

Welcome to our webinar

OPEN CALL for local and regional authorities

- Presentation will start in a few minutes
- This webinar will be recorded
- Feel free to ask questions via the Q&A (toolbar below)
 We'll answer them at the end of the webinar
- Technical issues? Please contact us via the chat







WEBINAR OPEN CALL for local and regional authorities

Welcome!

TODAY's AGENDA

- A short INTRODUCTION to the INSPIRE project Prof. Dr. Gert Everaert (VLIZ Belgium)
- More information about the INSPIRE TECHNOLOGIES
 Dr. George Triantaphyllidis (MINDS Greece)
- INSPIRE OPEN CALL Prof. Dr. Joydeep Dutta (KTH Sweden)







Get inspired - Join us!



















About INSPIRE: intro

- Prof. Dr. Gert Everaert VLIZ Belgium
- Leading the Research Division 'Ocean and Human Health'
- Project coordinator, leading the INSPIRE project









Horizon Europe INSPIRE project

Innovative Solutions for Plastic Free European Rivers (2023-2027)

Gert Everaert

Innovative Solutions for Plastic Free European Rivers

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What is INSPIRE?

INSPIRE is a 4-year Mission project funded under the call HORIZON-MISS-2022-OCEAN-01.

The project will contribute to the drastic reduction of litter, macro and microplastics in European rivers.

INSPIRE contributes to the Mission "Restore our Ocean and Waters by 2030".



PREVENT AND ELIMINATE POLLUTION OF OUR OCEANS, SEAS AND WATERS

- Reduce by at least 50% plastic litter
- Reduce by at least 30% microplastics
- Reduce by at least 50% nutrient losses, chemical pesticides





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Consortium

26 partners from 15 countries with a common mindset:

Find innovative solutions, try them out, measure results, optimize, replicate, scale up and engage new users.

In other words, "INSPIRE" people for the reduction of litter, macro and microplastics in European rivers and ultimately the ocean.

Particip. number	Particip. Acronym	Participant organization name	country	
1	VLIZ	VLAAMS INSTITUUT VOOR DE ZEE	BELGIUM	
2	VITO	VLAAMS INSTITUUT VOOR TECHNOLOGISCH ONDERZOEK	BELGIUM	
3	UM	UNIVERSITY OF MARIBOR	SLOVENIA	-
4	CLERA	CLERA.ONE	SLOVENIA	2
5	RC	MOLD	ITALY	
6	FF	FISHFLOW INNOVATIONS	NETHERLANDS	
7	CIIMAR	CENTRO INTERDISCIPLINAR DE INVESTIGACAO MARINHA E AMBIENTAL	PORTUGAL	(1)
8	123	123 ZERO	SLOVENIA	-
9	FRE	FRESENIUS UNIVERSITY	GERMANY	
10	WUR	WAGENINGEN UNIVERSITY & RESEARCH	NETHERLANDS	
11	BMI	BIO-MI	CROATIA	-
12	MINDS	MINDS TECHNOLOGIES AND ENVIRONMENTAL SCIENCES PC	GREECE	±=
13	КТН	KTH ROYAL INSTITUTE OF TECHNOLOGY	SWEDEN	
14	GREIN	GRE-IN	GREECE	1
15	CNR	CONSIGLIO NAZIONALE DELLE RICERCHE	ITALY	
16	EXIT	EXIT FOUNDATION	SERBIA	<u>ě</u>
17	UCA	UNIVERSITY OF CÁDIZ	SPAIN	10
18	ANRI	ALCHEMIA NOVA RESEARCH & INNOVATION GEMEINNUTZIGE GmbH	AUSTRIA	
19	ARCHA	ARCHA	ITALY	
20	INFOR	INFORDATA	ITALY	
21	CIR	CIRCE BIOTECH	AUSTRIA	
22	RCU	RIVER CLEAN UP	BELGIUM	
23	WnW	WASTE & WATER	FRANCE	
24	RWA	ROMANIAN WATER ASSOCIATION	ROMANIA	
25	AIT	ASIAN INSTITUTE OF TECHNOLOGY	THAILAND	
26	NOR	NORIA	NETHERLANDS	





Work methodology of INSPIRE Holistic DCP concept

The holistic approach of INSPIRE is summed up in the DCP concept:

1. DETECTION

of the pollution located in the river and on the riverbanks

2. COLLECTION

of litter, macro- and microplastics in the river andon riverbanks

3. **PREVENTION**

of litter, macro- and microplastics before entering the rivers

- stopping it in its waste stream
- developing biodegradable alternatives





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Holistic DCP concept



Funded by the European Union



INSPIRE will contribute to the drastic reduction of litter, including macro and microplastics, in European rivers, with a holistic approach conceptualized in the "DCP concept":

DETECTION of the pollution present in the

river and at the riverbanks:

Bridge mounted AI camera (VITO) & AIenabled CCTV (AIT) for litter detection

Meso/macro litter AI enabled drones for riverbank monitoring

JRC Floating Litter Monitoring app & EEA Marine LitterWatch app

compartments





COLLECTION of litter in the rivers and at •

the riverbanks:

Archimedean Drum Screw to capture debris and litter

Fish Friendly litter removing trawling net





CLEAN TRASH collection cage

CirCleaner litter removal system

Patje Plastic

Litter removal with citizen engagement













- **PREVENTION** of litter to enter the river by: Collecting it from its waste stream
 - Super-TW-Net filter
 - Clera.One water recycling system
 - EcoPlex Microplastic Remover
 - Photocatalytic reactor



Developing alternatives for non-degradable polluting products

Mulch films and greenhouse films



Coating of paper cups and dishes

Coatings for food preservation applications

Cosmetic formulations without packaging

Zero-waste supply chain innovations









We will develop, implement, test and validate methodologies and solutions to fight against the pollution of rivers by:

- Implementing and testing sets of solutions created by combining the different technologies and actions in
 6 river use cases and ≥ 3 circular solution test sites (Serbia, Greece and Austria).
- Assessing the **cost-benefit and sustainability**, and **optimizing** the implemented measures with support from forecasting and modelling tools.
- Developing action plans using the data and results collected during the use cases and demo sites.







Objectives of INSPIRE Main outputs and concepts

INSPIRE aims at creating a **Master Plan** which will be modular and serve as the guideline for the **uptake** of **sitetailored combinations** of **solutions** and **approaches**.

This includes

- Models for Europe to have an overview of the needs of each river, its scale of urgency in tackling pollution and how that should be carried out.
- A database that maps all the possible technologies and actions for litter collection and prevention.
- A decision-making tool to identify the most appropriate INSPIRE solutions for tackling pollution in the targeted rivers.







Preparation Good foundations for robust results



Deliverable 1.2 Monitoring and analysis protocols Version 4

29-11-2023

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Affiliation

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Fig. 3. Dissembling the Ferrybox sampling device and sample collection.





Fig. 4. Sampling device with filtered volume and flow rate visible.



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Preparation Protocols and proceedings for science proof, for technical, for assessment, for preventing, for permits, ... Application and implementation Tx, Dy Tx, Dy

From preparation towards implementation Stakeholder meetings to make ideas concrete









From preparation towards implementation Stakeholder meetings to make ideas concrete











From preparation towards implementation Stakeholder meetings to make ideas concrete







Meeting of INSPIRE partners and Central WWTP Domžale-Kamnik





Synergies



https://prep4blue.eu/





https://remedies-for-ocean.eu/



https://otters-eu.aua.am/





Financial support to third parties: INSPIRE replication site application

Open Call

- INSPIRE will deploy financial support to third parties (FSTP) in order to ensure the scaling, replication and exploitation of the lessons learned from the use cases.
- In practice, this will be done through an Open Call (OC).
- The aim is boosting the deployment of technologies and actions for detection, collection and prevention of litter, macro- and microplastics in European rivers.
- Through the OC procedure a number of applications will be evaluated and selected.
- The total available budget for the OC is € 500k, each selected project will be granted €60k 100k.

CALL OPEN	EVALUATION	SELECTION AND GA	KICK-OFF PROJECT	END PROJECT
June 17–Nov 29 2024 17h00 Brussels time	Dec 2024–Jan 2025	Feb 2025	1 March 2025	28 February 2027







Thank you for your attention.

Contact:

Email: gert.everaert@vliz.be

Acknowledgements





The INSPIRE project is funded by the European Union under agreement ID 101112879.



INSPIRE Technologies

- Dr. George Triantaphyllidis MINDS Technologies (Greece)
- Hydrobiologist
- Environmental impact assessments and R&D
- Lead WP2: preventing, retaining, collecting and eliminating plastic litter in 6 river use cases:
 - o Danube
 - o **Douro**
 - o Kamniška Bistrica
 - o Po
 - Rhine
 - Scheldt







Horizon Europe INSPIRE project

INSPIRE Technologies George Triantaphyllidis, gvtrianta@hcmr.gr,

MINDS Technologies & Environmental Sciences PC





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Actions to prevent litter, macro- (>2.5cm), meso- (0.5-2.5 cm) and microplastics (<5 mm)





A. Technologies for Detection





Manta Net

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JRC Floating Litter Monitoring App



Drone Observations

Marine LitterWatch guide for communities Marine LitterWatch guide for event organiser Marine LitterWatch guide for participants

Marine LitterWatch App



Bridge-mounted Cameras





Funded by the European Union

https://inspire-europe.org/solutions-category/detection/



A. Technologies for Detection

Bridge mounted AI camera

Al enabled drones for river

FERRYBOX

MANTANET

LITTER MONITORING APP



Marine LitterWatch guide for communities



Marine LitterWatch guide for event organisers



1. Create and manage a community

You can use the web portal or send EEA an email to create a community. You'll get a community code to share with your members. Use the web portal to set-up and manage your activities and data.



1. Log in to your community with the community code, and set up a beach and an event. You can use the web portal or the app for this. Monitoring events can only be set-up via the web portal. You'll get an event code to share with participants so they can submit their data on the event day.





1. Download the Marine LitterWatch app at home and log in to your community using the code provided by the community. Make sure you are familiar with the marine litter items list in the app survey before going to the beach.

Marine LitterWatch - Itemlist

- Complete list











CirCleaner — To Remove Nurdles/Pellets from the Water

Clean Trash Collection Cage



River Cleaning System

Patje Plastic



Fish Friendly Litter Removing Trawling Net Archimedean Drum Screw





https://inspire-europe.org/solutions-category/collection/



Archimedean Drum Screw

The fish friendly Archimedean drum screen is a variant design of the famous Archimedes' screw – a slowly rotating screw that transports water. To provide a uniform outflow, there is a screw surface installed on the inner cylinder of the screen. The outer drum is made of a stainless-steel mesh which functions to capture debris and litter and lets the filtered water sift through.

For optimum functioning of the system there needs to be a flow of water inside the system. Hence, the system itself is modularly designed so a connection, for example, to an axial pump to create flow is possible. Ultimately, the technology works as a screen allowing 90% of the filtered water flow to pass through while catching (plastic) debris and floating vegetation.

What makes the screen unique is that it is completely fish friendly, so the collection of waste doesn't come at the cost of the local fish species, which exit the screen through a special outlet.







Fish Friendly litter removing trawling net

It is a way of cleaning the bottom of canals and rivers.

Fish and marine life pass without damage or harm and plastics and other debris will be removed from the floor of the waterway.

Before and after application of this new technology the location will be explored and analysed with an underwater drone before and after the test.

FishFlow Innovations, The Netherlands







The River Cleaning System

A modular barrier made of floating buoys which retains and displaces the incoming litter on various types of rivers and waterways.

It has its optimal application in flowing waters, where the natural push of the stream spins each module in a manner similar to that of a turbine.

MOLD – Mold S.r.l., Italy







CLEAN TRASH collection cage

The CLEAN TRASH hot-dipped galvanized steel collection cage utilizes one, two or three separate collection chambers/levels that lower and raise to store the floating litter (down to 5 mm in size). The cage is equipped with lifting points and a sliding door. This collection cage will be further improved with a system that will detect, classify and quantify the debris and litter from rivers.





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MINDS Technologies & Environmental Sciences PC, Greece

AIT-GIC, Asian Institute of Technology (Geoinformatics Center), Thailand



CirCleaner – To Remove Nurdles/Pellets from the Water

The CirCleaner is an active, sustainable litter removal system running on solar energy. In order to reach efficient performance, it can be operated remotely using smart connectivity. The removal technique consists of a centrally rotating assembly on which a series of blades are mounted.

These permeable blades collect pollutants (litter and macroplastics) each time the blade goes underwater. Litter and macroplastics are pushed towards the blades by water flow and wind. The slowly rotating blades collect the trash and pitch it in the container.



Noria, The Netherlands





Patje Plastic



In the Doeldock in port of Antwerp, 'Patje Plastic' collects floating litter and plastics through a fractionated passive separation, so that these items do not spread further through the waterways.

The installation consists of a floating arm (boom) with a length of 100 m and 2 m height (1.5 m underwater and 0.5 floating), which pushes litter to collection-bins (see Figure in the right).

Then, a series of filters separates the larger from the smaller waste (> 2 mm). When the system is full, a warning signal is given to the operators for emptying. For litter collection and disposal, the device should be deployed near a road/ramp, as a crane truck will lift the collection-bins. 'Patje Plastic' needs no power supply, since it works on wind, wave, and gravity. The circular design by Dutch company Allseas is made of 75% recycled plastic (© port of Antwerp; © SouPLess, LIFE project).



Circular plastic catcher: 1) boom, 2) screen between the quay and the catcher, 3) floating frame with two collection cages 4) for large litter and 5) for small litter [1].









Special Membrane Filtration Unit

Super-TW-Net



Chitosan Nanocoating for Shelf-life Extension of Vegetables and Fruits



Sying code



PHA for Agriculture or Packaging Zero Waste Cosmetics



Litter Removal with Citizen Engagement



WnW EcoPlex Microplastic Remover®



Photocatalytic Nanocoating Device





Applications



WnW EcoPlex Microplastic Remover®

The WnW EcoPlex Microplastic Remover[®] (ECOPLEX Device) consists of two microplastic filtering units that work in series. The device is self-cleaned and fully automated. The device also consists of hydraulic valves in appropriate places so that it is easy to change the connection of the two filtering units from serial connection to parallel.

The filtering units are skid mounted and can easily be relocated. In front of the filters, an electrical panel is installed for the automated operation.

Each filtering unit contains a bottom layer of fine media and a top layer of coarse media. ECOPLEX can also be remotely controlled if a PLC is connected on the electrical board, including all peripheral equipment control.



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Super-TW-Net

The Super-TW-Net filter is designed to collect nanometric tirewear particles (TWP). It is based on functional paramagnetic nanoparticles that will be immobilized on an appropriate scaffold and act as high-affinity adsorbents for the TWPs.

The filter materials, produced by the industrial-scale Flame Spray Pyrolysis (FSP) technologies of DELVEC, are based on hybrid Febased nanoparticles with high affinity for the carbon and sulfur moieties of the weathered TWPs.







DELVEC DELIGIANNAKIS G. - DELIGIANNAKIS D. O.E., Greece



Special Membrane Filtration Unit

Clera.One's chemical-free water recycling system enables the elimination of fine particles.

Its innovative membrane allows a high-water permeation and flow while maintaining low pressure, with membrane pores adjustable down to $0.1 \ \mu m$.

An ozone generator disinfects the membranes and prevents fouling. Clera.One's device retains > 80% of microplastic particles and enables 70% wastewater reuse.





CLERA, Clera.One – Energ+ d.o.o., Slovenia



Photocatalytic Nanocoating Device

The photocatalytic nanocoating device was developed for cleaning microplastics in water by using nanotechnology-based coatings on filter traps with sunlight activation.

This device uses a novel Photo-Fenton process, where hydrogen peroxide (H_2O_2) and ferrous (Fe^{2+}) ions deliver powerful oxidative properties due to the generation of hydroxyl radicals (·OH).

Water outlet



KTH Royal Institute of Technology, Sweden



Chitosan Nanocoating for Shelf-life Extension of Vegetables and Fruits

Replacing single-use plastic packaging, biodegradable chitosanbased coatings will be used for direct application on fruits and vegetables to improve shelf life and avoid additional packaging.

The coatings made of several formulations will be tested and validated fully in compliance with food regulations in the lab and on site. Local retailers will be involved for onsite testing at a relevant scale.

Mango Pineapple Prolonged shelf life from 4-5 days up to 14-16 Prolonged shelf life from 3 days up to 21 days days

Cucumber

Prolonged shelf life from 8-10 days up to 14-16 days



KTH, Royal Institute of Technology, Sweden



PHA for Agriculture or Packaging Applications

Biodegradable PHA (polyhydroxyalkanoates) produced by fermentation will be used as a basis for the production of soil degradable mulch and greenhouse films, as well as coating of paper.

PHA films for mulching and greenhouses

PHAs will be compounded together with functional additives such as carbon black and other soil degradable polymers in a twin-screw extruder. The obtained material will then be blow extruded into films for mulching application and greenhouses. Main difference between these two products will be the transparency and colour. Mulching films usually require black colour with low transparency whereas greenhouse films should have higher transparency.

BIO-MI d.o.o., BIO-MI društvo s ograničenom odgovornošću za proizvodnju, istraživanje i razvoj, Croatia







Zero Waste Cosmetics

The 123zero cosmetic products are made from 100% natural ingredients with minimal environmental footprint, leaving behind only the pleasant and blissful sensations.

They provide to hotels and travellers access to gentle, high-quality and affordable cosmetics that is both convenient and environmentally friendly.

123zero, Slovenia





Litter Removal with Citizen Engagement

The Clean River Model is a holistic approach developed by River Cleanup, specifically tailored to address the multifaceted issue of river plastic pollution. It's a structured framework evolving from their experience and best practices in the field and supported by academic research. It's designed to be adaptable and scalable, making it suitable for different contexts and regions.

The Clean River Model works on 3 main pillars, each with 3 subpillars: Empower People, Awareness, Activate Schools & Communities.

The Schelde and Rhine case will be used as the high-income country validation of the Clean River Model. Which means, for example, that our efforts on enhancing waste management will be minimal as there is already good waste management in place.







Thank you very much!

https://inspire-europe.org/open-call/



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The INSPIRE project is funded by the European Union under agreement ID 101112879.





# **INSPIRE** Open Call

- Prof. Dr. Joydeep Dutta
- Chair professor KTH Royal Institute of Technology (Sweden)
- Bridging academia and industry
- 35 years of experience in sustainable engineering solutions in Food, Energy and Water applications
- Lead WP5







INSPIRE Innovative Solutions for Plastic Free European Rivers

> Welcome! Joydeep Dutta

#### **Financial Support to Third Parties (FSTP)**



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## **Open call objective:**

### **Financial Support to Third Parties (FSTP)**

- 1. Open call objective
- 2. Beneficiaries
- 3. Application Process
- 4. Timeline
- 5. Funding & Eligibility
- 6. Admissibility and Eligibility check
- 7. Evaluation
- 8. FAQ of the INSPIRE FSTP open call
- 9. Application template





# WP 5 Scaling, replication and exploitation

### **INSPIRE Overall concept of integration of knowledge & expertise**



**PHASE II: INSTALL the means to develop the use cases** 

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## Open call objective: Associated Regions (AR)



- Local and regional authorities for scaling up, replication and exploitation of the lessons learnt from the project use cases.
- Associated Regions teaming-up with the INSPIRE partners to adopt and replicate the project's innovative solutions.
- Defined in INSPIRE as public entities that manage, regulate and supervise public welfare at local or regional level (e.g. city council, regional council, municipality, etc.).
- This call has a clear European dimension





- Local and regional authorities from European Union Member States, or Horizon Europe associated countries
- UK is eligible for the FSTP
- Applicants from Austria, Belgium, Croatia, France, Germany, Greece, Italy, Netherlands, Portugal, Romania, Serbia, Slovenia, Spain, and Sweden are excluded from the list of potential beneficiaries).



## **Evaluation Criteria**

The excellence of the proposals will use the following guidelines (25% weight each):

- 1. CONCEPT AND INNOVATION
- 2. EXPERTISE AND EXCELLENCE OF THE PROPOSED TEAM
- 3. ALIGNMENT AND PROJECT PLANNING
- 4. IMPACT AND SUSTAINABILITY



## **Application Process**

## Call opening date: June 17, 2024

## Call closing date: November 29, 2024, 17h00 Brussels time

# Single stage submission: through the INSPIRE website: https://inspire-europe.org/

English language should be used for the proposal write-up



## **Evaluation, Grant & Reporting**



**Evaluation and selection**: December 2024 – January 2025

Granting completed: February 2025

**Project implementation (18 months)**:

From 1<sup>st</sup> March 2025 – 31<sup>st</sup> August 2026

**Project reporting period (6 months)**:

1<sup>st</sup> September 2026 – 28<sup>th</sup> February 2027

Project end: 28<sup>th</sup> February 2027

Duration: 24 months



## **Funding & Eligibility**

Maximum grant amount that each applicant from an Associated Region can apply is €100,000 and the minimum grant amount to be requested is €60,000.

- 50 % at the start of the project
- 25 % after the evaluation of the first annual report
- 25 % after 18 months, upon reaching all milestones



## **Eligible Expenses**

- Estimated budget presented in euros
- Staff costs: employment contract with the beneficiary
- Subcontracting costs based on actual incurred cost
- Limited goods or services
- Depreciation for purchase of equipment
- Flat-rate of 15% of the total eligible direct costs for the action
- Check the call for other details



## **Call Details**

Solutions ~

About

#### https://inspire-europe.org/

Contact

**Open Call** 

# Innovative solutions for plastic free European rivers

The INSPIRE project is a pioneering initiative aimed at addressing the pressing global issue of plastic pollution through a multifaceted approach.

Learn More



# Innovative Solutions for Plastic Free European Rivers

June 17th - November 29th

for local and regional authorities from Associated Regions

INSPIRE



## Q&A

## Please ask your questions via the Q&A (toolbar) or later via s inspire-project@vliz.be

## inspire-europe.org/open-call







## Thank you!

# Visit our website for all information about this OPEN CALL (June 17<sup>th</sup> – November 29<sup>th</sup>) for local and regional authorities

inspire-europe.org/open-call









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Innovative Solutions for Plastic Free European Rivers