd/mm/yy]						<input type="checkbox"/>
		[dd/mm/yy]						<input type="checkbox"/>

Comments [v]

ⓘ Click on the [+/-] button on the left to expand or collapse.

List of actions

4) Adaptation actions

ⓘ Only if your local authority is committed to adaptation.

Adaptation sectors	Number of actions included in the plan
Buildings	0,6
Transport	1,4
Energy	0,1
Water	0,6
Waste	0,7
Land Use Planning	1,0
Agriculture & Forestry	2,5
Environment & Biodiversity	2,0
Health	0,4
Civil Protection & Emergency	0,1
Tourism	1,2
Education	2,0
ICT (Information & communication technologies)	0,1
Other	0,1
TOTAL	13

Action plan implementation status			
Completed (%)	On-going (%)	Postponed (%)	Not-started (%)
			100%
	72%		28%
			100%
			100%
	46%		54%
			100%
			100%
			100%
			100%
	68%		32%
	42%		58%
			100%
			100%

Key Action1 HOME

Actions

Ⓜ Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action Ⓜ Only in combination with "Mitigation" and/or "Adaptation" actions

Mitigation
 Adaptation
 Energy poverty

2) Title of the action **JOINT ACTION: Communication and involvement of citizens, enterprises and tourist sector on issues related to climate change**

3) Origin of the action **Local authority**

4) Responsible body **Municipal offices of the Covenant of Mayors**

5) Short description

All the Municipalities, except Giulianova, of the JOINT-SECAP cooperate for this action, with the support of the Abruzzo Region, because they deem it necessary to involve the local businesses, citizens and tourism sector in a functional way. The action provides for the organization of information, communication and training events for citizens, business company and tourism sector. In fact, all the three groups are among the main subjects to suffer the consequences of the climate change underway, including dissemination for improving the energy efficiency of buildings through the insulation of the envelop.

6) Implementation timeframe

Start	2016
End	2020

7) Implementation status **Ongoing**

8) Stakeholders involved

Sub-national government(s) and/or agency(ies)	Ⓜ For multiple choice, insert additional rows as needed
Business & private sector	
Education sector	
NGOs & civil society	
Citizens	

8) Stakeholders involved

Additional comments

The stakeholders are involved through a Focus group and communication via email, telephone and web meetings managed by the Abruzzo Region and the municipal representatives. The role of stakeholders outside the Municipality is to provide information and promote the communication campaign as far as they are concerned. ENEA participates in communication as regional opinion leaders, participation in information days also through the "ITALY in class A" campaign. The CDCA carries out communications on social media, creation of information materials, workshops in schools and during public initiatives. The funds are regional structural "Communicate to Protect" or other types. The Ministry supports through national plans and local actions through CREIAMO PA. The role of the Municipalities is to coordinate all the activities as well as to inform on their thematic channels and through the schools. The tourism trade associations will involve and inform the different tourist structures of the area.

9) Total implementation costs

Total implementation costs	7.000	€
Source of funding	Local authority's own resources	
Investment costs	0	€
Non-investment costs	7000	€

B. Adaptation

Ⓜ Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

16) Climate hazard(s) addressed

<input type="checkbox"/> Heavy precipitation	Ⓜ For multiple choice, insert additional rows as needed
<input type="checkbox"/> Mass movement	
<input type="checkbox"/> Droughts and water scarcity	
<input type="checkbox"/> Extreme heat	
<input type="checkbox"/> Wild fires	

19) Sector(s)

<input checked="" type="checkbox"/> Education	Ⓜ For multiple choice, insert additional rows as needed
<input checked="" type="checkbox"/> Tourism	

20) Outcome(s) reached

Description: Specifically, the expected result of the form is the communication:

- to farms located in the territory of the target areas,
- to trade associations in the agricultural sector (eg. Confagricoltura, Coldiretti, etc.),
- to citizens and their associations,
- to operators of the tourism sector and their associations,
- to companies in the industrial sector with the highest daily water consumption per employee
- to trade associations in the industrial sector (eg. Confindustria, Confindustria, etc.).

The organization of training and information events can take place through:

- round tables, focus groups, workshops;
- activation of accompanying paths to obtain green certifications, by strengthening the SUAP (Single Desk for Productive Activities);
- activation of accompanying paths to obtain European, national and regional funding

Related indicator	n° of events/meetings organized	12	NL
Related indicator	n° of citizens reached by the communication activities	6000	NL

21) Vulnerable population group(s) targeted

22) Avoided cost

0	€
---	---

23) Life expectancy of the action

14	years
----	-------

24) Return on Investment

0	%
---	---

25) Jobs created

0	Full-time equivalent
---	----------------------

26) Other figures

[Please specify]	[numerical value]	[Unit]
------------------	-------------------	--------

C. Energy poverty

Ⓜ Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted

28) Outcome(s) reached

Description: [Please specify] [numerical value] [Unit]

Related indicator: [Please specify] [numerical value] [Unit]

Further information

30) Weblink

31) Video link

32) Picture

Key Action2 HOME

A. Action

Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action Mitigation Adaptation Energy poverty (Only in combination with 'Mitigation' and/or 'Adaptation' actions)

2) Title of the action: **JOINT ACTION: Promotion of activities for saving, recycling and reusing water, also reducing the use of plastic in schools**

3) Origin of the action: **Local authority**

4) Responsible body: **Municipal Offices of the Consorzio di Mezzano**

5) Short description: **All the Municipalities of the JOINT-SECAP with the exception of Giulianova cooperate for this action, with the support of the Abruzzo Region, because they believe it necessary to involve the citizens of the territory in a functional way. The action provides for the organization of information, communication and training events for citizens. Citizens are in fact among the main subjects who can contribute to the activity of saving, recycling and reusing water. This action allows both a better climatic adaptation due to the scarcity of the water resource, and a reduction in energy consumption, linked to the production of hot water and the use of electric pumps. Another goal is to increase the consumption of drinking water from the public aqueduct, also to reduce plastic waste from the consumption of bottled mineral water. The actions also provide for the free distribution of water bottles to students and the installation of water columns at the entrance to schools.** 254 characters left

6) Implementation timeframe: Start: **2021** End: **2030**

7) Implementation status: **Not started**

8) Stakeholders involved: Sub-national government(s) and/or agency(ies) Business & private sector Education sector Citizens (For multiple choice, insert additional rows as needed)

Additional comments: **The stakeholders were involved through a Focus group and through the communication activity via email, telephone and webmeetings managed by the territorial coordinator (Abruzzo Region) and the municipal representatives. The role of stakeholders external to the Municipality is to provide information and information material for the communication campaign as well as to disseminate information to citizens, including young students, as far as they are concerned, also providing free water bottles for the water in aluminum. The role of the Municipalities is to coordinate all activities as well as to inform on their thematic channels what is proposed in this sheet.**

9) Total implementation costs: 30.000 €
 Source of funding: **Public-private partnerships** €
 Investment costs: 25000 €
 Non-investment costs: 5000 €

B. Adaptation

Only for actions addressing adaptation. Click on the [-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: **Droughts and water scarcity** (For multiple choice, insert additional rows as needed)

19) Sector(s): **Water** (For multiple choice, insert additional rows as needed)
Waste
Environment & biodiversity
Education

20) Outcome(s) reached:

Description: **The objective of the action is to promote the rational use of water and the reduction of using plastic bottles through meetings, training, dissemination of information material and installation of water distributors. The promotion focuses on both technological and behavioral aspects. Citizens are informed of the different practices:**
 • less use of plastic due to the lower purchase of bottled water;
 • low-flow toilet drain;
 • low-consumption taps and showers;
 • flowward pressure reducers;
 • low-water consumption appliances;
 • reuse of gray water and recovery of rainwater.
 Furthermore, through the dissemination of good behavioral practices, which do not require the use of particular devices, but a change in daily actions, unnecessary waste will be avoided. The action includes the distribution of aluminum bottles at school for students and the installation of water distributors in order to increase the use of water from local distributor and to reduce the use of plastic bottles. 254 characters left

Related indicator:

Number of events / activities organized	6	N.
Number of water distributors installed	3	N.
Number of people involved	6000	N.
Number of aluminum bottles distributed	1500	N.

21) Vulnerable population group(s) targeted: (For multiple choice, insert additional rows as needed)

22) Avoided cost: 0 €

23) Life expectancy of the action: 9 years

24) Return on investment: 0 %

25) Jobs created: 0 full-time equivalent

26) Other figures:

[Please specify]	[numerical value]	[Unit]
------------------	-------------------	--------

C. Energy poverty

Only for actions addressing energy poverty. Click on the [-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: **[Drop-down]** (For multiple choice, insert additional rows as needed)

28) Outcome(s) reached:

Description: 1000 characters left

Related indicator:

[Please specify]	[numerical value]	[Unit]
------------------	-------------------	--------

Further information

30) Weblink:

31) Video link:

32) Picture:

Key Action3

HOME

Actions

Ⓞ Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action	<input type="checkbox"/> Mitigation <input checked="" type="checkbox"/> Adaptation <input type="checkbox"/> Energy poverty	Ⓛ Only in combination with 'Mitigation' and/or 'Adaptation' actions								
2) Title of the action	JOINT ACTION: Activation of an inter-municipal committee "soil consumption"									
3) Origin of the action	Other (national, regional, ...)									
4) Responsible body	Abruzzo Region									
5) Short description	<p>The action for all municipalities was proposed by the Abruzzo Region and sees the creation of an inter-municipal environmental defence body for "land consumption" in the 4 Municipalities of the target area 1. The environmental defence body will have the task of providing an updated summary of the transformation processes of the territory, the state of degradation and the impact of land use on the landscape and ecosystem services. The compromise of the soil causes damage to the climate because it alters the regulation of carbon, it also prevents the retention of a large part of the precipitation waters that flow downstream, enhancing flood phenomena on the one hand and desertification on the other. Abruzzo accounts for 4.96% of land consumed, according to the Ispra 2020 report. The regional per capita land consumption is 1.60 square meters /inhabitant against the national average of 0.9 square meters.</p>									
6) Implementation timeframe	Start: 2022 End: 2030	80 characters left								
7) Implementation status	Not started									
8) Stakeholders involved	<input type="checkbox"/> Sub-national governments(s) and/or agency(ies) <input type="checkbox"/> Trade unions <input type="checkbox"/> NGOs & civil society <input type="checkbox"/> Citizens	Ⓛ For multiple choice, insert additional rows as needed								
8) Additional comments	<p>The stakeholders will be involved through communication activities via email, telephone and web meetings managed by the Abruzzo Region in collaboration with the project partners. This action must be accompanied by greater maintenance of the territory (and not only of the infrastructures) based on criteria of renaturalization and restoration of ecological functionality. In particular, the Region must favor the recovery of the water retention capacity in the hilly areas, promoting the maintenance and, where possible, the increase of the structured and quality wooded area and renaturalizing the watercourses to guarantee a real reduction of hydrogeological risk. There must be clear opposition to any new construction in the river beds and it is essential to recover and expand the natural flooding areas of the rivers in the valley bottoms and plains to allow adequate management of the increasingly frequent devastating and sudden flood events.</p>									
9) Total implementation costs	<table border="1"> <tr> <td>0</td> <td>€</td> </tr> <tr> <td>Source of funding: Regional funds and programmes</td> <td></td> </tr> <tr> <td>Investment costs: 0</td> <td>€</td> </tr> <tr> <td>Non-investment costs: 0</td> <td>€</td> </tr> </table>	0	€	Source of funding: Regional funds and programmes		Investment costs: 0	€	Non-investment costs: 0	€	
0	€									
Source of funding: Regional funds and programmes										
Investment costs: 0	€									
Non-investment costs: 0	€									
B. Adaptation										
Ⓞ Only for actions addressing adaptation. Click on the [+] buttons on the left to expand or collapse										
18) Climate hazard(s) addressed	<input checked="" type="checkbox"/> Heavy precipitation <input type="checkbox"/> Mass movement	Ⓛ For multiple choice, insert additional rows as needed								
18) Climate hazard(s) addressed										
19) Sector(s)	<input checked="" type="checkbox"/> Land use planning <input checked="" type="checkbox"/> Environment & biodiversity <input checked="" type="checkbox"/> Agriculture & forestry <input type="checkbox"/> Buildings	Ⓛ For multiple choice, insert additional rows as needed								
19) Sector(s)										
20) Outcome(s) reached	<table border="1"> <tr> <td>Description:</td> <td colspan="2">The expected result is to progressively reduce land consumption by making it tend towards the national average value of 0.9 m2 /inhabitant.</td> </tr> <tr> <td>Related indicator:</td> <td>land consumption per capita</td> <td>0,9 m2/person</td> </tr> </table>	Description:	The expected result is to progressively reduce land consumption by making it tend towards the national average value of 0.9 m2 /inhabitant.		Related indicator:	land consumption per capita	0,9 m2/person	800 characters left		
Description:	The expected result is to progressively reduce land consumption by making it tend towards the national average value of 0.9 m2 /inhabitant.									
Related indicator:	land consumption per capita	0,9 m2/person								
21) Vulnerable population group(s) targeted	Ⓛ For multiple choice, insert additional rows as needed									
22) Avoided cost	0	€								
23) Life expectancy of the action	8	years								
24) Return on investment	0	%								
25) Jobs created	0	full-time equivalent								
26) Other figures	(Please specify)	[numerical value] [Unit]								
C. Energy poverty										
Ⓞ Only for actions addressing energy poverty. Click on the [+] buttons on the left to expand or collapse										
27) Vulnerable population group(s) targeted	[Drop-down]									
27) Vulnerable population group(s) targeted										
28) Outcome(s) reached	<table border="1"> <tr> <td>Description:</td> <td colspan="2">(Please specify)</td> </tr> <tr> <td>Related indicator:</td> <td>(Please specify)</td> <td>[numerical value] [Unit]</td> </tr> </table>	Description:	(Please specify)		Related indicator:	(Please specify)	[numerical value] [Unit]	800 characters left		
Description:	(Please specify)									
Related indicator:	(Please specify)	[numerical value] [Unit]								
Further information										
30) Weblink	www									
31) Video link	www									
32) Picture	[upload]									

Key Action4

HOME

Actions

Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty (Only in combination with "Mitigation" and/or "Adaptation" actions)

2) Title of the action: **JOINT ACTION: Monitoring system of the action plan, extreme events, erosion of invasive species and heat waves**

3) Origin of the action: **Other (national, regional, ...)**

4) Responsible body: **Consent of Mayor responsible**

5) Short description: **Number of Municipalities involved: 4. Total number of Municipalities of the target area: 5. The Municipalities (except Giulianova) cooperate for this action, supported by the Abruzzo Region, because they consider it necessary to implement a monitoring and alert system in case of extreme events. This action provides for agreements with civil protection and other bodies, to promote a weather alert service to citizens and tourism, industrial, agricultural sectors, for forecasts of imminent climatic danger. This service is provided through messages on social networks and / or through messages to mobile phones and / or through APPs for mobile phones and computers. Municipalities will plan the most suitable communication activities and methodologies. The system also predicts, monitors and prevents heat waves and the health effects of the vulnerable population. The System processes the data on a daily basis and distributes the meteorological bulletin** 150 characters left

6) Implementation timeframe: **Start: 2021, End: 2030**

7) Implementation status: **Not started**

8) Stakeholders involved: **National government and/or agency(ies), Sub-national governments(3) and/or agency(ies), NGOs & civil society, Citizens** For multiple choice, insert additional rows as needed

Additional comments: **The stakeholders were involved through the communication activities via email, telephone and web meetings managed by the territorial coordinator (Abruzzo Region) and the municipal representatives. The role of stakeholders outside the Municipality is to provide information and support the Municipality in order to monitor heat waves and others extreme events, both through weather forecasting and to verify the number of hospital patients due to heat waves. Another role of stakeholders involved in services for the elderly is to communicate how to adapt to heat waves and plan specific activities for the hottest periods of the year and subject to heat waves. The role of the Municipalities is to coordinate all the activities in this sheet as well as inform the entire population, with particular attention to vulnerable groups, of the risks of future heat waves and extreme events at 1,2 and 3 days.** 60 characters left

9) Total implementation costs: **16 800 €**

Source of funding	Regional funds and programmes	€
Investment costs	12500	€
Non-investment costs	3500	€

A. Mitigation

Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

B. Adaptation

Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: **Extreme heat, Extreme cold, Heavy precipitation, Floods and sea level rise, Storms** For multiple choice, insert additional rows as needed

19) Sector(s): **All listed sectors** For multiple choice, insert additional rows as needed

20) Outcome(s) reached:

Description: **The heat wave and other extreme events monitoring and warning system results in an analysis of the weather forecast in order to predict future dangerous events in the area. Cases of patients who are hospitalized at local ASL, following illness from heat waves are also monitored. Following a heat wave or other extreme events risks, the Municipalities take action in order to assess the possible risk throughout the territory, through a communication campaign aimed at the entire population and in particular to the most vulnerable people. A communication system programmed for the most vulnerable people is activated to adapt to heat waves. Municipalities and Abruzzo Region collaborate with "homes for the elderly" and clubs for the elderly to activate a specific program of activities that will be held during the hottest periods of the year. Other communication campaigns will be done to be ready by all sectors and citizens on how to reduce the damage in case of extreme events.** 150 characters left

Related indicator	N° of event meetings organized	12	N
Related indicator	Alert system in case of extreme events	1	N
Related indicator	Summer events for all the municipalities	9	N
Related indicator	People informed	2000	N

21) Vulnerable population group(s) targeted: **Elderly** For multiple choice, insert additional rows as needed

22) Avoided cost: **0 €**

23) Life expectancy of the action: **9 years**

24) Return on investment: **0 %**

25) Jobs created: **0 full-time equivalent**

26) Other figures: **[Please specify] [numerical value] [Unit]**

C. Energy poverty

Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted: **Drop-down** For multiple choice, insert additional rows as needed

28) Outcome(s) reached:

Description: **[Please specify]** 1000 characters left

Related indicator: **[Please specify] [numerical value] [Unit]**

Further information

30) Web link: **www.**

31) Video link: **www.**

32) Picture: **[upload]**

Key Action5 HOME

Actions
Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action Mitigation
 Adaptation
 Energy poverty Only in combination with "Mitigation" and/or "Adaptation" actions

2) Title of the action **JOINT ACTION Viticulture project - Region - Wines Protection Consortium agreement to prevent climate change**

3) Origin of the action **Other (national, regional, ...)**

4) Responsible body **Wines Protection Consortium**

5) Short description Number of Municipalities involved: 5 Total number of Municipalities of the target area: 5
 The project foresees the collaboration between the Region and the Consortium for the protection of wines to implement a climate register of the wine seasons and to strengthen the monitoring network thanks to the purchase of new meteorological control units.
 The Climate register of wine seasons will collect data and will provide useful information to anticipate the impact of the climate changes on viticulture, helping farmers to set the most suitable agronomic strategies.
 The project also provides for the drafting of the "Vintage Report", which will be able to give a longer term decision support to those who want to invest in viticulture in Abruzzo, but also provide producers with a clear picture of climate change and its consequences.
102 characters left

6) Implementation timeframe
 Start: 2021
 End: 2030

7) Implementation status **Not started**

8) Stakeholders involved **Sub-national governments(s) and/or agency(ies)**
Business & private sector For multiple choice, insert additional rows as needed
 Additional comments
 Stakeholders were involved through emails, calls and meetings.
 The increase of temperatures in some wine-growing areas of the region, in recent years, especially in the non-irrigated hilly vineyards, has shown the anticipation of the phenological phases and the acceleration of the ripening process of the grapes with the consequent increase in sugar concentration and alcohol content of wines. A process that is alarming the sector.

9) Total implementation costs **490.000** €
 Source of funding: **Regional funds and programmes**
 Investment costs: **490000** €
 Non-investment costs: _____ €

A. Mitigation
Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

B. Adaptation
Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed **Extreme heat** For multiple choice, insert additional rows as needed

19) Sector(s) **Agriculture & forestry** For multiple choice, insert additional rows as needed

20) Outcome(s) reached
 Description: **The purchase of new meteorological stations (actually they are 25) that will be located on the regional territory will be a valid support in terms of prevention and study in support of the regional agricultural sector. The number of control units that will be installed in each Municipality haven't been already decided.** 177 characters left
 Related indicator: **n° of new meteorological stations purchased in Abruzzo**

22	N.
----	----

21) Vulnerable population group(s) targeted _____ For multiple choice, insert additional rows as needed

22) Avoided cost **0** €

23) Life expectancy of the action **9** years

24) Return on investment **0** %

25) Jobs created **0** full-time equivalent

26) Other figures

(Please specify)	[numerical value]	[Unit]
------------------	-------------------	--------

C. Energy poverty
Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted **[Drop-down]** For multiple choice, insert additional rows as needed

28) Outcome(s) reached
 Description: _____ 1000 characters left
 Related indicator:

(Please specify)	[numerical value]	[Unit]
------------------	-------------------	--------

Further information

30) Weblink **www.**

31) Video link **www.**

32) Picture **[upload]**

Key Action6

HOME

Actions

Ⓜ Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

<input checked="" type="checkbox"/>	Mitigation
<input checked="" type="checkbox"/>	Adaptation
<input checked="" type="checkbox"/>	Energy poverty

Ⓜ Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action
JOINT ACTION: TIGER praed - energy renovation in social housing buildings and communication activities to tackle energy poverty

3) Origin of the action
Other (national, regional, ...)

4) Responsible body
Abruzzo Region

5) Short description

Number of Municipalities involved: 5 Total number of Municipalities of the target area: 5
 TIGER (Triggered Investments for Grouping of buildings in Energy Renovation) aims to provide technical assistance to social housing operators (ATERS) to prepare tenders for energy renovation of their buildings and to introduce innovative financing mechanisms that combine the Energy Performance Contract with other financial instruments (i.e. Superbonus, White Certificates, Thermal Account, Structural Funds, ...). TIGER involves over 1500 families living in 126 buildings, located in 56 municipalities in Abruzzo. Further a capacity building programme for tenants and a awareness campaign will be set up to encourage vulnerable consumers to change their energy related behaviour. [Read more of the project on 2 resources on the AGEM and AERS E-ATERS and AISOP - Annex for Inspection, Development](#)

16 characters left

6) Implementation timeframe

Start:	2021
End:	2024

7) Implementation status
Not started

8) Stakeholders involved

Sub-national government(s) and/or agency(ies)
Citizens
Business & private sector

Ⓜ For multiple choice, insert additional rows as needed

Additional comments

Stakeholders have been involved since the drafting of the proposal through mail and phone call to collect their expressions of interest in participating in the project. In the future they will be involved through communication activities via email, telephone and web meetings managed by the Abruzzo Region in collaboration with the project partners. The role of the stakeholders is to promote and finalize the initiative.

9) Total implementation costs

Total implementation costs	17.067.075	€
Source of funding	EU funds and programmes	
	National funds and programmes	
	Other	
Investment costs	16000000	
Non-investment costs	1067075	€

A. Mitigation

Ⓜ Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

B. Adaptation

Ⓜ Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed

Extreme heat
Extreme cold

Ⓜ For multiple choice, insert additional rows as needed

19) Sector(s)
20) Outcome(s) reached

Buildings
Education

Ⓜ For multiple choice, insert additional rows as needed

Ⓜ For multiple choice, insert additional rows as needed

Description:

For the Municipality of Mosciano S. Angelo, energy efficiency interventions are planned on 1 building for a total of 9 apartments, in which the heat generators and windows will be replaced, improving their thermal comfort. The Municipalities of the entire target area will be involved in communication and awareness raising activities on issues concerning energy efficiency and financing through social networks, distribution of brochures, activation of information helpdesks.

223 characters left

Related indicator: % of renovated dwellings	9	N.
Related indicator: % of citizens reached by the communication activities in the target area	360	N.

21) Vulnerable population group(s) targeted
Persons living in sub-standard housing

Ⓜ For multiple choice, insert additional rows as needed

22) Avoided cost
0 €

23) Life expectancy of the action
3 years

24) Return on investment
0 %

25) Jobs created
0 full-time equivalent

26) Other figures

[Please specify]	[numerical value]	[Unit]
------------------	-------------------	--------

C. Energy poverty

Ⓜ Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

27) Vulnerable population group(s) targeted
Persons living in sub-standard housing

Ⓜ For multiple choice, insert additional rows as needed

28) Outcome(s) reached

Description:

[Please specify] [numerical value] [Unit]

1000 characters left

Further information

30) Weblink

31) Video link

32) Picture

Key Action7

[HOME](#)

Actions

Ⓜ Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action	<input type="checkbox"/> Mitigation <input type="checkbox"/> Adaptation <input type="checkbox"/> Energy poverty	Ⓜ Only in combination with 'Mitigation' and/or 'Adaptation' actions
2) Title of the action	JOINT ACTION: Creation of a working group among Joint SECAP Municipalities to monitor the impacts of climate change and the effectiveness of the actions of the Plan	
3) Origin of the action	Local authority	
4) Responsible body	All five municipalities - Covenant of Mayors' responsible/office	
5) Short description	<p>Number of Municipalities involved: 5 Total number of Municipalities of the target area: 5</p> <p>All the Municipalities joint this action, because they consider necessary to foster institutional cooperation and joint approaches among local authorities operating in the same territorial area for mitigation and for adaptation to climate change as well as for the monitoring of the plan. The action envisages the setting up of an inter-municipal working group, coordinated by the local coordinator. The working group is composed by the internal staff of each Municipality, supported by the CoM territorial coordinator and by external expert. The monitoring of the impacts of climate change may take place at least every two years, in line with the deadline set out in the CoM and can be achieved through a system set up ad hoc for the municipalities of the target area.</p>	
6) Implementation timeframe	Start: 2021 End: 2030	
7) Implementation status	Not started	
8) Stakeholders involved	National government and/or agency(ies)	Ⓜ For multiple choice, insert additional rows as needed
9) Stakeholders involved	Sub-national governments(s) and/or agency(ies)	
9) Total implementation costs	0 € Source of funding: Local authority's own resources Investment costs: € Non-investment costs: €	
A. Mitigation		
Ⓜ Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse		
B. Adaptation		
Ⓜ Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse		
18) Climate hazard(s) addressed	Other	Ⓜ For multiple choice, insert additional rows as needed
19) Sector(s)	All listed sectors	Ⓜ For multiple choice, insert additional rows as needed
20) Outcome(s) reached	<p>Description: The expected result is the simplified or full monitoring report, including the periodic verification of different factors, such as:</p> <ul style="list-style-type: none"> number, site, location and damages caused by forest fires; number, intensity and damages to the agricultural and / or industrial production system from drought; number, intensity and damages to the agricultural production system due to intense rainfall; number, site, location and damages caused by landslides or floods; number, intensity and effects on people's health caused by possible heat waves in the summer period. 	
21) Vulnerable population group(s) targeted	Related indicator: n° of biennial monitoring: 4 n	
22) Avoided cost	0	€
23) Life expectancy of the action	9	years
24) Return on investment	0	%
25) Jobs created	0	full-time equivalent
26) Other figures	(Please specify)	(numerical value) (Unit)
C. Energy poverty		
Ⓜ Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse		
Further information		
30) Weblink	www.	
31) Video link	www.	
32) Picture	[upload]	

Key Action8
HOME

Actions

Ⓜ Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action Mitigation Adaptation Energy poverty Ⓜ Only in combination with "Mitigation" and/or "Adaptation" actions

2) Title of the action

3) Origin of the action

4) Responsible body

5) Short description 250 characters left

6) Implementation timeframe

7) Implementation status

8) Stakeholders involved Ⓜ For multiple choice, insert additional rows as needed

Additional comments

9) Total implementation costs €
Source of funding: €
Investment costs: €
Non-investment costs: €

A. Mitigation

Ⓜ Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

B. Adaptation

Ⓜ Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed Ⓜ For multiple choice, insert additional rows as needed

19) Sector(s) Ⓜ For multiple choice, insert additional rows as needed

20) Outcome(s) reached

Related indicator 275 characters left

21) Vulnerable population group(s) targeted Ⓜ For multiple choice, insert additional rows as needed

22) Avoided cost €

23) Life expectancy of the action years

24) Return on investment %

25) Jobs created full-time equivalent

26) Other figures (Please specify) (numerical value) (Unit)

C. Energy poverty

Ⓜ Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

Further information

30) Weblink

31) Video link

32) Picture

Key Action9

[HOME](#)

Actions

① Copy as many "actions" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

① Only in combination with 'Mitigation' and/or 'Adaptation' actions

2) Title of the action: JOINT ACTION: beach sea litter collection

3) Origin of the action: Other (national, regional, ...)

4) Responsible body: Environment association Legambiente

5) Short description:

Municipalities involved 4/5. The action includes awareness-raising campaigns to reduce beach litter and to address the emergency of marine litter on Adriatic beaches. The initiative stems from the need to protect the beaches environmental heritage and promotes a productive dialogue with the tourist operators and with citizens, starting from sharing good practices to follow for a correct waste management and to raise awareness of the consequences of waste littering. A pilot initiative has already started since 2019 in Grotanova thanks to the project "Fishing for litter": For sea litter it is provided an agreement among port authority and fishing boats. This pilot initiative is going to be shared and extended to all the other municipalities. The Marine Protected Area is setting up an Info Point in the Municipality of Sili to promote specific measures for the monitoring of microplastics and the collection of marine waste (DOMM, Local NCT and DUC/Croatia).

6) Implementation timeframe:

Start: 2019
End: 2030

7) Implementation status: Ongoing

8) Stakeholders involved:

Sub-national governments(s) and/or agency(ies)
 NGOs & civil society
 Citizens

Additional comments:

Stakeholders will be involved via email and webmeeting by the Municipality and through the activities envisaged by Legambiente with this project. An example is the first Plastic Free Regional Ecological Walk last 29th August 2020 in the Municipality of Sili.

A. Mitigation

① Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

B. Adaptation

① Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: Floods and sea level rise

18) Climate hazard(s) addressed: Storms

19) Sector(s): Tourism

19) Sector(s): Education

19) Sector(s): Waste

20) Outcome(s) reached:

Description: The success of the action will depend on the number of communication campaigns organized and the number of collection campaigns both on the beach and in the sea. The expected result is a lower presence of waste on the beach and in the sea thanks to the double contribution due to the awareness of the users of these environments and thanks to the waste collection activity.

Related indicator	N. of awareness campaign organized	10	n.
Related indicator	n. of beach and sea collection campaign organized	20	n.

21) Vulnerable population group(s) targeted

22) Avoided cost: 0 €

23) Life expectancy of the action: 11 years

24) Return on investment: 0 %

25) Jobs created: 0 full-time equivalent

26) Other figures:

[Please specify]	[numerical value]	[Unit]

C. Energy poverty

① Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

Further information

30) Weblink:

31) Video link:

32) Picture:

Key Action10 HOME

Actions

Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action Only in combination with 'Mitigation' and/or 'Adaptation' actions

Mitigation
 Adaptation
 Energy poverty

2) Title of the action: **JOINT ACTION Strengthening and maintenance of cycle paths**

3) Origin of the action: **Local authority**

4) Responsible body: **Municipal offices**

5) Short description

Number of Municipalities involved: 4 Total number of Municipalities of the target area: 5
 The action provides for the cleaning and maintenance of the existing cycle paths connecting all the coastal municipalities (Ciclovia Adriatica), as well as an enhancement through the transversal cycle paths, which connect the coast towards the interior of the municipalities themselves and towards the municipalities of hinterland. Clean and sustainable mobility is promoted which always allows a greater number of people to safely use bicycles, or similar means such as scooters, for tourist, work and sports travel; a sustainable cycle path is created in areas of environmental value for a form of alternative tourism; development is supported and the use of bicycles is facilitated as an alternative means of transport to private motorized vehicles to facilitate the decongestion of traffic; the use of the environment and landscape and cultural heritage of the area is encouraged.

6) Implementation timeframe

Start: 2019
 End: 2030

7) Implementation status: **Ongoing**

8) Stakeholders involved

Sub-national governments(s) and/or agency(ies)
 Citizens
 NGOs & civil society

9) Total implementation costs

2,350,000 €
Source of funding: Regional funds and programmes
 Investment costs: 2,350,000 €
 Non-investment costs: €

A. Mitigation
Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

B. Adaptation
Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: **Other**

19) Sector(s): **Transport**

20) Outcome(s) reached

Description:
 Sivi: 2 km of cycle path between via D'Annunzio and the Palestini underpass; Giulianova completion and safety of some cycle paths including the stretch of track close to the monumental sidewalk (I completion lot); Pineto: completion of 1,8 km of cycle path for the stretches of via Piemonte, seafont del Pinar-torretto Cakano-Via Venezia, Via Venezia-historic pine forest-via Cellini.

Related indicator: Cycle path 5 km

21) Vulnerable population group(s) targeted: **All**

22) Avoided cost: 0 €

23) Life expectancy of the action: 11 years

24) Return on Investment: 0 %

25) Jobs created: 0 full-time equivalent

26) Other figures: (Please specify) (numerical value) (Unit)

C. Energy poverty
Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

Further information

30) Weblink:

31) Video link:

32) Picture:

Key Action11 HOME

Actions

ⓘ Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action ⓘ Only in combination with "Mitigation" and/or "Adaptation" actions

Mitigation
 Adaptation
 Energy poverty

2) Title of the action: **JOINT ACTION: Garden of Spontaneous Biodiversity and phytodepuration interventions in the Cerrano area**

3) Origin of the action: **Other (national, regional, ...)**

4) Responsible body: **Steering Committee of River Contract**

5) Short description: **Municipalities involved: 2/5 The action involves the Municipalities of Silvi and Pineto and provides for the transformation of the valley of the Cerrano stream into a garden of spontaneous biodiversity. The intervention aims at an overall renovation of the entire valley, creating the conditions for its tourist usability to be developed along the existing paths, through a pedestrian and cycle path that connects the Marine Protected "Tone del Cerrano" to Atri. This allows a constant monitoring by people visiting the area and it is also foreseen a vegetation buffer zone along the stream bank to reduce surface water and groundwater pollution by filtering, absorbing, retaining, and depositing pollutants in addition to having physical, chemical and biological** 227 characters left

6) Implementation timeframe: **Start: 2021 End: 2030**

7) Implementation status: **Not started**

8) Stakeholders involved: **Sub-national governments(s) and/or agency(ies)** ⓘ For multiple choice, insert additional rows as needed
NGOs & civil society

8) Stakeholders involved: **Additional comments: Stakeholders were involved through the River Contract. The memorandum of understanding (voluntary agreement between local authorities and private people) for the River Contract was signed in 2016 and has as its main objectives: reduction of water pollution, reduction of hydraulic risk, requalification of environmental and landscape systems, sharing of information and dissemination of water culture.**

9) Total implementation costs: **€**

Source of funding:	Regional funds and programmes	€
Investment costs:		€
Non-investment costs:		€

A. Mitigation

ⓘ Only for actions addressing mitigation. Click on the [+/-] buttons on the left to expand or collapse

B. Adaptation

ⓘ Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed: **Heavy precipitation** ⓘ For multiple choice, insert additional rows as needed

19) Sector(s): **Water** ⓘ For multiple choice, insert additional rows as needed
Environment & biodiversity
Tourism
Education

20) Outcome(s) reached:

Description: **The outcome is: Cerrano stream will be bordered by two continuous hedges that define the basin area. Inside the hedges there will be a path that goes from the mouth of the stream to Atri. The hedges will be made up of shrub vegetation of Mediterranean species. In the space between the hedges and the watercourse, a propagation of vegetation will be foreseen through root cuttings of spontaneous plants to perform the natural function of phytoremediation and at the same time to enhance the biodiversity of the place. Along the way, specific areas are identified where to enhance some plants such as the area of elderberries, area of willows or area of flowers attracting butterflies. The interventions are carried out through naturalistic engineering respecting the plant and animal communities that live there.** 197 characters left

Related indicator:	Renovated path	km
Related indicator:	Dedicated areas created for biodiversity	3 n

21) Vulnerable population group(s) targeted: ⓘ For multiple choice, insert additional rows as needed

22) Avoided cost: **0** €

23) Life expectancy of the action: **9** years

24) Return on Investment: **0** %

25) Jobs created: **0** full-time equivalent

26) Other figures: (Please specify) [numerical value] [unit]

C. Energy poverty

ⓘ Only for actions addressing energy poverty. Click on the [+/-] buttons on the left to expand or collapse

Further information

30) Weblink:

31) Video link:

32) Picture:

Key Action12

HOME

Actions

Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action

Mitigation
 Adaptation
 Energy poverty

2) Title of the action: JOINT ACTION: Life + forest Green-Net

3) Origin of the action: Other (national, regional, ...)

4) Responsible body: Abruzzo Region - Department of Environment and territory

5) Short description: Municipality involved: 45. The project, co-financed under the Life + Program, involves the coastal municipalities and has the following objectives: to increase the quantity of green spaces through the ordinary tools of urban planning, to increase the quality of green spaces to enhance their capacity, to determine more favorable climatic conditions than the built areas, to provide shelter and protection to the most vulnerable people, to improve the aesthetic perception of the city, to stimulate tourist attraction and socialization, to increase the resilience of the urban environment, air quality, health and well-being of people in urban areas by connecting existing green areas and providing new ones, in order to create a structural and functional green network.

6) Implementation timeframe: Start: 2021, End: 2025

7) Implementation status: Not started

8) Stakeholders involved: Sub-national government(s) and/or agency(ies), NGOs & civil society, Education sector, Academia, Citizens

8) Stakeholders involved: Additional comments: The project envisages developing a multilevel and multi-actor governance, strengthening the administrative capacity towards climate adaptation of all the levels involved in the planning and management of the territory (Region, Provinces, Municipalities), public and private bodies, in order to collaborate in greening management and planning and to increase their responsibilities and awareness of adaptation measures. The partnership includes the Abruzzo Region, the Municipalities of Ancona, San Benedetto del Tronto - the ATS Città della Costa Teramana, Pescara, the Legambiente association, the University of Camerino, Res Agraria. The CDCA will also provide their contribution in terms of feedback and communication activities thanks to their experience also with the Municipality of Lanciano through the planting of 1000 trees.

9) Total implementation costs: 3 123 197,00 €

Source of funding: EU funds and programmes, Other

Investment costs: 0 €

Non-investment costs: 3 123 197,00 €

A. Mitigation

Only for actions addressing mitigation. Click on the [-] buttons on the left to expand or collapse.

B. Adaptation

Only for actions addressing adaptation. Click on the [+/-] buttons on the left to expand or collapse.

18) Climate hazard(s) addressed: Extreme heat

19) Sector(s): Land use planning, Environment & biodiversity, Health

19) Sector(s): Agriculture & forestry

20) Outcome(s) reached: Description: The outcomes of the project are very ambitious. They provide for the definition of a forestry Contract, the design of the green infrastructure through demonstration actions of soil regeneration, urban micro-forestry and restoration of coastal forests in the municipalities of Pineto and Silvi; the activation of a "Climate Change and Health Observatory" to monitor the effects of heat waves on human health (especially for vulnerable people); the implementation of awareness-raising, communication and support activities that stimulate the direct involvement of citizens, local stakeholders and municipal technicians in the design, construction and management of green infrastructure for climate adaptation.

Related indicator: green areas created, n. dissemination events organised

21) Vulnerable population group(s) targeted: All

22) Avoided cost: 0 €

23) Life expectancy of the action: 4 years

24) Return on Investment: 0 %

25) Jobs created: 0 full-time equivalent

26) Other figures: (Please specify), [numerical value], [Unit]

C. Energy poverty

Only for actions addressing energy poverty. Click on the [-] buttons on the left to expand or collapse.

Further information

30) Weblink: [www.]

31) Video link: [www.]

32) Picture: [upload]

Key Action13

[HOME](#)

Actions

📄 Copy as many "action" tabs as necessary (minimum 3 mitigation actions and 3 adaptation actions)

1) Type of action Mitigation Adaptation Energy poverty 📄 Only in combination with "Mitigation" and/or "Adaptation" actions

2) Title of the action

3) Origin of the action

4) Responsible body

5) Short description 74 character left

6) Implementation timeframe

7) Implementation status

8) Stakeholders involved 📄 For multiple choice, insert additional rows as needed

 Additional comments

9) Total implementation costs €
 Source of funding:
 Investment costs: €
 Non-investment costs: €

A. Mitigation

📄 Only for actions addressing mitigation. Click on the [-] buttons on the left to expand or collapse

B. Adaptation

📄 Only for actions addressing adaptation. Click on the [-] buttons on the left to expand or collapse

18) Climate hazard(s) addressed 📄 For multiple choice, insert additional rows as needed

19) Sector(s) 📄 For multiple choice, insert additional rows as needed

20) Outcome(s) reached 911 character left
 Related indicator:

21) Vulnerable population group(s) targeted 📄 For multiple choice, insert additional rows as needed

22) Avoided cost €

23) Life expectancy of the action years

24) Return on investment %

25) Jobs created full-time equivalent

26) Other figures

C. Energy poverty

📄 Only for actions addressing energy poverty. Click on the [-] buttons on the left to expand or collapse

Further information

30) Weblink

31) Video link

32) Picture