



# E.C.E.X.A. Mobile Unit for Accidental Oil Spill



# Accidental oil spill E.C.E.X.A. response

Mobil cleaning of oil spill in Athens



Devastation of the Balikpapan beach



Per year 6,6 spills. 7,000 t oil spill from tank vessels in 2017, *Oil tanker statistics*

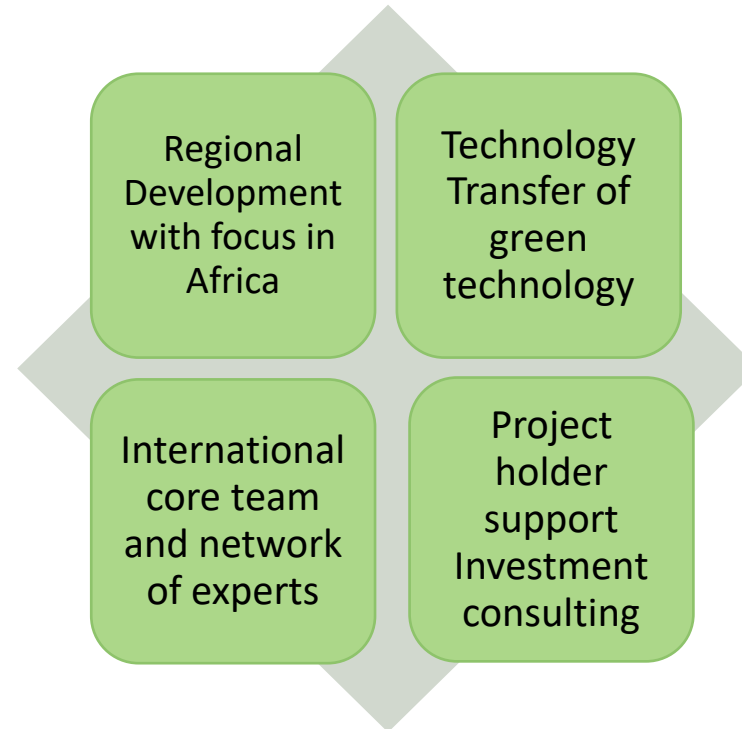
# E.C.E.X.A. mobil unit cleans a harbour



The oil skimmer floats on the surface of the water, skims the oil and returns clean water to the sea.

**Quick, safe and efficient solution for oil water separation**

# E.C.E.X.A. – who we are



We plan sustainable and economically sound solutions  
for the protection of **green environment**

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# E.C.E.X.A. Mobile Unit for Accidental Oil Spill

**Example systems for bays and harbours**

**Functionality**

**Application area**

**Target groups /clients**

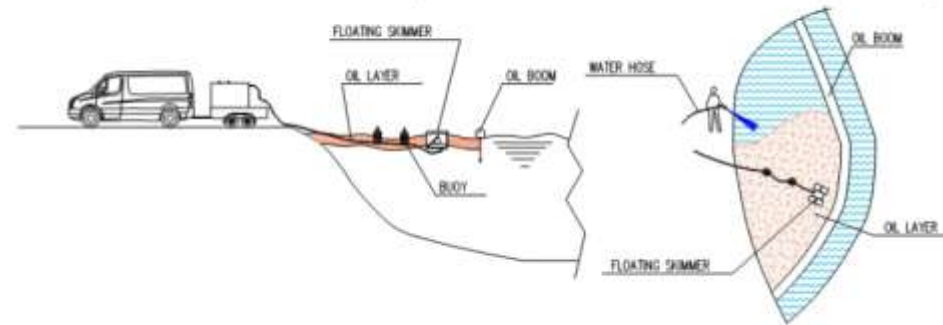
**Cost benefit - features**

# Example system: Mobil unit for Athen harbour

Athens: Mobil cleaning of oil spill installed by Hellenic navy, 2017  
The unit can be mounted on trailers, trucks, boats or ships



OIL SPILL REMEDIATION ON WATER (Retention Ponds; Lakes; Rivers; Oceans;...)



**Within 2 hours** the oil spill was combatted and clean water repositied to the sea.

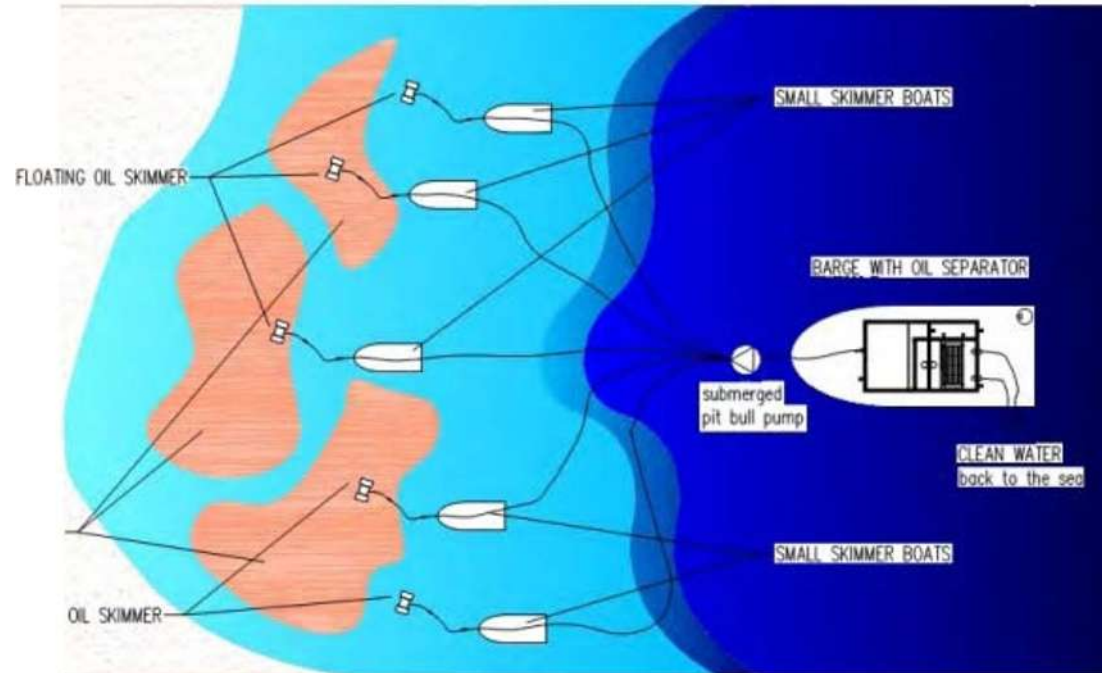


# Example system: 5 boats in shallow water

5 small boats and a barge or larger boat is required.

The pump sucks oil layers from the surface of the water through 5 skimmers on the barge. (on each boat one person has to handle the skimmer)

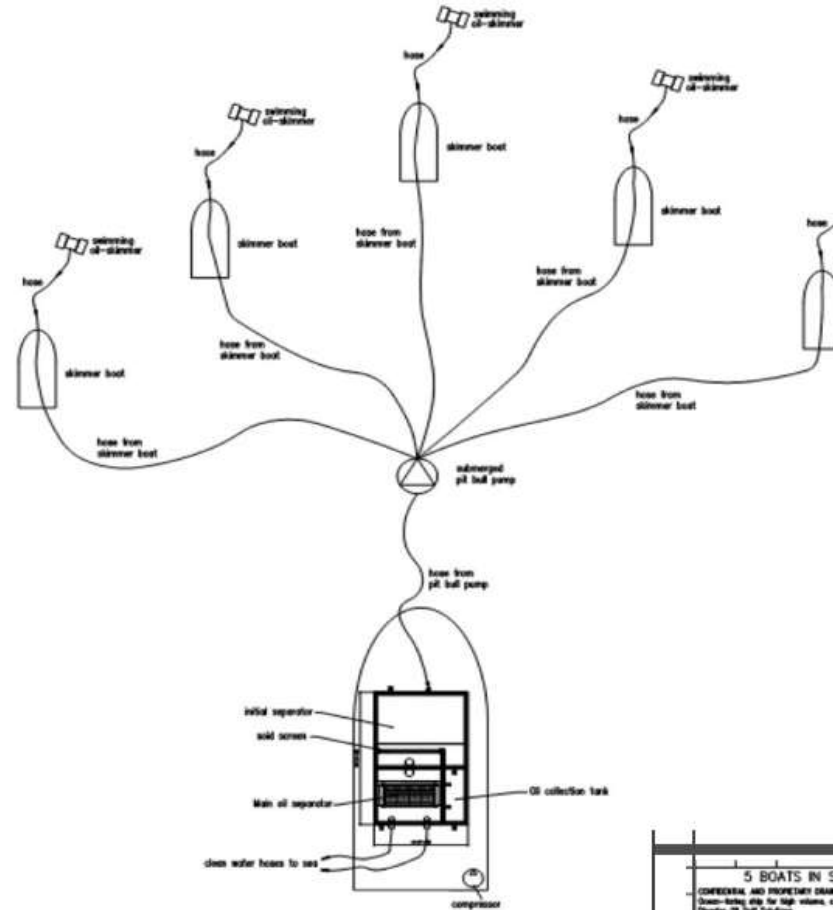
Flow rate 90-300l/min



With this system **beaches** and **bays** can be cleaned from oil spills.

# 5 boats in shallow water

The main system (including tank, CPI, 2 screens, flap valve pump, compressor/power generator) is on the barge



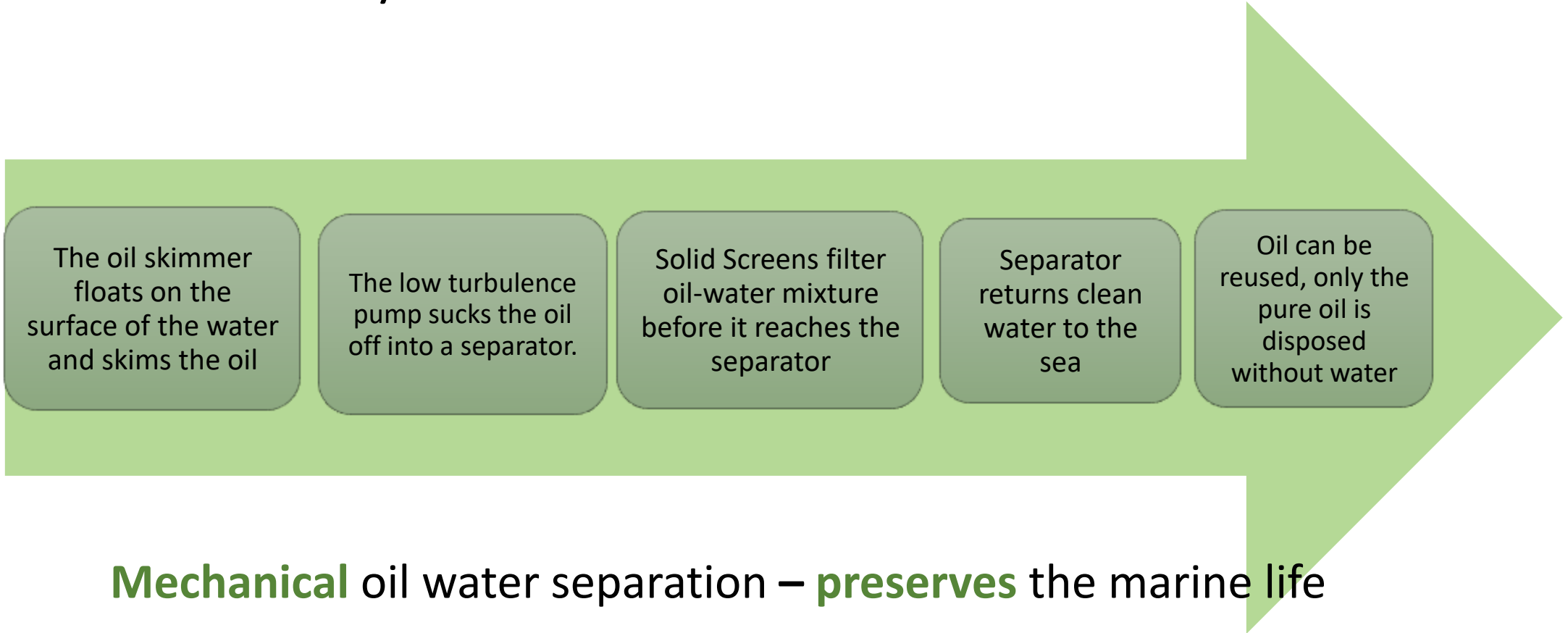
At a certain level of oil in the CPI an operator on the barge opens the oil drain valves by hand to discharge the pure oil from the surface in the CPI into the oil collection tank while water is automatically running back to the sea.

5 BOATS IN SHALLOW WATER	
CONCRETE AND STEELWORK DRAWING	Drawing no. OS LBB system
Drawn by: [blank]	Scale: [blank]
Checked by: [blank]	Date: [blank]

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# Functionality



**Mechanical** oil water separation – **preserves** the marine life

# Application area

in harbours  
on beaches

rivers and  
lakes

ground-  
water

seas and  
oceans

**Easy transportable and applicable solution for oil water separation**

# Target groups

Carriers, pipeline companies, off-shore drilling companies, refineries

Civil protection, coast guards, fire brigades, marine, environmental protection organisations, insurances

Governments, international organisations

# Cost and Benefit

Designed for **quick response** - at place for fire brigades or civil protection

**Short working time** and operating time, it works automatic and is easy transportable and mountable

**Cleaned water meets pollution control standards** – 97 % level

**Customizable** system design

**Practice-tested technique** - already applied at 800 oil accidents

**Meets strictest worldwide standard** B5101 and EU standard EN858  
Certified remediation technique

**Long life cycle** (20 years)

Cost: Rent from approx.  
€ 2,000/day for one suction  
vehicle

**Cost benefit** for this unit is rated based on its benefit for the environment

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