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Launenoffhe Marine Sand Watch!

MONITORING MARINE SAND EXTRACTION

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

tiny.cc/GEN6Sep23Sand

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

>>> tiny.cc/GEN6Sep23Sand

SPEAKERS

By order of intervention.



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

UN (A)
GRID

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



Stephanie CHUAH

UN (i) GRID

Programme Officer, UNEP/GRID-Geneva | Moderator













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

Opening

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Presentation of the Marine Sand Watch

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Q&A











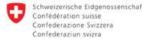












Ufficio federale dell'ambiente UFAM Uffizi federal d'ambient UFAM Federal Office for the Environment F

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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

Launch of the Marine Sand Watch: MONITORING MARINE SAND EXTRACTION

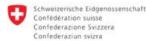










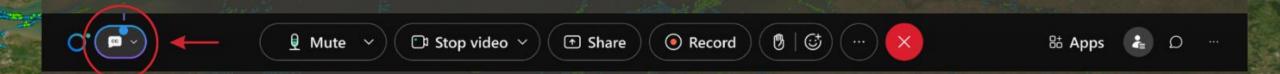


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Bundesamt für Umwelt BAFU

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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**



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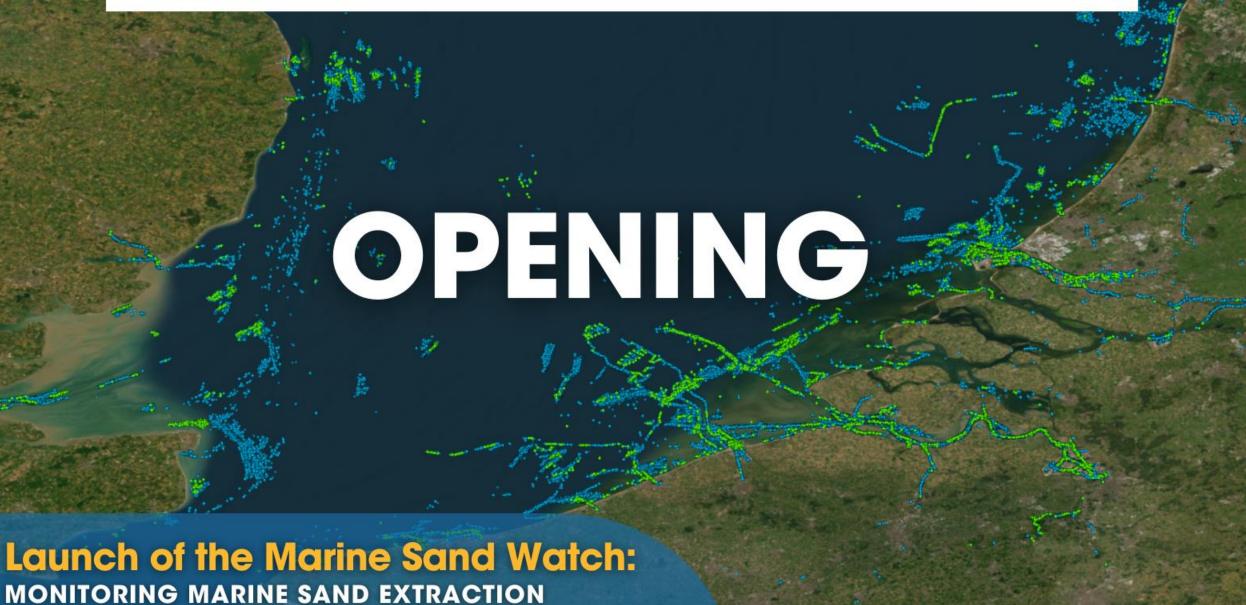




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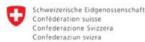












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In 2020, the weight of man-made building material, exceeded global living biomass



Glass, plastics

Bricks

1154 Gt

Aggregates (stones, sand, gravels

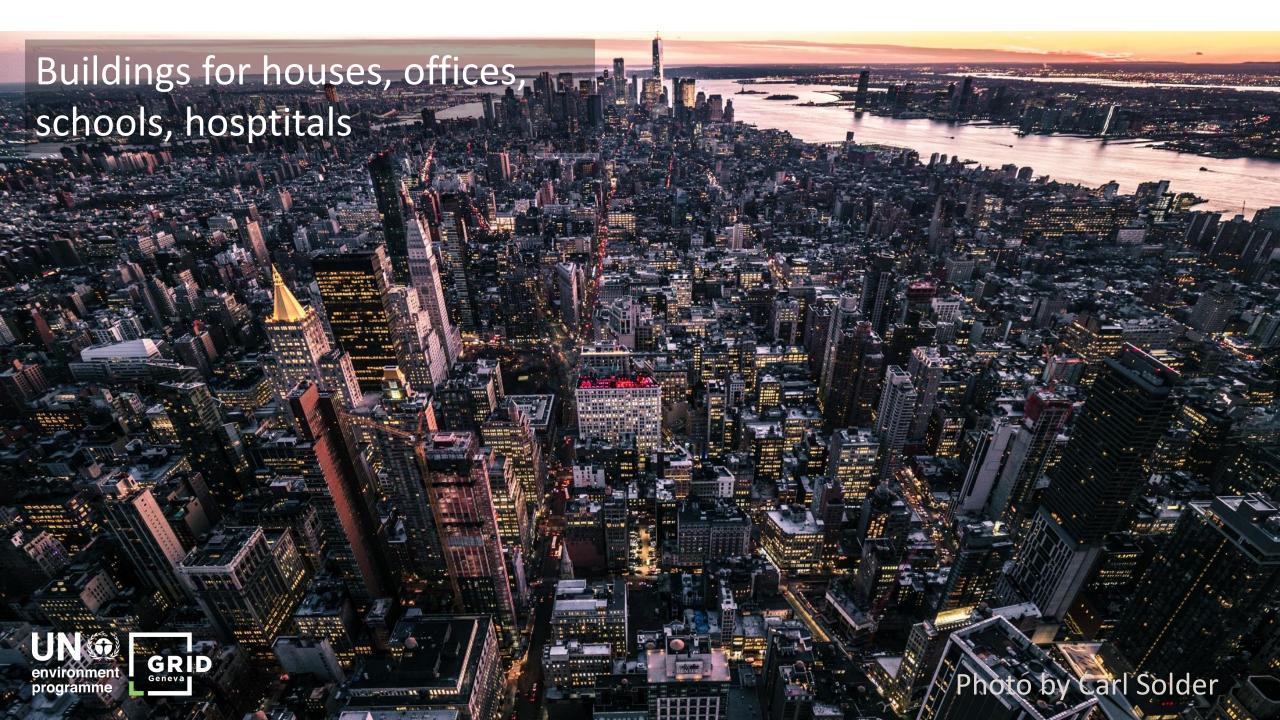
Concrete (sand, gravels, cement and water)

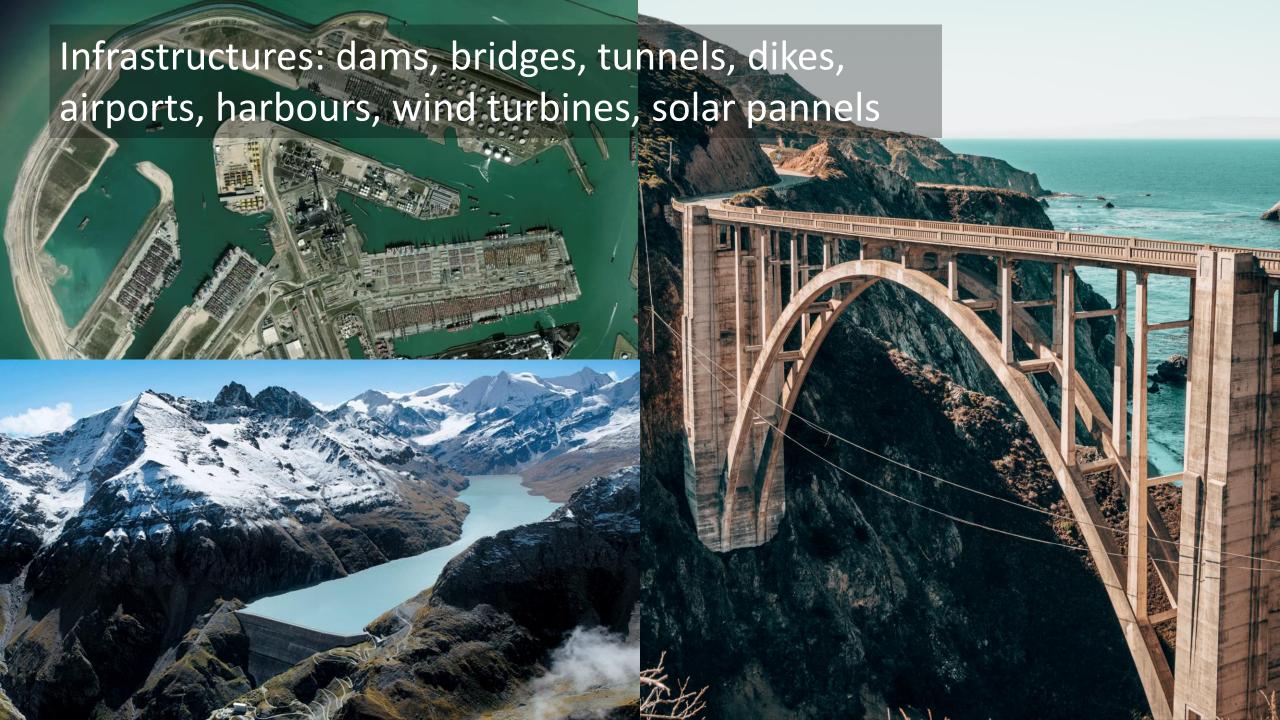
Metals

Asphalt (bituminous, sandstones, sand and rocks

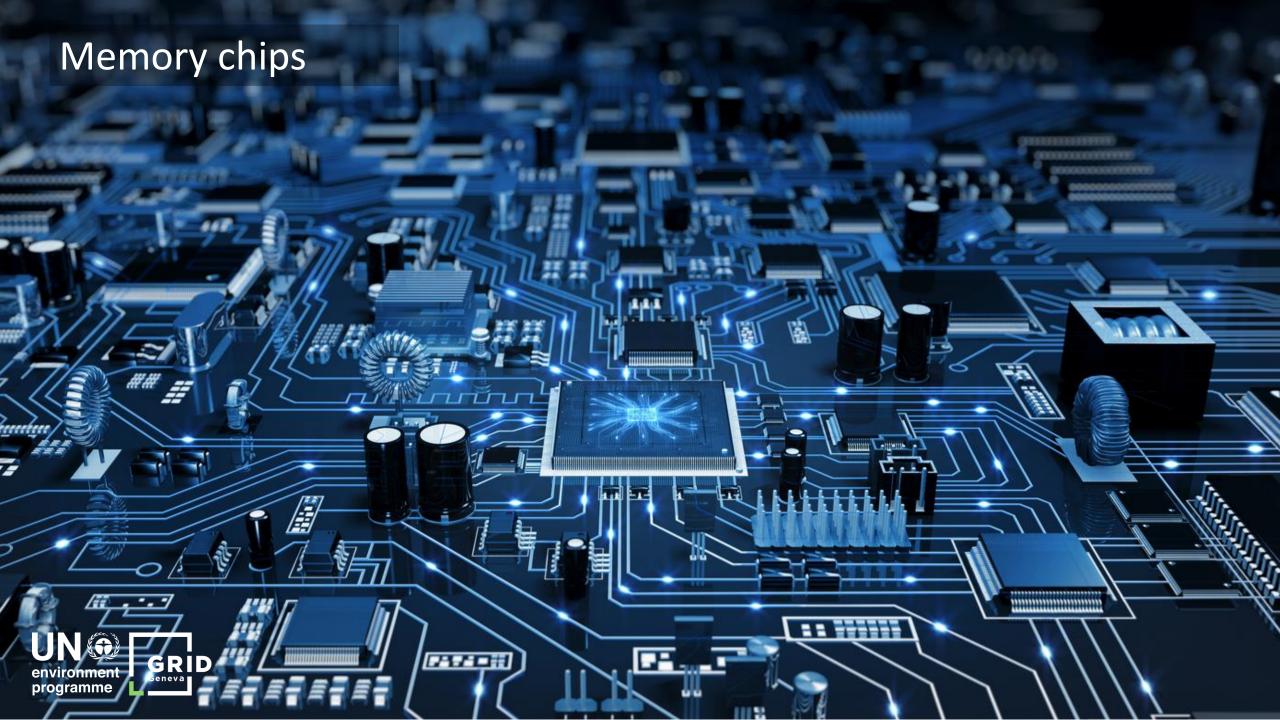
The vast majority is made of sand and gravels











Land reclamation

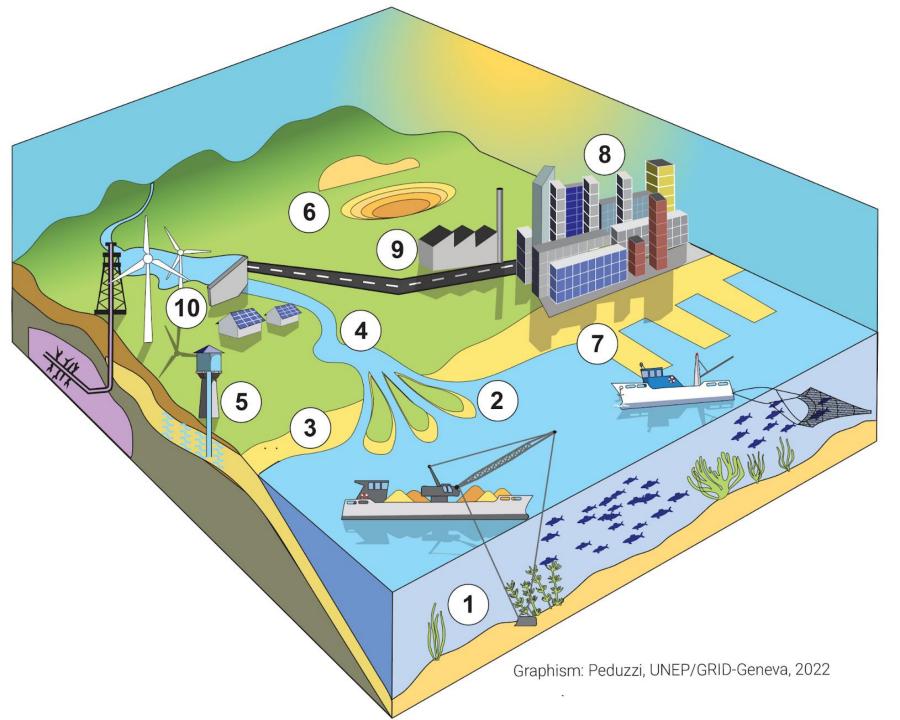












Environment

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

<u>Infrastructures</u>

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









UNEP/EA.4/L.23



Original: English



United Nations Environment Assembly of the United Nations Environment Programme

United Nations Environment Assembly of the Inited Nations Environment Programme ourth session

Nairobi, 11-15 March 2019

Mineral resource governance*

The United Nations Environment Assembly

Recalling the principles and purposes of the Charter of the United Nations,

Recalling also the Stockholm Conference on the Human Environment 1972, its Action Plan and recommendation 56 on mining and mineral resources,

Reaffirming General Assembly resolution A/RES/37/7 of 28 October 1982, entitled "World Charter for Nature" that states that "non-renewable resources (...) shall be exploited with restraint, taking into account their abundance, rational possibilities of converting them for consumption, and the compatibility of their exploitation",

Recalling the Berlin II Guidelines 2002 and their Fundamental Principles for the Mining Sector, which states that governments, mining companies and minerals industries should recognize environmental management as a high priority, establish environmental accountability, and ensure the participation of interested parties,

Reaffirming the Johannesburg Plan of Implementation of the World Summit on Sustainable Development, adopted on 4 September 2002, which recognized that minerals are essential for modern living and sustainable development,

Reaffirming also the outcome document of the United Nations Conference on Sustainable Development, entitled "The future We Want", General Assembly resolution A/RES/66/288 adopted on 27 July 2012, which stresses the major contribution of minerals and metals to modern societies and which calls upon governments and businesses to promote the continuous improvement of

Recalling United Nations General Assembly resolution A/RES/70/1 of 25 September 2015, entitled "Transforming our world: the 2030 Agenda for Sustainable Development", in particular Sustainable Development Goal 7 "Affordable and clean energy" and Sustainable Development Goal 12 "Responsible consumption and production" and reminding the important contribution of mining to

Noting that clean technologies, highly depending on metals and minerals, are important to combat climate change issues,

* The present document is being issued without formal editing



033 - For the urgent global management of marine and coastal sand resources

Latest version in this language: Version for electronic vote | Published on: 01 Sep 2020

CONSIDERING that sand is an essential element of coastal and marine ecosystems (turtle spawning grounds, habitat for benthic species, and mitigation against extreme marine weather hazards) and shelters microorganisms and cyanobacteria that are the basis of marine food webs

RECALLING that sand is the second-most used resource in the world due to its many uses, including non-residential construction, roads, glass, agriculture,

NOTING that sediments are essential for coastal dynamics, and their entry into coastal waters has been decreased considerably due to river regulation

NOTING that the excessive extraction of sand prevents the reconstitution of stocks in rivers and streams, which are often already modified by humans; and that sand mining exacerbates shoreline erosion phenomena, which increases vulnerability to natural disasters and can affect the integrity of lagoon

depletion also alter coastal habitats, and that this trend will increase due to the diversification of extraction areas;

ALARMED that the easy extraction, combined with the profitability in exploiting this scarce resource, fuels the rise of illegal extraction by organised groups,

EMPHASISING that incre

WELCOMING positive ini Kingdom;

The IUCN World Conse

sembl

based on the study of se

activities, and take appr projects) which address

UNITED **NATIONS**

UNEP/EA 5/Res 12

7 March 2022 Original: English



United Nations Environment Assembly of the United Nations Environment Programme

United Nations Environment Assembly of the United Nations Environment Programme Fifth session Nairobi (hybrid), 22 and 23 February 2021

and 28 February-2 March 2022 Resolution adopted by the United Nations Environment

Assembly on 2 March 2022 5/12. Environmental aspects of minerals and metals management

The United Nations Environment Assembly,

Recalling its resolution 4/19 on mineral resource governance and taking note of the report of the Executive Director of the United Nations Environment Programme entitled "Progress in the implementation of resolution 4/19 on mineral resource governance" and the report entitled Mineral Resource Governance and the Global Goals: An Agenda for International Collaboration,2

Recalling also its resolution 4/1 on innovative pathways to achieve sustainable consumption

UNEA 5.2, res. 12.

4. Requests the Executive Director, through the Global Resource Information Database (GRID-Geneva), to strengthen scientific, technical and policy knowledge with regard to sand, and to support global policies and action regarding the environmentally sound extraction and use thereof;











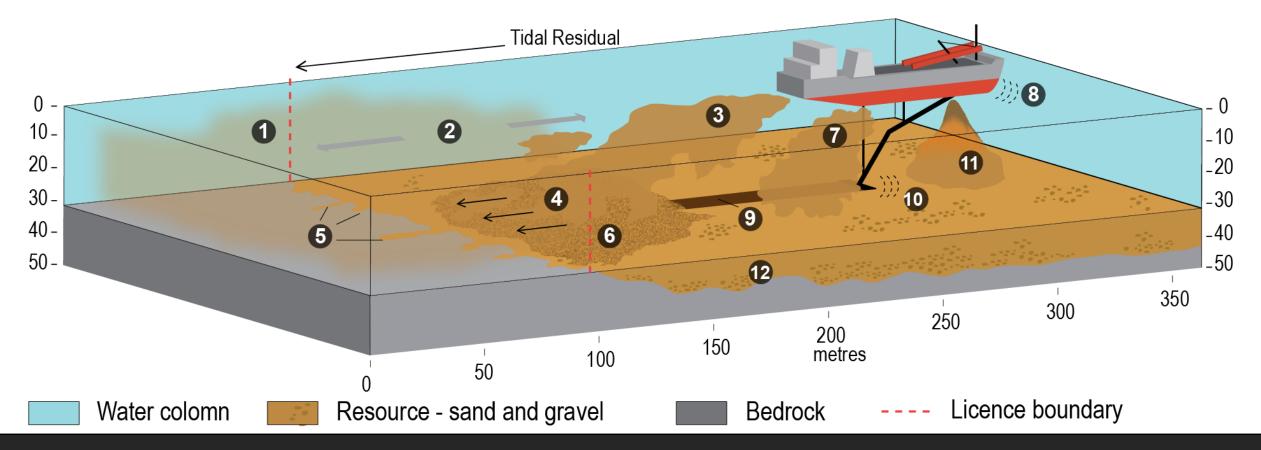


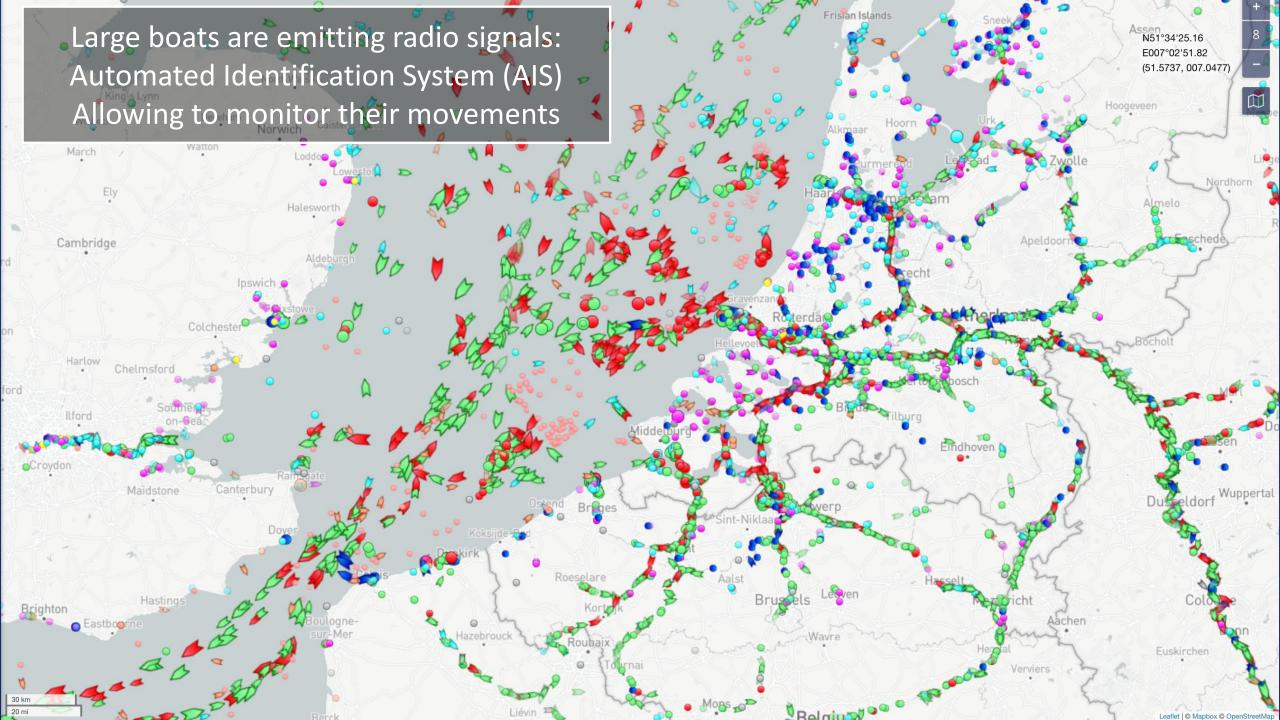
Direct and indirect impacts

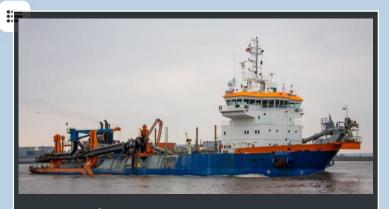
- 1. Increased turbidity
- 2. Far field changes in tides and currents
- 3. 'Passive' sediment plume
- 4. Plume dispersal

- 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







Vessel Information IMO: 1234567* Name: XYZ 123*

Vessel Type: Dredger

Vessel type detailed: suction Dredger

Navigational Staus: Active Flag: Netherlands [NL] Gros Tonnage: 4548 t.

Length: 97.26 x 18.4 m

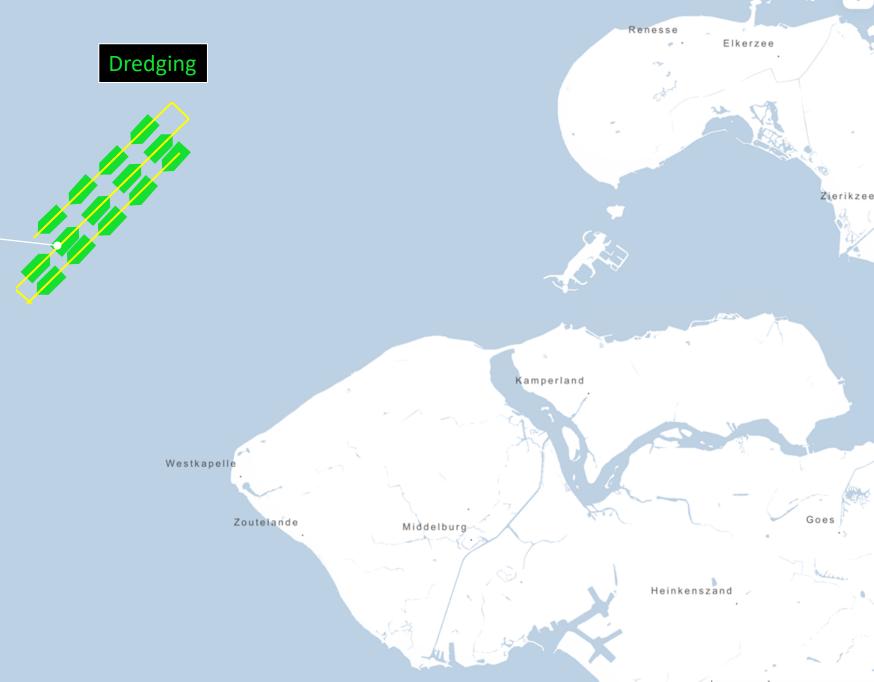
Year Built: 2000

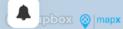
Home Port: Rotterdam

Current location: 49.47686°N / 0.1329817°E

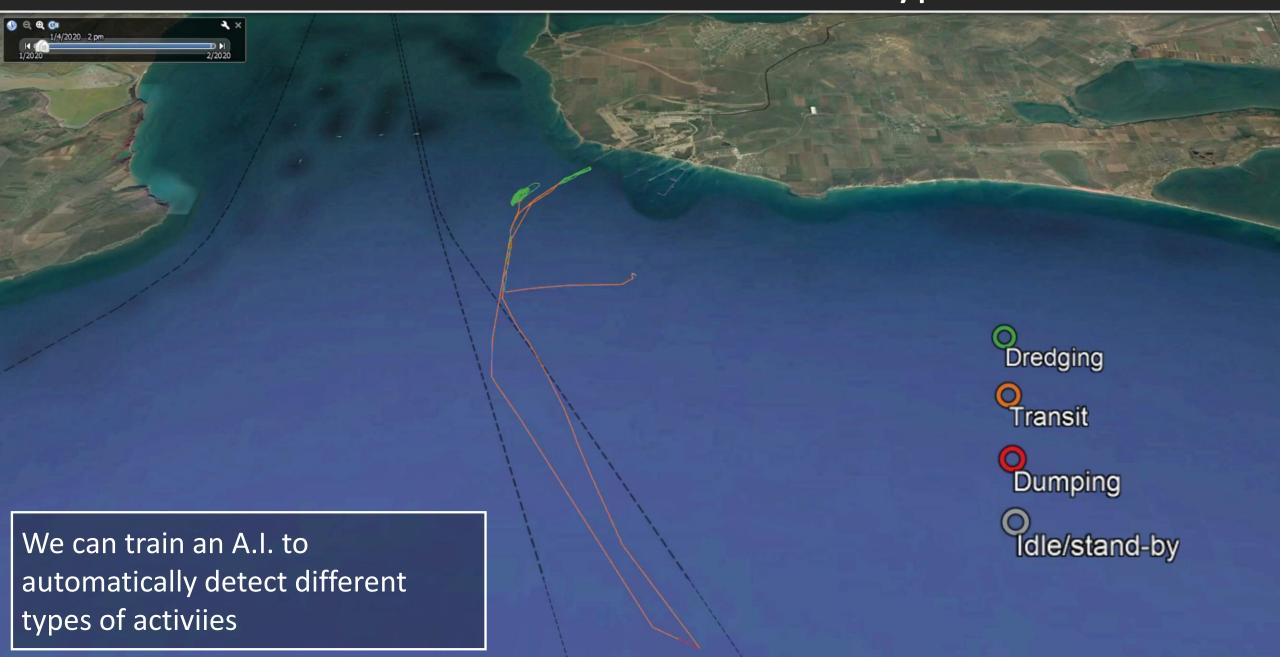
Current Port: Le Havre Received : 2 minutes ago Navigational Status: Moored Speed/Course: 0 kn / 344°

Society: ABC*
Owner: DEF*
Manager: GHI*
Nearby Vessels

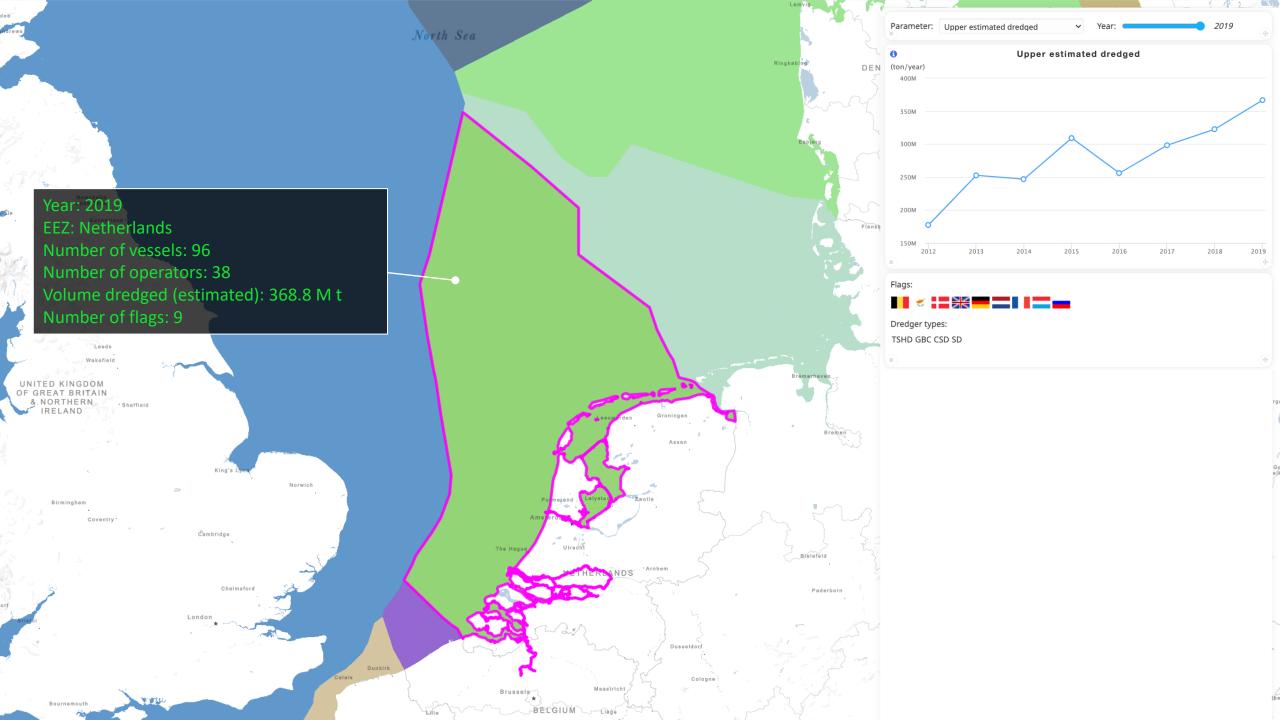




Automatic detection with differentiation of types of activities



* ∷ Renesse Elkerzee Vessel Type: Dredger Vessel type detailed: suction Dredger Zierikzee 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 Kamperland Westkapelle Zoutelande Middelburg~ Heinkenszand



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





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









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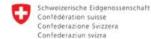












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PANEL DISCUSSION

Launch of the Marine Sand Watch:

MONITORING MARINE SAND EXTRACTION





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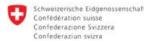
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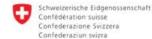






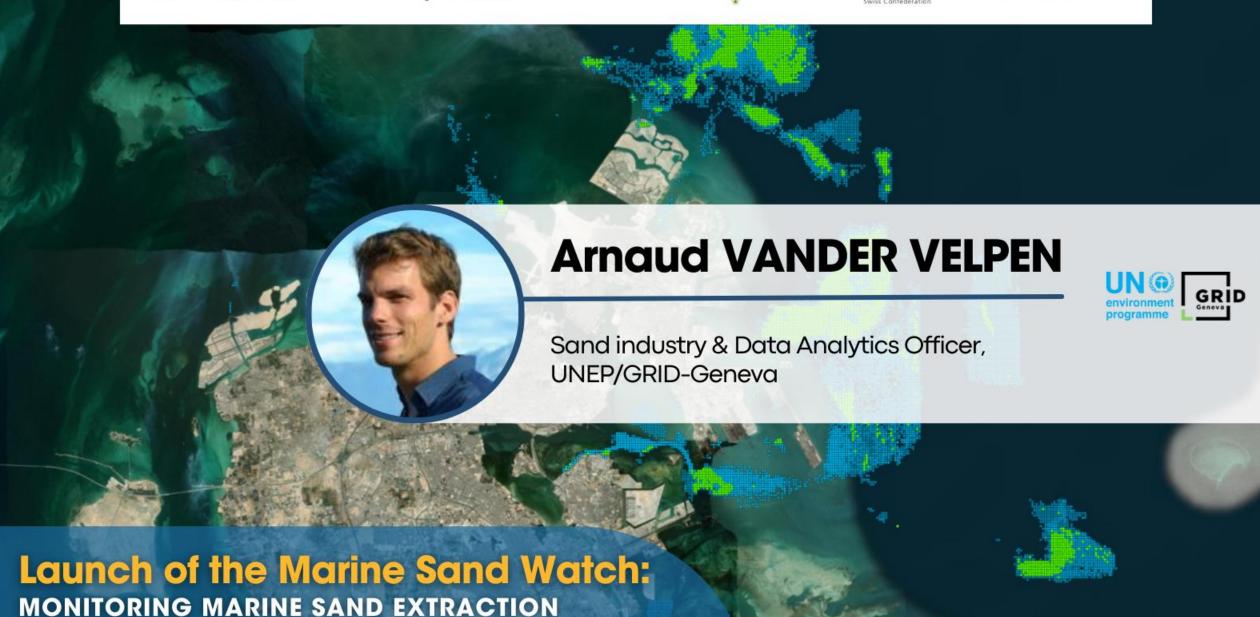






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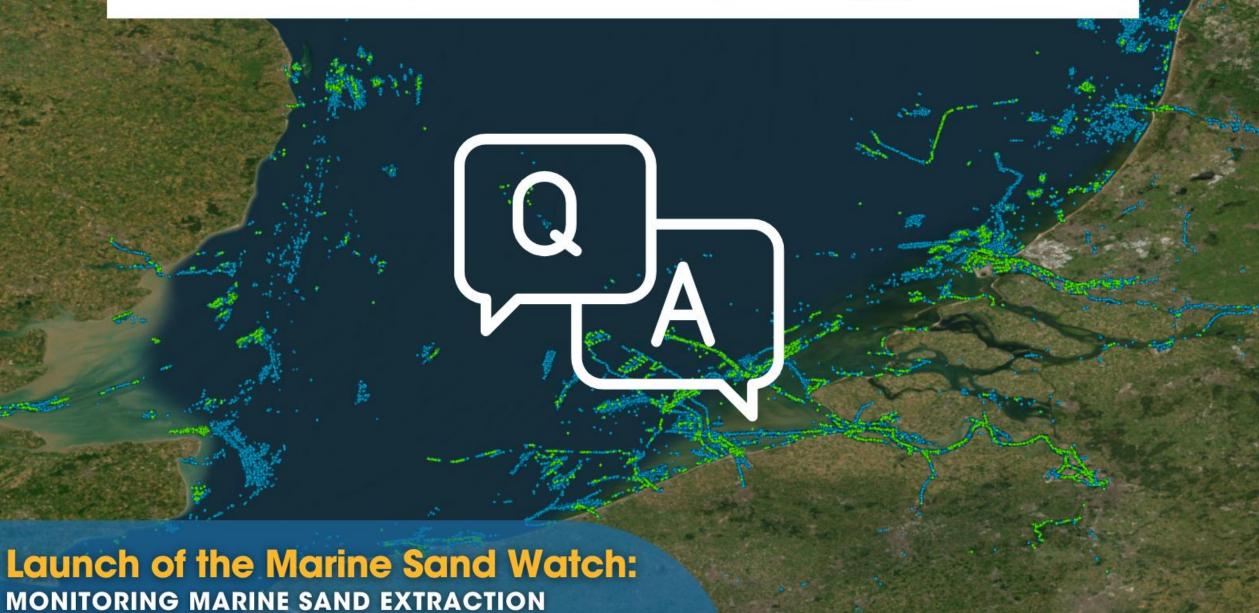


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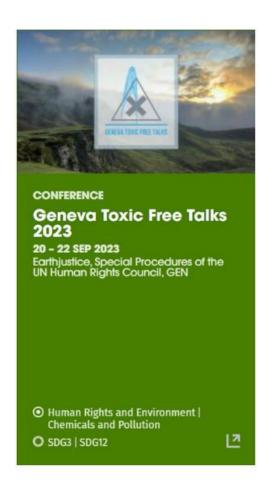
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Advancing a Human Rights-based Approach to Accelerate the Sound Management of Chemicals and Waste for People and the Planet | ICCM5 Side Event

27 SEP 2023 13:15 - 14:45 Bonn and Online | Webex OHCHR, GEN

- Chemicals and Pollution | Human Rights and Environment
- O SDG12



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

O SDG3 | SDG12









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