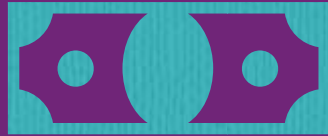




Using Sediment As a Resource

SedNet 5th of April 2019, Dubrovnic Croatia



€ 200 million/year



100.000 Trailers/year



Waste or Resource?



Purpose

With USAR we demonstrate the potential to use sediments as a resource for new materials

USAR introduces the principles of the circular economy in the field of sediment management.

- new products and processes
- Provide watermanagers with the necessary knowledge and tools

Outputs



- Inventory catalogue of possible uses of sediment



- Recycling strategies based on local potential for uses of sediment



- Operational Sediment Management System (OSMS) - ICT-tool for watermanagers to make business cases and management decisions for recycling sediment



- 3 local pilots



Restauration Floodplain

Use Sediment for Dikes



Numbers

- 260.000 m³ from the river
- Also contaminated
- 100% recycle
- 3,5 km ringdikey
- 2,5 km overflow dike

Advantages

- Little impact on environment
- Local resources used
- More capacity in river



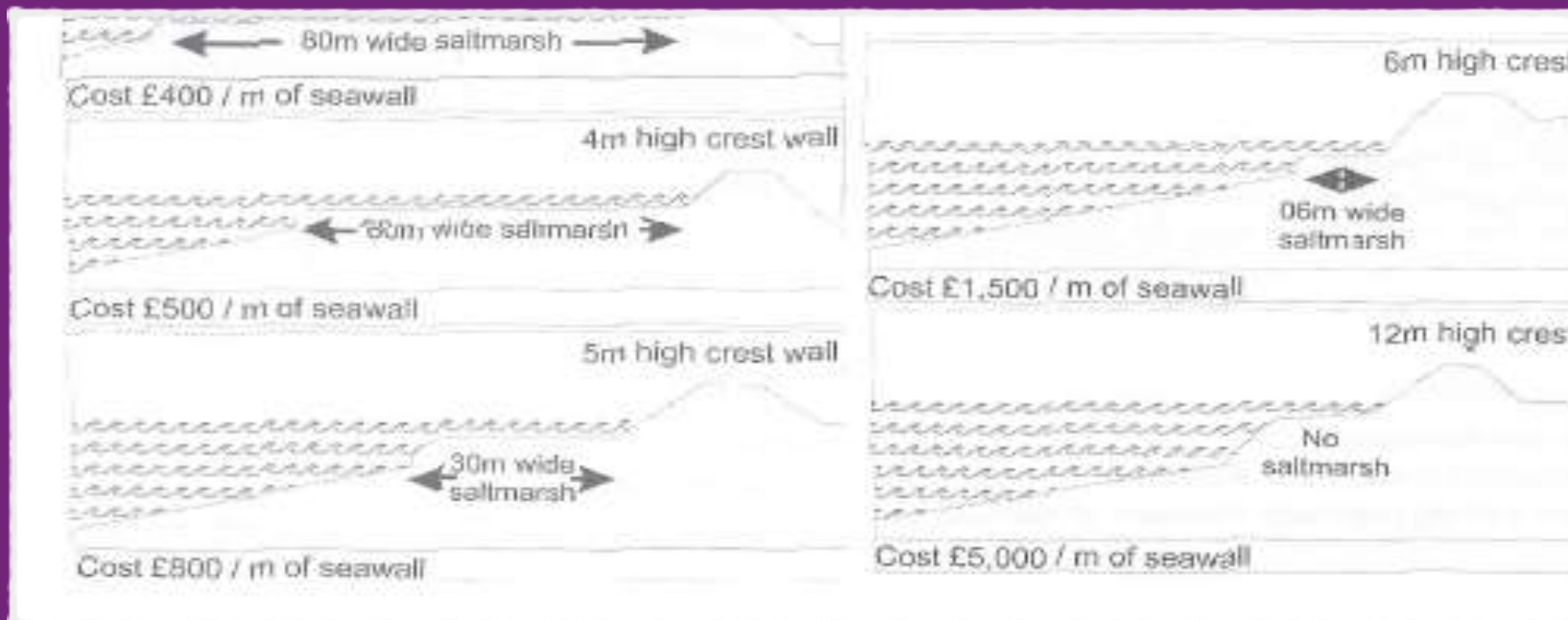


Restauration Floodplain



Dredging and restoration sites

Use Sediment for Coastal Defence



Brightlingsea
Harbour
Commissioners

Use Sediment for Coastal Defence

Numbers

- 35.000 m³ sediment
- Restoration 3.0 ha saltmarsh
- Improved 2,8 km of coastline

Advantages

- saltmarshes are natural coastal flood defences
- Internationally important wetland habitats



Brightlingsea
Harbour
Commissioners



Upcycling of Sediment

Use Sediment for Land Improvement



Numbers

- 25.000 m³ sediment
- 25.000 m³ manure
- Green waste



Use Sediment for Land Improvement

Advantages

- Stop land subsidence
- Reduce GHG emission
- Start circular economy



Interreg 2 Seas Mers Zeeën USAR



**Need inspiration on how to
use sediment as a resource?**

Wikised

Characterisation of sediment



Legislation



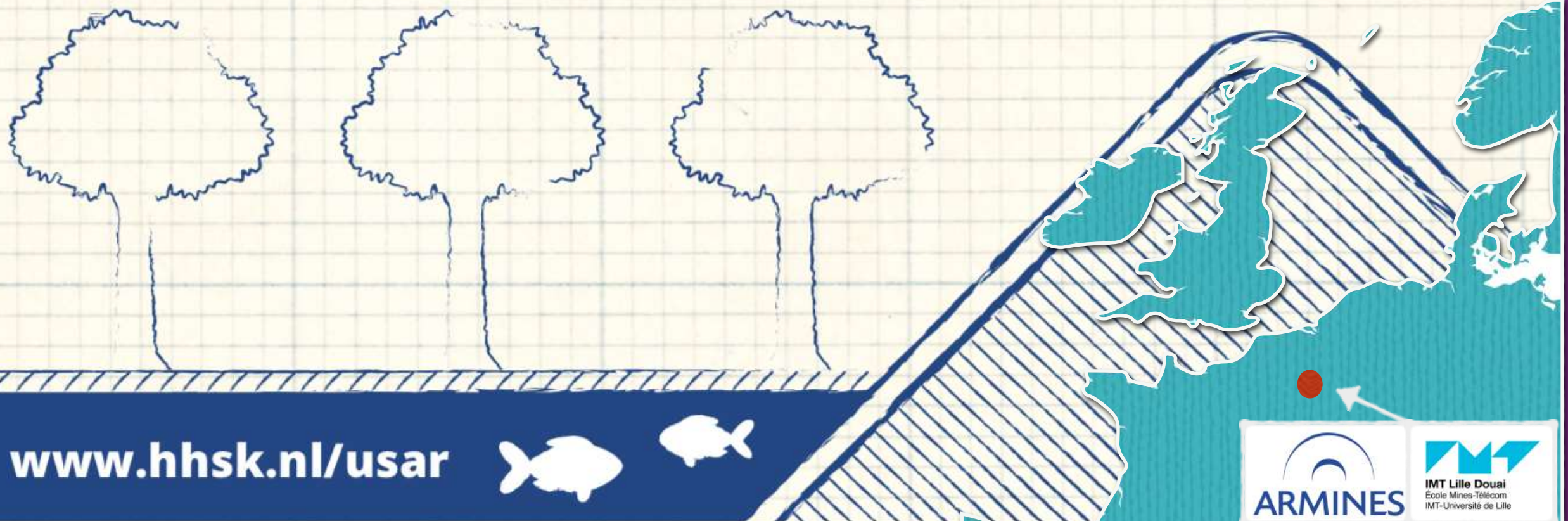
Scientific and academic research



Cost-benefit analysis



Example projects



www.hhsk.nl/usar





Recycling Strategies

Using Sediment As a Resource

Interreg 
2 Seas Mers Zeeën
USAR
European Regional Development Fund

