



# Launch of the Marine Sand Watch: MONITORING MARINE SAND EXTRACTION

6 SEPTEMBER 2023 | 14:00 - 15:30 CEST | CIGG & ONLINE



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6 SEPT 23 | 14:00 - 15:30 CEST  
CICG & ONLINE | WEBEX

>>> [tiny.cc/GEN6Sep23Sand](https://tiny.cc/GEN6Sep23Sand)

## SPEAKERS

By order of intervention.



**Elisa TONDA**

Chief, Resources and Markets Branch, UN Environment Programme



**Laura PLATCHKOV**

National Focal Point (UNEA5/12), Federal Office for the Environment, Switzerland



**Arnaud VANDER VELPEN**

Sand industry & Data Analytics Officer, UNEP/GRID-Geneva



**Pascal PEDUZZI**

Director, UNEP/GRID-Geneva



**Vera VAN LANCKER**

Marine Geologist, Royal Belgian Institute of Natural Sciences

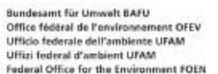
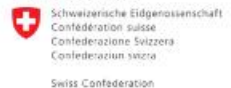


**Stephanie CHUAH**

Programme Officer, UNEP/GRID-Geneva | Moderator



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### Presentation of the Marine Sand Watch

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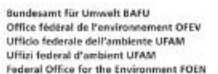
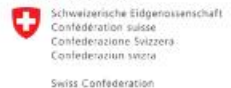
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### Q&A

### Closing



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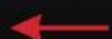


## Technical Information

- Throughout the event, you may raise your questions in the Q&A box
- Automatically translated subtitles in many languages are available through the captions button on the bottom left of your screen
- The recording, summary and documents will be made available on the event's website

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**ENGLISH CAPTIONS CAN BE  
ACTIVATED BY CLICKING ON THE  
BOTTON ON THE LEFT-SIDE OF THE  
BOTTOM BAR ON THE SCREEN**



Mute

Stop video

Share

Record



Apps



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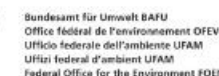
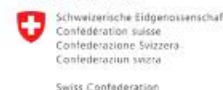
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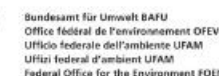
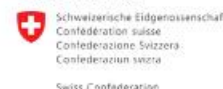
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# OPENING

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## Elisa TONDA

Chief, Resources and Markets Branch,  
UN Environment Programme



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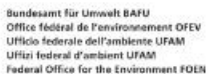
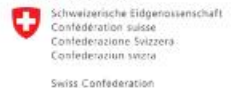
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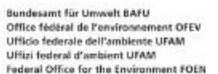
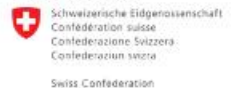
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# PRESENTATION OF THE MARINE SAND WATCH

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**Pascal PEDUZZI**

Director, UNEP/GRID-Geneva

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# MARINE SAND WATCH

## Making the invisible visible

the world's first public data platform that tracks and monitors sand dredging activities in the marine environment world-wide.

UN  
environment  
programme

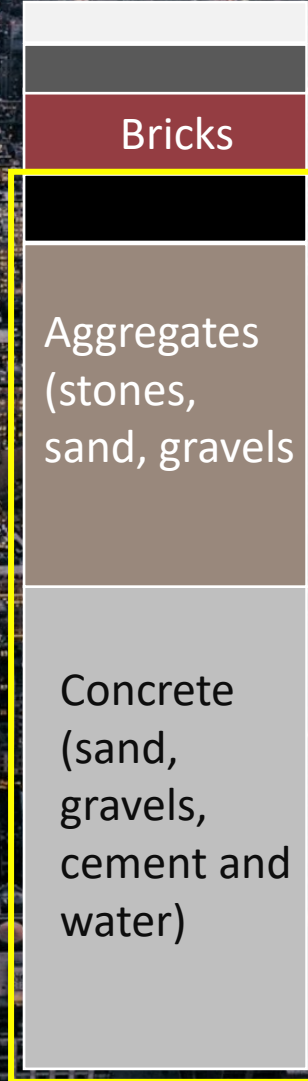
GRID  
Geneva

In 2020, the weight of man-made building material, exceeded global living biomass

1120 Gt

Dry biomass

1154 Gt



Glass, plastics  
Metals

Asphalt (bituminous,  
sandstones, sand and rocks)

The vast majority is  
made of sand and  
gravels

Concrete  
(sand,  
gravels,  
cement and  
water)

**Global human-made mass exceeds all living biomass**  
Elhacham, E., Ben-Uri, L., Grozovski, J., Bar-On, Y. M., & Milo, R. (2020). Global human-made mass exceeds all living biomass. *Nature*, 588(7838), 442-444  
<https://www.nature.com/articles/s41586-020-3010-5?s=09>



# Roads



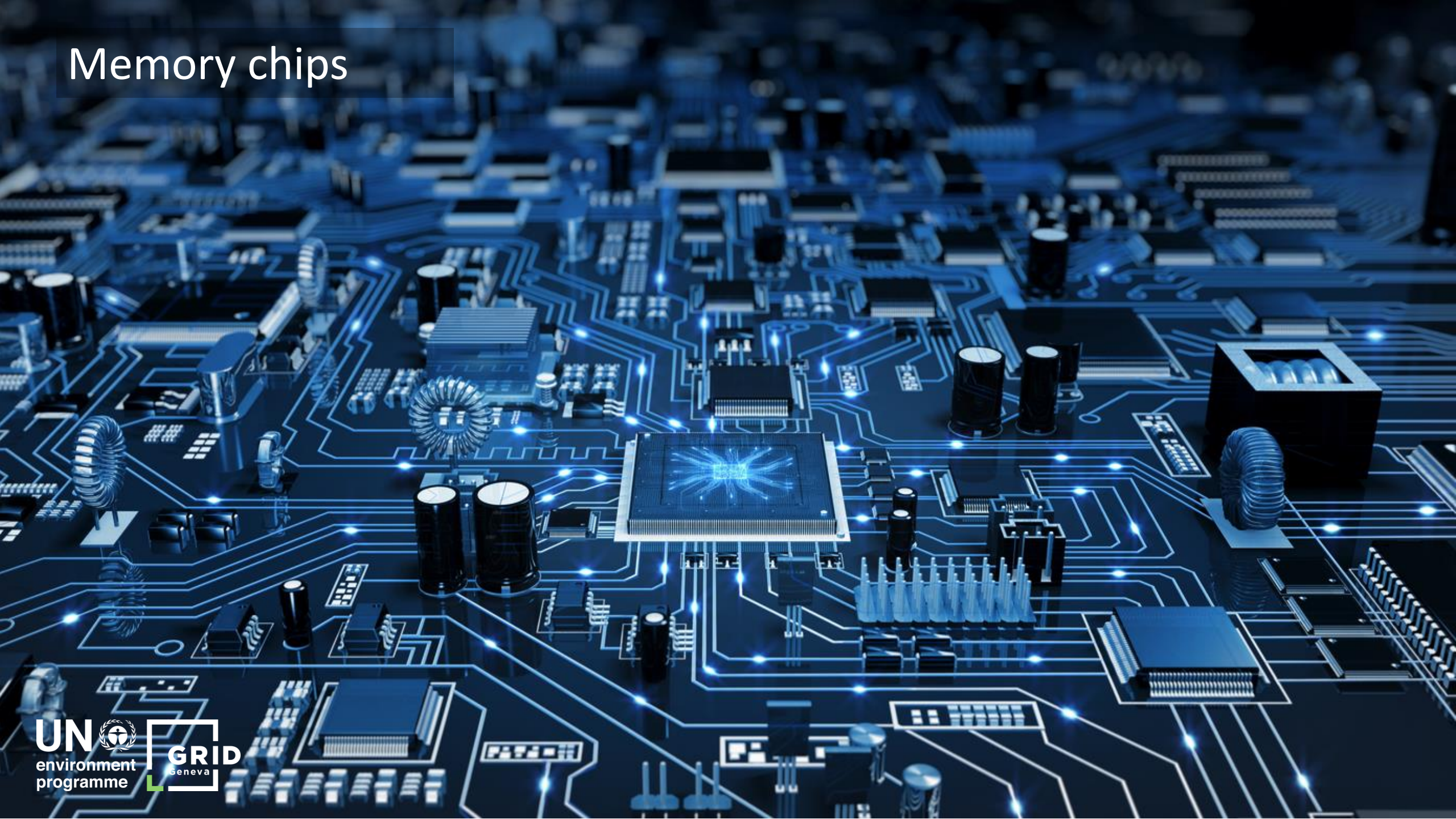
Buildings for houses, offices,  
schools, hospitals

Infrastructures: dams, bridges, tunnels, dikes, airports, harbours, wind turbines, solar pannels



Glass for windows,  
bottles,...

# Memory chips



# Land reclamation



Sand is a necessary for the environment





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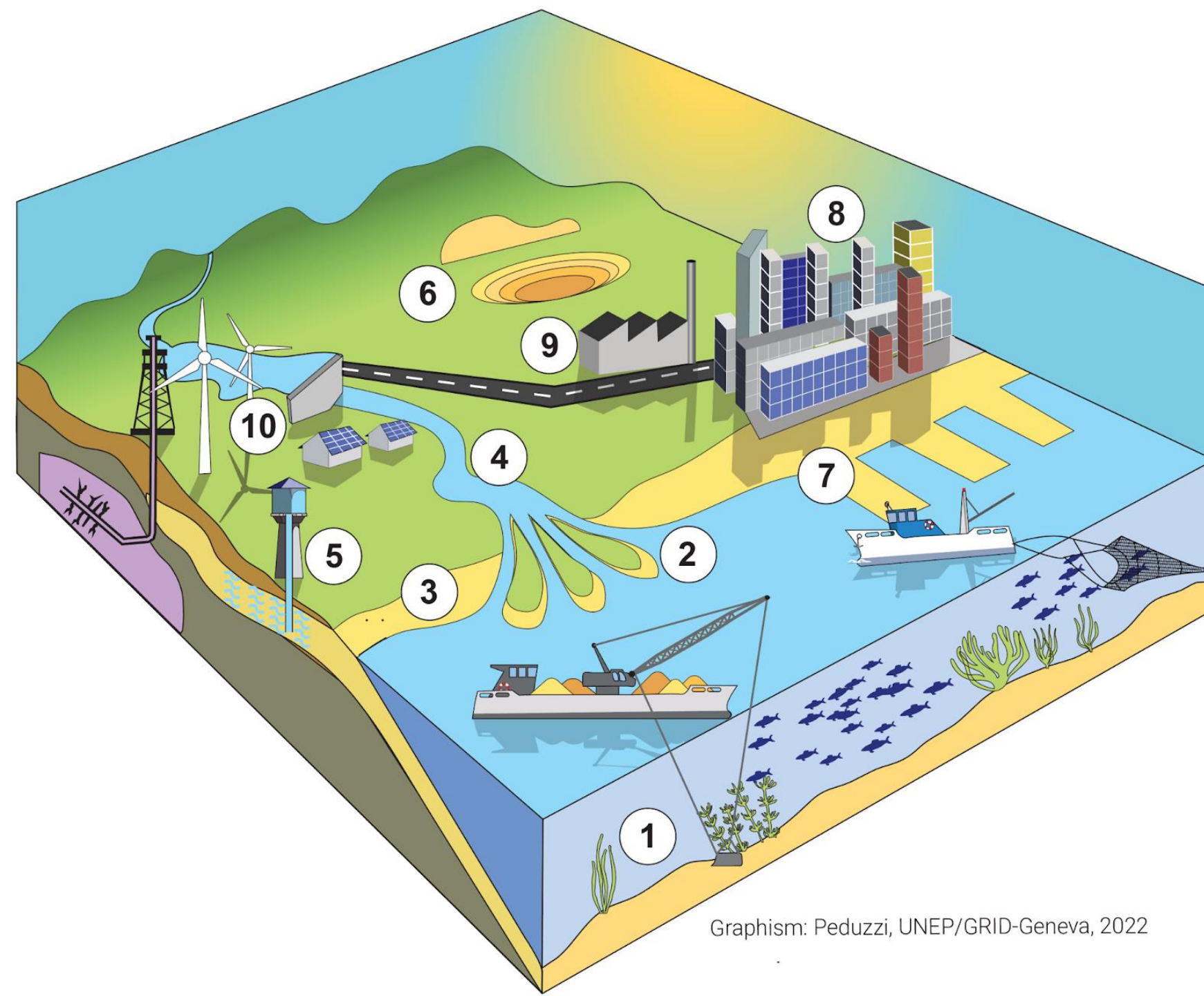
## Environment

1. Marine
2. Deltas
3. Beach
4. River
5. Subsurface

---

## Infrastructures

6. Land use
7. Coastal use
8. Urban infrastructures
9. Industrial use
10. Energy



Graphism: Peduzzi, UNEP/GRID-Geneva, 2022

Humans are extracting 50 billion tons of sand and gravels per year...



... amongst them, 4-8 billion tons of sediments are extracted or moved in the marine environment





Sand can be extracted from **static areas**, such as quarries...

... or by crunching rocks



It can be extracted from  
**dynamic areas** such as beaches.

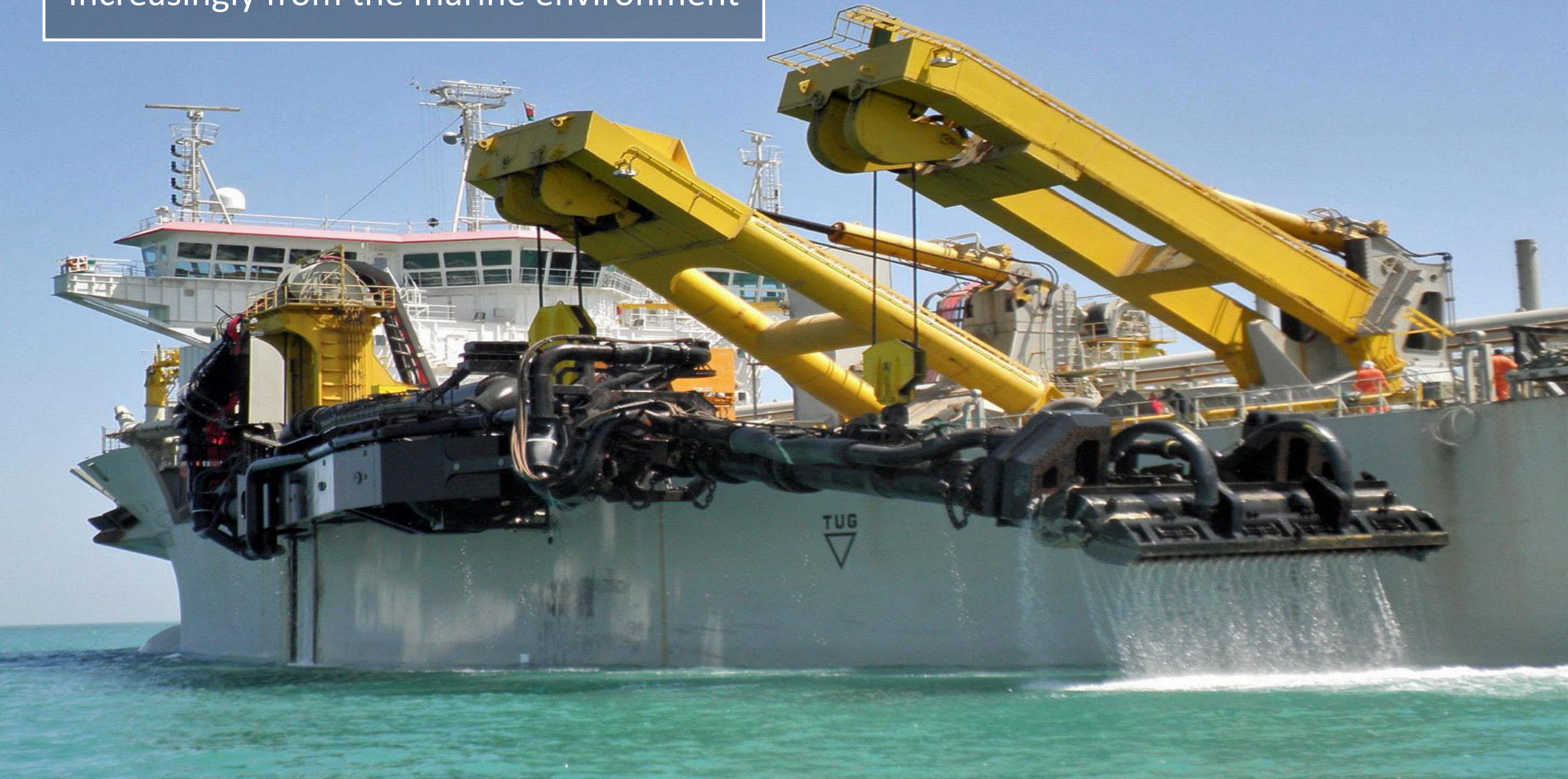


Or from rivers





Increasingly from the marine environment

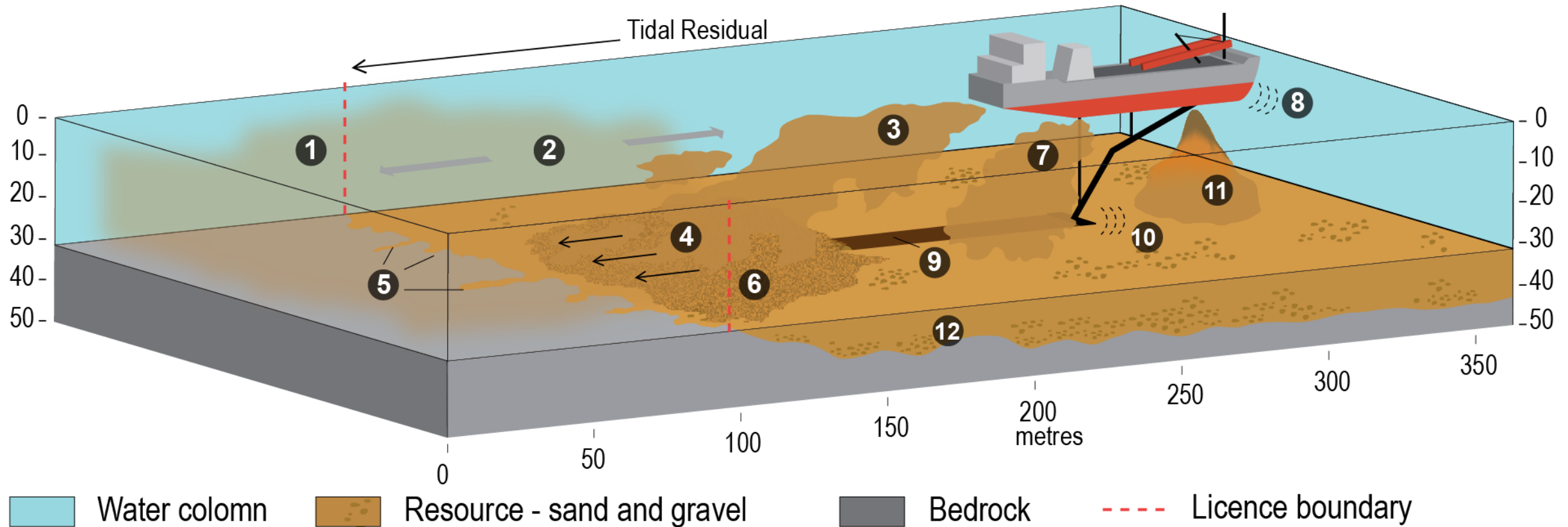


# Direct and indirect impacts

1. Increased turbidity
2. Far field changes in tides and currents
3. 'Passive' sediment plume
4. Plume dispersal

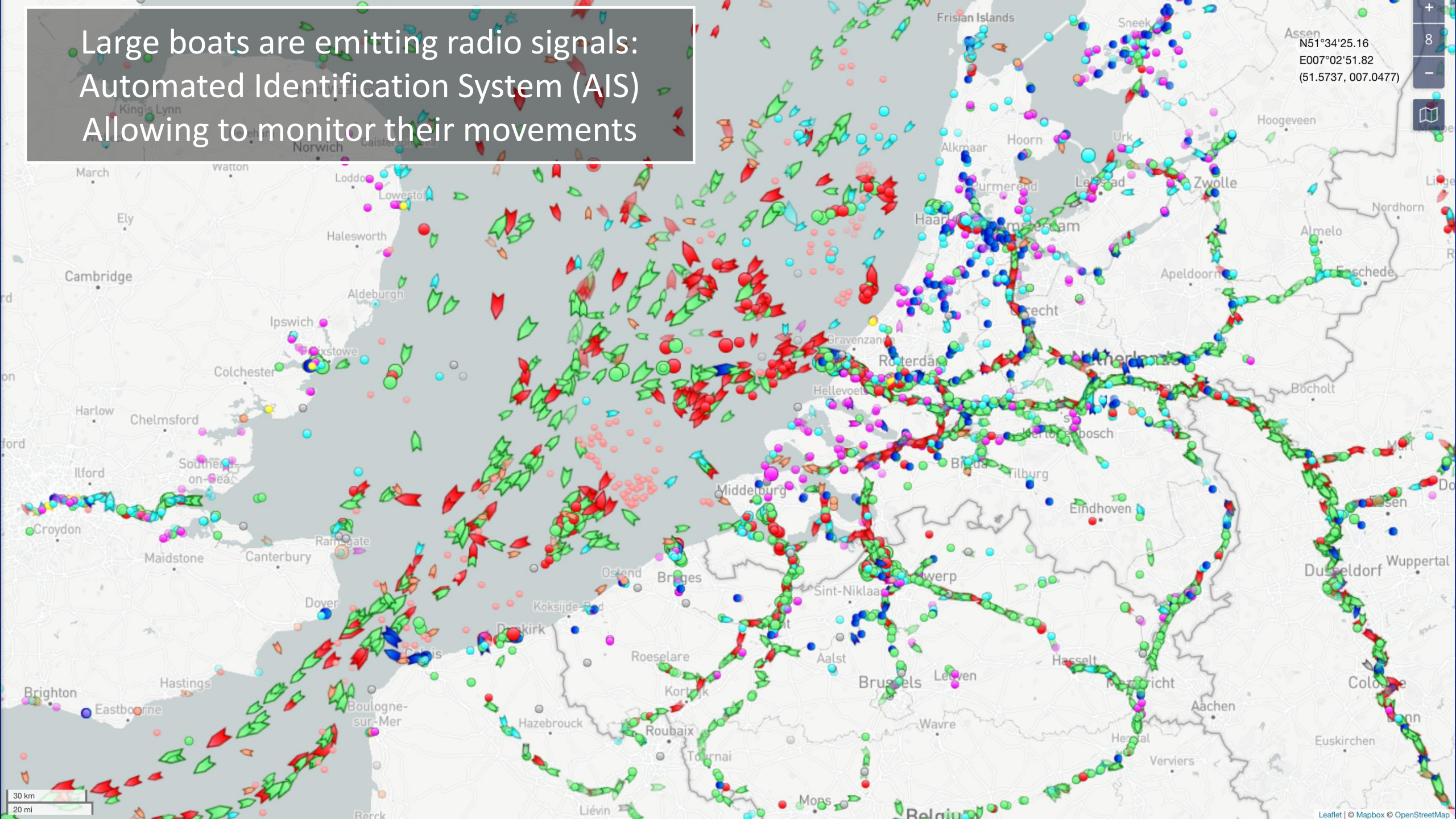
5. Seabed sediment veneers
6. Deposition from sediment plumes
7. 'Active overflow plume'
8. Ship/Machinery noise

9. Seabed removal: bathymetric change
10. Draghead noise
11. 'Active' screening plume
12. Base of deposit



Sources: Peduzzi, 2014

Large boats are emitting radio signals:  
Automated Identification System (AIS)  
Allowing to monitor their movements





### Vessel Information

IMO: 1234567\*

Name: XYZ 123\*

Vessel Type: Dredger

Vessel type detailed: suction Dredger

Navigational Status: Active

Flag: Netherlands [NL]

Gros Tonnage: 4548 t.

Length: 97.26 x 18.4 m

Year Built: 2000

Home Port: Rotterdam

Current location: 49.47686°N / 0.1329817°E

Current Port: Le Havre

Received : 2 minutes ago

Navigational Status: Moored

Speed/Course: 0 kn / 344°

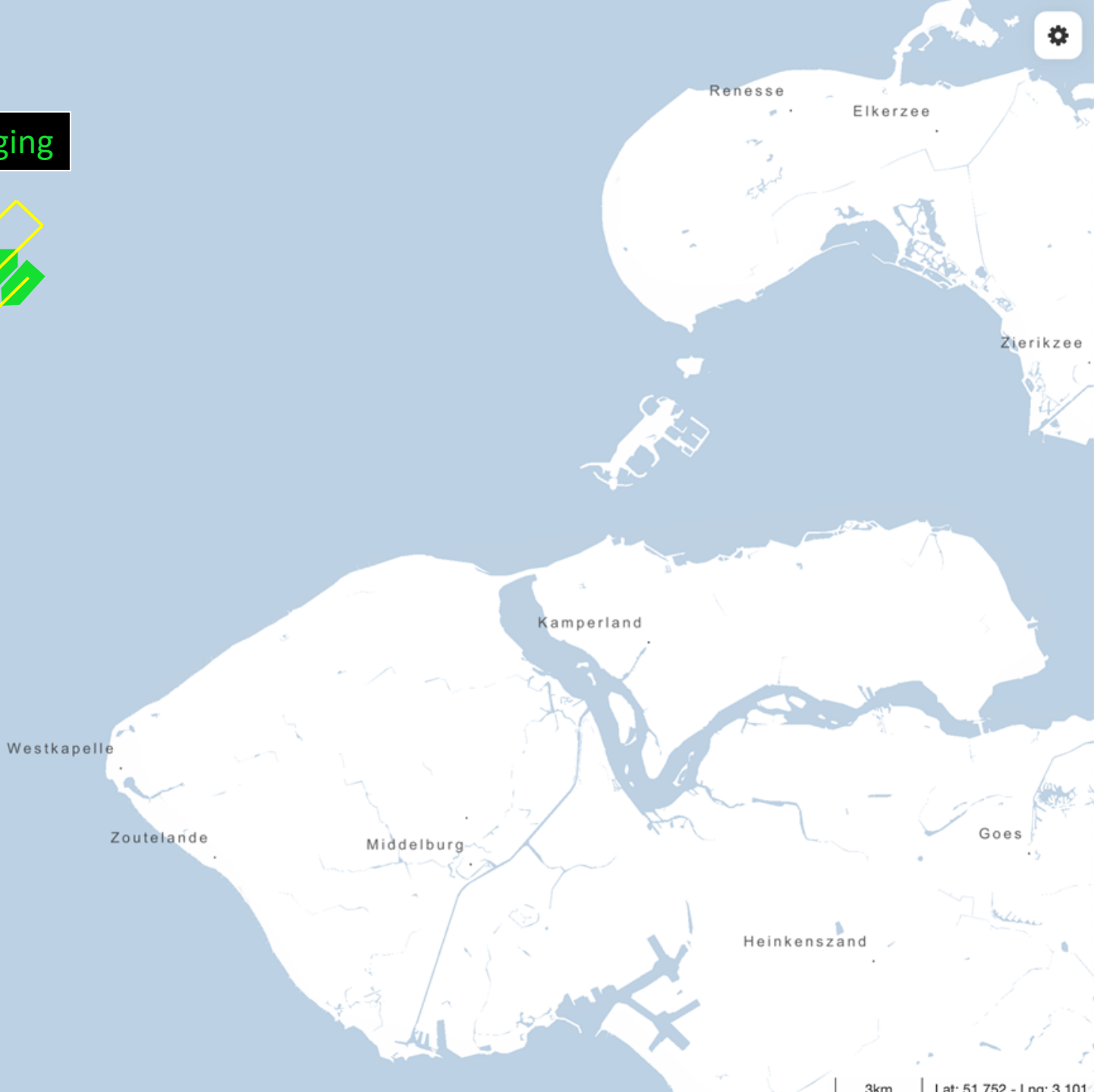
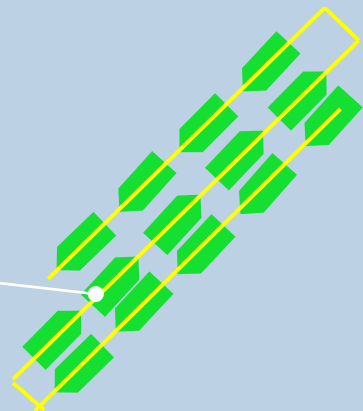
Society: ABC\*

Owner: DEF\*

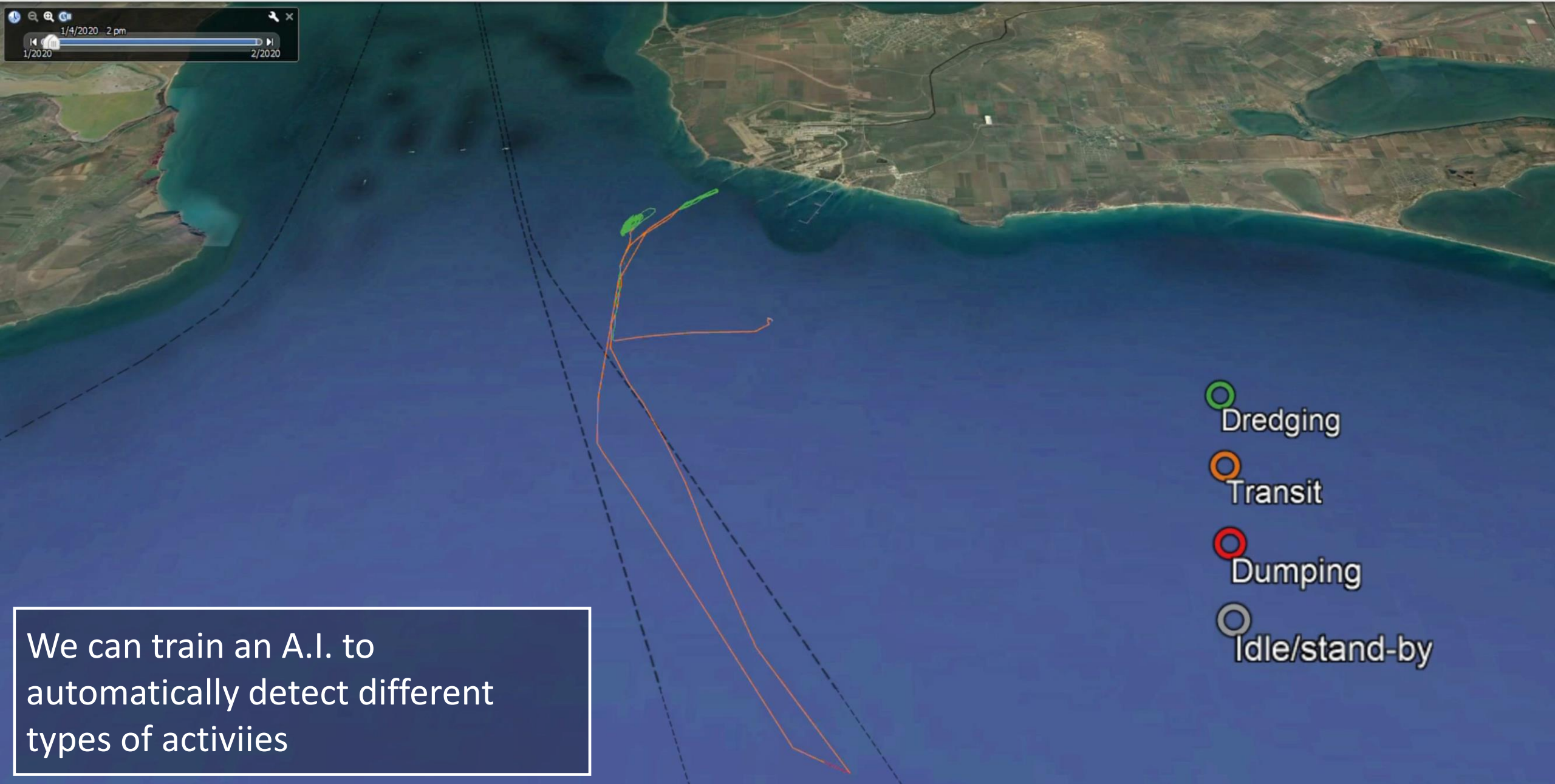
Manager: GHI\*

**Nearby Vessels**

Dredging



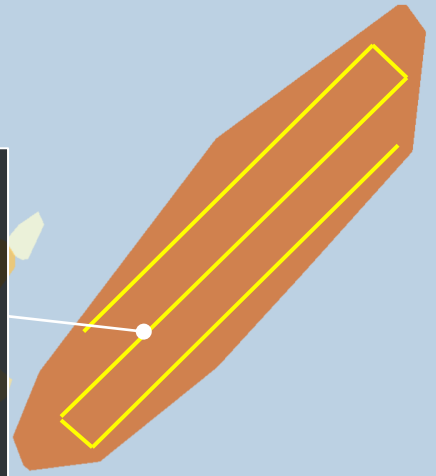
# Automatic detection with differentiation of types of activities



We can train an A.I. to automatically detect different types of activities

- Dredging
- Transit
- Dumping
- Idle/stand-by

Vessel Type: Dredger  
Vessel type detailed: suction Dredger  
Flag: Netherlands [NL]  
Gros Tonnage: 4548 t.  
Number of jouneys 2022: 10  
Estimated sand extracted: 45480 t.  
Within Sand concession : Yes  
Concession area: 48.459 km2



Westkapelle

Zoutelande

Middelburg

Kamperland

Heinkenszand

Goes

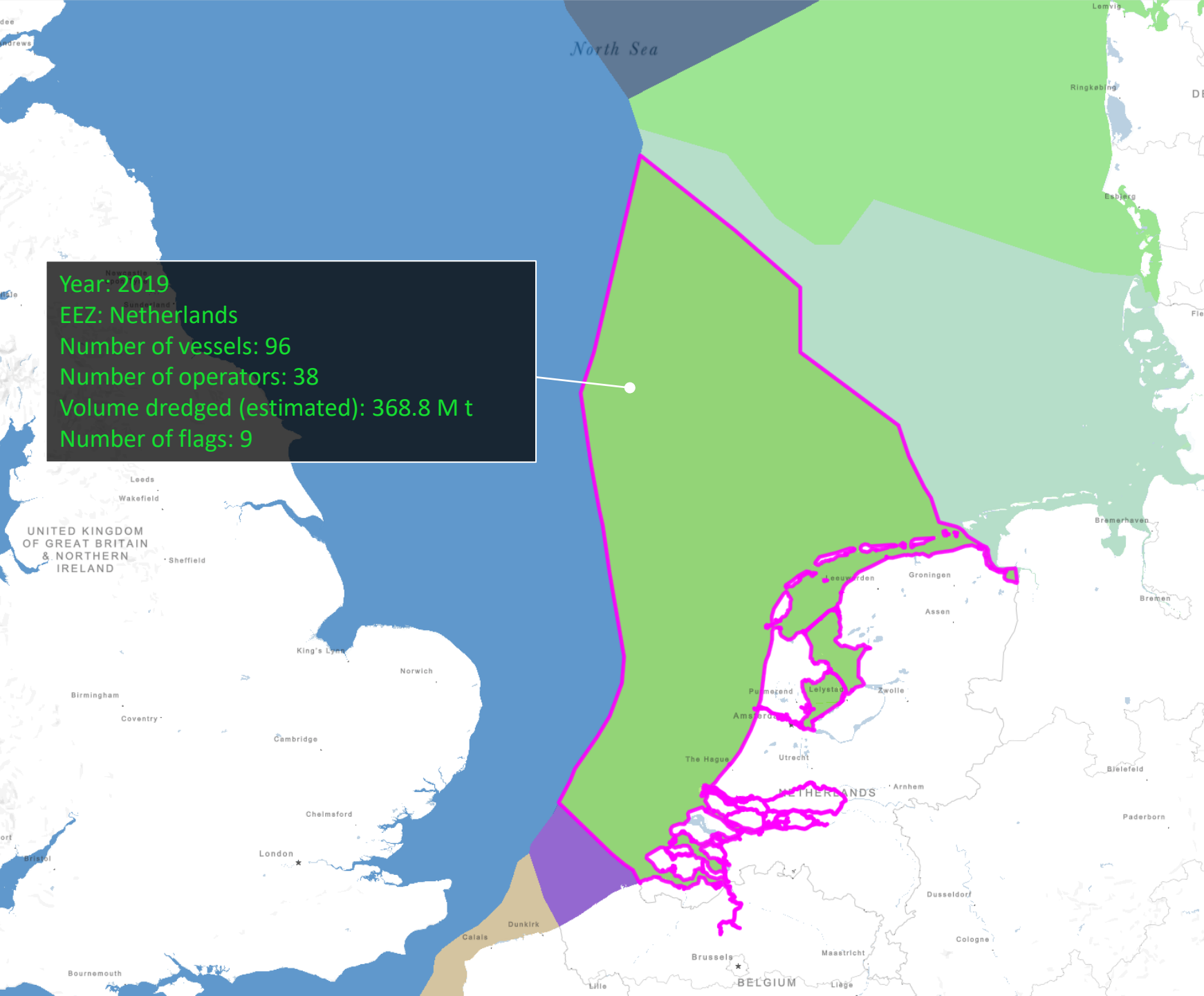
Renesse

Elkerzee

Zierikzee



Year: 2019  
EEZ: Netherlands  
Number of vessels: 96  
Number of operators: 38  
Volume dredged (estimated): 368.8 M t  
Number of flags: 9



Each year the rivers bring 10 to 16 billion tons of sediments to the oceans



Humans are already moving or extracting about half of this amount : 6 billion tons per year (+/- 2 Bt/year)





## **6 billion tons per year is equivalent to:**

- a wall of about 10 m high x 10 m wide all around planet Earth every year
- 2 Kg per day for each of the 8 billion humans
- More than 1 million trucks (of 15 t.) per day



# We are not yet monitoring all activities

West Africa: impacts from coastal degradation = 3.8 billion USD in 2017, i.e. 5.3% of the GDP.  
In Vietnam, the Mekong river delta is overextracted, leading to land erosion.

Not all boats are equipped with AIS



**MARINE SAND WATCH**

pascal.peduzzi@unepgrid.ch – Administrator English

Project's views Toolbox Catalog

Filter views within current project...

Filter activated views Advanced filter (10 / 10)

- Introducing Marine Sand Watch
 

Marine Sand Watch Story Map, take a tour to see what this platform can do. Click play and let you guide step by step.
- Dredging By Zone At 200 Nautical Miles From Shore
 

Trailing Suction Hopper Dredgers (TSHD) Maintenance Dredging (Public Version)
- Sand Trading Ports/Hubs - Likely
 

Land Reclamation - Likely (Public Version)



Map navigation controls including zoom in (+), zoom out (-), home, search, and other interactive icons.



MARINE SAND WATCH  
Making the invisible visible

<https://unepgrid.ch/marinesandwatch>

UN   
environment  
programme

  
Geneva



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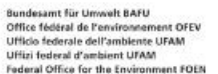
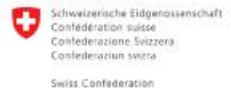
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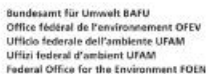
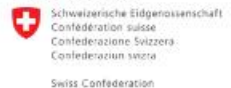
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# PANEL DISCUSSION

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## Laura PLATCHKOV

National Focal Point (UNEA5/12), Federal Office  
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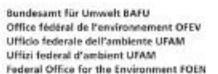
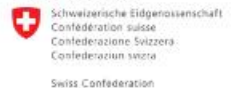
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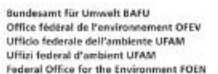
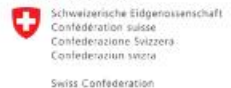
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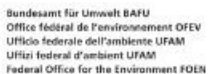
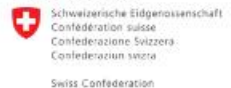
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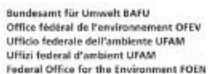
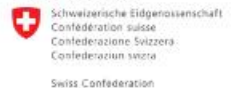
- Laura PLATCHKOV | National Focal Point (UNEA5/12), Federal Office for the Environment, Switzerland
- Vera VAN LANCKER | Marine Geologist, Royal Belgian Institute of Natural Sciences
- Arnaud VANDER VELPEN | Sand industry & Data Analytics Officer, UNEP/GRID-Geneva

### Q&A

### Closing



Supported by:





# Launch of the Marine Sand Watch: MONITORING MARINE SAND EXTRACTION



# Launch of the Marine Sand Watch:

## MONITORING MARINE SAND EXTRACTION

6 SEPT 23 | 14:00 - 15:30 CEST  
CICG & ONLINE | WEBEX

>>> [tiny.cc/GEN6Sep23Sand](https://tiny.cc/GEN6Sep23Sand)

### AGENDA

Moderated by Stephanie CHUAH | Programme Officer, UNEP/GRID-Geneva

#### Opening

- Elisa TONDA | Chief, Resources and Markets Branch, UN Environment Programme

#### Presentation of the Marine Sand Watch

- Pascal PEDUZZI | Director, UNEP/GRID-Geneva

#### Panel Discussion

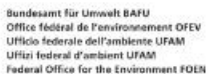
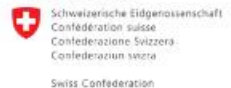
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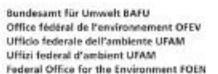
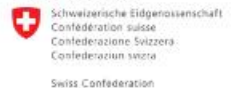
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# CLOSING

**Launch of the Marine Sand Watch:  
MONITORING MARINE SAND EXTRACTION**



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## THANK YOU!



**Elisa TONDA**

Chief, Resources and Markets Branch, UN Environment Programme



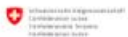
**Pascal PEDUZZI**

Director, UNEP/GRID-Geneva



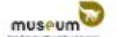
**Laura PLATCHKOV**

National Focal Point (UNEA5/12), Federal Office for the Environment, Switzerland



**Vera VAN LANCKER**

Marine Geologist, Royal Belgian Institute of Natural Sciences



**Arnaud VANDER VELPEN**

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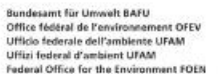
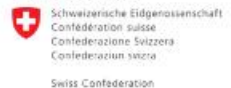


**Stephanie CHUAH**

Programme Officer, UNEP/GRID-Geneva | Moderator



Supported by:



# WHAT'S NEXT?

 [genevaenvironmentnetwork.org](https://genevaenvironmentnetwork.org)



**CONFERENCE**  
**Geneva Toxic Free Talks 2023**  
20 - 22 SEP 2023  
Earthjustice, Special Procedures of the UN Human Rights Council, GEN

Human Rights and Environment | Chemicals and Pollution  
 SDG3 | SDG12



25-29 September 2023  
Bonn, Germany

**CONFERENCE**  
**Advancing a Human Rights-based Approach to Accelerate the Sound Management of Chemicals and Waste for People and the Planet | ICCM5 Side Event**  
27 SEP 2023 13:15 - 14:45  
Bonn and Online | Webex  
OHCHR, GEN

Chemicals and Pollution | Human Rights and Environment  
 SDG12



**MINAMATA CONVENTION ON MERCURY**

**CONFERENCE**  
**Briefing on the 5th Meeting of the Conference of the Parties to the Minamata Convention on Mercury**  
05 OCT 2023 14:00 - 15:30  
International Environment House I, Room 2 & Online | Webex  
Minamata Convention on Mercury, GEN

Chemicals and Pollution  
 SDG3 | SDG12



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6 SEPTEMBER 2023 | 14:00 - 15:30 CEST | CIGG & ONLINE