

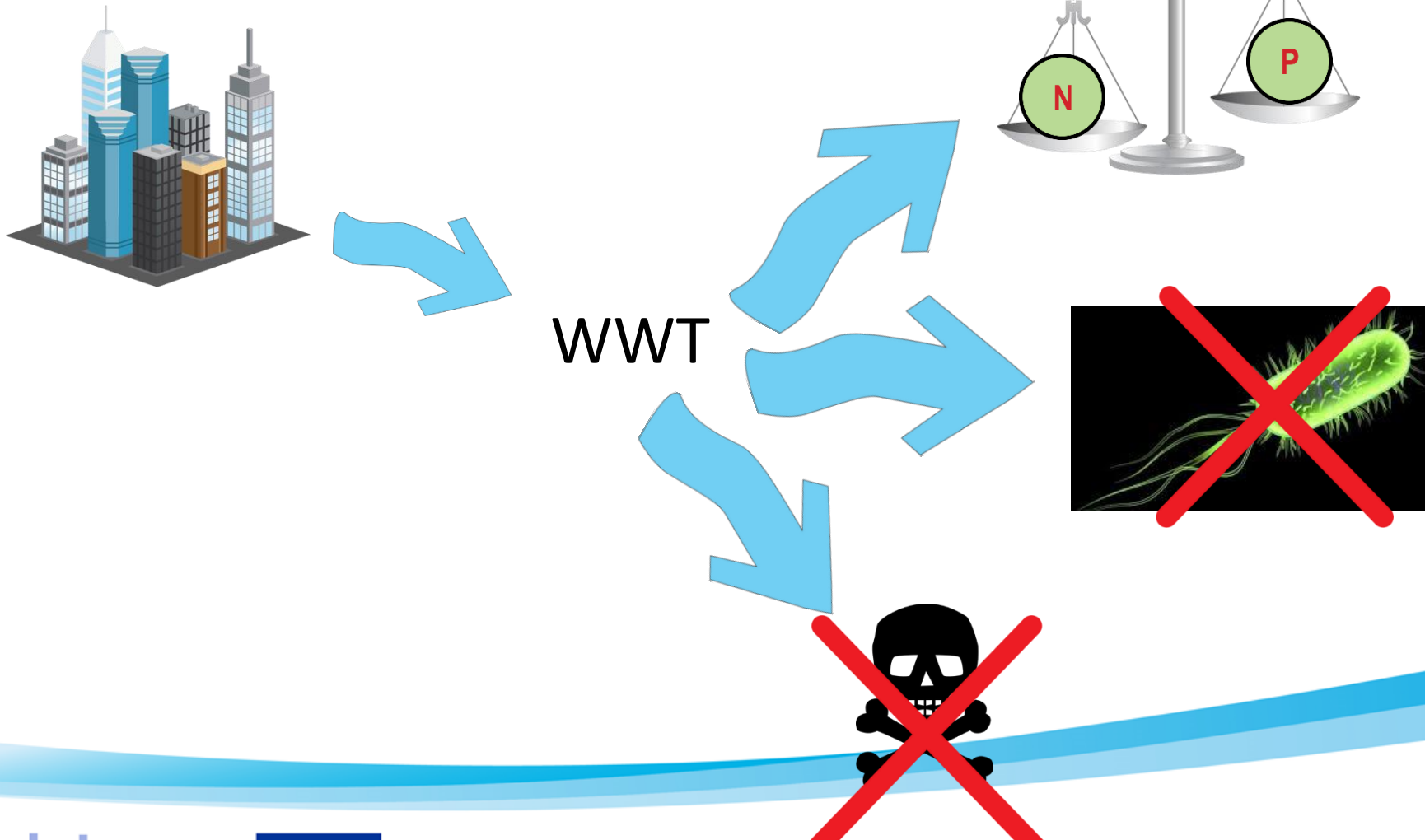
# WP3 – Harmonization of the knowledge, project areas modelling and mapping, activities planning

AdSWiM | OGS | Mauro Celussi

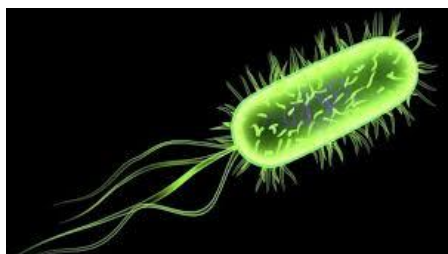
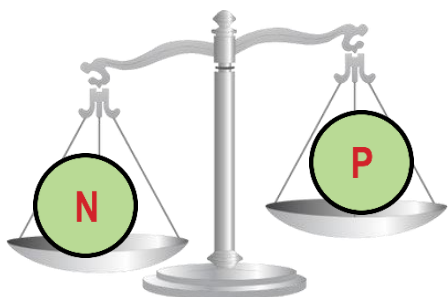
Kick off meeting | Udine | 9-10 of April 2019

# WP3 presentation:

GOAL: treated urban wastewater → rebalance nutrient status without microbiological contamination and pollutant dispersal



# Activity 3.1: Critical review and analysis on existing chemical and microbiological data



Nutrients, microelements and pollutants, microbiological indicators data are collected from EU reports, local and regional bodies and the scientific literature to lay down the current status of water quality in Adiratic areas involved in the projects.



# Activity 3.1: Critical review and analysis on existing chemical and microbiological data

## Partners involved (workplan):

FEBRUARY 2019 – JULY 2019

CAFC LTD

UNIVERSITY OF SPLIT

INSTITUTE OF CRISTALLOGRAPHY – CNR

**INSTITUTE OF PUBLIC HEALTH, ZADAR**

IZVOR PLOČE – PUBLIC INSTITUTION FOR PUBLIC UTILITIES

**MUNICIPALITY OF PESCARA**

MUNICIPALITY OF UDINE

**NATL. INST. OF OCEANOGRAPHY AND EXPERIMENTAL GEOPHYSICS – OGS**

**POLITECHNIC UNIV. MARCHE**

SPLIT WATER AND SEWERAGE COMPANI LTD.

UNIVERSITY OF UDINE

## Deliverables:

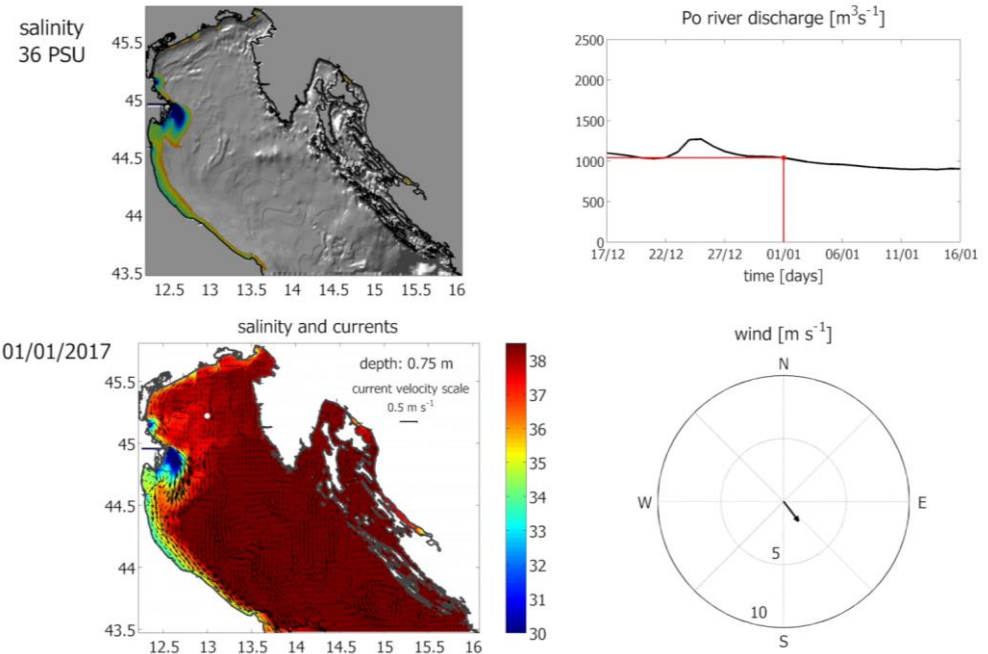
D3.1.1. report of trend survey of nutrients and other chemical parameters (June 2019) **UNIVPM, MUN\_PES, PHI**

D3.1.2 report of trend survey of biological indicators (June 2019) **MUN\_PES, PHI, OGS**

# Activity 3.2: Modelling and mapping of the project areas

Models and maps prepared to outline the outcomes of Activity 3.1 with simulation in different environmental conditions . Maps added with Depuration Plants and UWW discharge points

WP 3.1



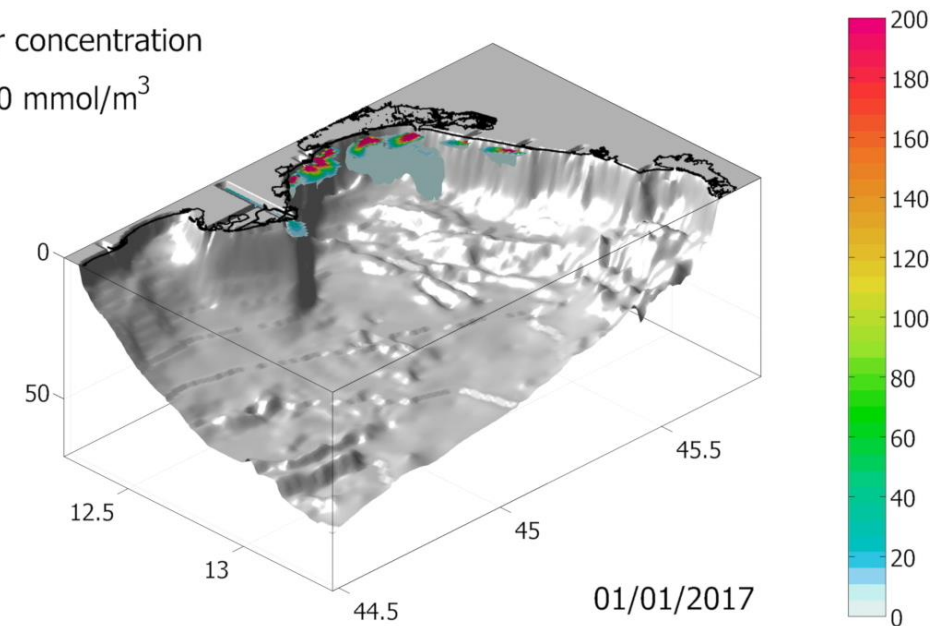
# Activity 3.2: Modelling and mapping of the project areas

Models and maps prepared to outline the outcomes of Activity 3.1 with simulation in different environmental conditions . Maps added with Depuration Plants and UWW discharge points

WP 3.1



tracer concentration  
 $10 \text{ mmol/m}^3$





# Activity 3.2: Modelling and mapping of the project areas

Partners involved (workplan):

FEBRUARY 2019 – AUGUST 2019

UNIVERSITY OF SPLIT

HELEA LAB L.L.C.

INSTITUTE OF CRISTALLOGRAPHY – CNR

INSTITUTE OF PUBLIC HEALTH, ZADAR

IZVOR PLOČE – PUBLIC INSTITUTION FOR PUBLIC UTILITIES

MUNICIPALITY OF PESCARA

MUNICIPALITY OF UDINE

NATL. INST. OF OCEANOGRAPHY AND EXPERIMENTAL GEOPHYSICS – OGS

POLITECHNIC UNIV. MARCHE

SPLIT WATER AND SEWERAGE COMPANY LTD.

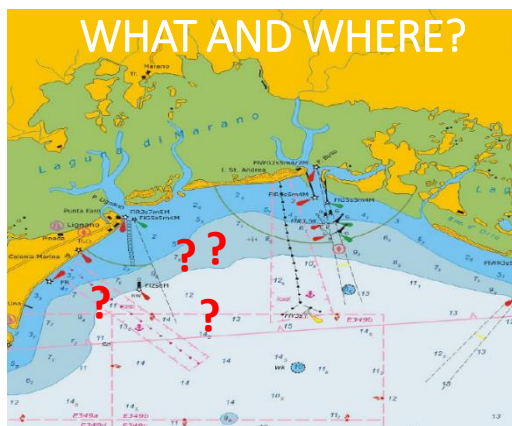
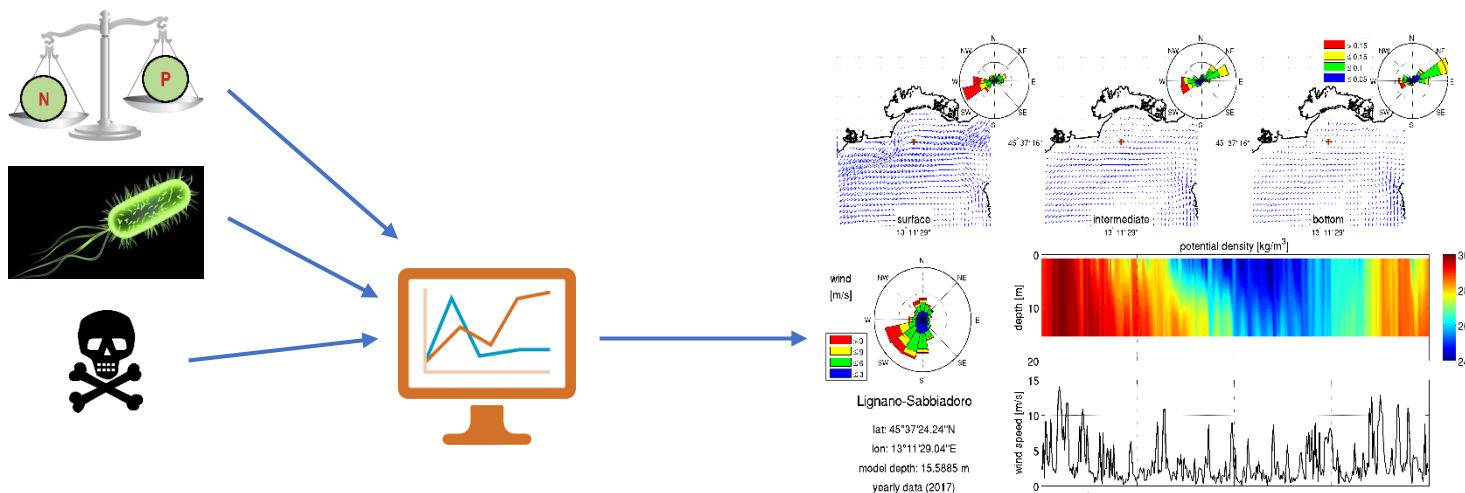
UNIVERSITY OF UDINE

Deliverables:

D3.2.1. hydrodynamic models and fluid dynamics simulations (August 2019) **UNIST-FGAG, OGS**

D3.2.2 map with Depuration Plants discharge points as hot spots for coastal pollution (August 2019) **HELEA, CAFCA, VIK, MUN\_PES, MUNI\_UD**

# Activity 3.3: Selection of sampling points/analysis with plan of experimental activities



Based on the modelling, the sampling points are chosen. Concomitantly, the plan of activities to be carried out at sea is established



# Activity 3.3: Selection of sampling points/analysis with plan of experimental activities

## Partners involved:

CAFC LTD  
UNIVERSITY OF SPLIT  
INSTITUTE OF CRISTALLOGRAPHY – CNR  
INSTITUTE OF PUBLIC HEALTH, ZADAR  
MUNICIPALITY OF UDINE  
NATL. INST. OF OCEANOGRAPHY AND EXPERIMENTAL GEOPHYSICS – OGS  
POLITECHNIC UNIV. MARCHE  
SPLIT WATER AND SEWERAGE COMPAI LTD.  
UNIVERSITY OF UDINE

MAY 2019 – AUGUST 2019

## Deliverables:

D3.3.1. Map with sampling/monitoring points (August 2019) **ALL PPs**  
D3.3.2 Plan of the experimental activities (August 2019) **ALL PPs**

# Important facts to be outlined in the 'Organization of Project activities' session

## Role of PPs in the 3 Activities

Establishment of the areas to be tested for modelling and, consequently, for sampling