



Cross-border Sediment Relocation Pilot to Prevent Sediment Disbalance in the Scheldt Estuary

Eline Van Malderen and Frederik Roose

Department of Mobility and Public Works Division Maritime Access Flemish Government

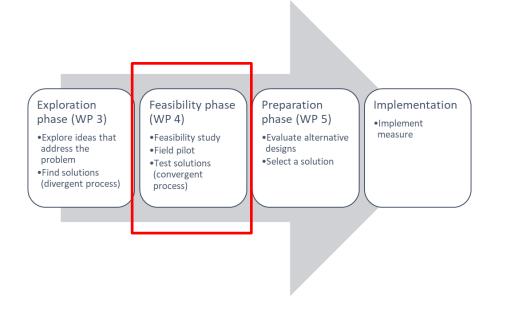
SedNet 2021 Conference Presentation



Flanders State of the Art

... as part of IMMERSE

IMplementing MEasuRes for Sustainable Estuaries



More information ?

https://northsearegion.eu/immerse/ North Sea Region Estuary Managers group







Scheldt Estuary

Western Scheldt – Lower Sea Scheldt



Overzichtskaart Schelde-estuarium



Interreg North Sea Region IMMERSE



IMMERSE report - Systeemanalyse Schelde Estuarium Illustrations by A. Zuidhof (rvo.nl)

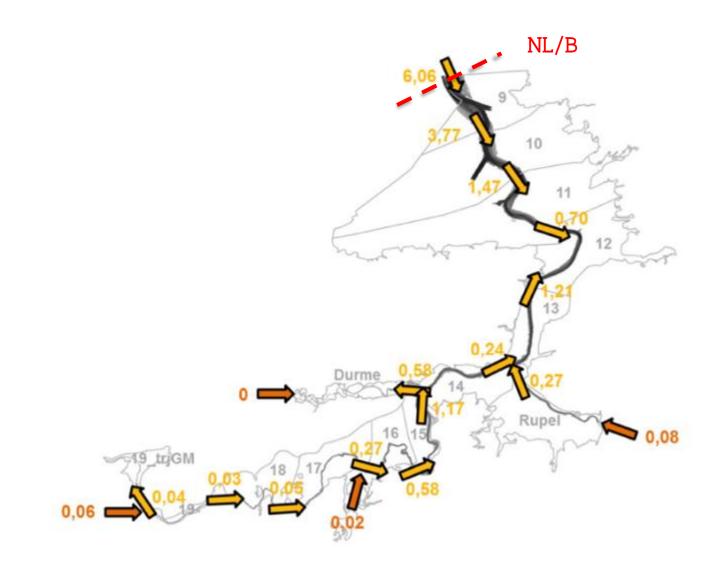
Sediment disbalance ?

Cross-border sediment relocation pilot as a mitigation measure





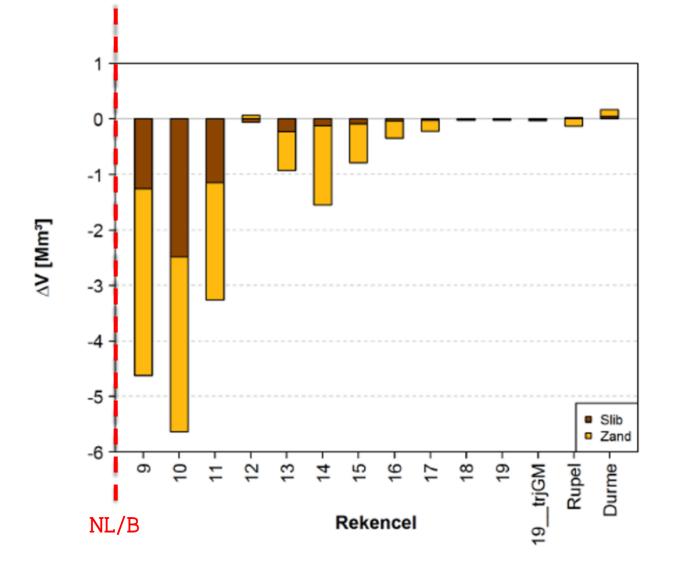
4







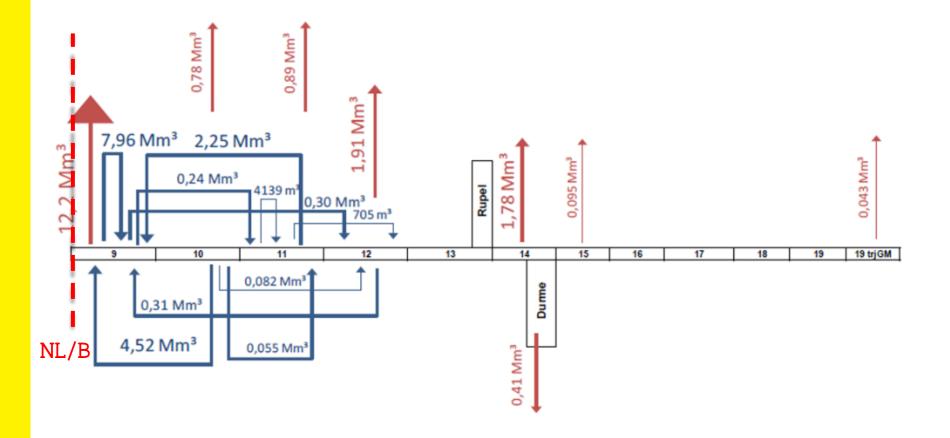
WL (2017) Sediment balance Sea Scheldt







WL (2017) Sediment balance Sea Scheldt

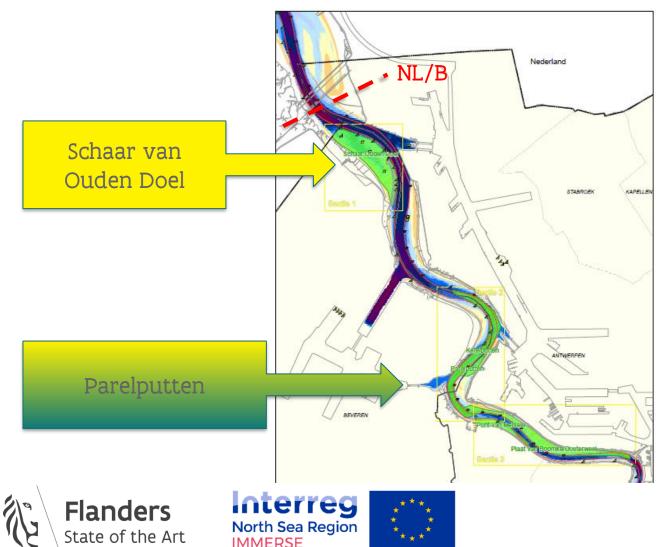






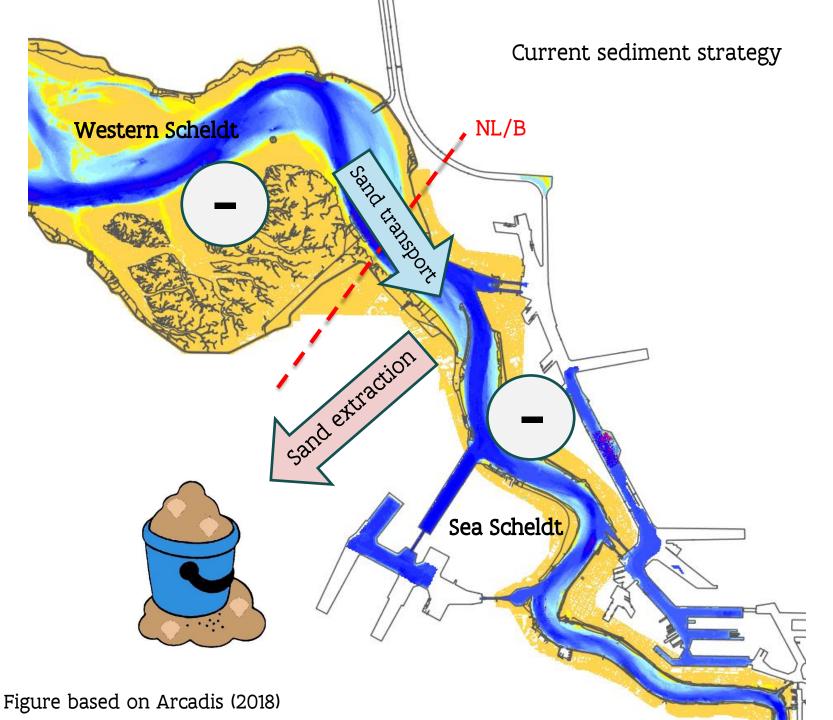
WL (2017) Sediment balance Sea Scheldt

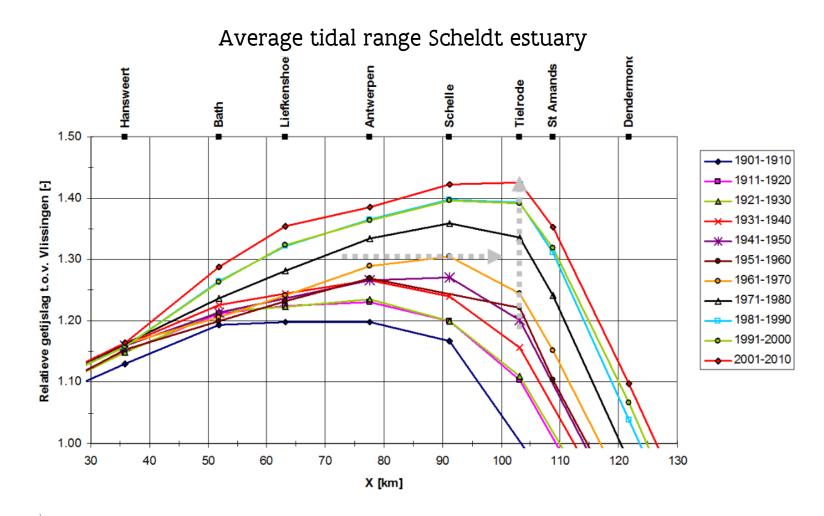
Current relocation sites (sand)



European Regional Development Fund EUROPEAN UNION

8

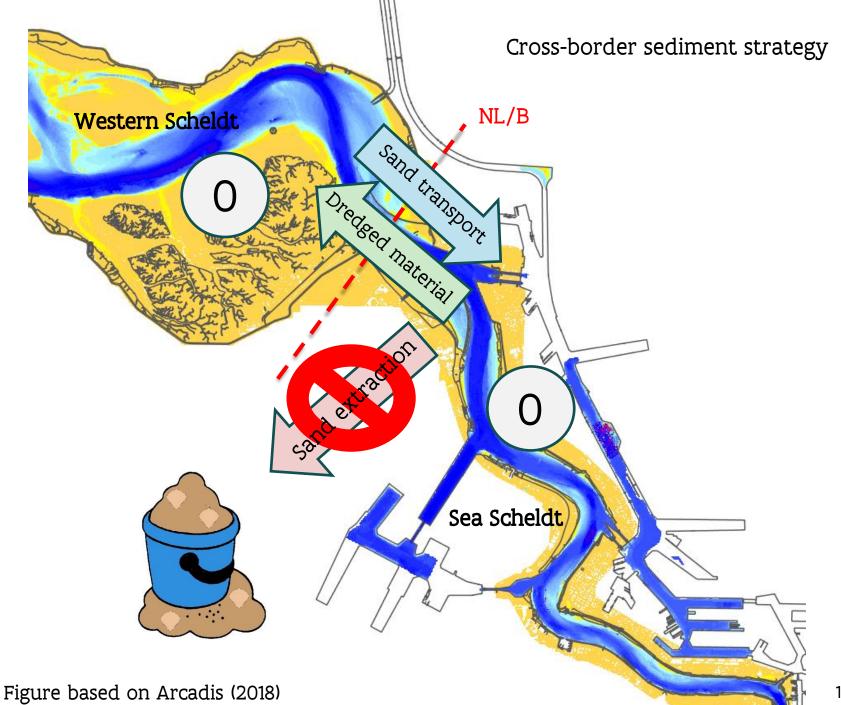












Cross-border sediment relocation

Flemish Lower Sea Scheldt \rightarrow Dutch Western Scheldt





... however ...







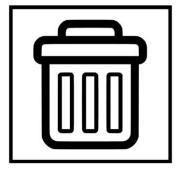
Regulations

• Dutch legislations

- Water Law
- Law Nature Protection

• European legislation – Waste Shipment Regulation











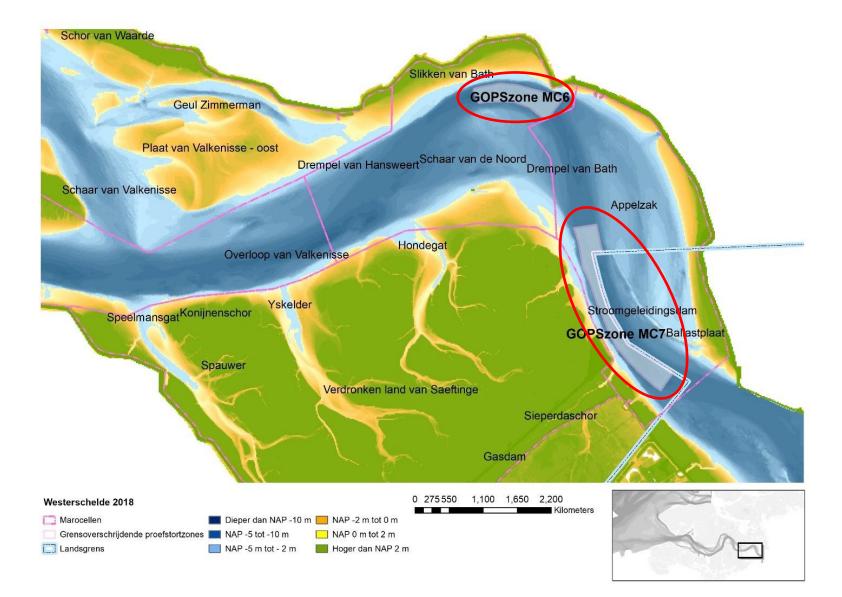
What are we doing now ?

- **Regular maintenance dredging activities** •
- **Relocation to zone GOPS MC7** •
- **Extensive monitoring activities** •
- Additional testing of dredging zones •















What are we doing now ?

Date	# Trips	Dredging zone	Volume (m ³)
20/01/2021	1	Drempel van Krankeloon	6.219
5-6/02/2021	10	Drempel van Lillo	24.306
18/03/2021	4	Drempel van Krankeloon	18.961
21/03/2021	2	Drempel van de Parel	12.241
11-12/04/2021	6	Ketelplaat	28.117
14/04/2021	4	Drempel van Zandvliet	18.875
	27		108.719







Looking into the future

- Continue for GOPS MC7
- Start with GOPS MC6
- Analyse monitoring results

How to include cross-border sediment relocation in the future sediment strategy ?









Thank you!

Eline Van Malderen eline.vanmalderen@mow.vlaanderen.be

Interreg North Sea Region project IMMERSE https://northsearegion.eu/immerse/

