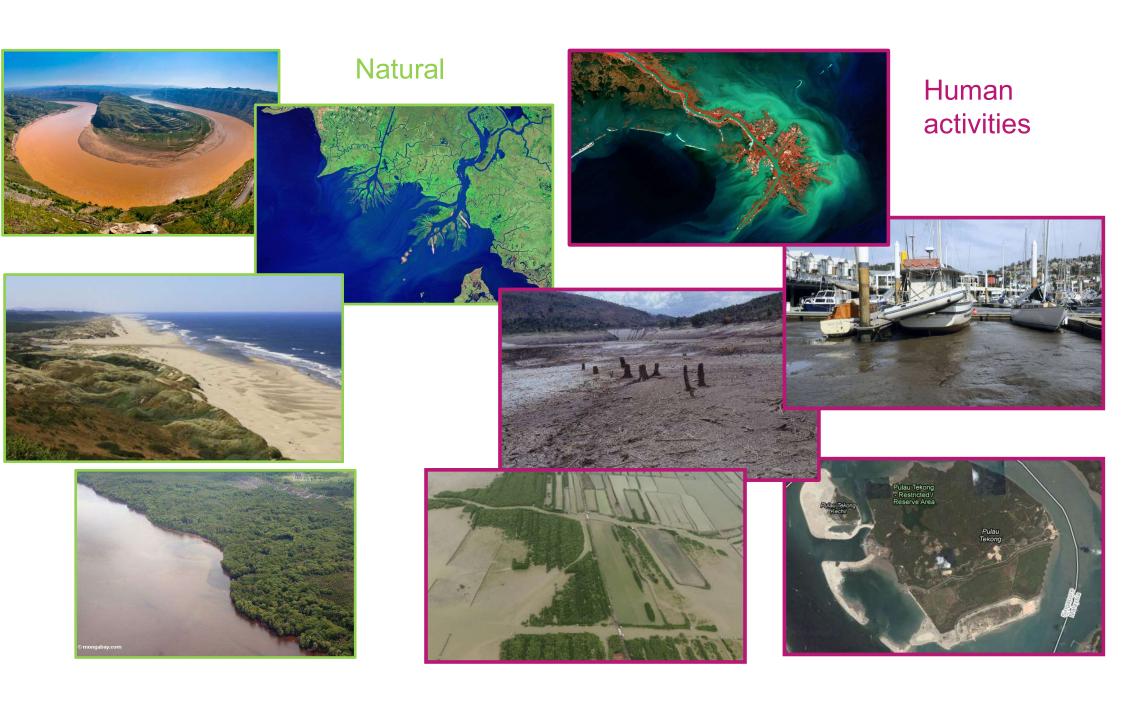


#### Natural







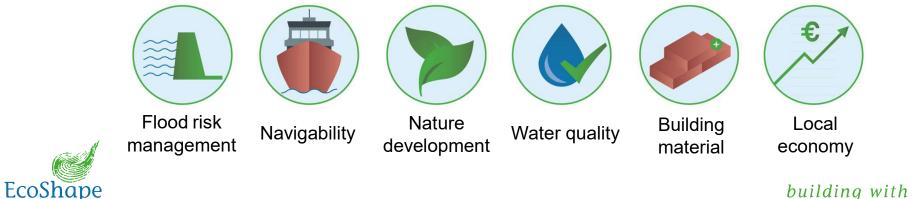


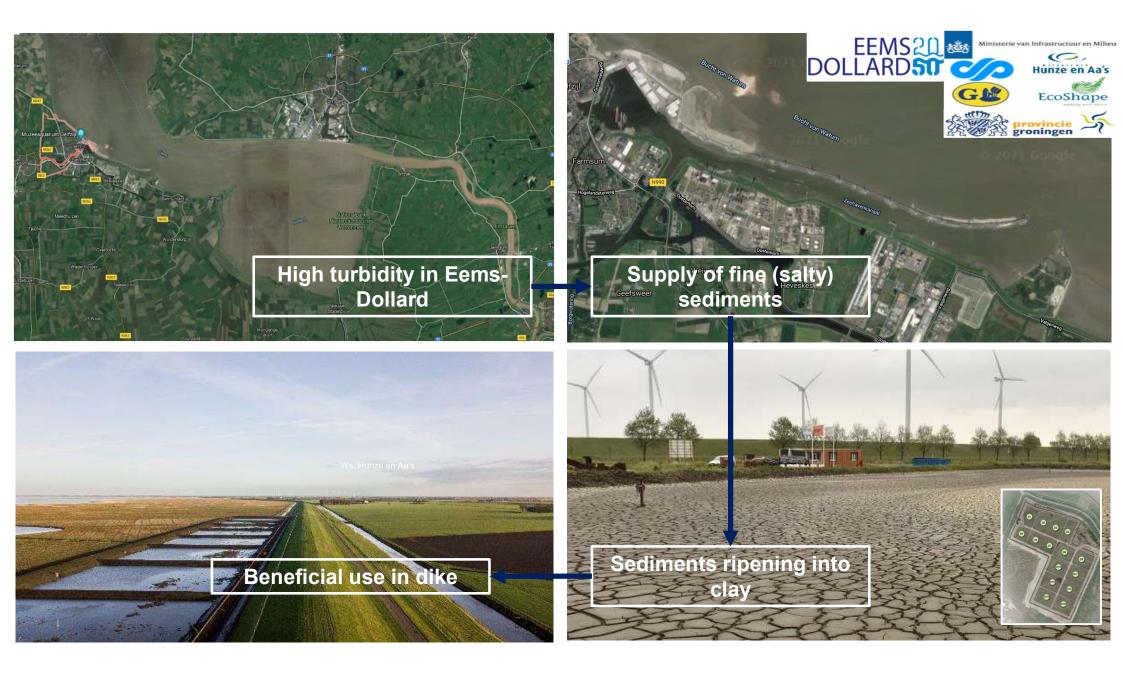


## **Beneficial Use of Sediments (BUS)**

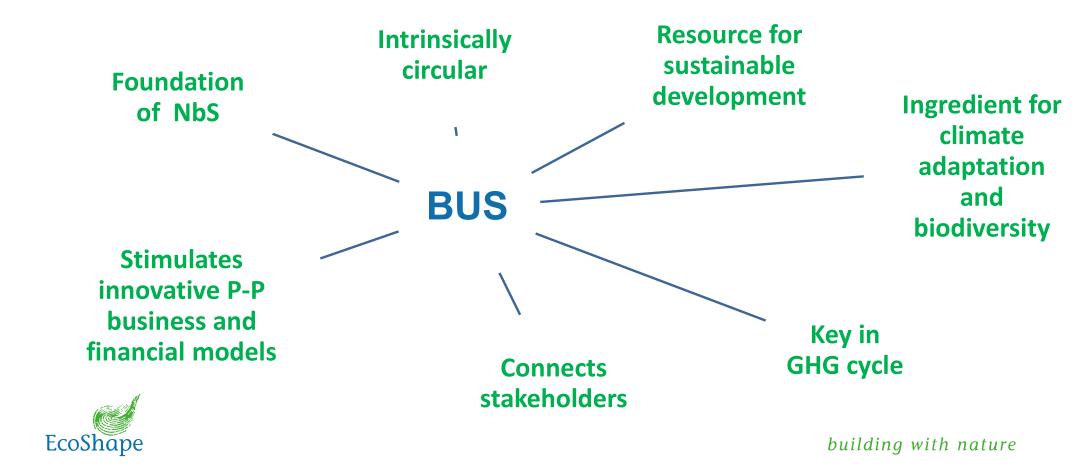
"The use of dredged or natural sediment in applications that are beneficial and in harmony to (human and natural) development"

(...as opposed to waste it at sea or store it in a remote deposit forever)





#### **BUS** – links to international ambitions



## Focus of BUS table

BUS: sand and mud, with links to ecobiology and water

- Dike strengthening and realigment
- Counteracting subsidence
- Salt marshes and wetland development and restoration
- Navigation infrastructure maintenance
- GHG (NOx) emissions and sequestration opportunities









https://www.ecoshape.org/nl/pilots/living-lab-mud/

## Tracks (concept) – building on solid legacy

- 1. Kleirijperij: P 2017-22 (ripening salty dredge sediments in clay soil for dikes)
- 2. NWO Hedwige Polder (TUD): P 2021-24 (dike realigment and erosion)
- 3. KIEM (HAN): P 2021 (desalination of dredge sediments)
- 4. Meegroeidijk Fase 1: P 2021 (thin lift placement of dredge sediment on dike feasibility)
- 5. (TKI Living Lab for Mud: P 2020 21 (Measurement of CO2 from sediments + dredge sediments ripening))
- 6. EU Green Deal 7.1: Pr 2022-25 (ecosystem restoration and GHG from BUS)
- 7. NWO Sediment to Soil (TUD): Pr 2021-24; (ripening and geochemichemistry in BUS)
- 8. Brede Groene Dijk: L 2022-24 (use of ripened clay in dike)
- 9. Marconi follow-up: L 2022-25 (salt marsh development)
- 10. Meegroeidijk Fase 2: L 2022 23 (thin lift placement of dredge sediment on dike field experiment)

Plus (many) other within our partners







Adaptive M&M





Engage





Capacity Building





# **Ambition and key factors**

To favour mainstreaming and to maximize the beneficial (re)use of sediments towards 100% reuse, through BwN

- Implementation cases of BUS (beyond technique)
- Link BUS implementation with bigger picture ambitions (e.g. GHG / climate neutrality; biodiversity; circularity)
- Creation / contribution to specific large programs
- Link NL International
- Influence legislation and tenders to incorporate BUS



#### **Contact us**

Luca Sittoni@ecoshape.nl





Nathalie Strookman Nathalie.Strookman@vanoord.com