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Current Available Reserves

After Introduction of the reference surface in 2021:

30% of the total surface of extraction areas

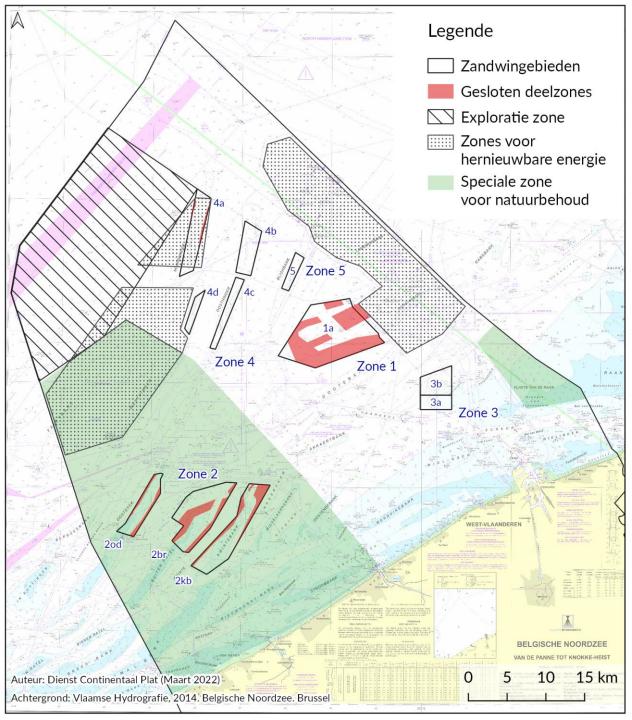
closed to avoid impact

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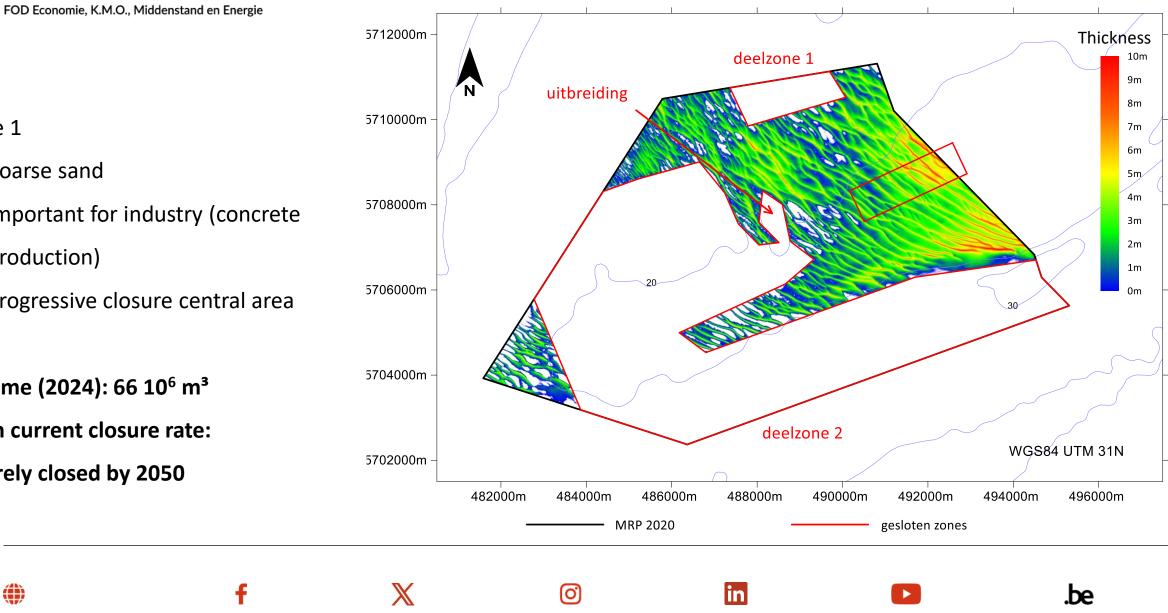
Evolution areas open for extraction

■ 2020 ■ 2021 ■ 2022 ■ 2023 ■ 2024 ■ 2025





Current Available Reserves



Zone 1

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- Coarse sand •
- Important for industry (concrete ۰ production)
- Progressive closure central area •

Volume (2024): 66 10⁶ m³ With current closure rate: entirely closed by 2050



Zone 2

- Medium Sand •
- Limited extraction
- Inside Natura 2000 area
- No large scale extraction

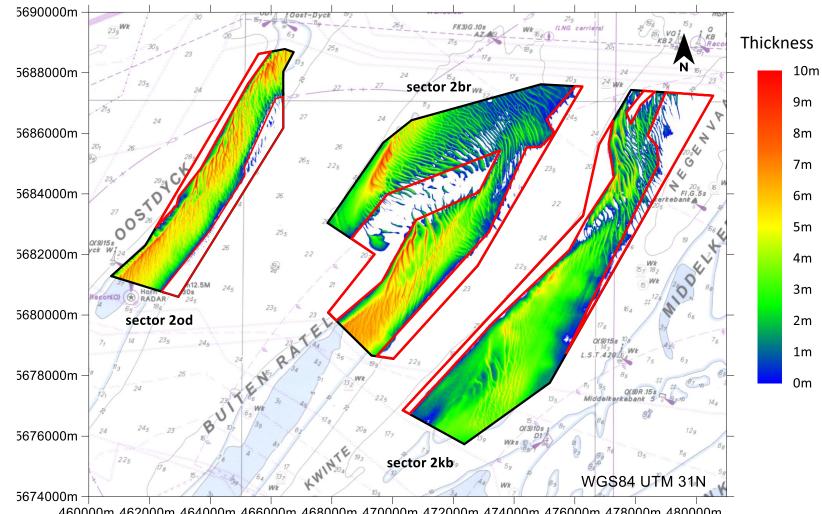
Volume (2024): 177 10⁶ m³ With current rate:

Availability until 2125



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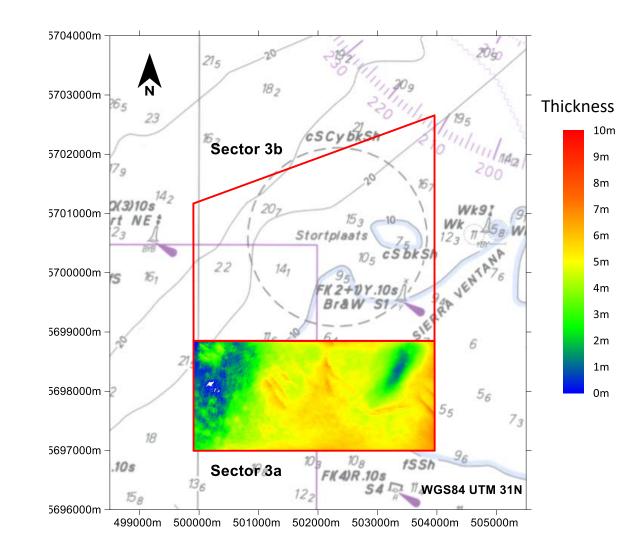
Current Available Reserves



Zone 3

- Fine Sand
- Southern zone extraction
- Northern zone dumping
- Renewable character -> alternation

Volume (2024): 32 10⁶ m³



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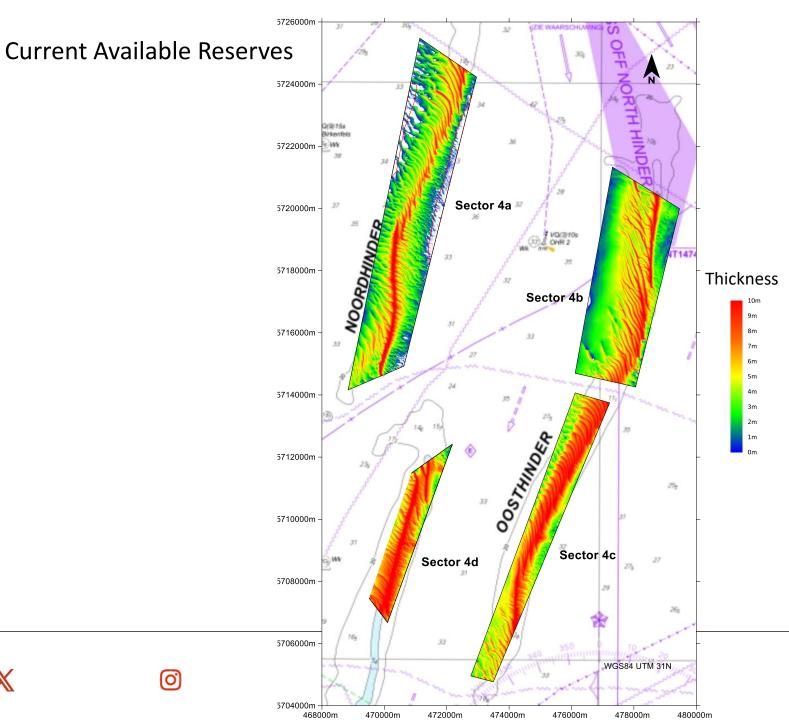
Zone 4

- Coarse / medium sand •
- Important for beach supplementation •
- Zone 4a: closure expected end 2025 •

Volume (2024):

- 4a: 68 10⁶ m³ -> closed by end 2025 •
- 4b: 62 10⁶ m³ •
- 4c: 59 10⁶ m³ ٠
- 4d: 34 10⁶ m³ •

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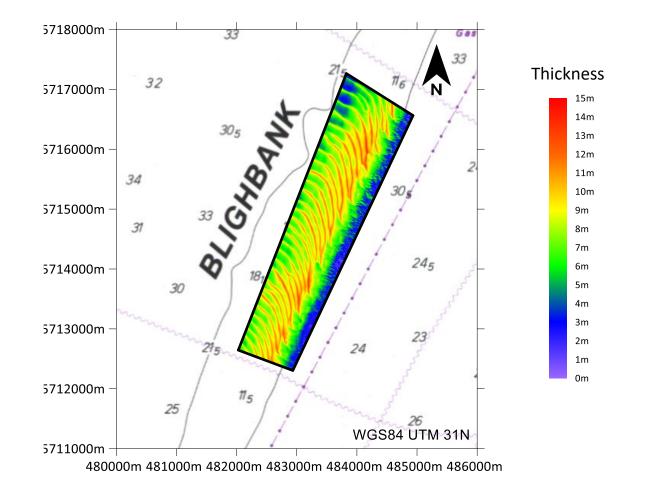
Current Available Reserves

FOD Economie, K.M.O., Middenstand en Energie

Zone 5

- Coarse / medium sand
- Limited extraction up to date

Volume (2024): 41 10⁶ m³



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Current Available Reserves

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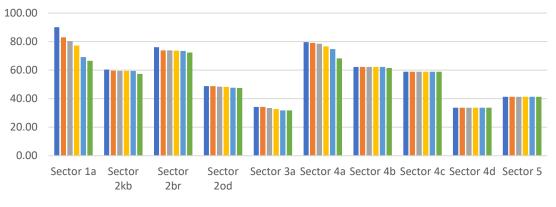
FOD Economie, K.M.O., Middenstand en Energie

Zone	Volume available in 2024 (10 ⁶ m ³)
Zone 1	66 -> closed by 2050
Zone 2	176
Zone 3	32 (only 3b)
Zone 4	222 -> 154 in 2026
Zone 5	41

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Evolution available volume concession areas



■ voor 2021 ■ 2021 ■ 2022 ■ 2023 ■ 2024 ■ 2025

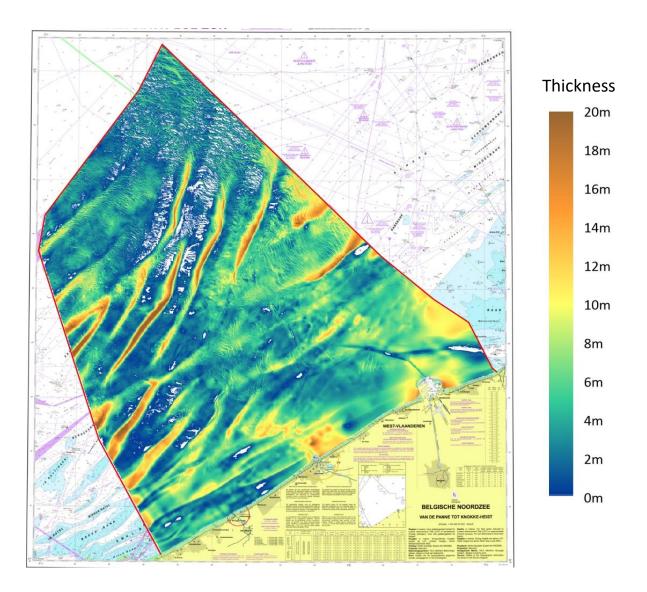
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Total 538 -> 470 in 2026



Holocene

Volume: 16.5 10⁹ m³



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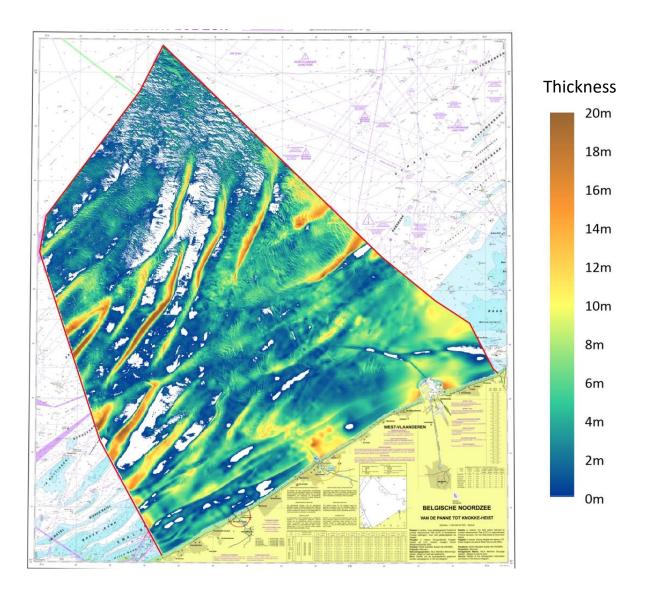
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Holocene + 1m



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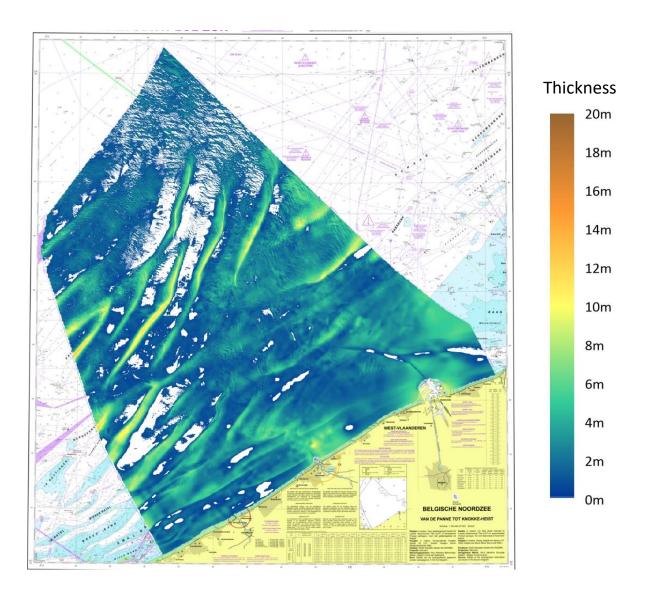
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Holocene + 1m + 50%



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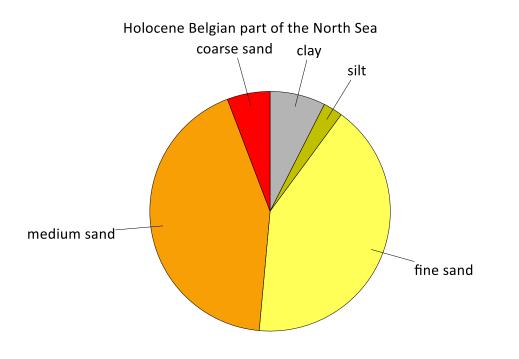
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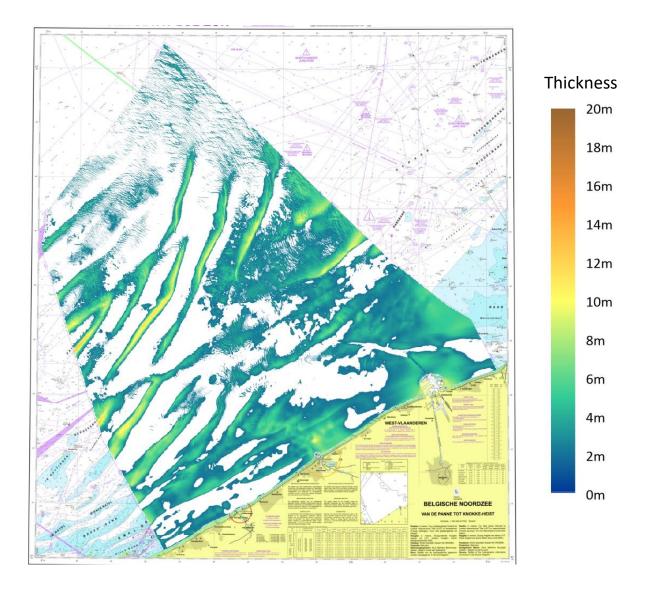




Minimum 2m available

Volume: 6.5 10⁹ m³





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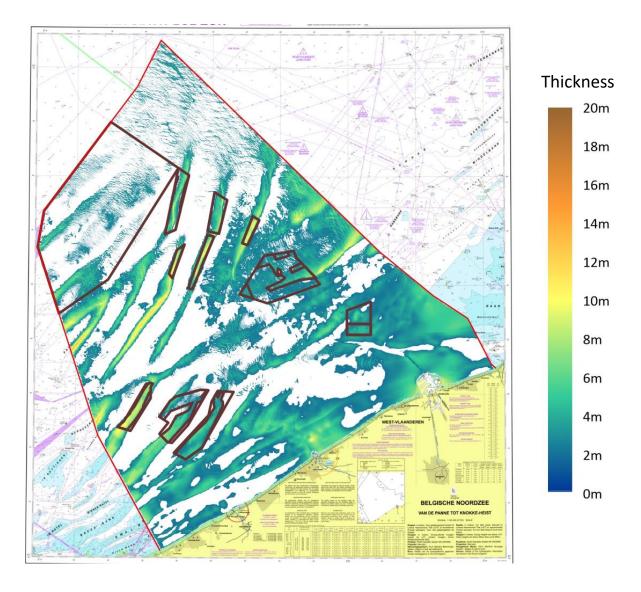
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Controlezones + exploratie



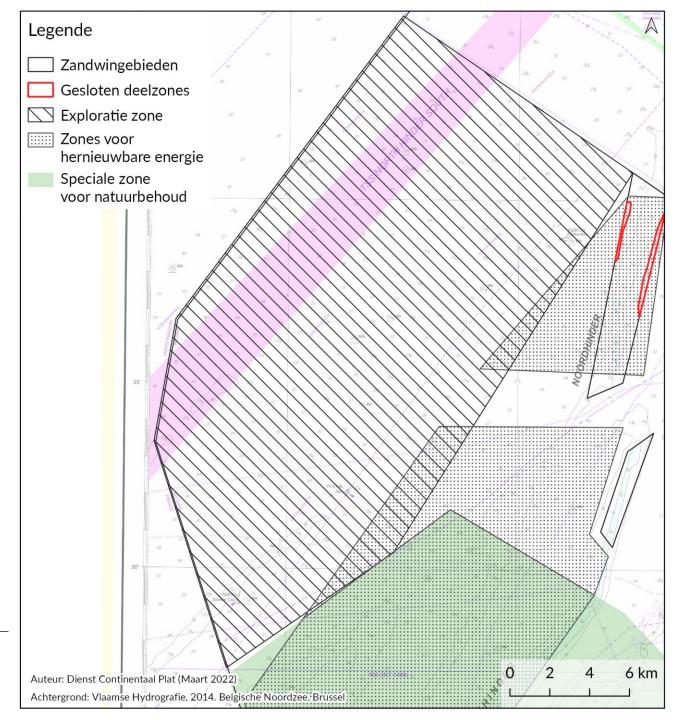
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Exploration Zone



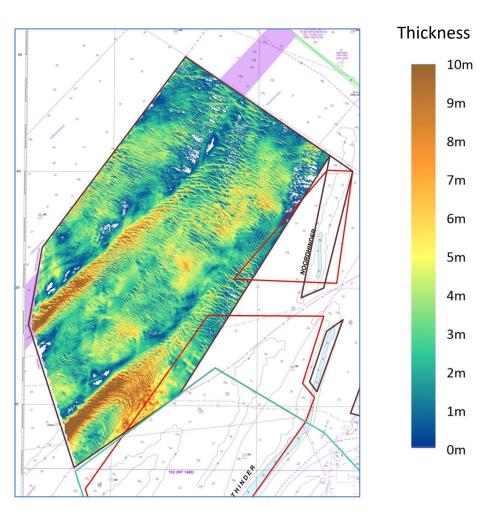




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Holocene Volume: 1.3 10⁹ m³



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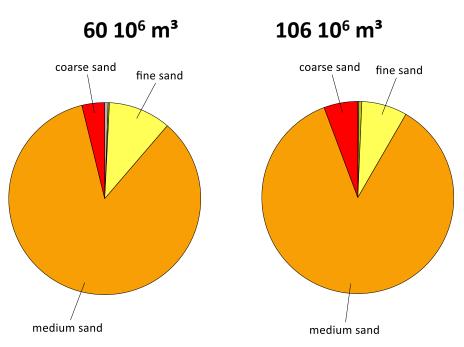
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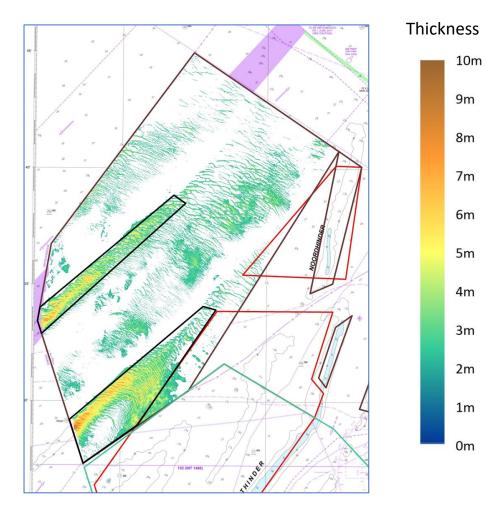




Minimum 2m available

Volume







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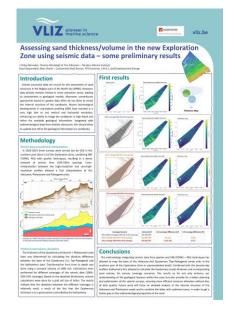
Cartography project together with VLIZ:

High resolution pseudo 3D of available

sand resources

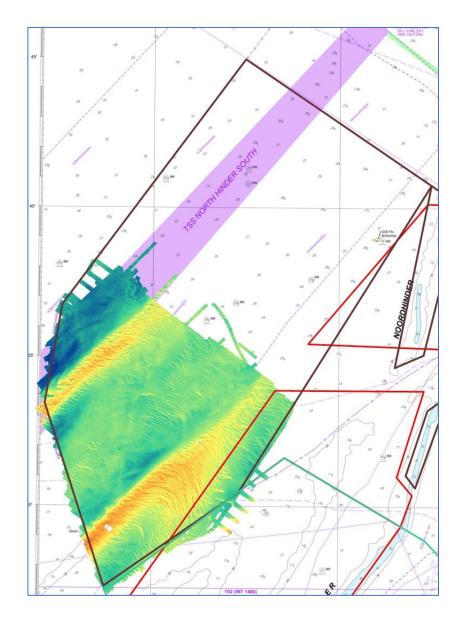
- MBES
- Sparker
- Sub-bottom profiling
- Vibrocoring

-> See poster



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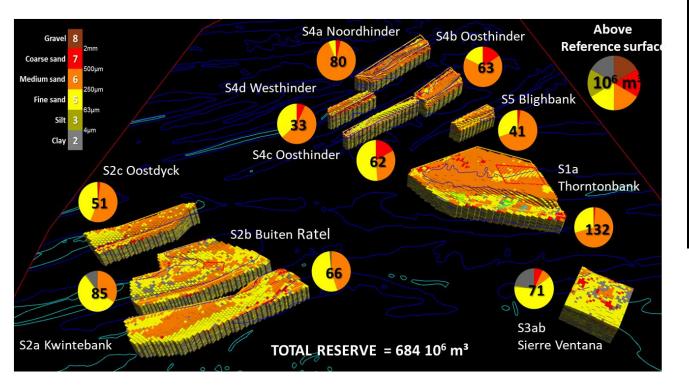
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Base for evaluation of sediment quality:



The Belgian Continental Shelf case Vasileios Hademenos, Lars Kint, Tine Missiaen, Jan Stafleu, Vera Van Lancker TILES GHENT **THO** innovation for life UNIVERSITY museum Isatis - 3D Viewer

3D voxel modelling of the marine subsurface:

Need for maintenance, improvements and accessibility

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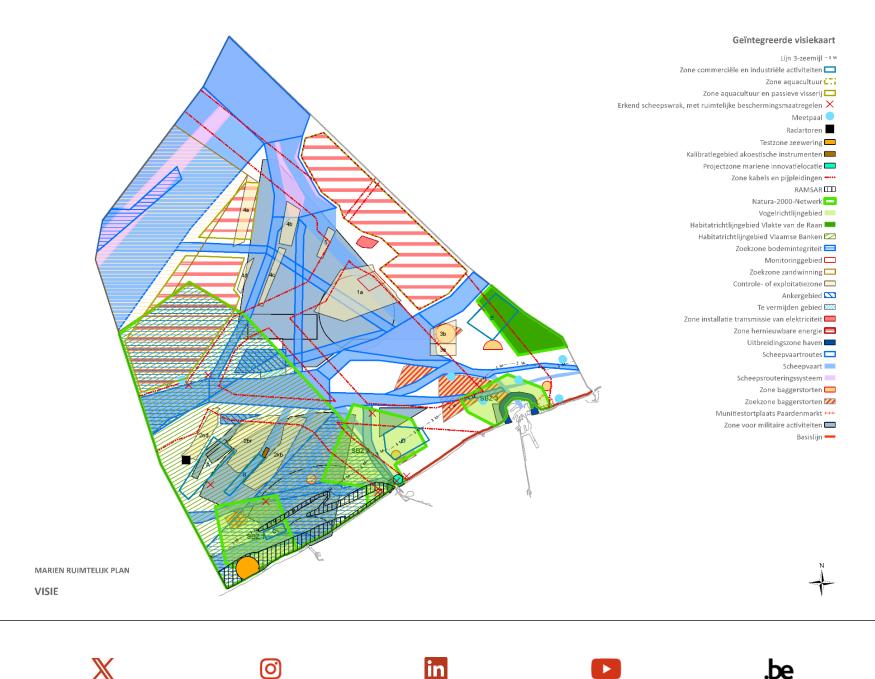






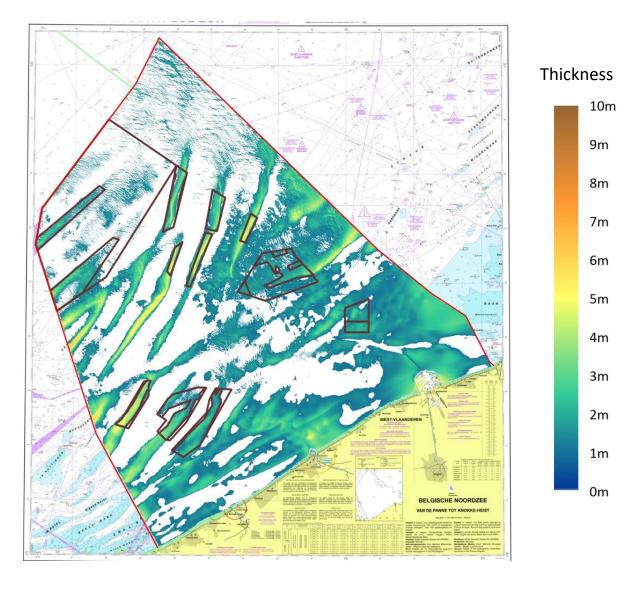
Currently non available sand

reserves?





Holocene Sand



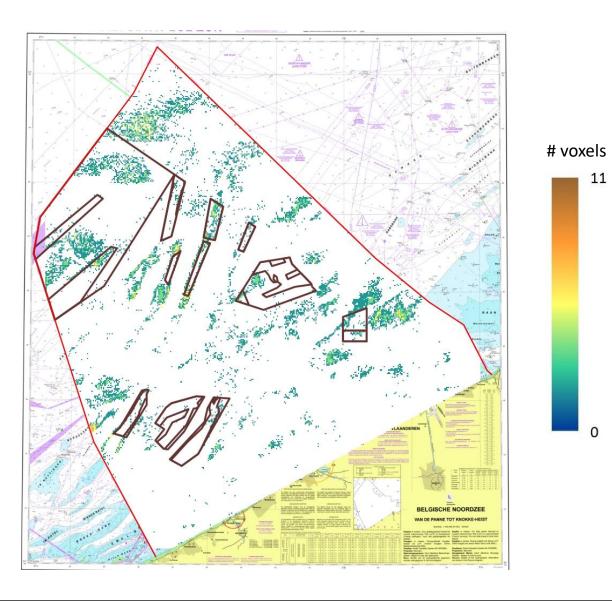
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Coarse Sand



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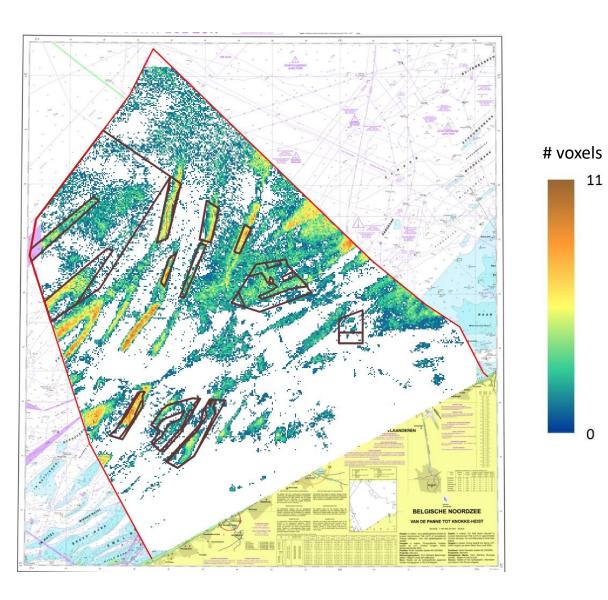


Medium Sand

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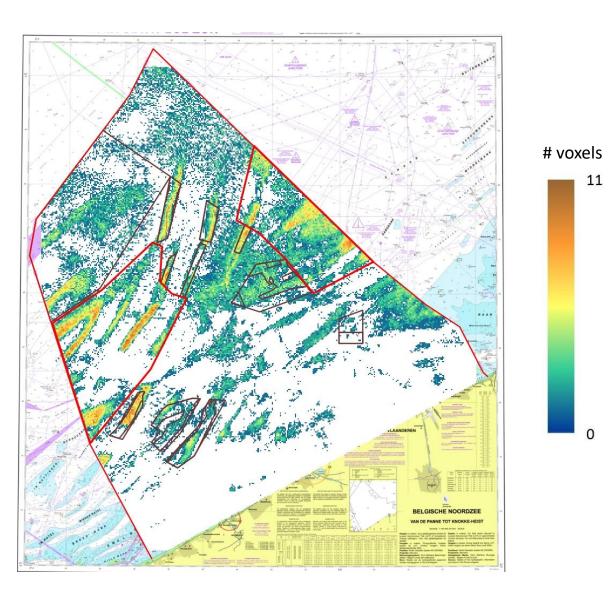


Medium Sand

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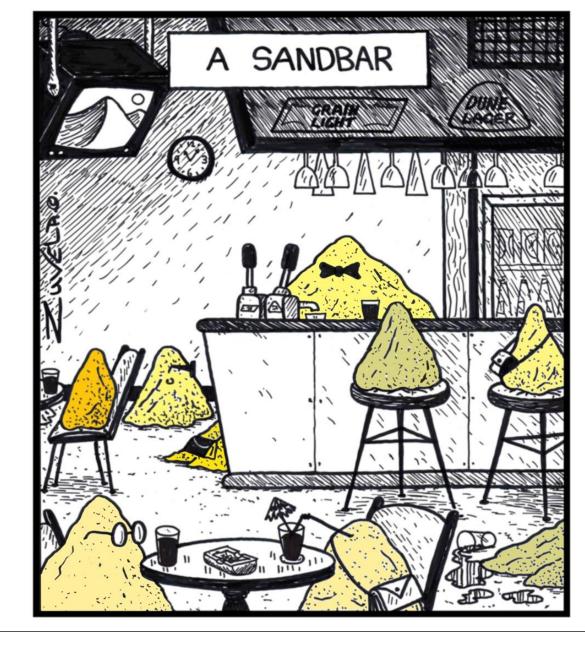


For extraction as usual:

- → No medium term problems with availability
- → Alternative for near closure of zone 1?

For extraction of high volumes in near and distant future:

- → Limited volumes available
- ➔ Important holocene reserves currently not accessible -> conditions for repurposing



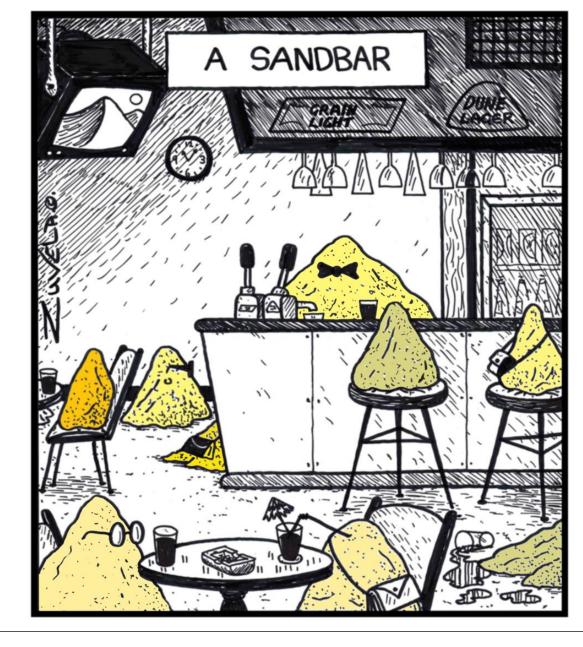


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Questions?



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