



# AdSWiM

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2 INFOGRAPHIC  
VIDEOS

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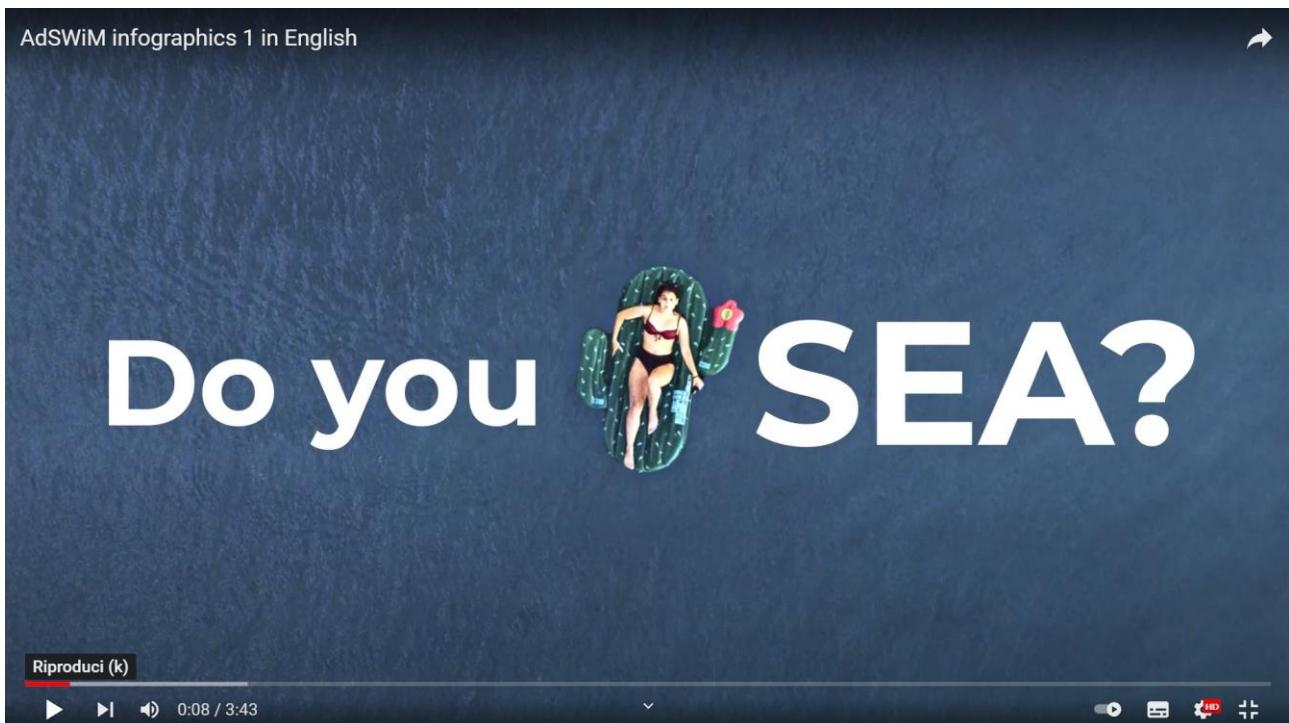
Deliverable 2.2



## ***Deliverable 2.2***

**2 video infographics videos:**

**Here attach you can find the video storyboards 1 and 2. The first video has been produced in English with English subtitles, in English with Italian and Croatian subtitles at the beginning of our project, the second one will be put online at the project end by PP1, Municipality of Udine They are available on our [YouTube Channel: ADSWIM PROJECT](#)**

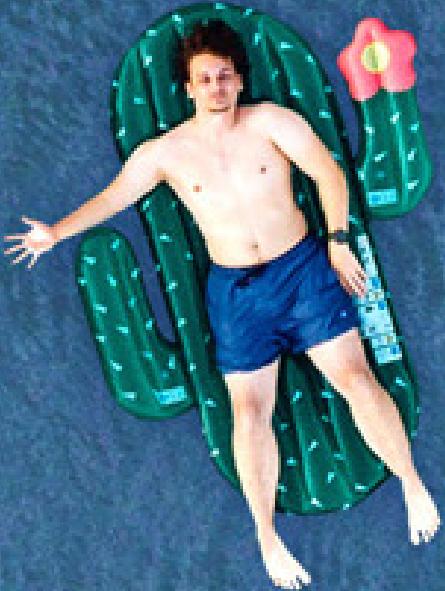


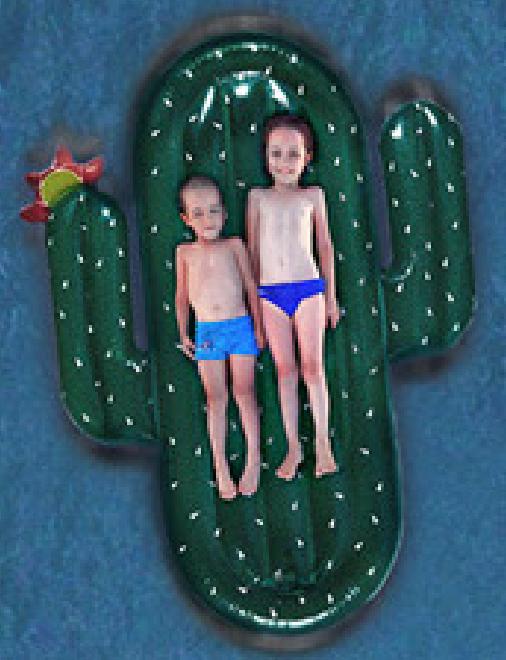
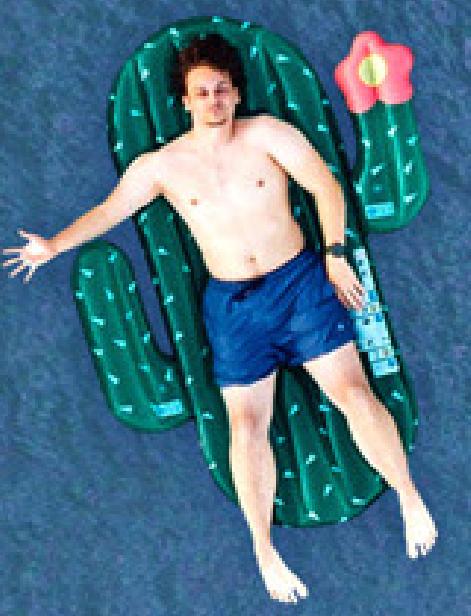
**Partner of the European Project "ADSWIM":** University of Udine (lead partner), CAFC - Friuli Centrale Aqueduct Consortium, OGS - National Institute of Oceanography and Experimental Geophysics, Polytechnic University of Marche, IC-CNR, Crystallography Institute - National Council of Research, Municipality of Pescara, IANPHI - National Institute of Public Hygiene of Zadar (HR), Izvor Ploče Consortium of Dubrovnik (HR), ViK Split Water Management (HR), Metris Centar za Istraživanje Materiala Istarske Županije (HR), University of Split (HR).

Further information: [adswimcommunication@gmail.com](mailto:adswimcommunication@gmail.com)

**Video credits: LETTERAB**







Do you SEA?

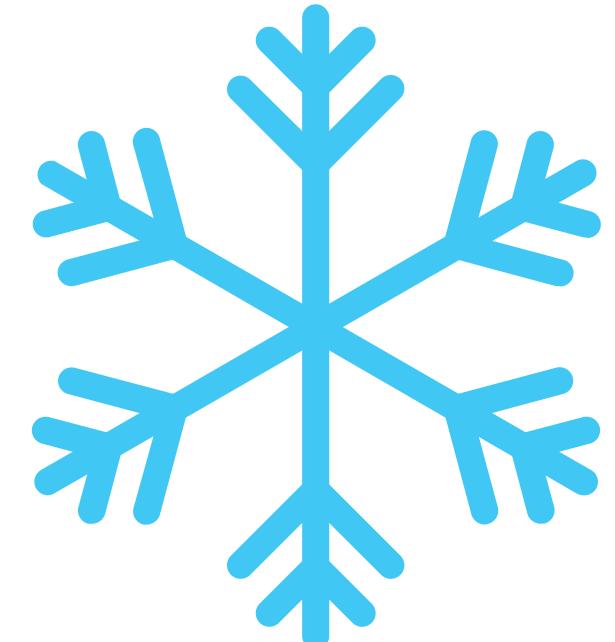


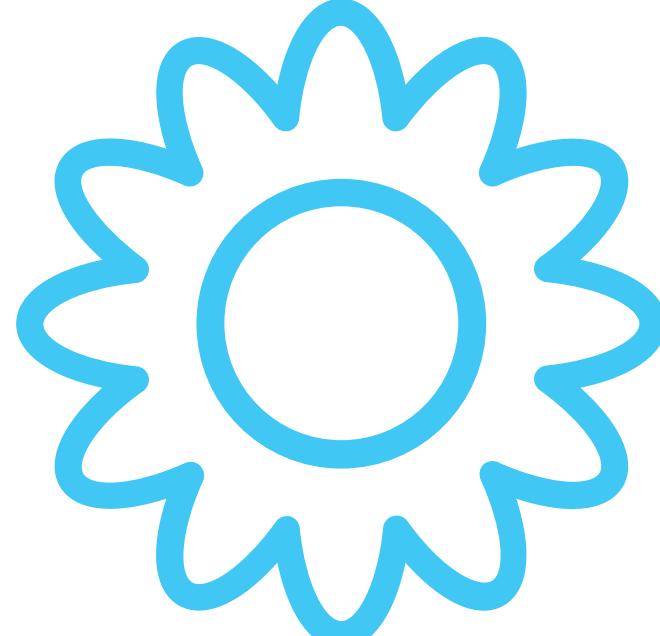
SO...

WHAT DID  
AdSWiM  
DO?



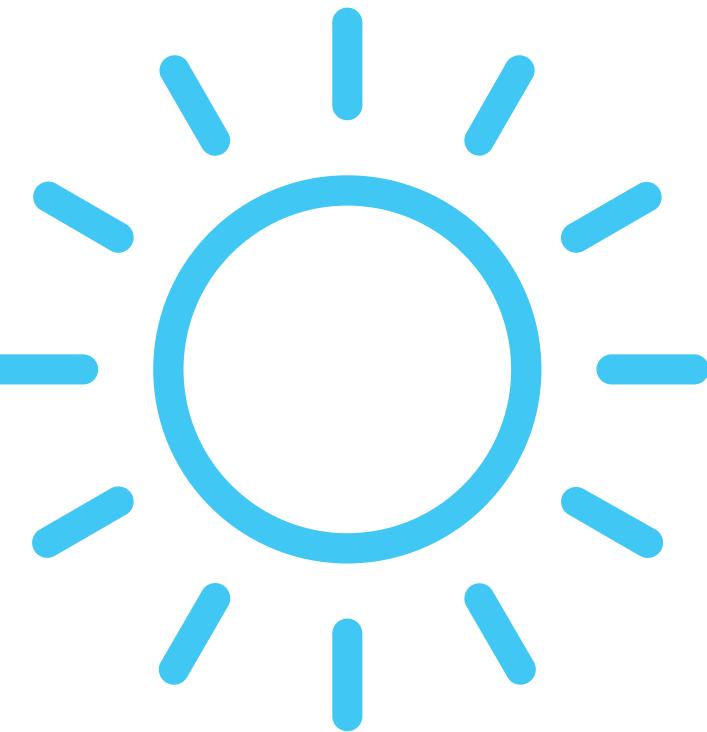
**1 YEAR of DATA  
COLLECTION**





**1 YEAR of DATA  
COLLECTION**

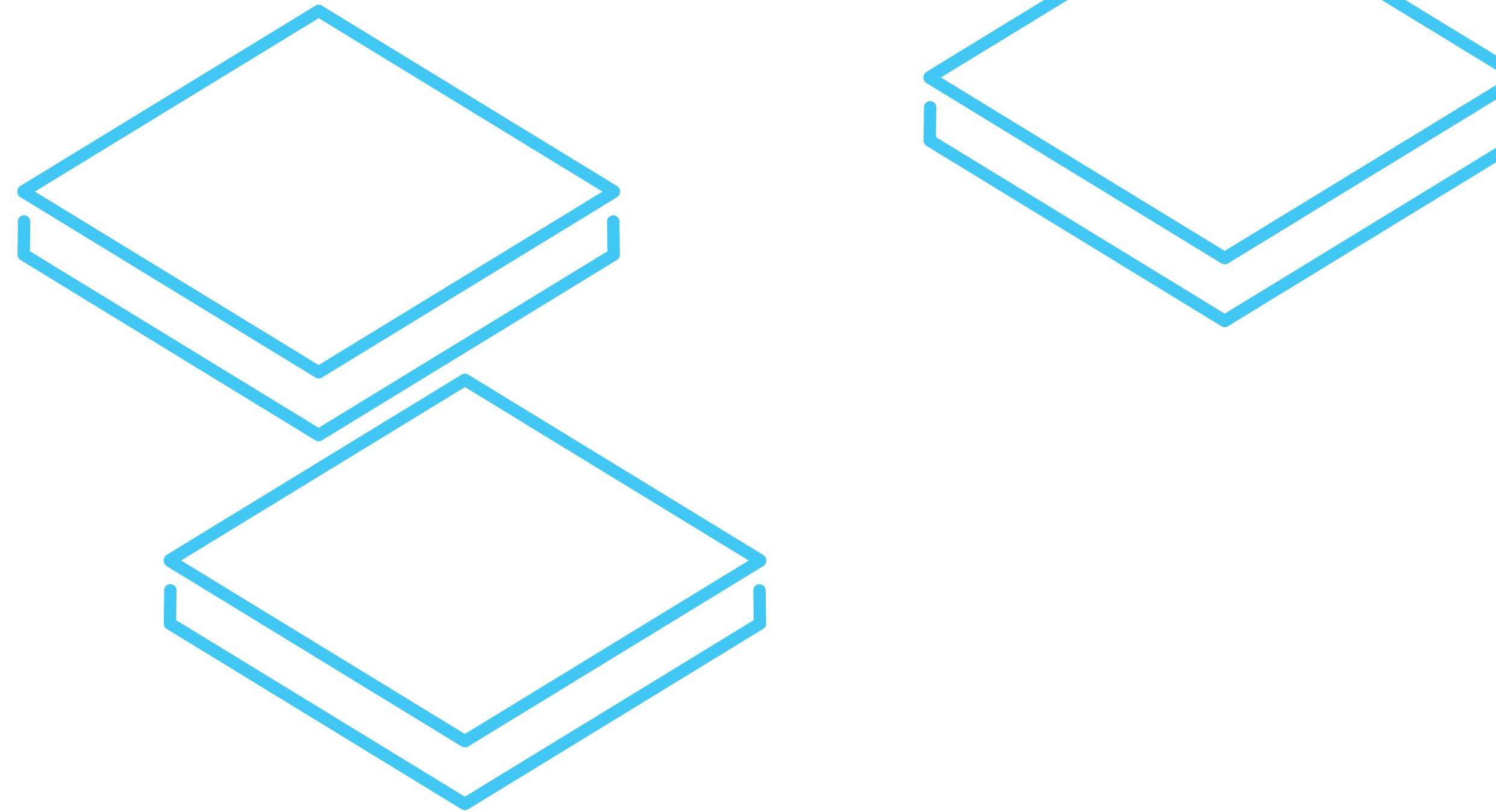
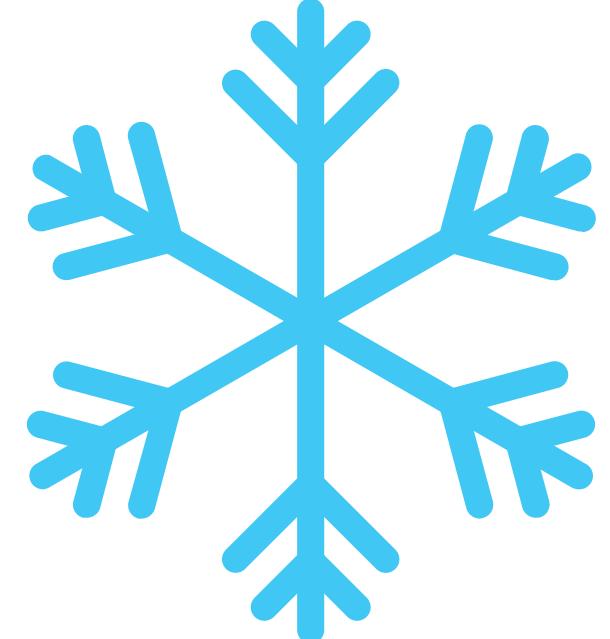




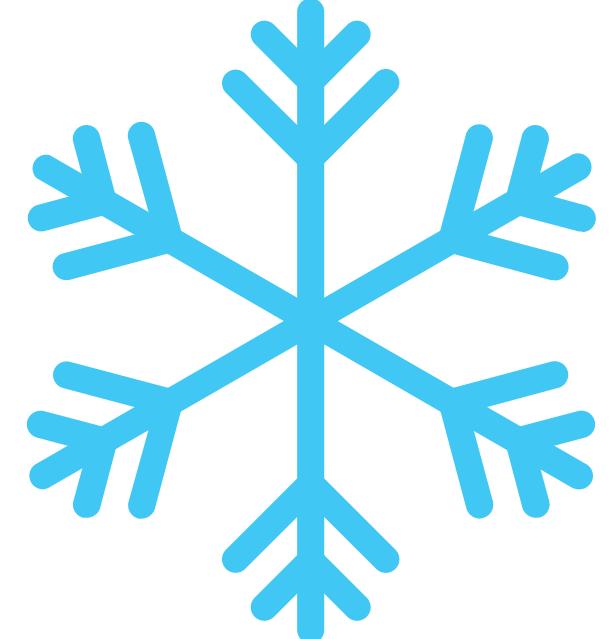
**1 YEAR of DATA  
COLLECTION**



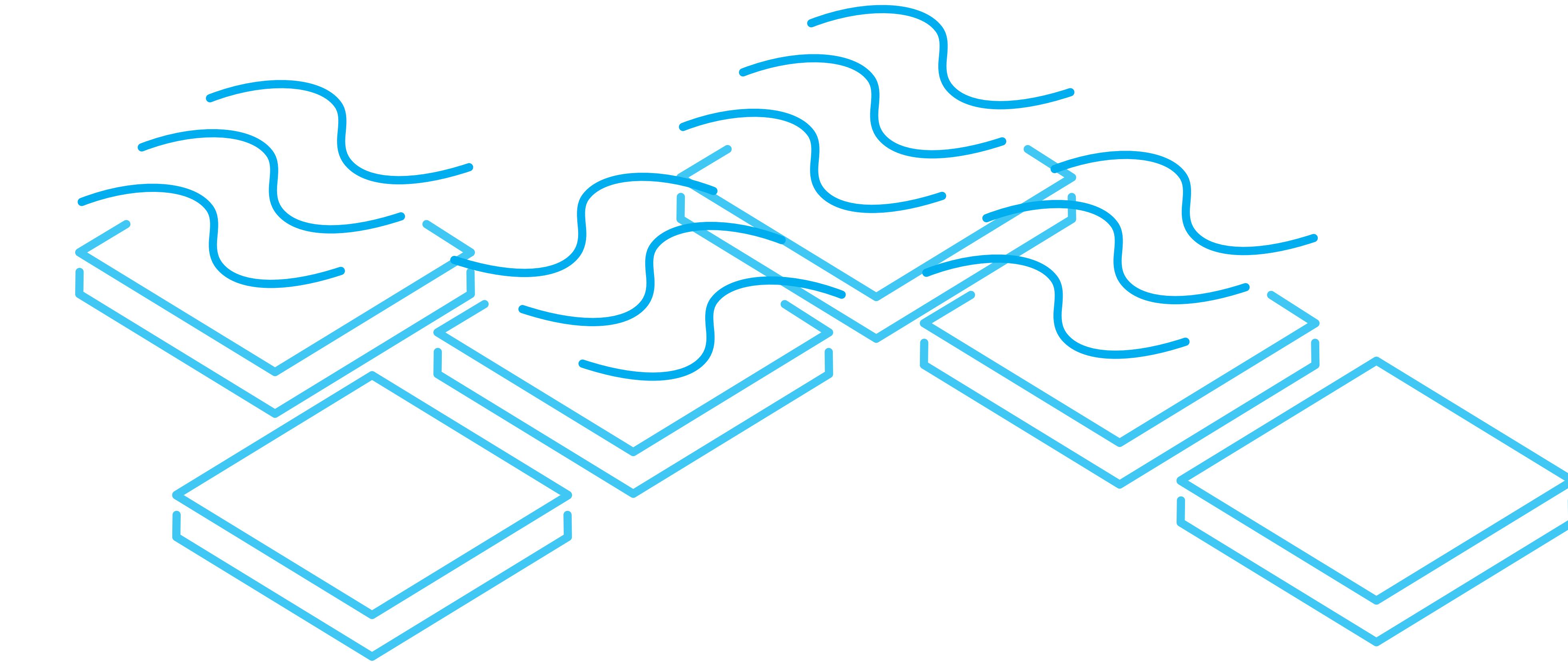
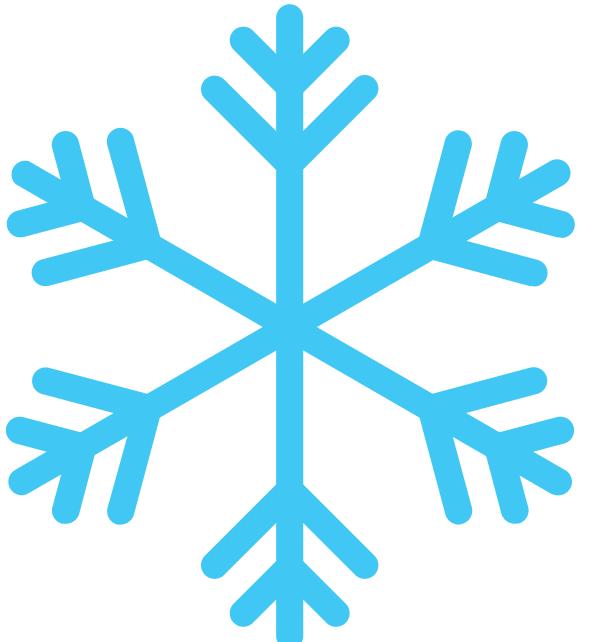
# 1 YEAR of DATA COLLECTION



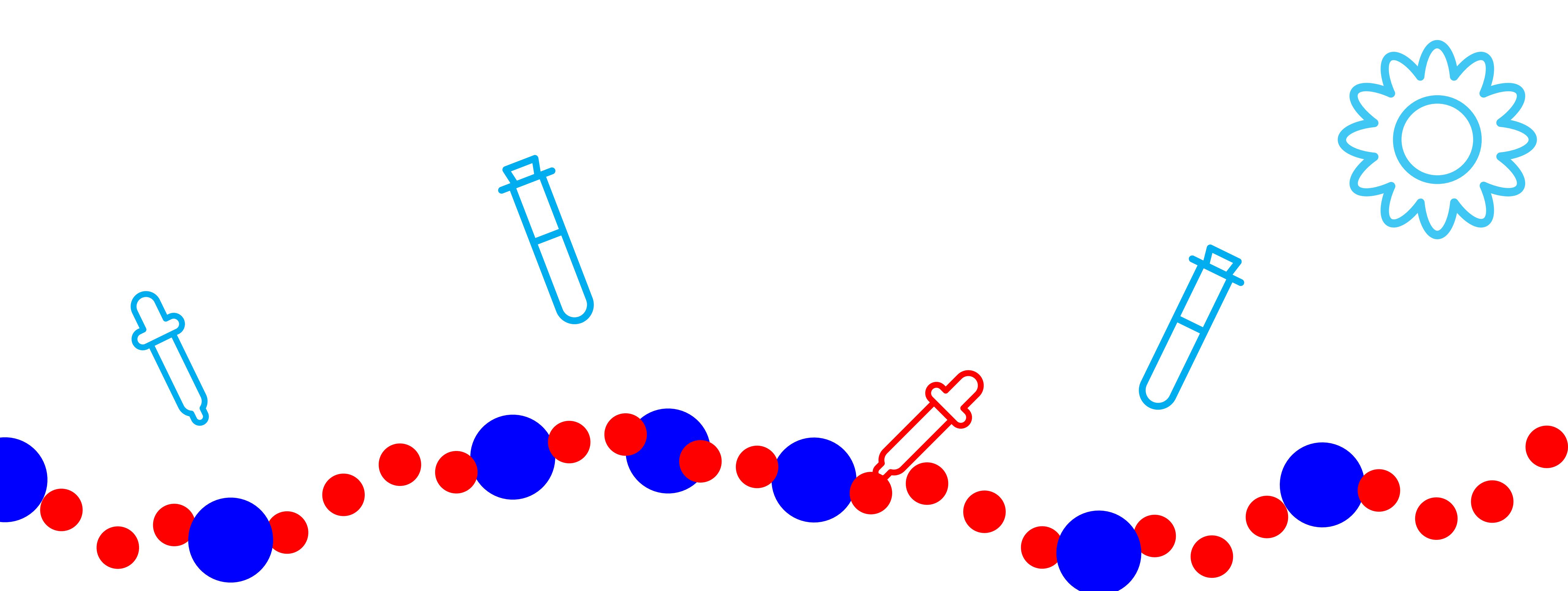
and MAPPING,  
**HYDRODYNAMIC MODELLING** and  
**FLUID DYNAMICS SIMULATION**



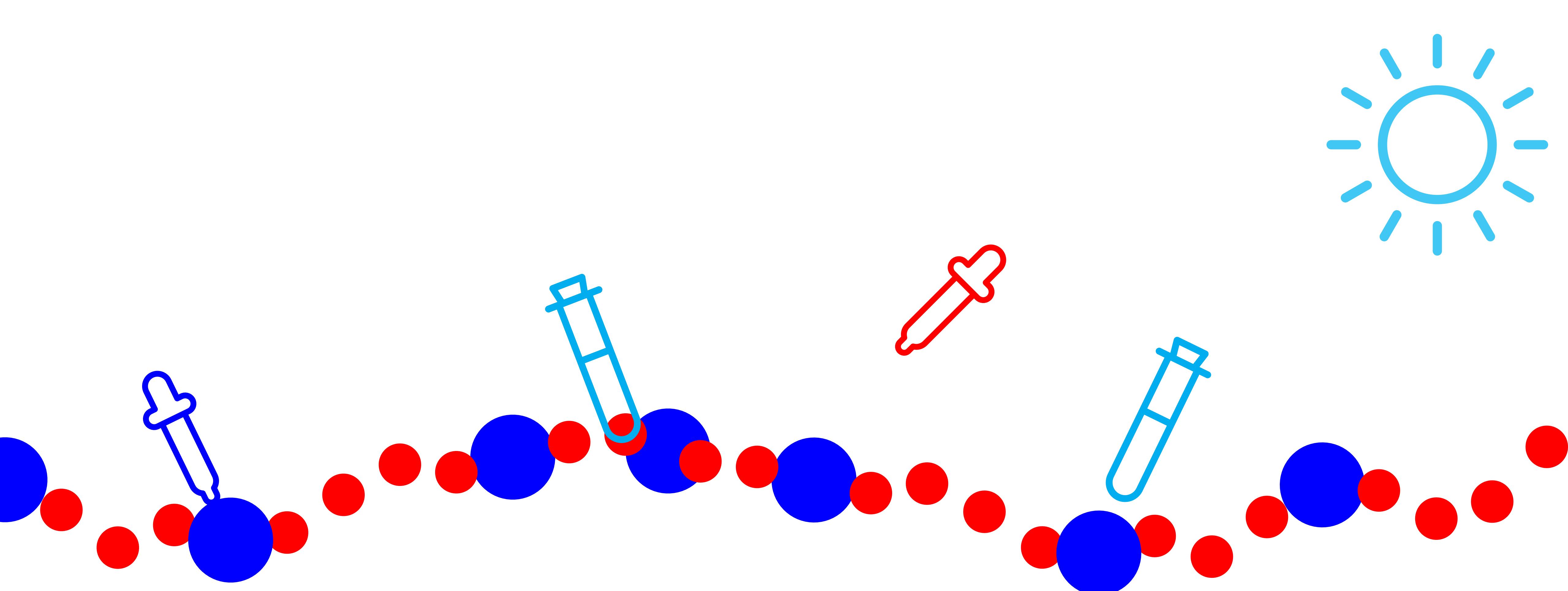
and MAPPING,  
**HYDRODYNAMIC MODELLING** and  
**FLUID DYNAMICS SIMULATION**



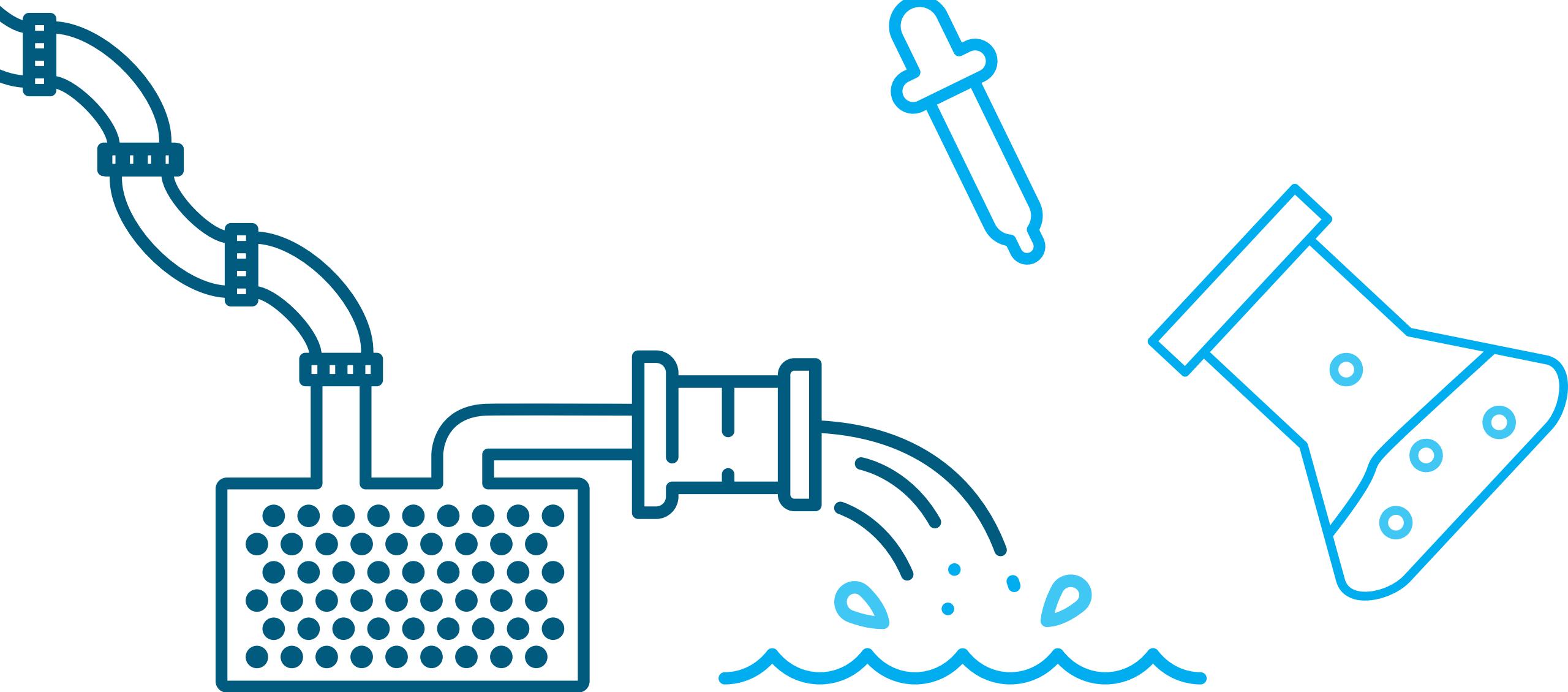
and MAPPING,  
**HYDRODYNAMIC MODELLING** and  
**FLUID DYNAMICS SIMULATION**



**and SAMPLING from the  
MONITORING POINTS**



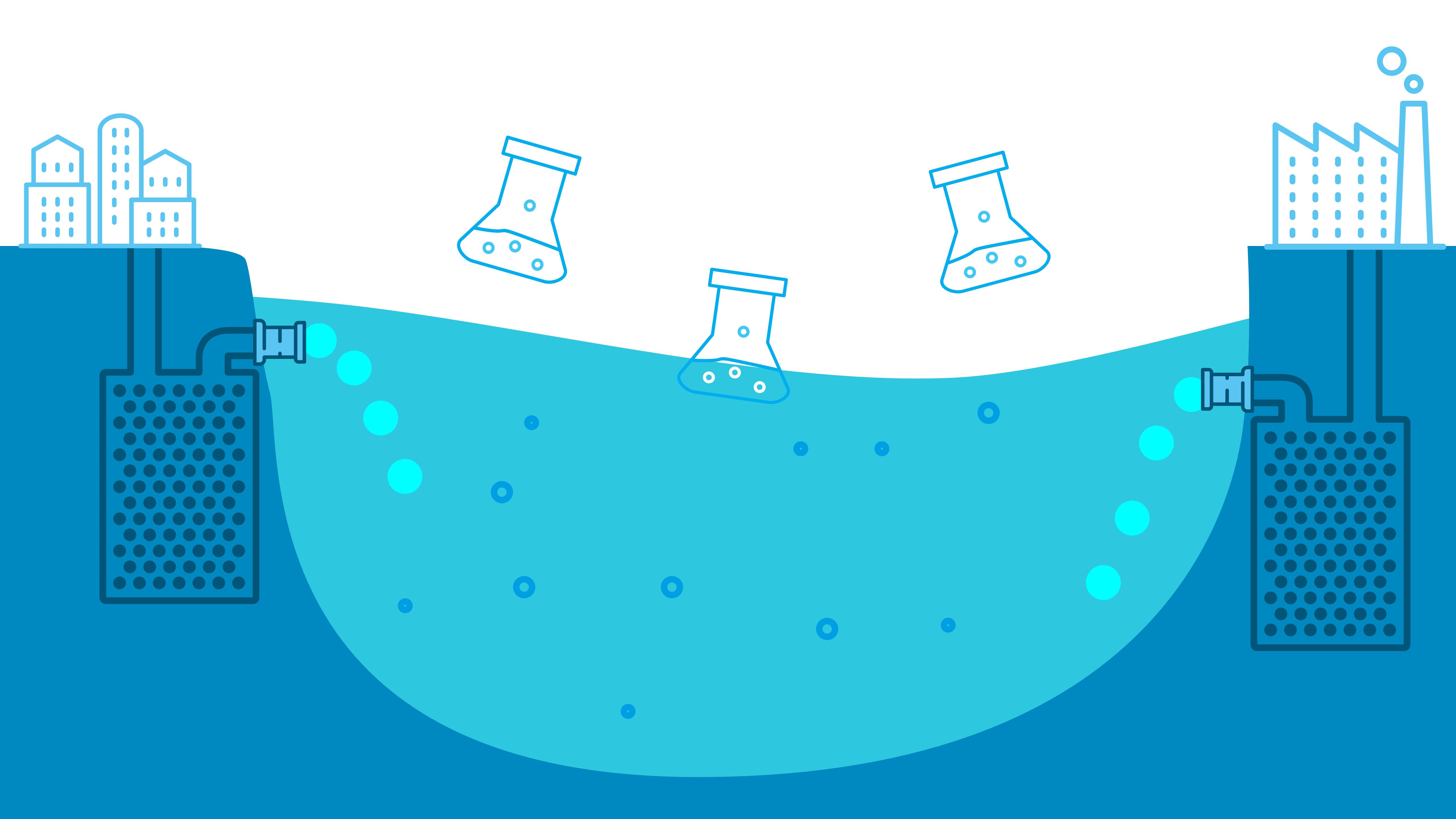
**and SAMPLING from the  
MONITORING POINTS**

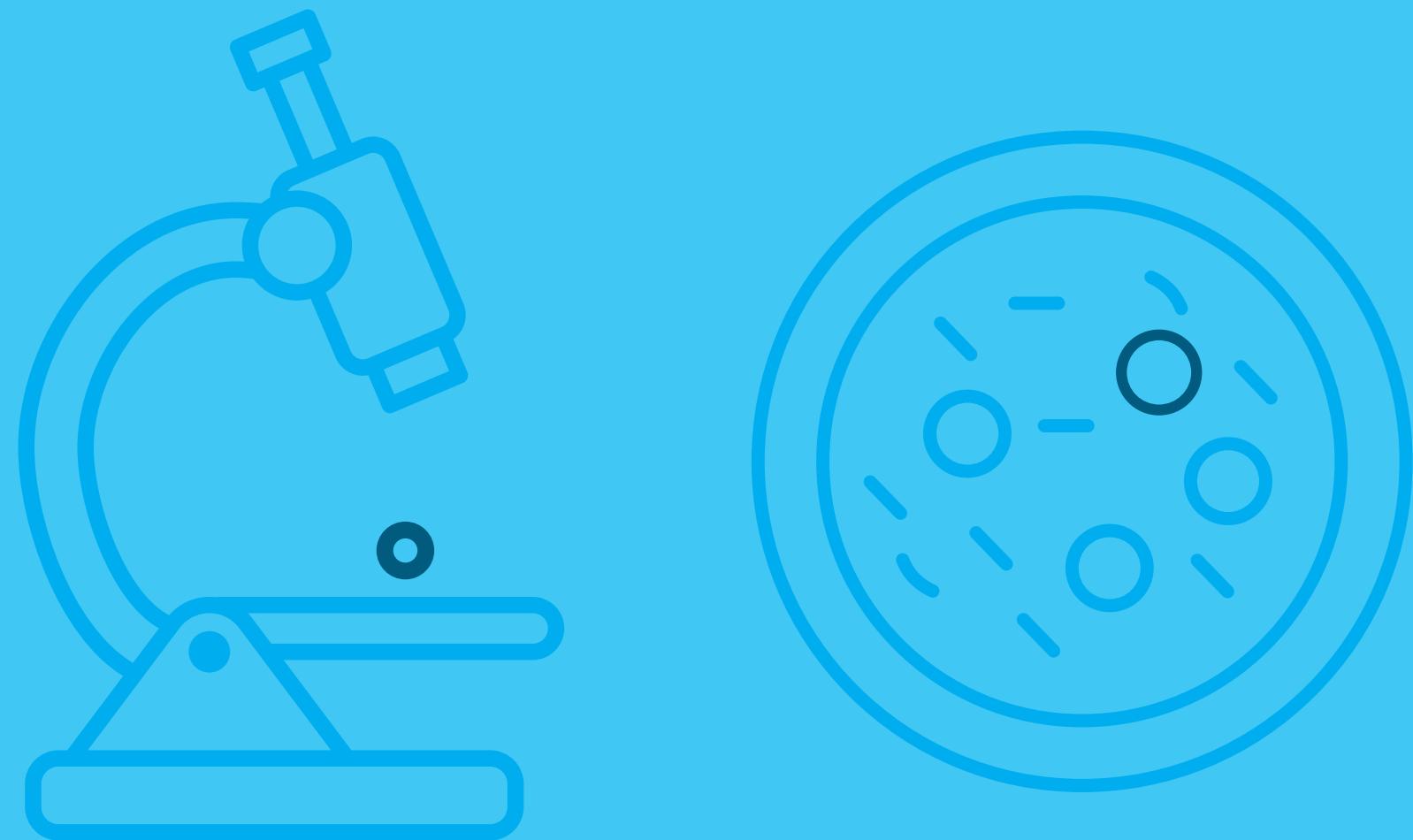


at the DP pipe  
and along the  
water line of  
the discharge  
point



comparing with  
all available  
chemical and  
microbiological  
data





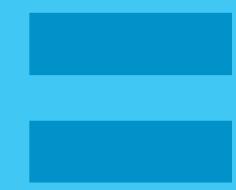
**Monitoring of several  
chemical physical  
parameters**

**+**

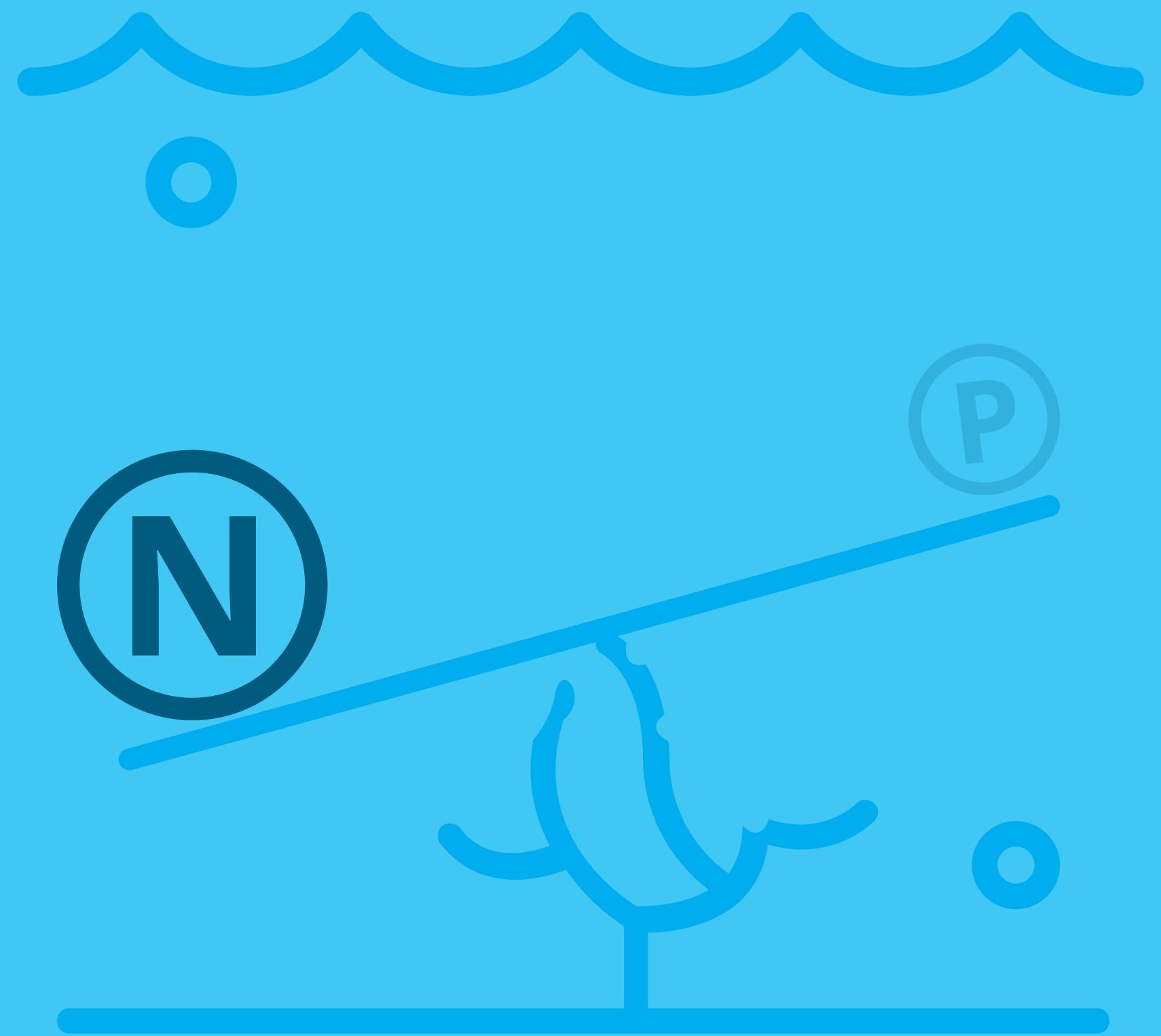
**mapping of bacteria**



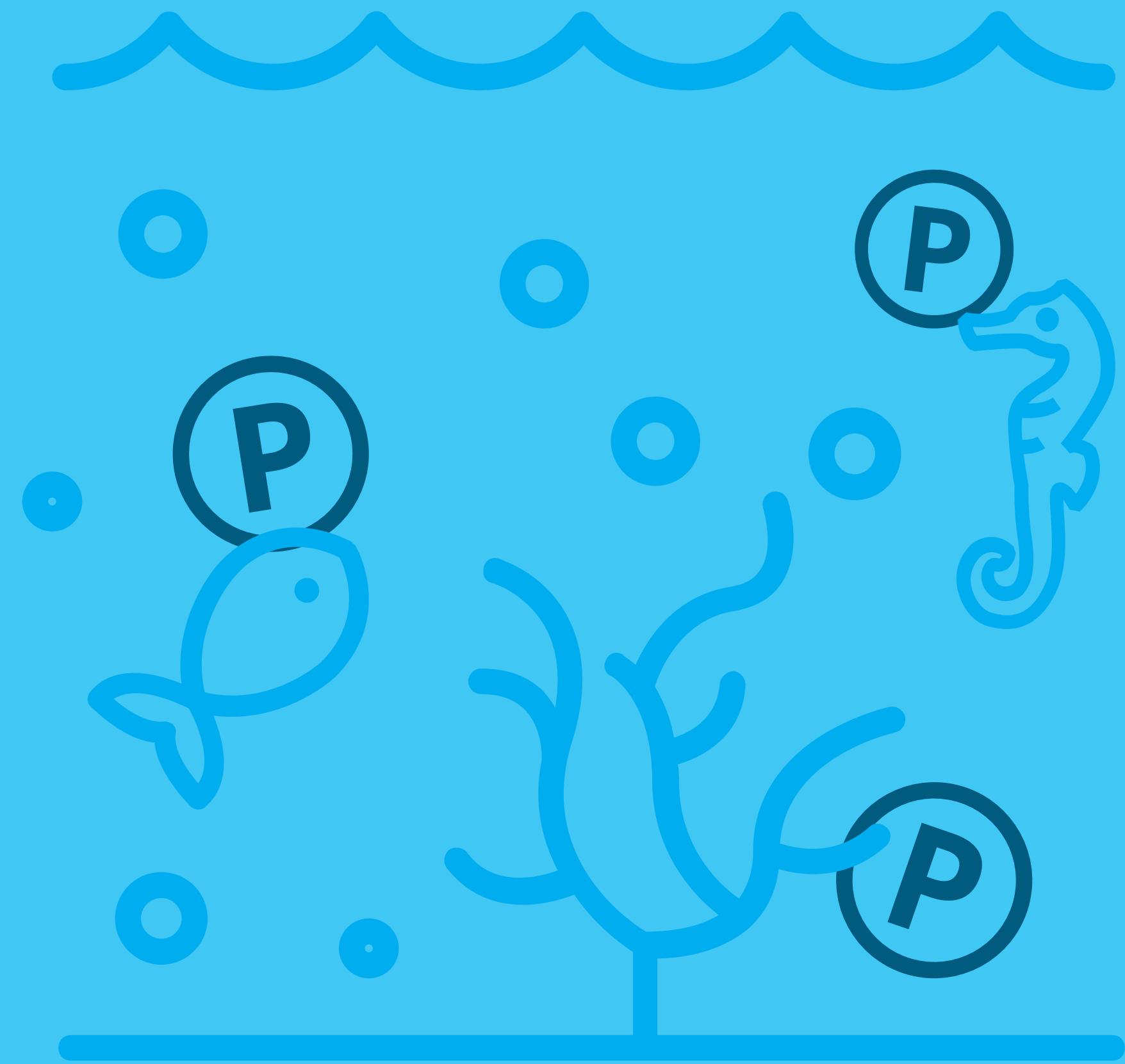
**Sampling/monitoring  
procedures defined**



**plan of experimental  
activities completed**



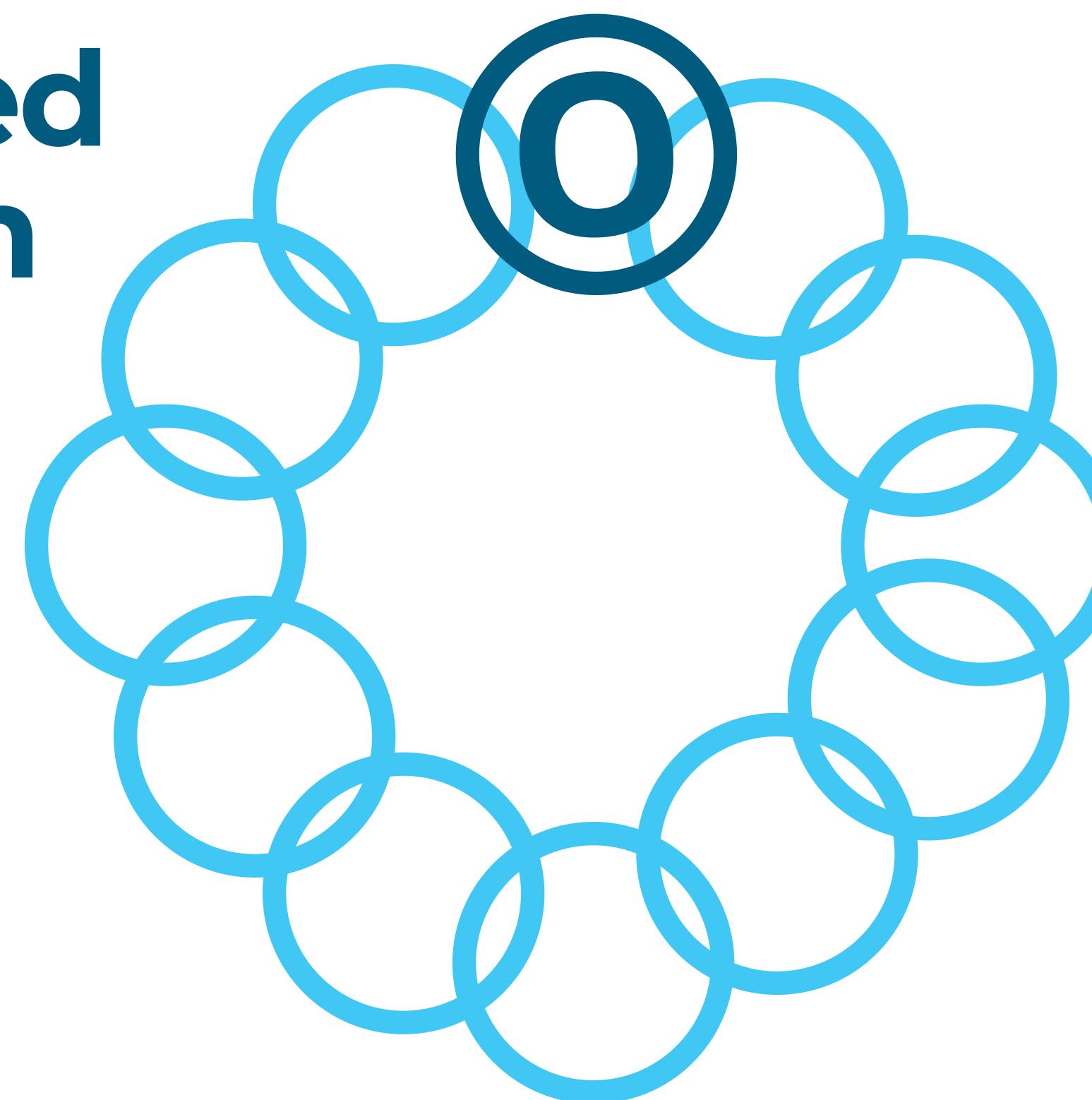
**Some areas of the  
Adriatic Sea are  
lacking of balance  
between nutrients:  
- phosphorous  
+ nitrogen**



**Phosphorus**  
is essential  
to all life forms

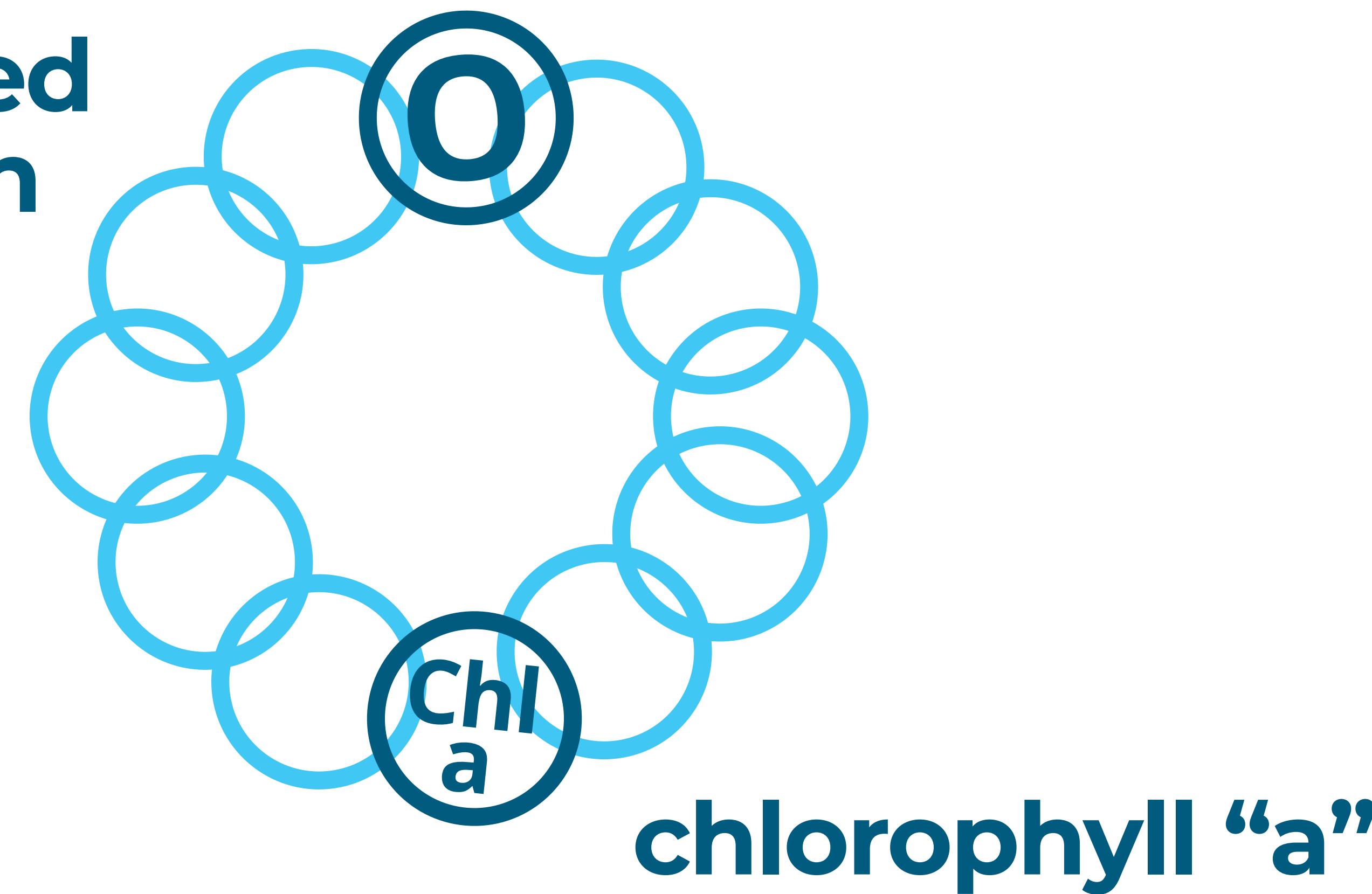
We can bring back the balance  
in the distribution of

dissolved  
oxygen

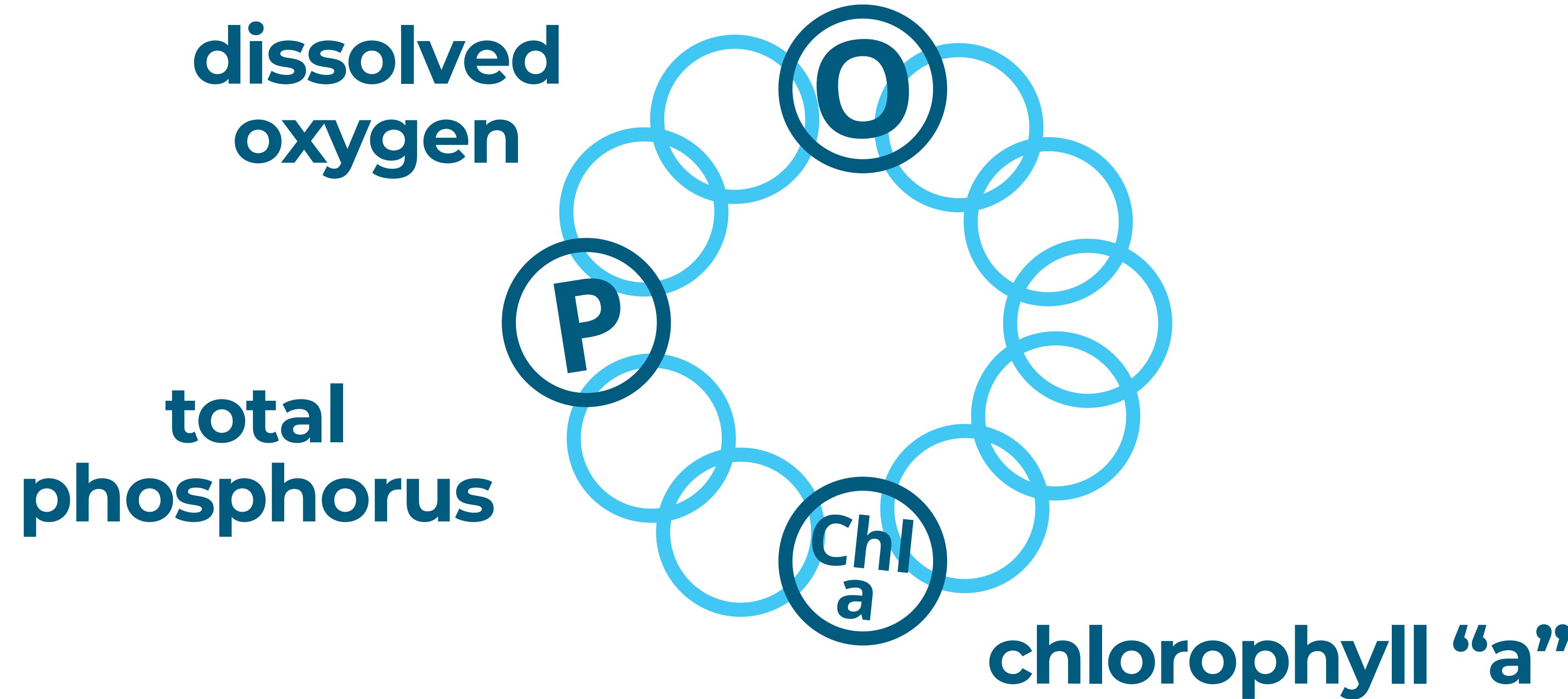


We can bring back the balance  
in the distribution of

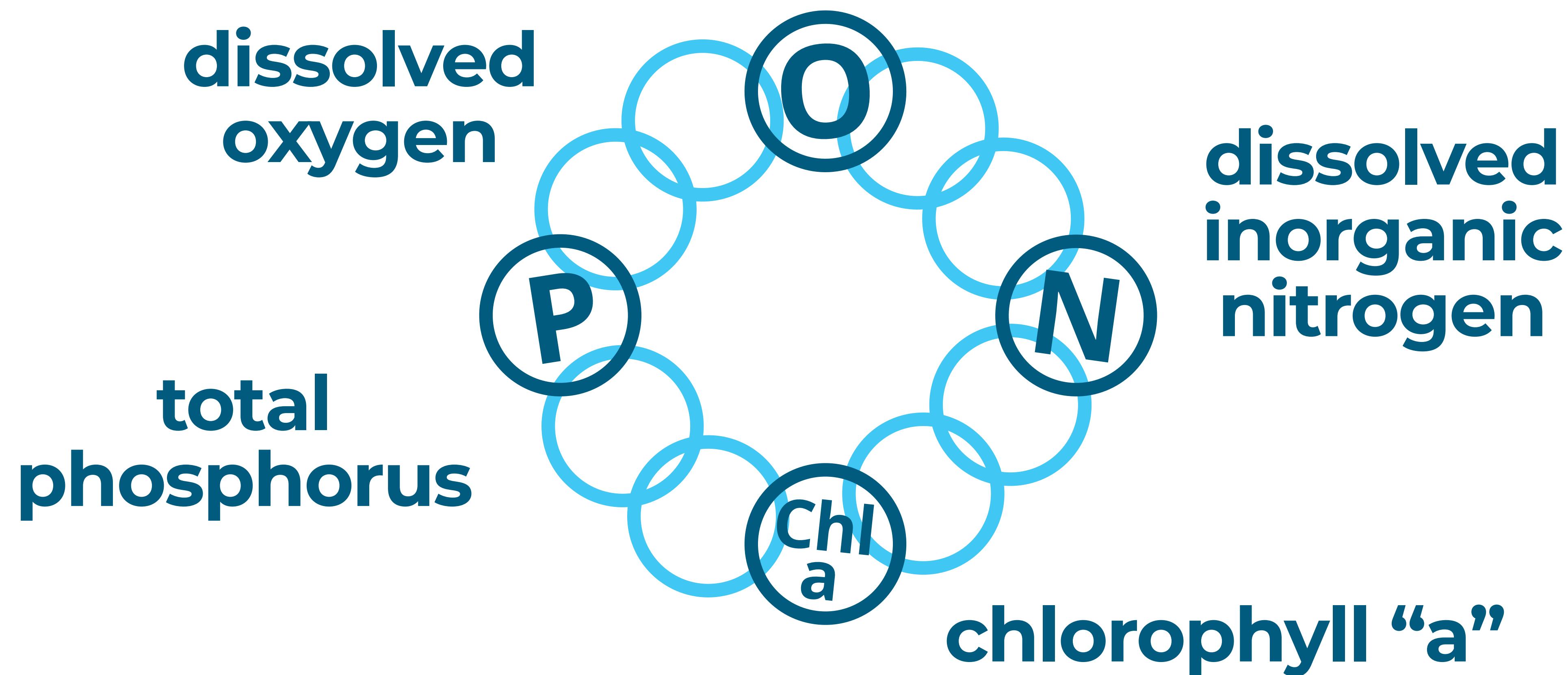
dissolved  
oxygen



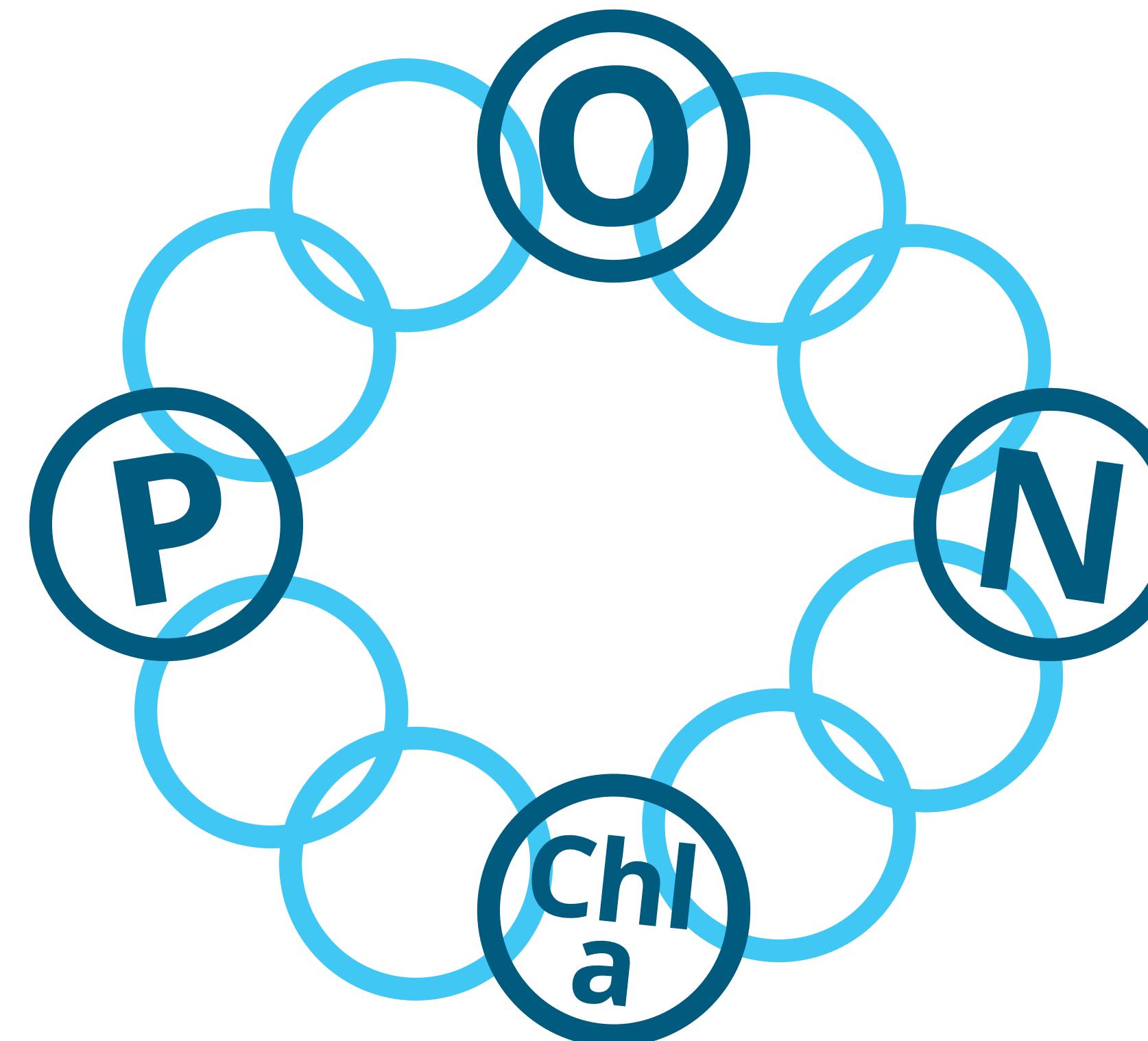
We can bring back the balance  
in the distribution of



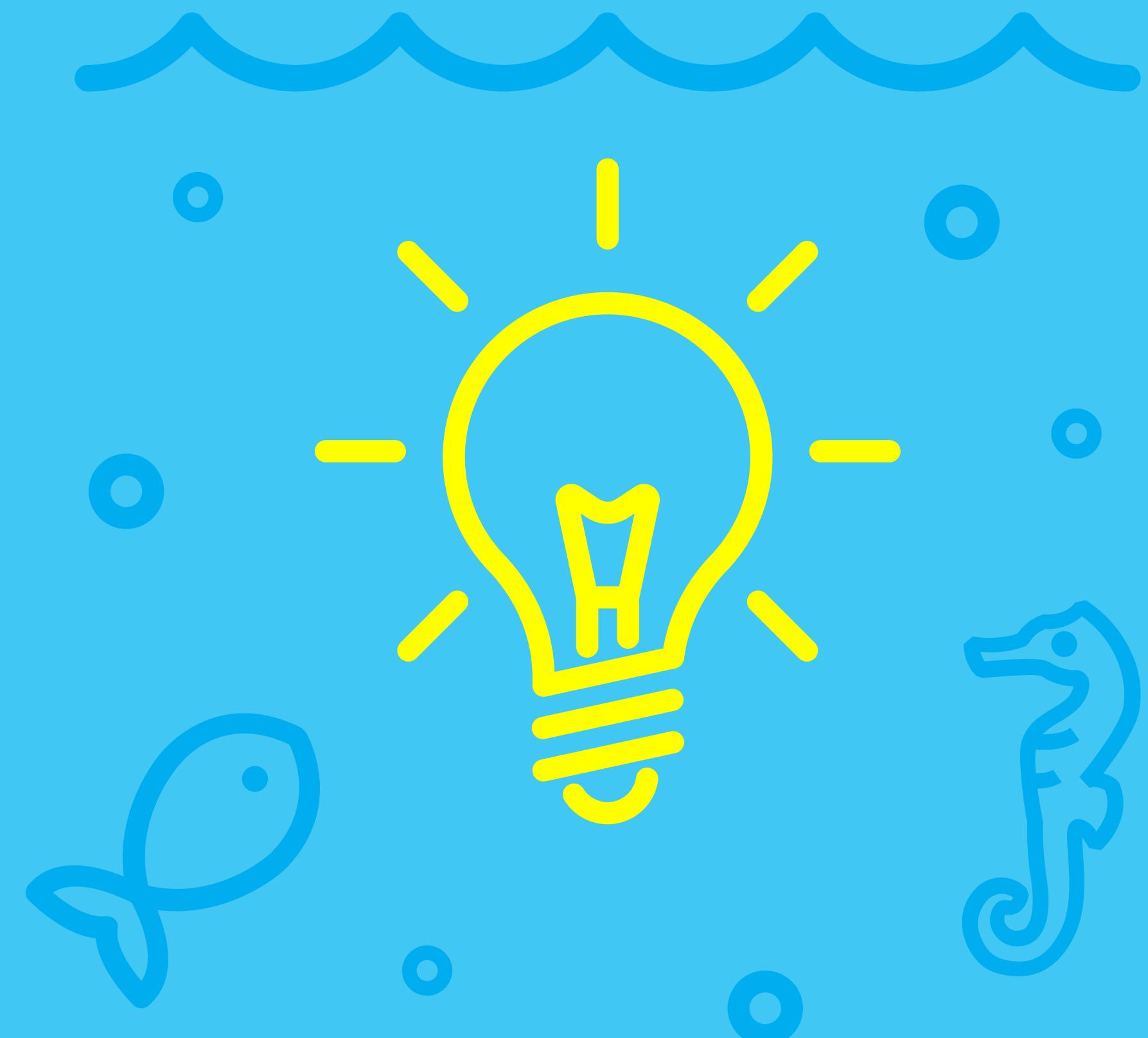
We can bring back the balance  
in the distribution of



We can bring back the balance  
in the distribution of



next to oligotrophic areas



**Innovative solutions**  
are in analytical,  
microbiological  
controls and  
treatments

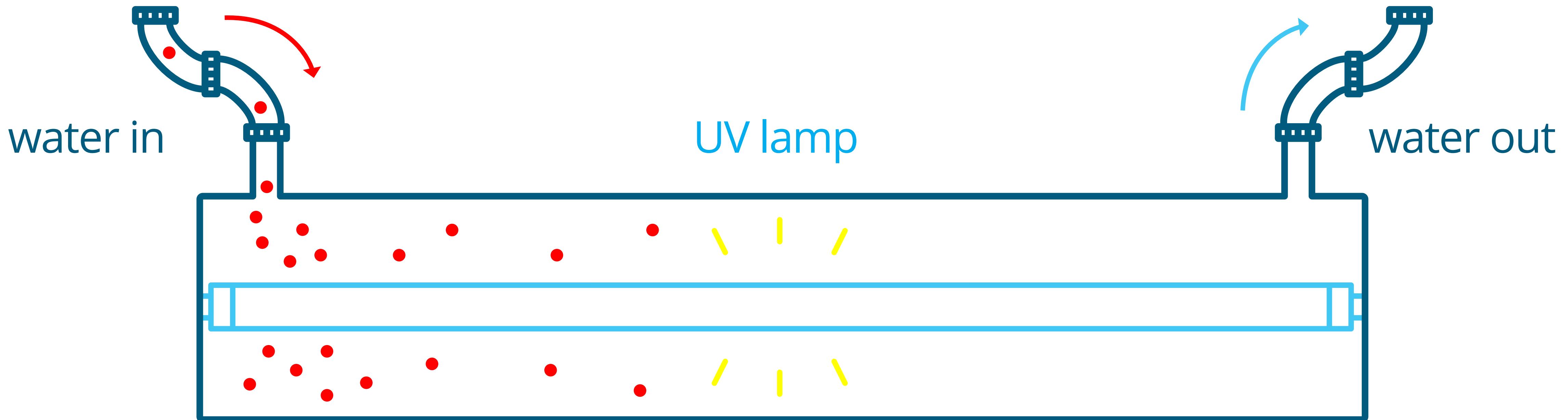
LET'S SEE  
SEA IN ACTION!

**LET'S SEE  
SEA IN ACTION!**

**#1**

**PHOTODISINFECTION**

New  
**WATER PHOTODISINFECTION  
TREATMENT**  
**at DP to improve the water quality**

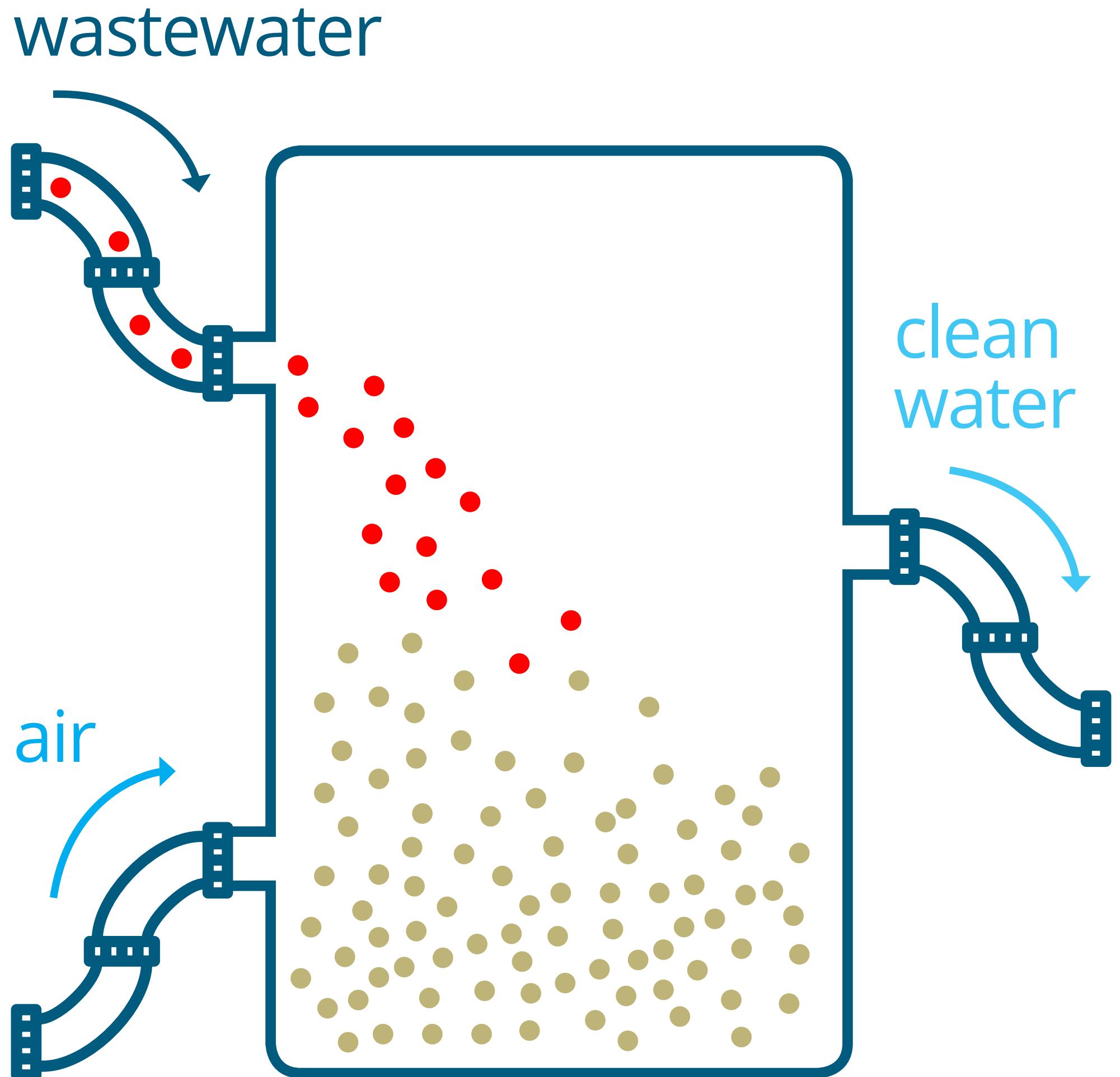




**LET'S SEE  
SEA IN ACTION!**

**#2**

**GRANULAR  
BIOMASSES**



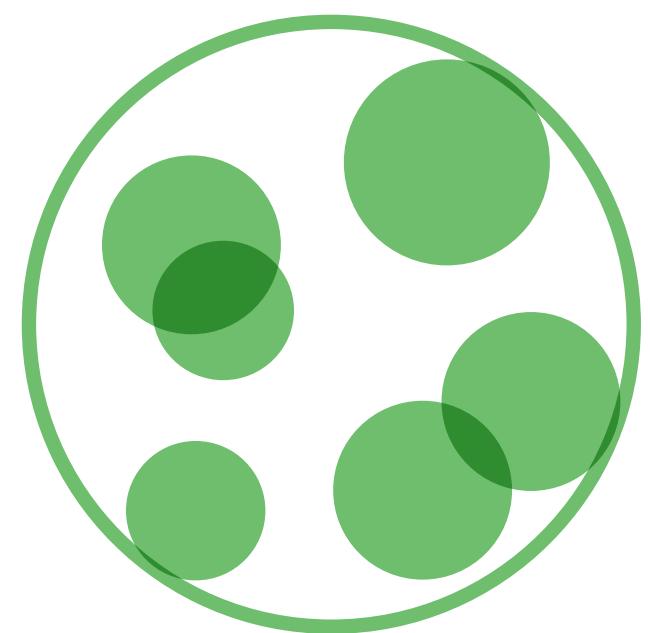
**New PROTOCOL FOR  
USE OF GRANULAR  
BIOMASSES**  
**for aerobic sludge  
treatments in DPs**  
**to improve the process  
and energy efficiency of  
wastewater treatment**

**LET'S SEE  
SEA IN ACTION!**

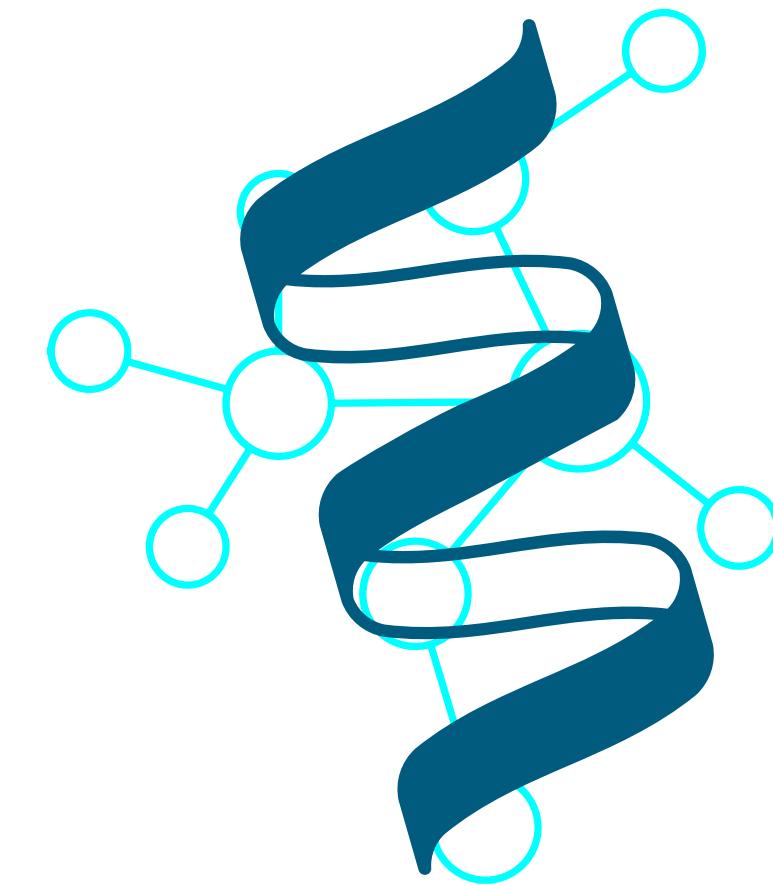
**#3**

**BIOSENSORS**

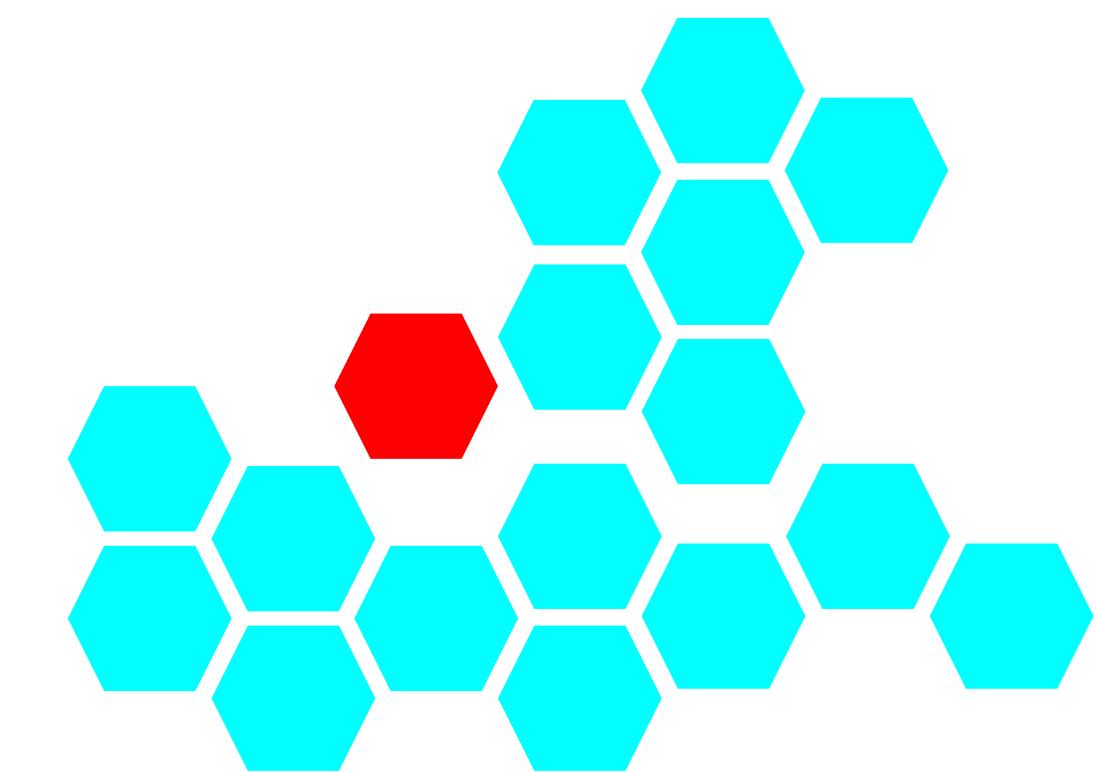
# New BIOSENSORS for measurement of NUTRIENTS and detection of CONTAMINANTS in the sea



**microalgae**  
to test  
**biotoxicity**



**mini-proteins,  
microorganisms and  
nanomaterials**  
to discover pollutants



**optical bioassays**  
to detect  
**pathogens**



LET'S SEE  
SEA IN ACTION!

#4 - REEF BALLS

**REEF BALLS are placed  
next to the Depuration Plants**



**to restore ecosystems and to protect  
the sea-bed from desertification**





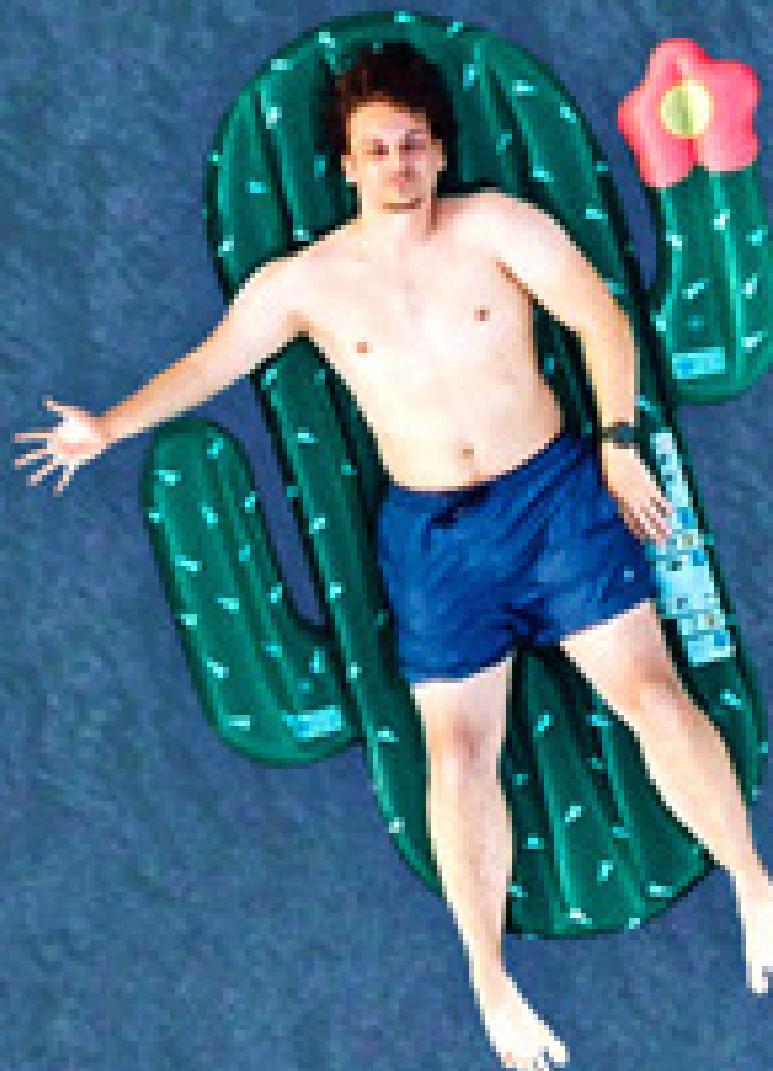
**#5**

**Investigation  
on the cross-borders  
DPs technologies  
and management  
strategies**



**#6**

**Joint and shared  
cross-borders  
strategies of WWT  
plant management  
and legislative  
action proposals**



**Do You SEA?**  
**is the AdSWiM**  
**awareness campaign**



**that has reached  
a great number of  
citizens, public  
administrations,  
companies**



**raising public  
awareness of  
safeguarding the  
quality of water and  
the Adriatic Sea.**

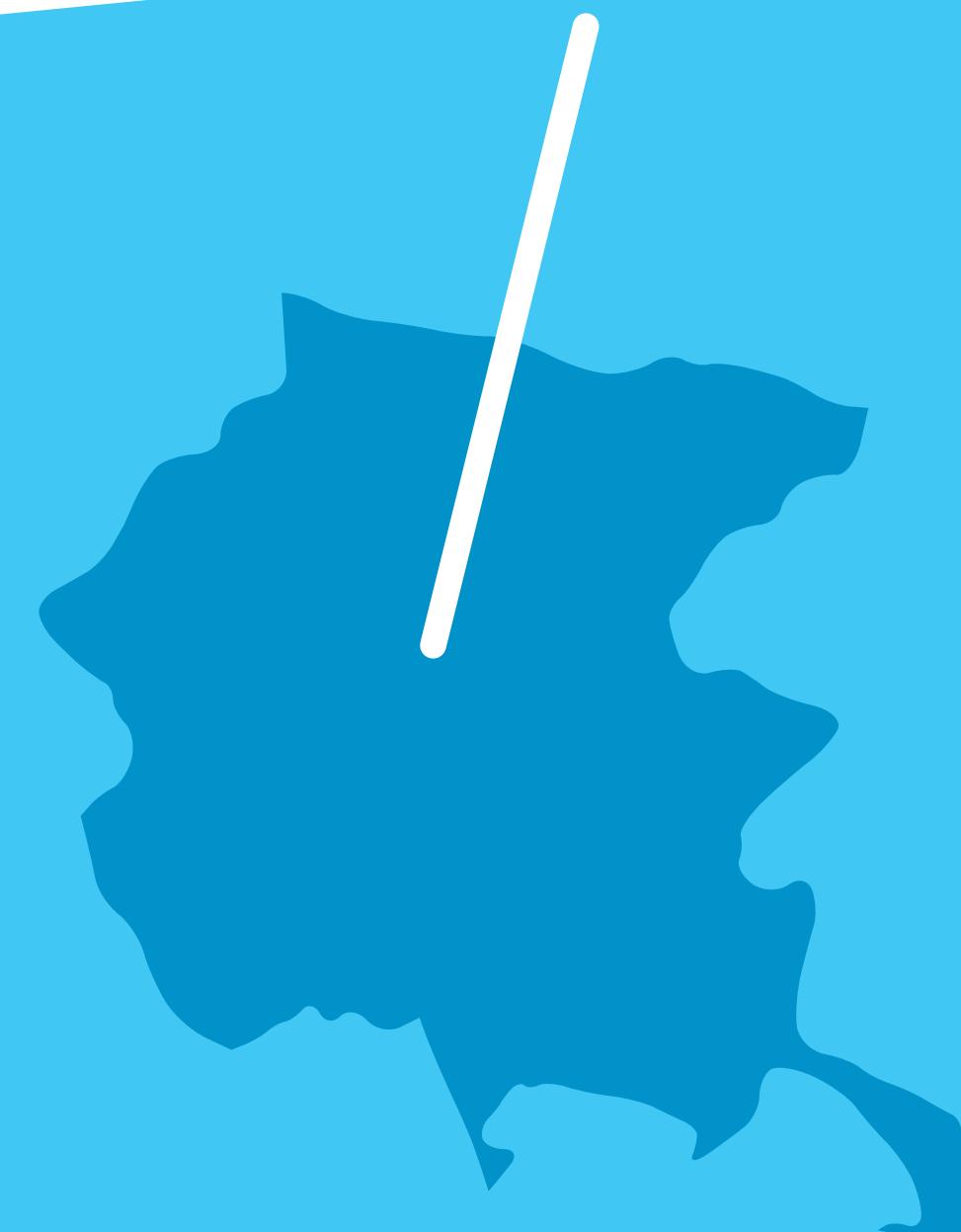
# We Do SEA!



More than  
1 million people  
reached

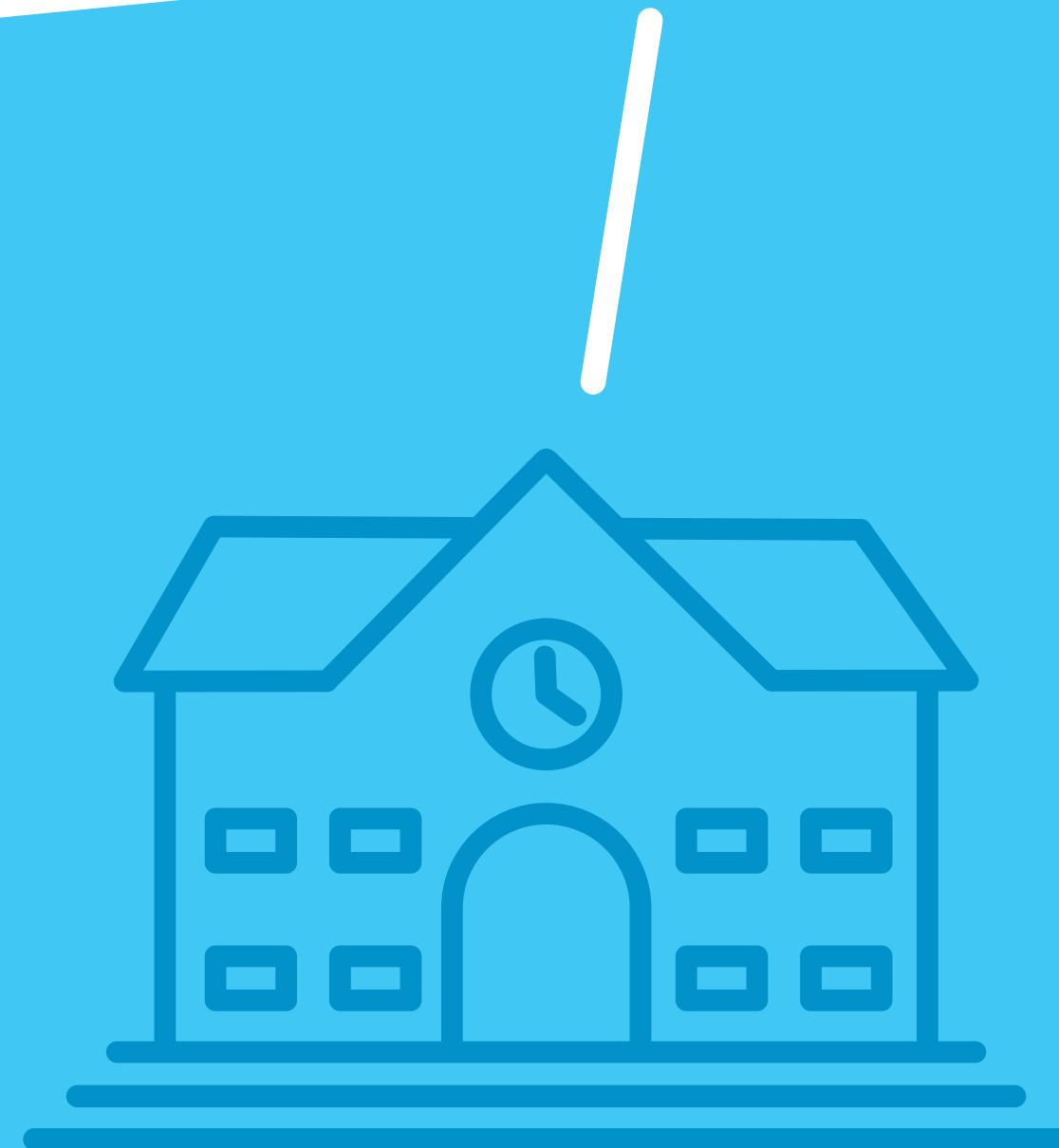
# We Do SEA!

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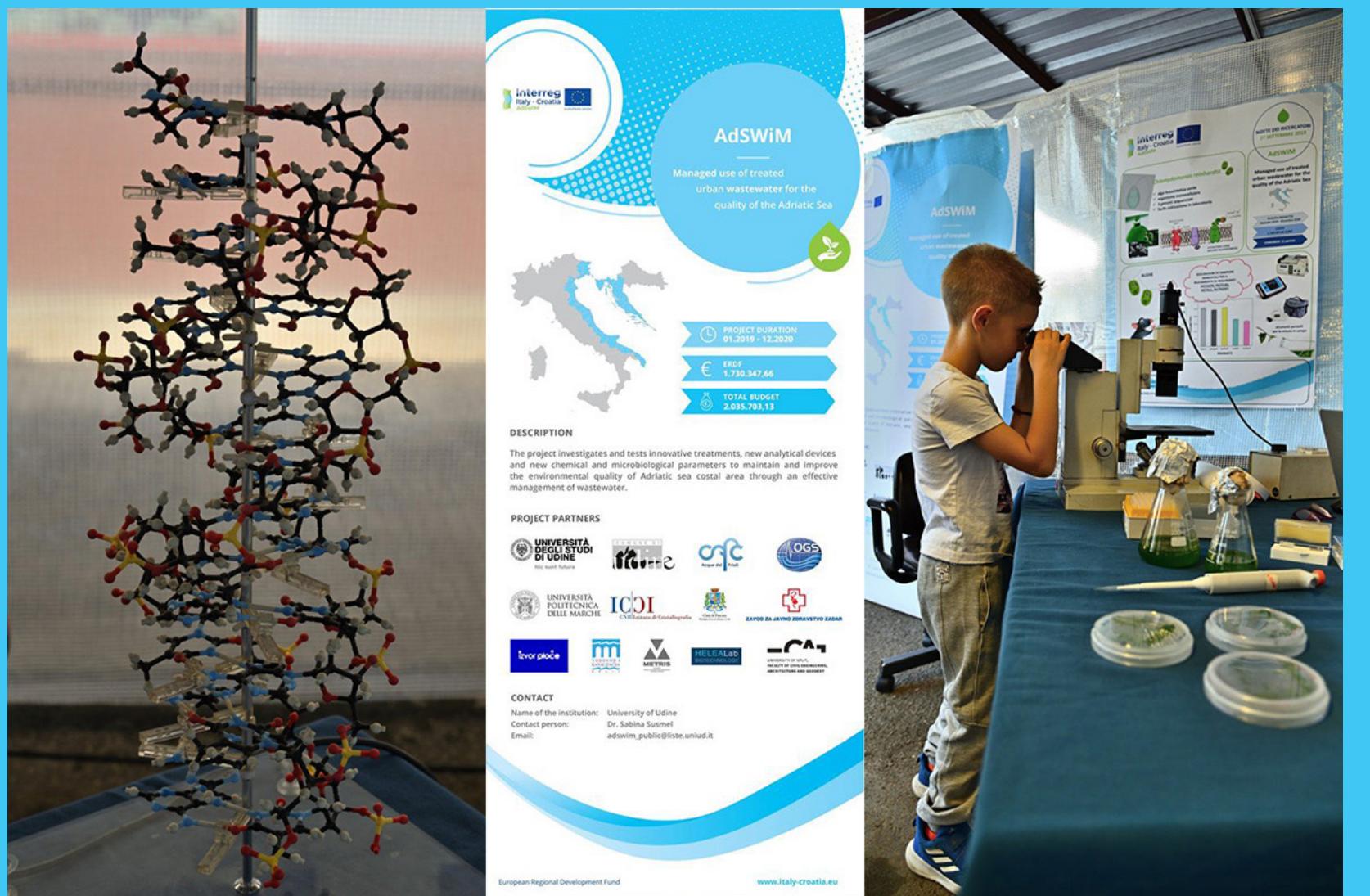


**6 Agencies  
and Bodies  
for Regional  
Development  
involved**

# We Do SEA!



More than  
50 education  
and training  
organisation  
involved



# We Do SEA!

10 guided visits,  
10 labs,  
1 joined didactic  
module,  
almost 100 events

xinnovazione



bilità sostenibile  
ree turistiche  
editerraneo

ebook recentemente presentato  
tema a 360 gradi

mobilità sostenibile  
e di carbonio,  
energetica,  
e interessante  
si: questo l'  
MED "MOBILITAS"  
il suo atto  
primi di lu-  
ni di lavoro.  
ogico di Rimini  
ali assieme  
nme di Mis-

## Progetto AdSWiM

*Biotecnologie e uso gestito delle acque depurate per la qualità del mare*



**I**l progetto indaga nuovi trattamenti, nuovi dispositivi analitici e nuovi parametri chimici e microbiologici per mantenere e migliorare le condizioni di qualità ambientale dell'Adriatico, della qualità delle acque di balneazione attraverso il controllo delle acque reflue. Si indaga se le acque urbane depurate nei limiti delle normative UE, possano essere utilizzate come punto di controllo per l'approvigionamento di nutrienti, in particolare fosforo, eliminando così i rischi per la qualità igienica delle acque di balneazione e per la stabilità dell'ecosistema. Sono esaminati nutrienti, inquinanti e batteri fecali. I dati analizzati vengono confrontati per scoprire elementi di metodi di monitoraggio comuni/diversi dalla linea di drenaggio dell'impianto di depurazione alle coste (Comune Pescara, Comune Udine, ZZJZZ). Questi dati sono riportati su mappe e modelli fluidodinamici preparati a fini di analisi (OGS, UNIST-FGAG) e per le attività di campionamento/monitoraggio. Vengono effettuati test per migliorare l'efficienza del processo di depurazione del mare (Metris) e il monitoraggio e la gestione delle acque depurate al fine di valutare la fotodisinfestazione come metodo per ridurre il carico microbico nelle acque reflue (UniUD). I nuovi dispositivi analitici sono ottimizzati per testare batteri fecali, inquinanti e orto fosfati (UnivPM, UniUD, IC-CNR, Metris). La comunità microbiica, la sua vitalità e la presenza di agenti patogeni emergenti in relazione alla distribuzione dei nutrienti/inquinanti, è caratterizzata (OGS, ZZJZZ). Questi test vengono eseguiti anche a livello di depuratori (CAFC, VIK). Gli studi di fattibilità (UNIST-FGAG, VIK) e un modello elaborato hanno



lo scopo di trasferire al contesto pertinente le tecnologie/gli strumenti attuali ottimizzati con test di mitigazione dello scarico delle acque depurate (CAFC). Saranno definite le linee guida e la politica di gestione del sistema di depurazione transfrontaliera. Le attività di comunicazione (Comune Udine) includono eventi, visite guidate, formazione per insegnanti e alunni, corsi specializzati per tecnici e professionisti per aumentare la consapevolezza cittadina alla conservazione dell'ambiente.



# We Do SEA!

## More than 10 scientific publications!

**In 12 MONTHS we have  
organised**



In 12 MONTHS we have  
organised



KICKOFF PROJECT  
CONFERENCE

In 12 MONTHS we have  
organised



PARTNERS PRESS  
CONFERENCES

In 12 MONTHS we have  
organised



**MEETINGS  
WITH PARTNERS, LOCAL AND  
NATIONAL GOVERNANCE BODIES**

**In 12 MONTHS we have  
organised**



**SCIENTIFIC and  
Technical EVENTS**

**In 12 MONTHS we have  
organised**



**STUDENT'S  
events with LABS**

**In 12 MONTHS we have  
participated in**

**2 BIG NATIONAL ON THE SPOT  
EVENTS THAT INVOLVED MORE THAN**



**CITIZENS**

In 12 MONTHS we have  
participated in



**SCIENTIFIC CONGRESS  
BY PRESENTING AND RECEIVED  
AN ACCREDITATION FOR 3 POSTERS**

# 12 MONTHS COMMUNICATION in numbers

10

PUBLICATIONS

25

PRESS  
CLIPPINGS

# 12 MONTHS COMMUNICATION in numbers

300.000

READERS

# 12 MONTHS COMMUNICATION in numbers

500.000

FOLLOWERS