FLOW

For Living Oceans and Water

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# Context

Did you know that a human being can ingest up to 5g of plastic per week, which is equivalent to a credit card? This figure comes from a [WWF](https://www.wwf.fr/sengager-ensemble/relayer-campagnes/pollution-plastique) study on the ingestion of plastic in air, water and food.

There are a multitude of chemical combinations that can be used to create plastic, giving it an infinite number of possible shapes. As a result, it is particularly complex to collect and recycle. According to [TaraOcean](https://fondationtaraocean.org/en/home/), France's first publicly recognised foundation dedicated to the ocean, "**In France, for example, 73.6% of plastics are landfilled or incinerated, emitting pollutants that are still poorly understood into the air, water and soil.** Even the most recyclable plastics, such as polyethylene (PET), are recycled only to a very limited extent: currently, barely more than half of PET water bottles are recycled. The flow of plastic to the ocean is not just uncollected waste. Because of the weather, plastics break down and release microplastic particles. These almost invisible micro entities represent a colossal flow, with each rainfall carrying these particles to rivers and the ocean.

Today, we know that all forms of plastic are harmful to both animals and plants. The most visible impact is that of macroplastics, which marine animals ingest and in which they can also become trapped (fishing nets, etc.). According to the taraocean foundation: "The vast majority arrive in the form of **microplastics (**measuring between five millimetres and a few hundred nanometres) or even **nanoplastics**, smaller than one micrometre".

These plastic particles threaten marine ecosystems and scientists continue to study their toxicity. At this microscopic scale, these plastic particles can have a dramatic effect on organisms.

**In this context, "FLOW" is a project of "initiatory journey" in search of concrete solutions, of human encounters, in the service of a collective and committed fight. This one-year expedition will take place all along the European coasts and is part of our university course between our third and fourth year of engineering.**

FLOW, an acronym for "**F**or **L**iving **O**ceans and **W**ater", is a project for living oceans and water. It is part of a sustainable approach to ecosystems and their protection. FLOW also, because in "positive psychology", "flow" is a "mental state reached by a person when he or she is completely immersed in an activity and is in a **maximum** state of **concentration**, **full commitment** and **satisfaction in its accomplishment"**. Finally, "Flow" is also a musical term for the rhythm of music or spoken words.

**F L O W is thus a resolutely positive and committed project for the sustainability of water and the oceans, with a rhythm and resonance commensurate with the challenge and its urgency.**

**Provisional date for the grand departure: 17 October 2022!**

# Objectives and Expected Results

## Objectives

**The main objective** of **F L O W** is to **contribute to the fight against micro and macroplastic pollution of water and oceans.**

To achieve this, there are three **specific objectives:**

* To collect information on the presence of macro and microplastics on the European coastlines and riverbanks in order to contribute to research on their impact worldwide. This information will be processed by the TaraOcean laboratory.
* To meet, in each of the countries visited, actors looking for solutions in the fight against water and ocean pollution
* To give new visibility to this issue and above all to highlight existing and possible solutions via a video film in order to raise awareness and awaken the general public to this important and urgent issue.

## Expected results

### Scientific results

* Some forty samples taken in 19[[1]](#footnote-1) countries of the European Union. Samples that can be used and valorised within the framework of a protocol of the TaraOcean foundation in collaboration with Jean-François Ghiglione, Scientific Director.
* An overview of European legislation and specific national regulations on plastics in the different EU countries.

### Media' results

* 20 interviews with university professors specialising in this field.
* 20 interviews with organisations offering solutions to combat water pollution.
* The production of "micro-trottoirs" according to the meetings.
* 1 documentary film (52') for distribution via different channels (schools, universities, social media, partner media).

# Resources

## Technical means / Estimated budget

|  |  |
| --- | --- |
| Van type vehicle (with the most environmentally friendly engine possible) | 20.000 |
| Estimated energy requirement for the route | 6.000 |
| Food (300 days, 2 people) | 15.000 |
| Video equipment (GH6; microphone; drone) | 4.500 |
| Sampling equipment | In progress with taraocean |
| Unforeseen | 4.500 |
| Total | **50.000** |

Part of the budget will be financed by their savings. (3000€ at this point)

## Une image contenant carte Description générée automatiquementHuman and financial resources

**Pablo and Elmo**

The first resources are the project leaders. Pablo Bourcelet and Elmo Swenne, bioengineering students respectively at UCL and ULB in Belgium. They are finishing their third year and have decided to set up and run FLOW before starting their master's degree.

Their paths crossed when they were youth workers and then animators in youth movements. They share the same values, passions, such as rugby and the FLOW project, as well as the same bio-engineering studies.

Their academic background gives them a scientific background that will enable them to carry out field analyses. They undertake this journey as "the first adventurers of a crew".

**Soraya**

Soraya joined the project in October 2022. Seduced by the project, she decided to help us by taking care of the communication and social networks aspect.

**A crew to come according to the meetings**

They hope that each encounter during the journey on the European continent can be a gust of wind in the sail to advance this project.

**Technical or financial partnerships**

Pablo and Elmo are considering financial partnerships in order to cover the estimated costs of setting up and running the project. For this, they are counting on participatory financing as well as on sponsoring. They also hope for many human partnerships in order to exchange and benefit from mentorship throughout the project.

They are also planning technical collaborations that should enable them to continuously improve their knowledge in the service of FLOW.

LinkedIn logoUne image contenant texte, clipart

Description générée automatiquementThey invite you to tell your friends and family about FLOW and to follow and share FLOW on social networks: [](https://www.instagram.com/flow_project_/)

FLOW - For Living Oceans and Water - flow\_project\_

https://flowproject.be



flow\_project\_ F L O W

**Would you like to support them?** You can do so via the "[**gofundme**](https://www.gofundme.com/f/for-living-oceans-and-water)**"** platform, via IBAN: **BE13741006380939** or via [**their website**](https://flowproject.be/)using the "donate" icon.



**Would you like to contact them? Do not** hesitate to send them a message to the following email addresses : [p.bourcelet@gmail.com](mailto:p.bourcelet@gmail.com) et [elmosbrc@gmail.com](mailto:elmosbrc@gmail.com)

# Partners

# Une image contenant texte Description générée automatiquementPartnerships envisaged

*WEST Van - Aménagement véhicule, van aménagé en Belgique**Credits - Support the Fondation Tara OcéanCompany ~ HeoleArchitecture et climat - UCL - Energie Plus Le SiteEuropean Commission visual identity | European CommissionNorth Kiteboarding enrole le designer Pat Goodman !Mystic | Brands of the World™ | Download vector logos and logotypes2LIFE - SEAQUAL – WANTED*

*“Croyez pour être forts Aimez pour être heureux.”. de Victor Hugo dans "Océan"*

1. Countries crossed: 19 countries of the European Union. (France, Spain, Portugal, Italy, Serbia, Slovenia, Croatia, Greece, Bulgaria, Hungary, Estonia, Latvia, Poland, Germany, Netherlands, Denmark, Sweden, Finland, Belgium). This represents approximately 20,000 km. [↑](#footnote-ref-1)