

BlueMissionMed Support Programme



Stefania Campogianni, WWF Mediterranean

Since its inception in 2018, PSC has worked with over 50 cities worldwide to implement innovative plastic pollution reduction strategies

Our Key Focus Areas

Goal: Reduction of Plastic into Nature



Reduction/Reuse

Eliminate harmful and avoidable plastics. It involves phasing out unnecessary or single-use plastics, promoting bans or restrictions, and encouraging upstream policy interventions to minimize plastic production. Promotes the adoption of reusable systems and products to replace single-use plastics.



Separate/Collect

Effective collection and segregation systems are critical to ensuring plastics are captured and directed to appropriate recycling or disposal channels. This focus area supports cities in improving access to formal collection systems, enhancing segregation at the source, and optimizing waste logistics.



Recycle/Repurpose

Recycling and repurpose are key to closing the loop on plastic waste. This focus area supports the development of infrastructure, technologies, and market incentives that increase recycling rates, reduce contamination, and promote the use of recycled materials to retain plastics within the value chain.



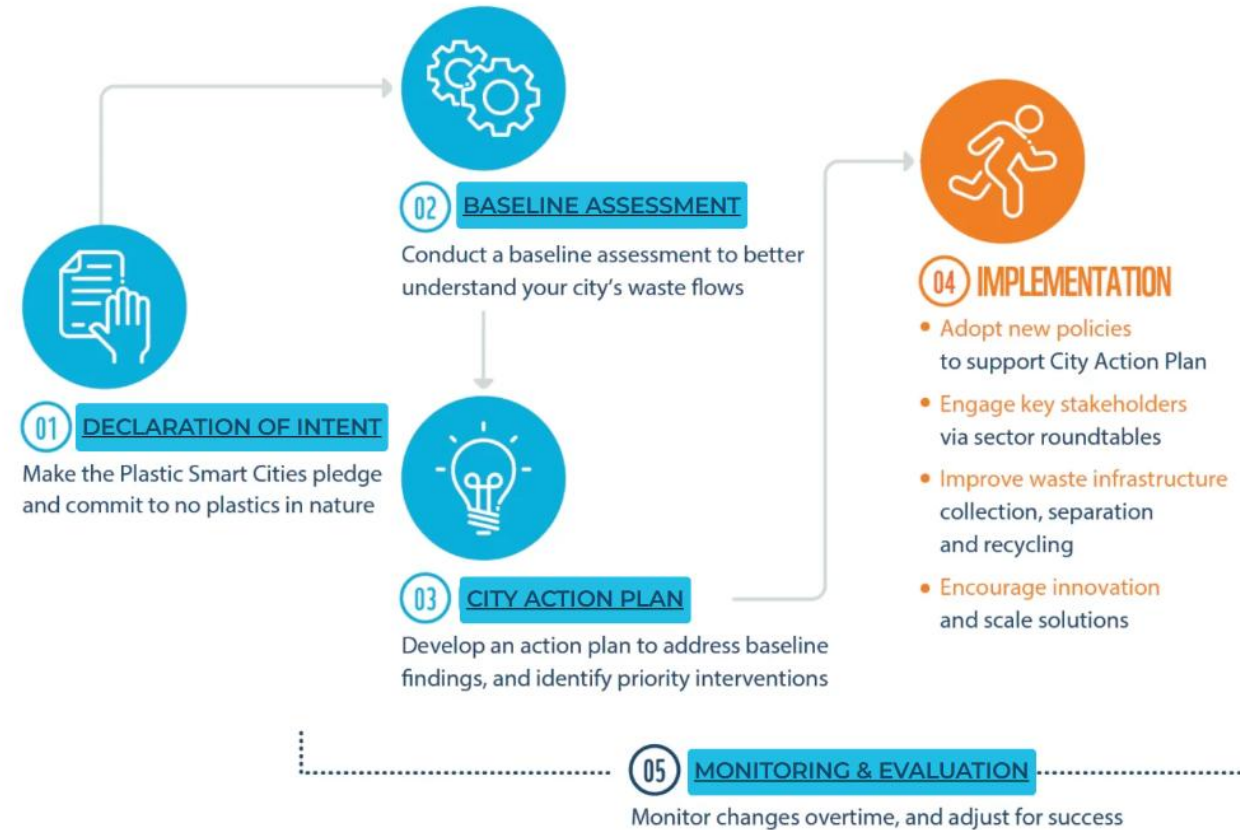
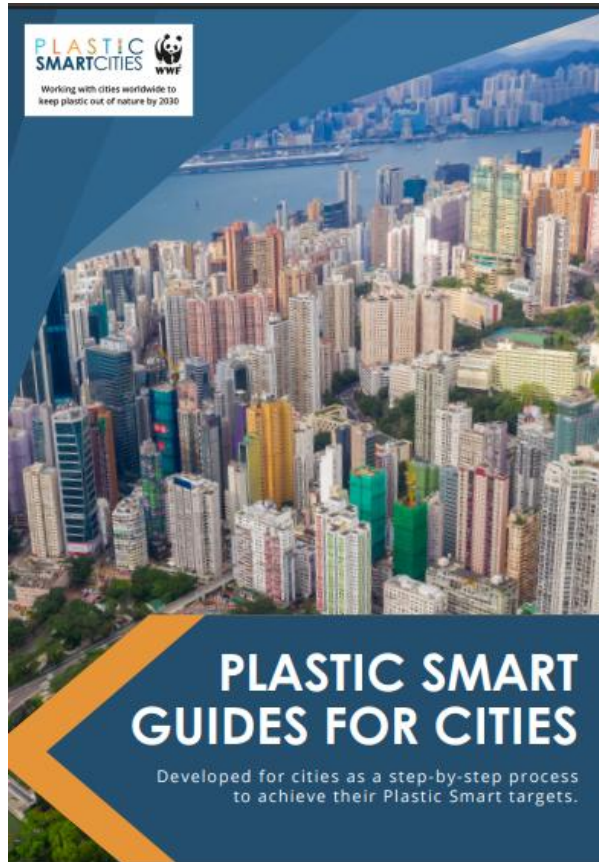
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Our Innovative Solution: Plastic Smart Guide for Cities: 5 Core Steps

PLASTIC
SMARTCITIES



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Value Proposition: Knowledge Resource

Behavioural Change



Sustainable Alternatives



Reuse and Refill



ACCESS ALL CASE STUDIES

Behavioural Change

Zero Waste Schools In Indonesia



Indonesia

READ CASE STUDY

Behavioural Change

Pak Meng School Cashes in on Waste



Thailand

READ CASE STUDY

Behavioural Change

Con Dao Schools Go Plastic-Free



Viet Nam

READ CASE STUDY

Behavioural Change

Plastic Waste Free Schools Model in Viet Nam



Viet Nam

READ CASE STUDY

Sustainable Alternatives

Thailand's Businesses Go Green



Thailand

Sustainable Alternatives

Hue Makes Tourism Sustainable



Viet Nam



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Value Proposition: Knowledge Resource

Local Policy and Regulation

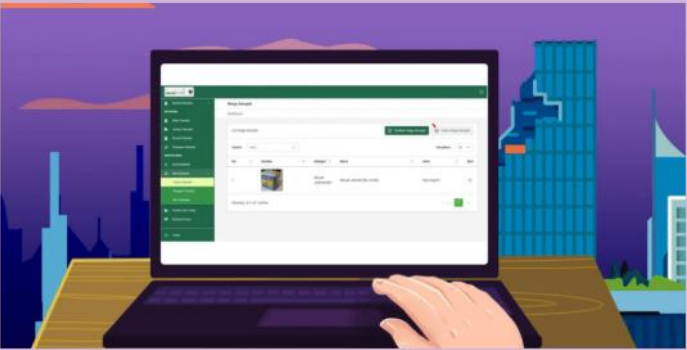


Sustainable Finance

Monitoring and Evaluation

Local Policy and Regulation

Indonesia Waste Banks Go Digital



Indonesia

READ CASE STUDY

Local Policy and Regulation

Addressing Plastic Leakage with Data in Cagayan de Oro



Philippines

READ CASE STUDY

Local Policy and Regulation

Improving the Financial Sustainability of Thailand's MRFs



Thailand

READ CASE STUDY



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5

Next Steps: What are you looking for?

PLASTIC
SMARTCITIES



- More cities to join the initiative
- More solutions for cities to increase our knowledge platform
- We are moving ahead with the Plastic Smart Ports Initiative





CONTACT US

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AKVO

Microfluidic Water Treatment System

Paris, France

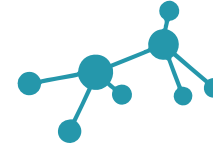


WASTEWATER TREATMENT

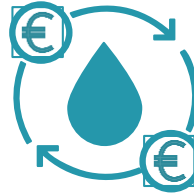
A current perspective



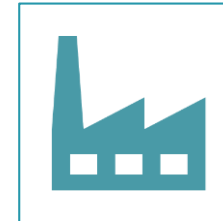
Energy Intensive



Ineffective Removal of
Micropollutants



High CAPEX & OPEX



Large Footprint & Integration
Challenges



Regulatory & environmental
sustainability demands



Environmental
Impact

WASTEWATER TREATMENT

AKVO VALUE PROPOSITION



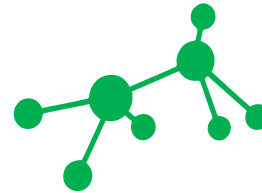
Miniaturization

Easy logistics & maintenance
No space limitation in urban area
700 m³ treated /m²



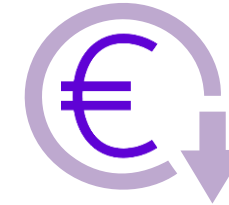
EcoFriendly

Energy savings
Low- carbon footprint & no toxic waste
Zero liquid discharge & water reuse



Treatment Efficiency

98% of 17,000 identified pollutants
Antibiotics, pesticides
endocrine disruptors & micropollutants



Cost reductions

Reduce CAPEX 10 to 50 times



Industrial Customization

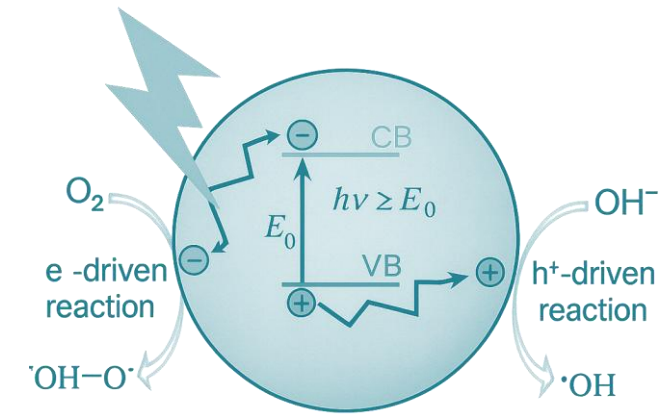
Scalable & adaptable
to volume and pollutants species



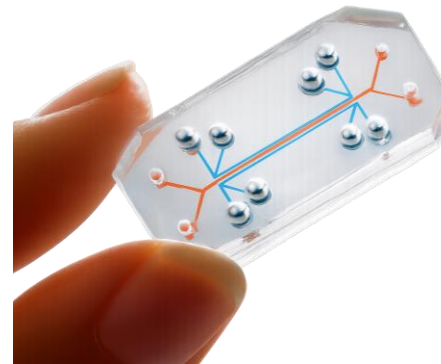
AKVO

WORKING PRINCIPLE

ADVANCED OXIDATION PROCESS



REACTOR ON A CHIP



- ✓ Safer & environmental friendly
- ✓ Faster reaction mechanisms
- ✓ Energy-driven by light source

- ✓ Laminar flow regime ($Re < 2000$)
- ✓ Large surface area to volume ratio
- ✓ Finer flow control

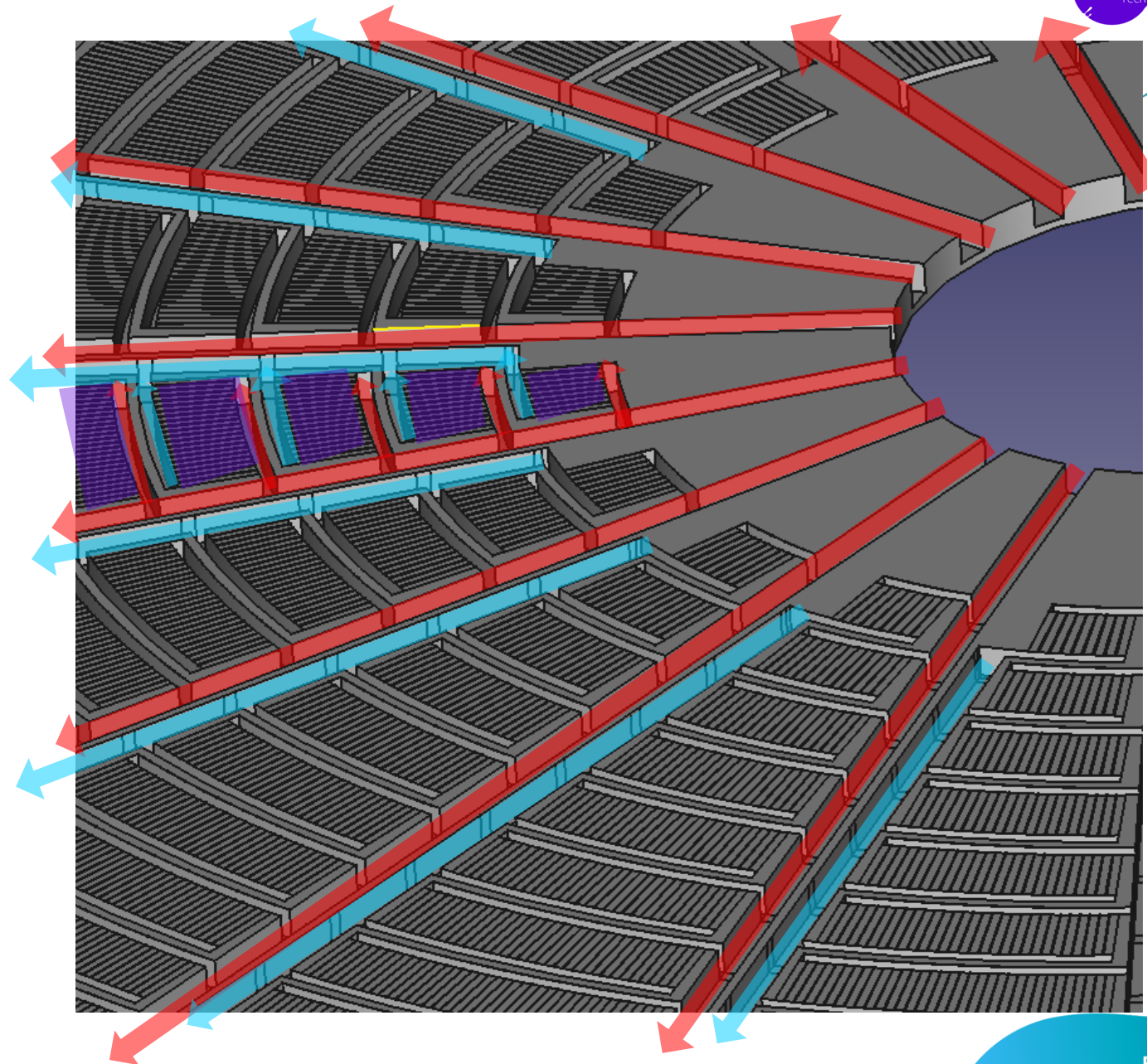
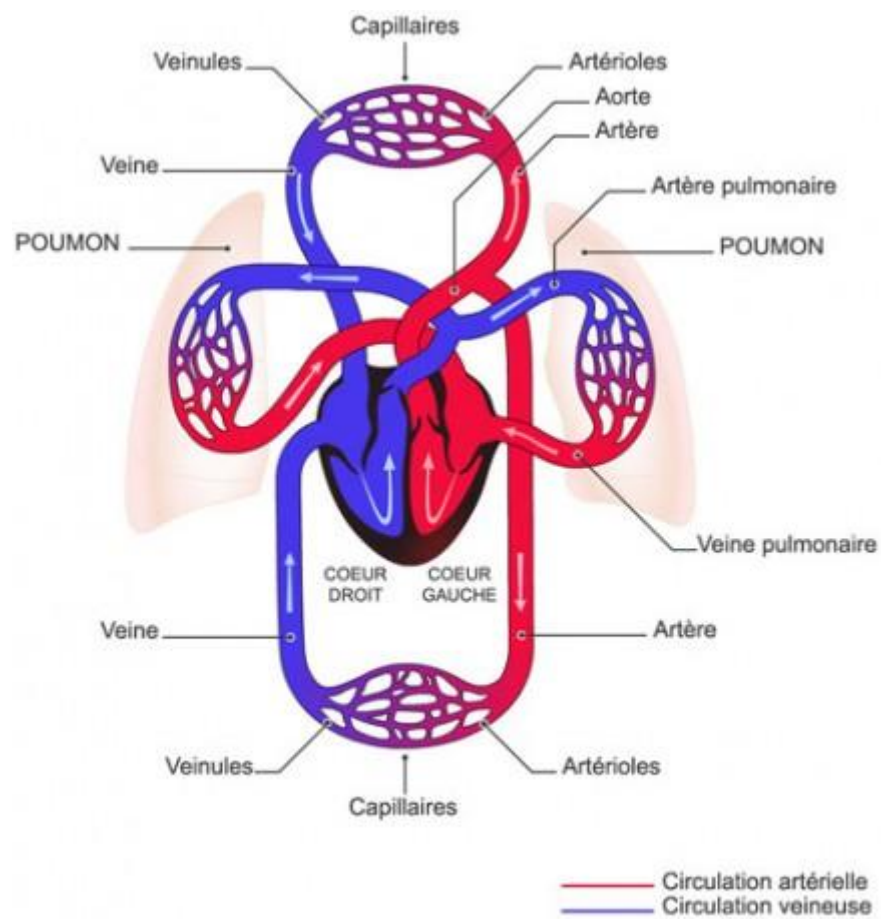


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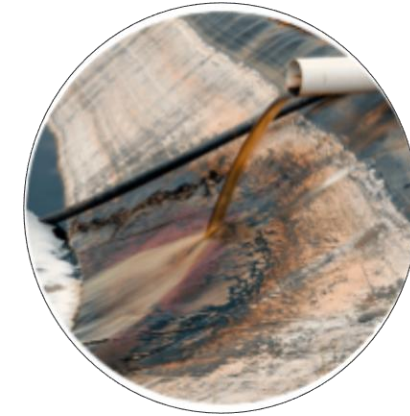
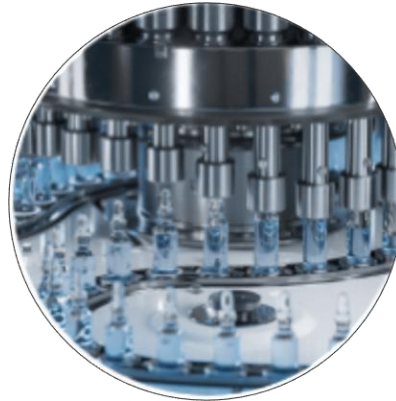
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AKVO DESIGN



CURRENT STATUS AND NEXT STEPS



OPALIA RECORDATI



Pharmaceutical Industry
06/2025-12/2025
📍 Kalaat Al Andalouss,
Tunisia



εσδακ
ενιαίος
σύνδεσμος
διαχείρισης
απορριμμάτων
Κρήτης



Leachate Treatment Plant
01/2026-06/2026
📍 Crete,
Greece



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CURRENT STATUS AND NEXT STEPS



- Energy reduction $<20 \text{ kWh/m}^3$ with expanded throughput (10–40–200 m^3/day).
- Expand treatment capability to include PFAS and other emerging contaminants.
- Conduct beta validation with leading industry partners (Veolia, Suez etc)

EDEN TECH TEAM



Emmanuel Roy, PhD
CEO



Jean-Baptiste Blondé, PhD
CTO



Minh Trang Nguyen, PhD
PI AKVO



Abhilash Venkateshaiah, PhD
Project Manager



Alexis Filliatre,
CFO



Joseph Levermore, PhD
Optical & AI architect

SCIENTIFIC BOARD



François Galgani, PhD

Top 3 Worldwide
Director oceanographer
Co-Leader EU Ocean Mission
Global research programs



Jean-Marc Choubert,
PhD

Research Director
Wastewater Treatment
Water ReUse
Eng. Water Facilities



Guillaume
Pezzali

Business Lawyer
Business Strategy
Contracts & Regulations
M & A, Due Diligence



Laurent Viviani

Director
Water Public Affairs
Env. Regulation
Business Strategy & Financing



Pierre Erwes

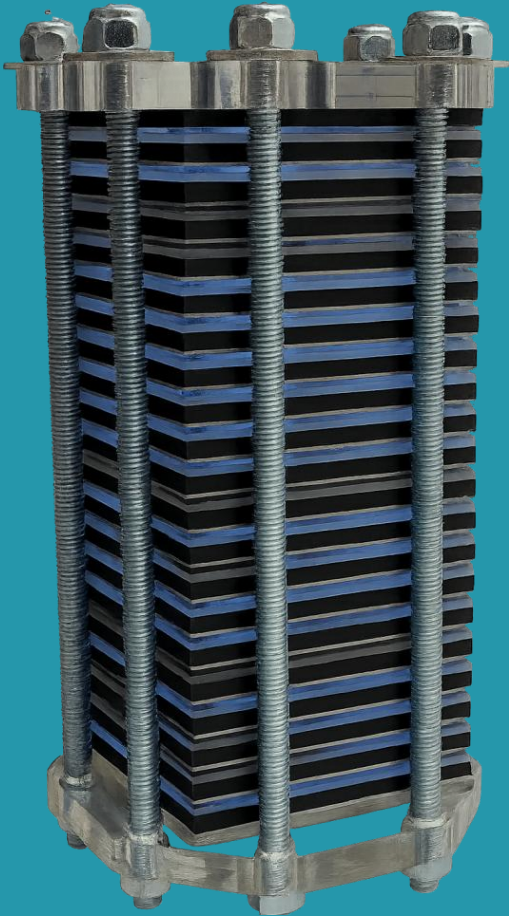
Blue economy Leader,
Founder Biomarine
(6,500 professionals)
Communication & Marketing



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AKVO

CONTACT US

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Problem to be solved in a NUTSHELL



The Mediterranean Sea is facing a serious plastic pollution crisis:

- Every year an estimated 57 million tons of plastic litter enter its waters
- Equivalent to dumping 33,800 plastic bottles every minute.

TRESOILPower2X Waste to Energy Complex



A Sea in Peril: Our Fight Against Plastic Pollution in the Mediterranean



Roger Preston Romania

Experienced Team
engineers, scientist,
finance, technicians,
waste management
& energy production
specialists



Krasimir Trufev Bulgaria



WASTE
ELIMINATION



LANDFILL
DIVERSION



ENERGY
RECOVERY



ENERGY
CONVERSION

A way to kill two birds with one stone (Plastic Waste Eradication and Hydrogen)

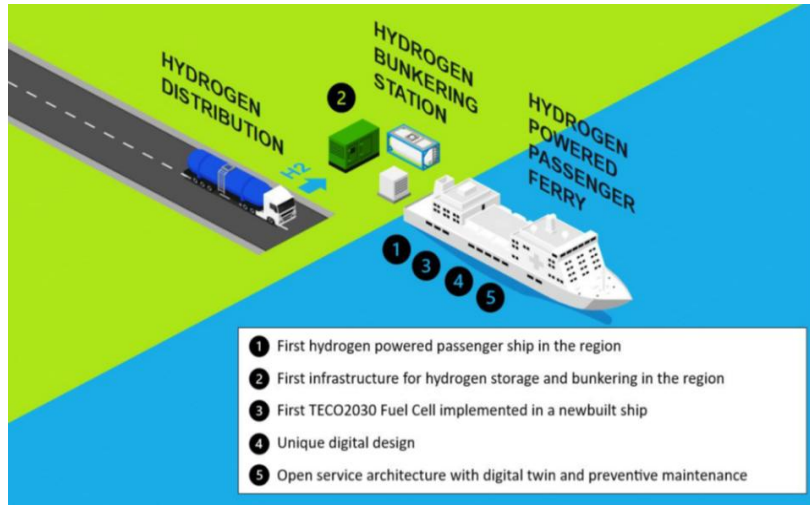


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Business Model & 2 Stage Implementation



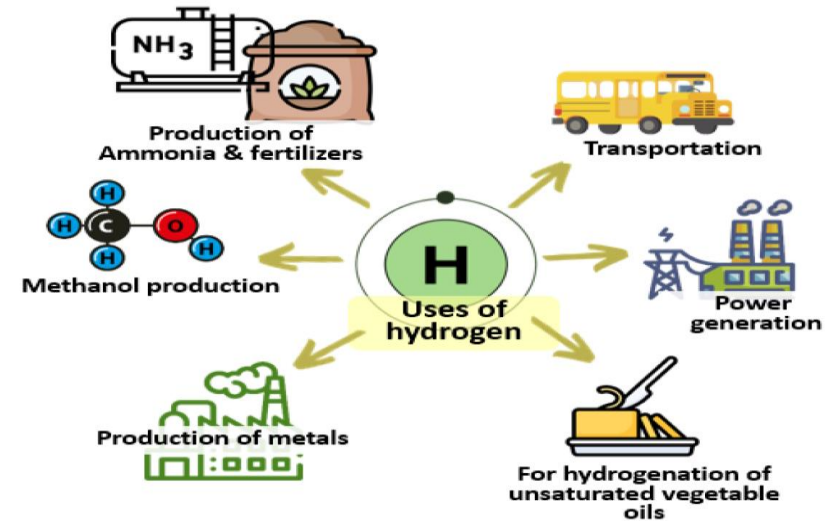
Ports, Ships & Islands

B2B & B2G Revenue Streams:

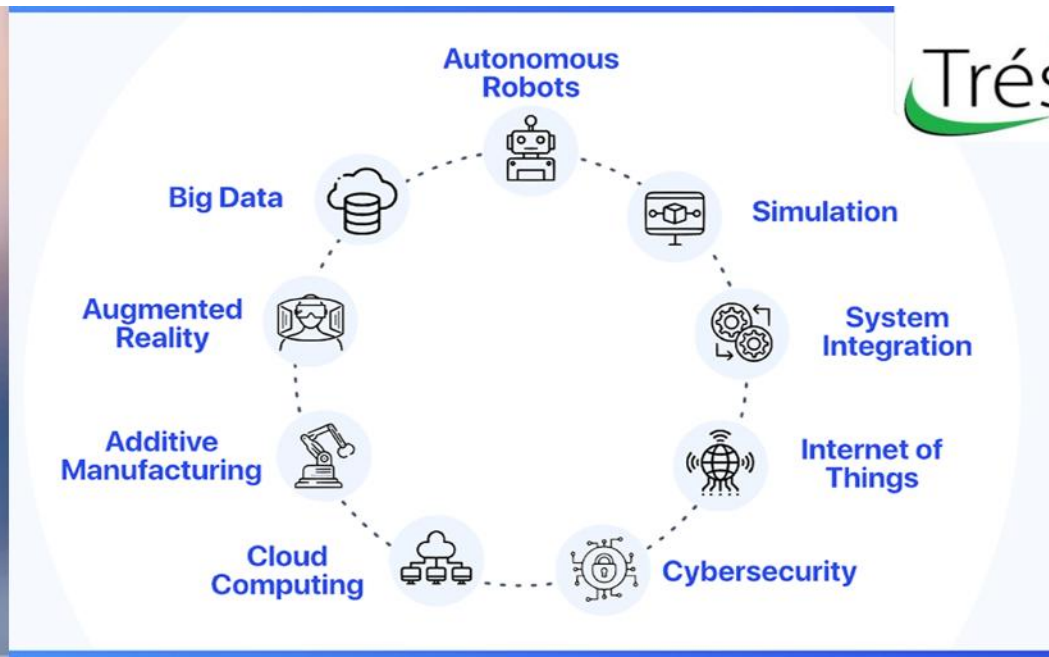
- Energy (Electricity/Hydrogen/Ammonia/SAF)
- Carbon Black (Tires/Graphite/Graphene)
- Carbon credits (Tradable) @ EUR 80 M/T CO₂
- Digital Twin software to new clients@ 1m+EUR

I. TRESOILPower2X Digital Twin Virtual Model; for precise integrated simulation, optimization before physical construction predicting operational performance before deployment.

II. Build TRESOILPower2X physical energy production units: pre-assembled, pre-engineered containerized complex



Markets & Sales



TRESOILPower2X Digital Twin Value Proposition

Cutting-edge Approach Virtual Waste to Green Energy Business Model Prior to Construction
Replicated Throughout Europe and Globally

REBEL DOT AI

Our DT Partner

- Increases the productivity by as much as 20%
- Reduces the cost of installation by up to 20%
- Reduces stocks by up to 60%
- Reduces manufacturing time by up to 60%
- Monitors GHG (Co2, Methane etc..) environmental impact
- Monitors production performance and safety



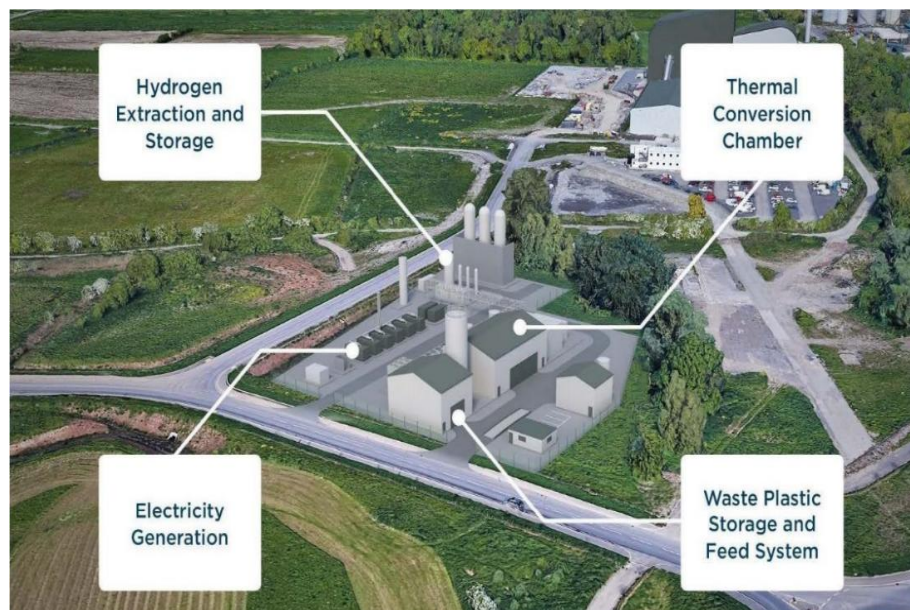
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TRESOILPower2X Waste to Energy (factory built)

“Containerized Format” Scalable, Replicable In All EU Countries (small footprint & environmental impact)
New Innovative Modular, Distributed, Pre-fabricated Complex:



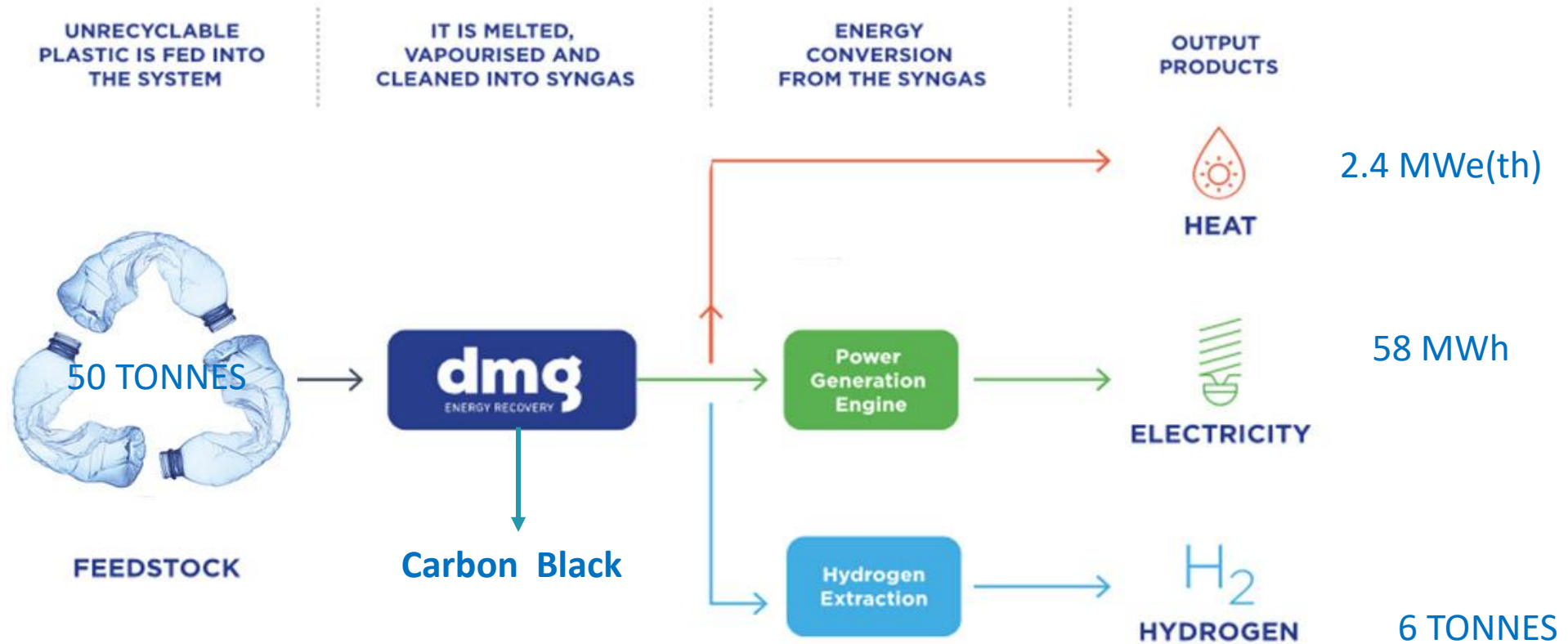
The Small-scale project supports these six EU goals:

- Mitigating or adapting to climate change
- Protecting water and marine ecosystems
- Advancing the circular economy
- Preventing and controlling pollution
- Safeguarding biodiversity
- Air Pollution Mitigation

TRESOILPower2X Innovative waste-to-energy solutions converts plastic into hydrogen, ammonia and stand-alone electricity.

- Contributing to CO2 EU targets
- Made in Europe produced energy
- Reducing CO2 & GHG from landfills and oceans

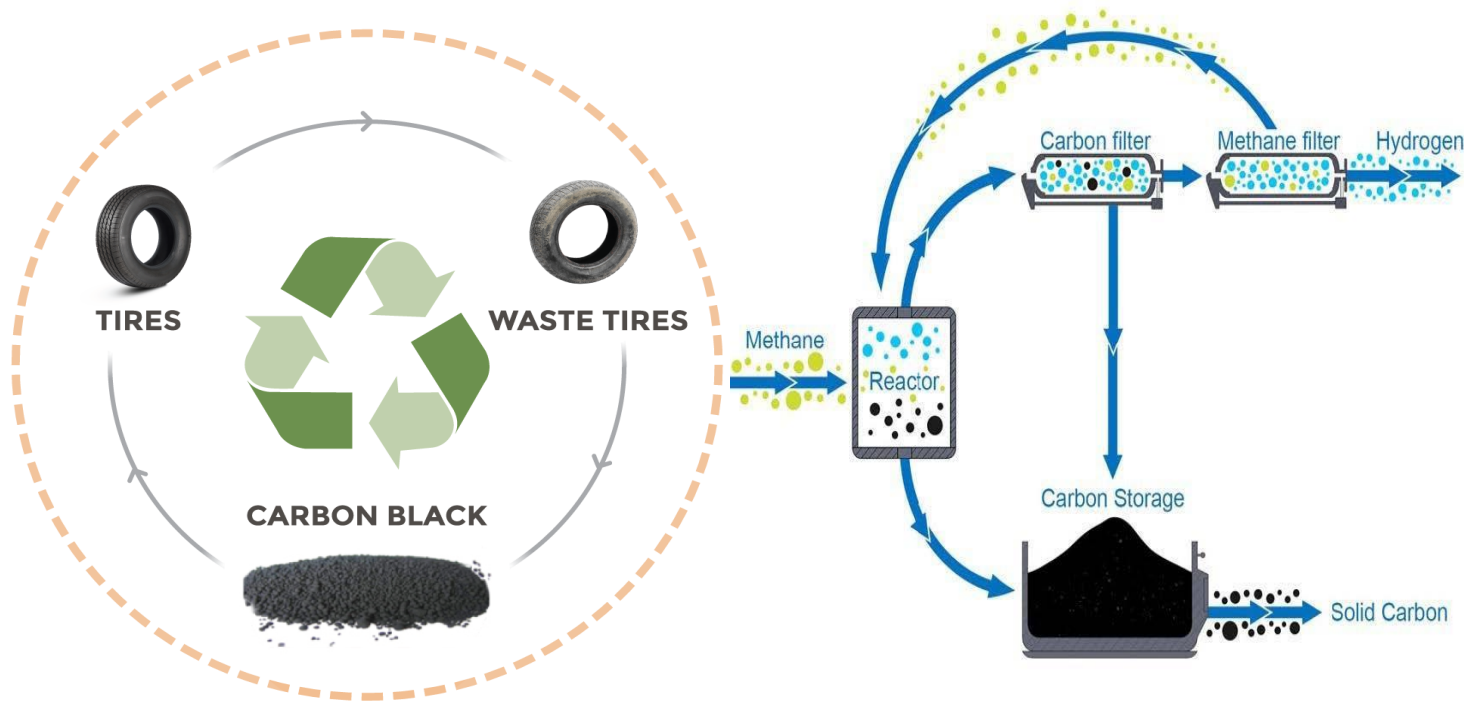
Innovative Transformative Solution to Pollution



TRESOILPower2X: Local Waste Disposal....For Local Energy Needs
Turning Trash Into Treasure



New Innovative Material



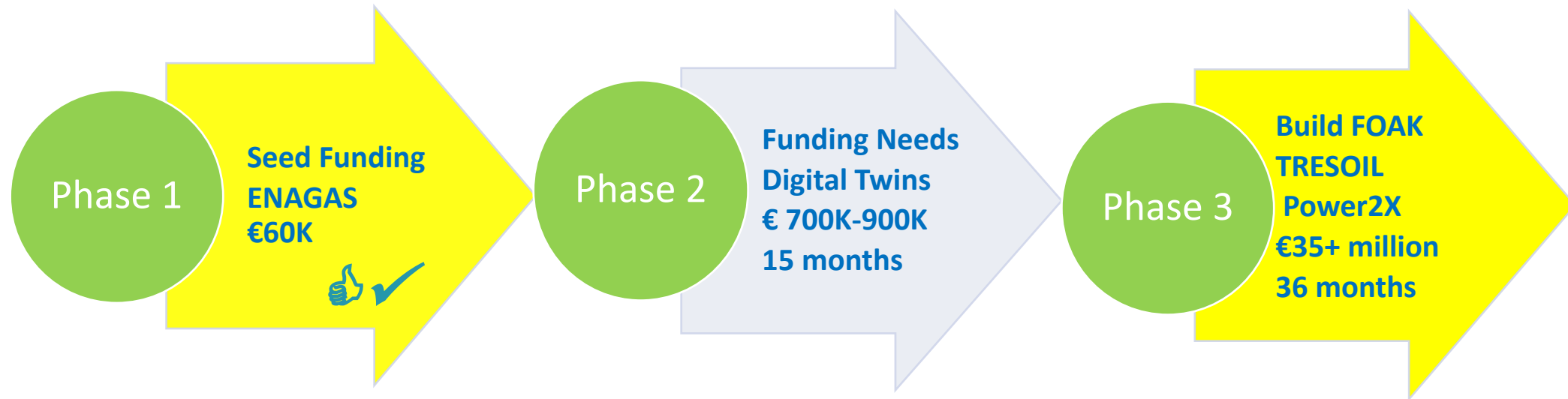
Off-Take B2B



TRESOILPower2X technology produces hydrogen (H₂) and CO₂ carbon (C); into carbon black from captured CO₂ into solid carbon and graphene “Called the Miracle Material”

TRESOILPower2X 'WASTE to ENERGY'

Roger Preston



Financial Needs Phase 2: for Digital Twin, feasibility, licences, permits (Environmental, Safety etc..)

Tresoil Biofuels SRL

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BlueMissionMed Support Programme



Coastal Marine Litter
Observatory

Scidrones
Greece

Problem Statement

> 150 million tonnes of plastics exist in the oceans.

80% of floating plastic ends up on coastlines.



Environmental

Impact
plastic ingested
by **90%** of
seabirds.



Economic Impact

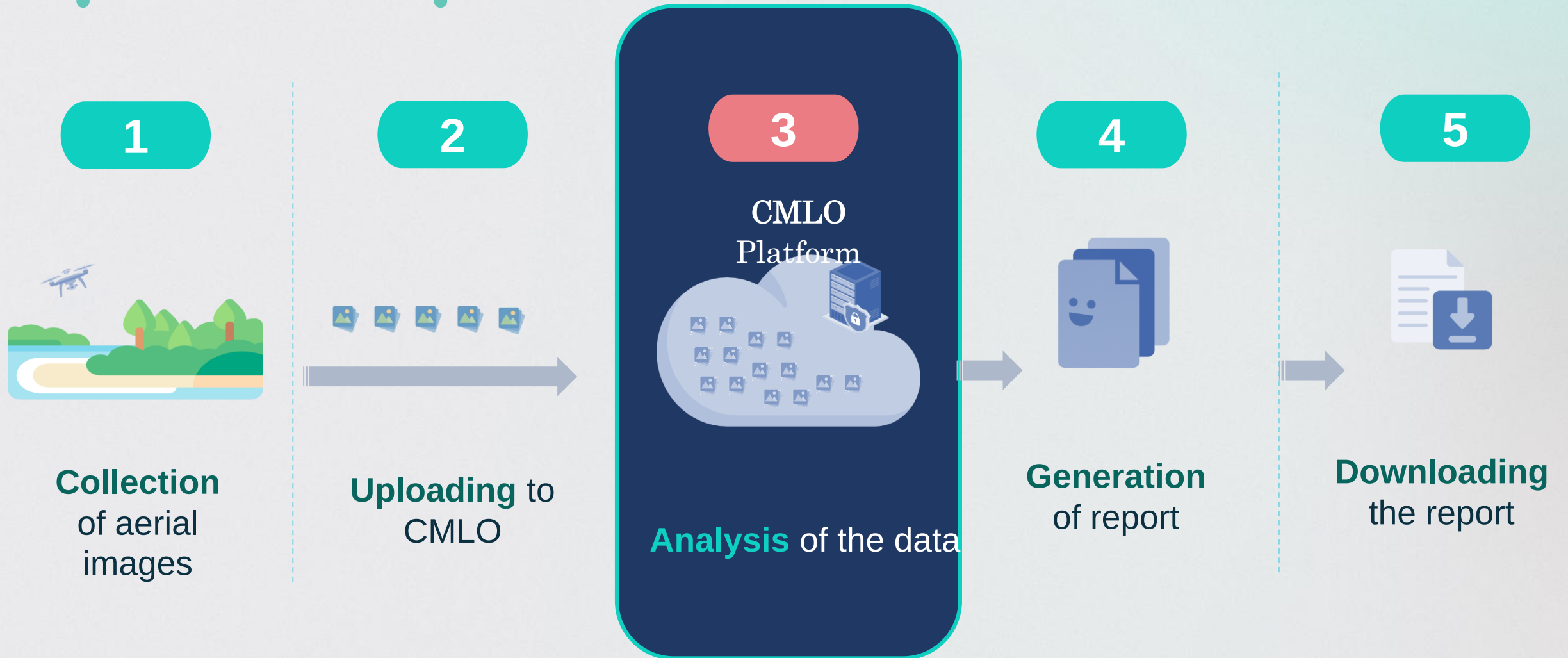
**> \$19,1
billion** damage



Regulatory Compliance

> 54 k. microplastics
consumed annually per **person**.
> 1 million people are dying
yearly.

The Process



Product features



Explore Litter Density Map

An **interactive map** identifying high-litter areas, aiming targeted cleanup efforts.



Highlight Litter Areas

Identifies and highlights litter-prone areas on the map, providing clear and actionable insights.



Spot Litter Locations

Points out the exact spots where litter is located on the map.



CMLO

- CMLO revolutionizes coastal monitoring with lower costs, unmatched speed, and exceptional accuracy
-



10x Cheaper



225x Faster



> 90%

Accuracy

vs.



Conventional
Methods

Pricing Plan

Basic

Perfect for getting started with essential litter mapping tools.

350 €

Per Km

Premium

Designed for those who need advanced analysis.

500 €

- ✓ Drone Data Acquisition Service
- ✓ Access to CMLO platform
- ✓ View a simple map showing litter density.
- ✓ See litter counts in specific areas.
- ✓ Generate easy-to-read reports summarizing key insights.
- ✓ Access low-resolution aerial images to observe general patterns.
- ✓ Pinpoint litter locations on the map.

- ✓ **Includes all features from the Basic Plan.**
- ✓ Highlight areas on the map where litter is found.
- ✓ Access high-resolution images for a closer look at litter.
- ✓ Measure the size of litter-covered areas (m²).
- ✓ Adjust detection accuracy with confidence level settings.
- ✓ Download detailed litter density maps for further use.
- ✓ Export litter location files for sharing or analysis.
- ✓ Track litter trends over time with time-series analysis tools.

CMLO today



5 Continents

18 Countries

1600 Misions

360 km coastline

2.6 millions Identified
Litters



Founders



**Dr. Konstantinos
Topouzelis**

Co-Founder & CEO
world expert in marine
litter



**Dr. Apostolos
Papakonstantinou**

Co-Founder & CTO
expert in GIS



**Mr. Argyris
Moustakas**

Co-Founder &
Head of Operations



**Ms. Evita
Laspa**

Co-Founder & expert in
coastal management



**Mr. Panagiotis
Palaialogos**

Finance Manager &
Accountant



**Dr. Vassilis
Kopsacheilis**

IT Manager &
Software Developer



**Mr. Nikos
Zotas**

**Business Development
& Market Strategy**

Core Team

Awards

1st Prize



1st Prize



Recognized as



2025 GEO



1st Prize



1st Prize



Accelerators



Core Partnerships





CONTACT US

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&

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