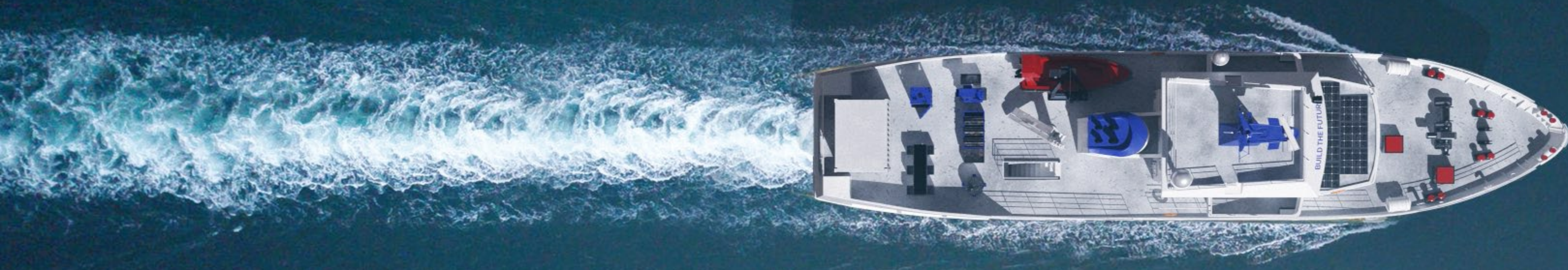




**MEDIA BROCHURE
2020**



**The Round-the-world Expedition
To Protect The Ocean**



**Aboard The First Vessel That Turns Plastic Waste
Into Fuel**



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I. PLASTIC POLLUTION



I. PLASTIC POLLUTION THE ILLUSION OF CLEANING

“

To fight against plastic pollution at sea, we must act ashore

”

Plastic Everywhere

Every minute, 20 tons of plastic end up in the Ocean, and every week we swallow an average of 5 grams of this plastic.⁽¹⁾

Impossible Cleaning

When dumped into nature, plastic waste breaks down into fragments, which then become **unrecoverable microparticles**.⁽²⁾

Turning Off The Tap of Plastic Pollution

90% of marine pollution comes from coastal cities of **32 countries**.⁽¹⁾

(1) Plastic waste inputs from land into the ocean - Jenna Jambeck et al. Science 347, 768 (2015) (cf Annexe)

(2) A global inventory of small floating plastic debris - Erik van Sebille et al 2015 Environ. Res. Lett. 10 124006



I. PLASTIC POLLUTION SOLUTIONS ARE ASHORE



“ Clean up the past, and build the future ”



RECYCLE & RECOVER

Cleaning up past mistakes

Recycling 1 out of 2 plastic wastes in the 32 most polluting countries would avoid over 45% of the Ocean's pollution. (1)

REDUCE

Building tomorrow's world

Reducing the production of waste to 1.7 kg per day and per inhabitant would avoid 26% of Ocean pollution.

(1) Plastic waste inputs from land into the ocean - Jenna Jambeck et al. Science 347, 768 (2015)



II. PROJECT



II. PROJECT | VISION

“ Developing a global network of local initiatives ”

Small Scale, Large Impact

Locally designed solutions to generate **global impact**.

Sharing Knowledge

Spread everyone's innovations in **open-source** to benefit as many people as possible.



II. PROJECT | REDUCE

“ Promoting alternatives to plastic ”

Involve companies and industrials to reduce the use of plastic.

The vessel's fore part is dedicated to the testing and display of alternatives to the use of plastic.



Zero-waste kitchen, cabins, and bathrooms are used to test solutions easily replicable in hotels and restaurants.



The vessel's conference room presents a travelling and evolving exhibition of materials that can replace plastic at the industrial level.

On-board plastic reduction showroom



II. PROJECT | RECYCLE



On-board recycling workshop

An Open-Source Approach

The machines' blueprints will be shared on a collaborative platform to be improved and used by as many people as possible.

“

Design low-tech recycling machines to process waste

”



Easy To Use, Patent-Free, And Human-Sized Tools.

For plastic waste to be recycled, several steps are necessary. Plastic Odyssey is developing a set of machines to perform each of these steps. Inspired by solutions that work in the field and improved with the technical expertise of our community, these machines are destined for in-land-based waste treatment centers.



Thanks to these machines, for example, the child's toy becomes a basin, the can becomes a roof tile, and the bottle becomes thermal insulation.

II. PROJECT ENERGY RECOVERY



The first vessel that turns plastic into fuel



A Full-Scale Demonstrator

To prove that waste holds value, the Plastic Odyssey ship is taking several recovery machines on board for testing and demonstration purposes.

Among these machines, **on-board pyrolysis** will be used during stopovers to produce fuel consumable directly on board.



Pyrolysis is a process that consists of heating plastic without oxygen to break down long polymer molecules (in solid form) into lighter ones (liquid and gas): With 1Kg of plastic, we can obtain up to 1L of fuel, diesel, and petrol.

The Journey Of Waste During Stopovers

Collect

and sort plastic waste ashore before using it on the vessel.

Recycle

collected plastic to demonstrate the operation and utility of each machine.

Produce Fuel

with non-recyclable plastic with the onboard pyrolysis, for storage and use onboard.

II. PROJECT | VESSEL

“ A unique tool to experiment and promote solutions in the field ”



CLEAN UP THE PAST

#recycle

BUILD THE FUTURE

#reduce

Technical characteristics of the vessel

Length: 128 feet
Width: 31 feet
Gross tonnage: 464 UMS
Engines: 736 kW

Crew: 7
Technical and scientific personnel: 7
Media team: 3
Guests: 2



II. PROJECT | EXPEDITION

“ Over 30 main stopovers across 3 continents ”

Stopovers' Objectives

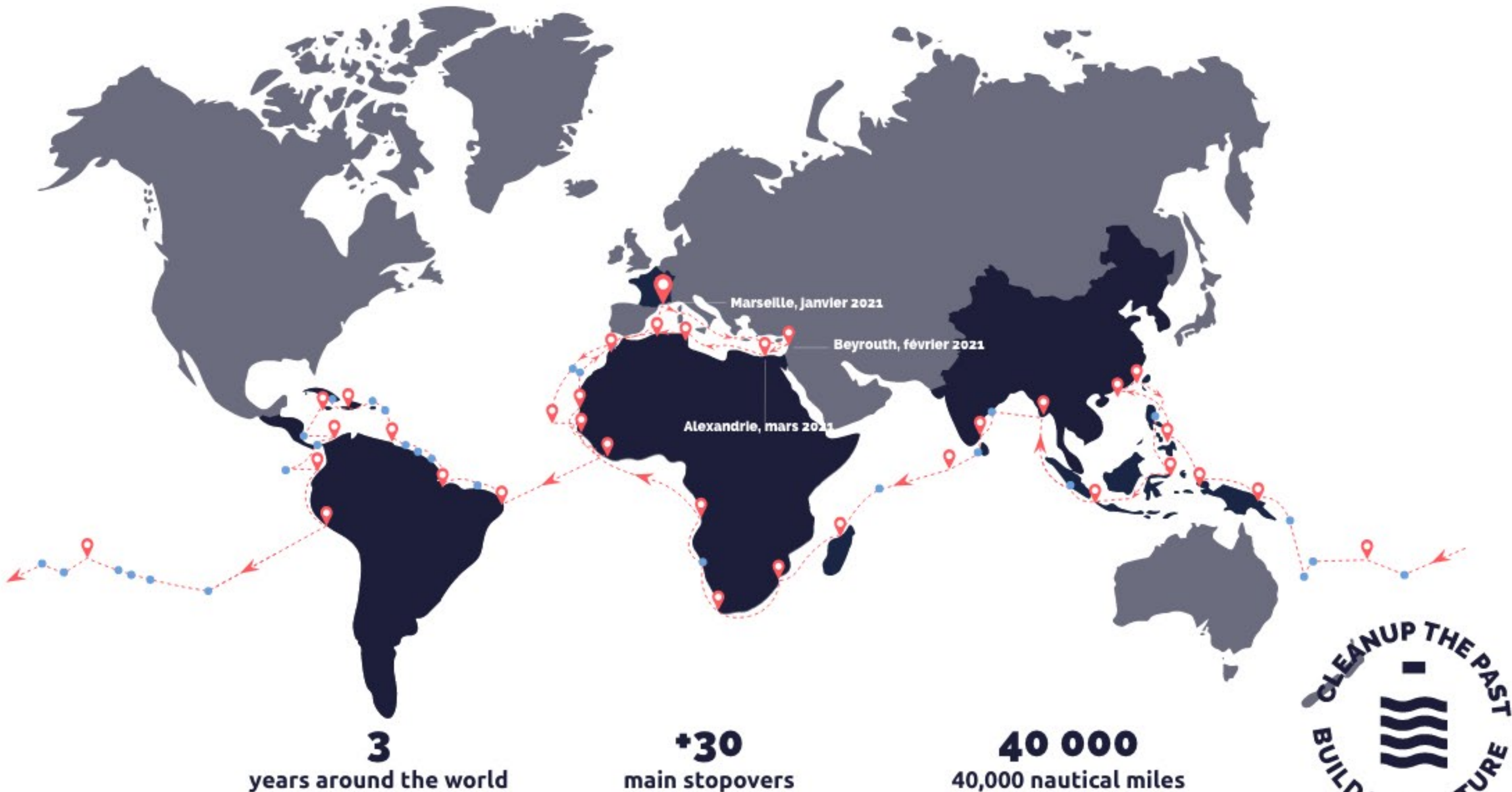
- ① **Gather** engineers, investors, entrepreneurs, and decision-makers
- ② **Experiment** and develop technologies
- ③ **Disseminate** solutions for replication

Course Of The Expedition

Two types of stopovers

Long (📍)
Duration: 3 weeks
Actions: press conferences, official visits, demonstration workshops, field studies, collaboration with local waste management ecosystems...

Short (📍)
Duration: 3 to 7 days
Actions: press conference, waste collection on an island or in an isolated town to fill up the vessel with plastic and reach the next stopover.





III. SCALING UP



III. SCALING UP SOCIAL ENTREPRENEURSHIP

“ **Developing local entrepreneurship of recycling and reduction
to generate jobs** ”

In the long term, projects can be deployed and supported on the field. This stage follows the stopovers, thanks to the data and contacts gathered during the expedition.

This phase of development will require complementary financing to that of the expedition and will be carried out in a different time frame than the expedition itself.



Plastic Odyssey’s ambition is to promote the development of small recycling and reduction companies in developing countries (where the problem of waste is constantly growing), to train entrepreneurs, generate local employment, and stimulate the autonomy of emerging cities.

Find successful existing models and document them.

Encourage the development of profitable recycling micro-factories.

Support entrepreneurs towards independence and professionalization

Expedition

Scale up

III. SCALING UP USE CASES

“Initiatives do exist, and they deserve to be supported, promoted, and shared”



ALGRAMO - Chile

Offers a retail network for bulk products through stores and vending machines, which reduces costs for both the consumer and the retailer.

How one Chilean startup is bringing an end to single-use plastics - The Guardian - 04/07/2018



NETPLAST- Ghana

Recycles plastic bags into paving stones that serve to build roads and bricks for houses. Paving stones are more resistant than pavings made out of concrete and are sold 30% less than conventional ones.

(fr) Ghana : entre addiction au plastique et innovations dans le recyclage - Le Monde 04/08/2020



CONCEPTOS PLÁSTICOS - Colombia

Transforms plastic waste into building materials to improve waste management and provide accessible and sustainable housing for low-income communities.

(fr) En Côte d'Ivoire, des écoles en plastique recyclé - Le Monde Afrique 09/09/2019



SCARAB TECH - South Africa

Builds and operates small pyrolysis units to treat waste and provide off-grid electricity.

The Dung Beetle Project Converts Waste Plastic to Useful Energy - allianceearth.org



IV. TEAM



IV. TEAM MEMBRES



Simon BERNARD - CEO

Trained as a Merchant Navy officer, Simon was the driving force behind the idea of the project of which he is now president. Speaker at major conferences, he is the project's spokesperson. Simon performed a TEDx on Plastic Odyssey in 2019.



Alexandre DECHELOTTE - CCO

Trained as a Merchant Navy officer, Alexandre co-founded Plastic Odyssey and now leads the project's Communications. He is the privileged contact for the project's partners, with whom he works to undertake concrete actions to lead the project forward.



Bob VRIGNAUD - CTO

Engineer experienced in processes but also in social entrepreneurship, Bob co-founded the Plastic Odyssey project and now manages its R&D. He is the privileged contact for the project's technical partners that he brings together to share knowledge and expertise and to find solutions to the plastic pollution problem.



Joël PAIN
Managing Director



Tom BÉBIEN
Recycling Manager



Chloé LEGRAND
Community Manager



Charlotte BOYER CHAMMARD
Stopover Manager

IV. TEAM SUPPORTERS

| Support Committee



Brune POIRSON

Former French Secretary of State, Vice-President of the United Nations Environmental Assembly



Guillaume BRIANT

Associate Lawyer
Stephenson Harwood AARPI



Didier LE BRET

French Diplomat, Former Ambassador
Partner at ESL & Network



Marc VAN PETEGHEM

Naval architect, Founder of VPLP,
co-founder of Watever



Patricia RICARD

President of the Oceanographic
Institut Paul Ricard



Roland JOURDAIN

Sailor, co-founder of the
Explore Endowment Fund

| Ambassadors



Guillaume NERY

French Freediver



Alice DAVID

Actress



Cyrielle HARIEL

French Journalist



V. PROJECT PHASES



V. PROJECT PHASES

ULYSSE: PROOF OF CONCEPT

2018 - Proof of Concept: the prototype of Plastic Odyssey

Built in Concarneau by our team, in the Explore workshops, Ulysse, the prototype vessel, was inaugurated by Brune POIRSON and Roland JOURDAIN. Ulysse is the first ship in the world to carry a pyrolysis machine that produces its own fuel. A tour of France was carried out to participate in the biggest nautical and innovative events, then the ship closed the season on the rooftop of the Galeries Lafayette in Paris. The first stage of a worldwide adventure with international media coverage.

Construction and Inauguration by Brune POIRSON



Sea trials in Concarneau



Tour of France Concarneau - Annecy Monaco - Marseille - La Rochelle



Press Conference on the rooftop of the Galeries Lafayette, Paris.



V. PROJECT PHASES | TIMELINE

Proof of Concept



January 2018



Construction of the prototype boat Ulysse

May 2018



Sea trials

June 2018



Promotional tour in France

Preparation



November 2018



Field study trip, Thailand

February 2019



Field study trip,Burkina Faso

October 2019



Purchase of the vessel
Field Study Trip, Egypt

November 2019 - October 2020



Assembling of the onboard recycling station and pyrolysis Shipyard

December 2020



Installation of the recycling machines onboard the vessel - Marseille, France.

Expedition



January 2021



IUCN Marseille
Departure of the Expedition

February - April 2021



Mediterranean Mission

2021



West Africa and Latin america

2022



Pacific Asia

2023



East Africa

Expansion



2024



Publication of a recycling solution catalog

2021- 2025



World wide scale up



VI. OUR PARTNERS

Simon BERNARD alongside Reinold
and Adrien GEIGER
(L'Occitane en Provence - partenaire principal)

 **PLASTIC
ODYSSEY**



**Plastic Odyssey can have a colossal impact.
Their idea made us dream**



Adrien Geiger on BFM Business TV
Group Sustainability Officer of L'Occitane en Provence - main partner



VI. OUR PARTNERS



Main Partner



L'OCCITANE
EN PROVENCE

Official Partners



CLARINS



Social Partners



ENOWE

BIODERMA
LABORATOIRE DERMATOLOGIQUE

Technical Partners



INSA
VALOR

PELLENCST



PONANT

TRIVÉO

ExcelRise

ProSim
Software & Services in Process Simulation

An Expedition Under The
High Patronage Of The



Media
Partners





Web series

Object	Expedition diary for an immersion in the daily life of the team
Broadcasting	YouTube channel, Pure Player Web, media partners

Events

Purpose	Conferences and workshops, official visits
Broadcasting	Live broadcasting of the expedition's highlights on social networks

Writings

Purpose	Academic articles bringing together learning and Plastic Odyssey methodology Expedition diary recorded by the founders relating the adventure (partners exclusivity) Comic book recounting the stakes of plastic pollution and Plastic Odyssey's raison d'être.
Broadcasting	Website, Medium, Social networks, print publication

Documentary series and TV reports

Subject	Coverage of Plastic Odyssey's stopovers and shore actions
Broadcasting	Prime time national TV channel and international distribution
Producers	Bonne Pioche, TF1, France TV

VII. MEDIA COVERAGE 2018-2020

TV



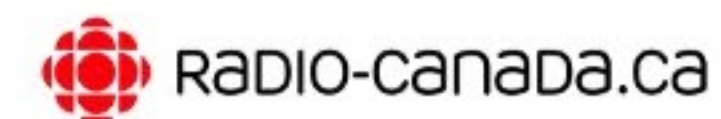
Radio



Written Press



International Media





VIII. TESTIMONIALS



Brune POIRSON

Secretary of State for Ecology and
Vice-President of the United
Nations Environment Program

Brune Poirson ✓ @brunepoirson · 17 mai

🌊🚢 Heureuse de retrouver les membres de @PlasticOdyssey au #VivaTech !

Leur projet ? Une expédition à bord d'un navire laboratoire du #recyclage des déchets marins, de leur valorisation et de la réduction de la #pollutionplastique. Une équipe de pionniers ! 🙌



Nicolas GOMART

Director and Vice-President
of the MATMUT Group

Nicolas Gomart ✓ @NicolasGomart · 15 mai

Contribuer à lutter contre le #7eContinent grâce à une #innovation pragmatique et frugale. Une belle ambition que la @Matmut, partenaire de @PlasticOdyssey, soutient avec enthousiasme 🚢 #PollutionPlastique @VivaTech



Marie LE ROY

Marketing Director Europe
of L'Occitane

Marie Le Roy @missmarieleroy · 15 mai

Very inspiring project and partnership between @LOccitane_FR and @PlasticOdyssey, a committed #startup fighting against plastic waste 🙌🚢🌊
@simn_bernard
#proudfmycompany



VII. CONTACT

INFORMATIONS

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