

COLLABORATIVE LAND-SEA INTEGRATION PLATFORM

DAY 2 – Conference

Systemic views on coastal-rural development







COLLABORATIVE LAND-SEA INTEGRATION PLATFORM

Multi-Actor Lab 1 – Belgian Coastal Zone

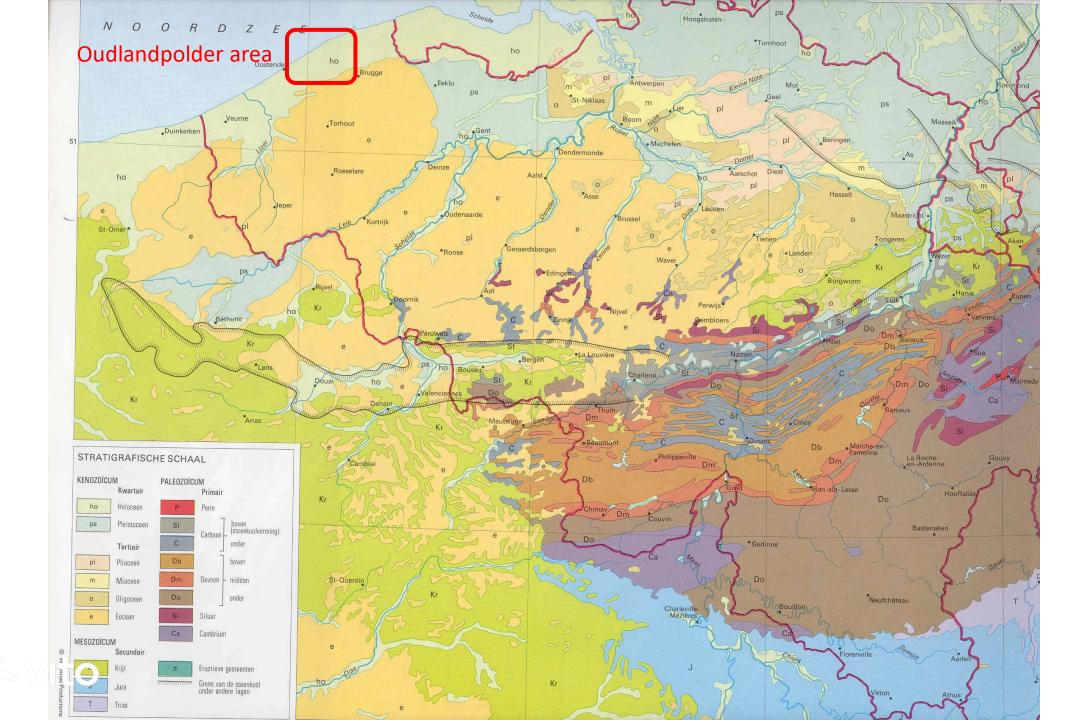
Bastiaan Notebaert

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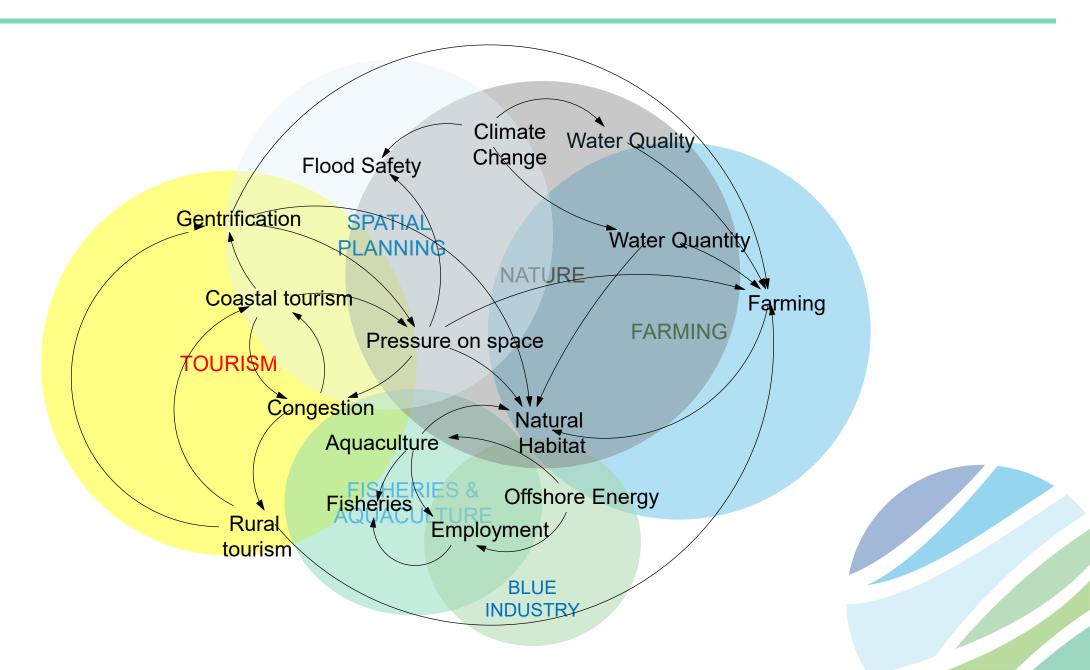




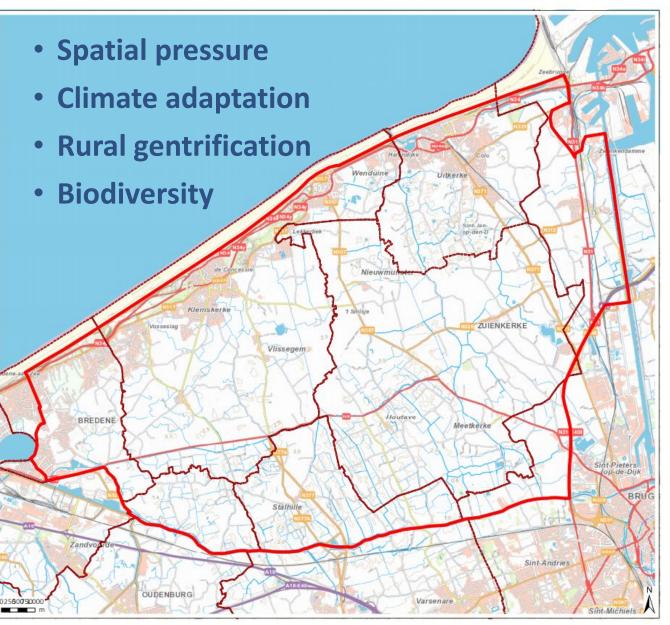




LAND-SEA INTERACTIONS (QUALITATIVE ANALYSIS)



COASTAL-RURAL SCOPE & CHALLENGES LANDINRICHTING Oudlandpolder



Onderzoek Opportuniteit en Haalbaarheid

Perimeter-Basis

Legend

Perimeter_Ruw

oron: bronvermelding GIS-laaj bronvermelding GIS-laaj

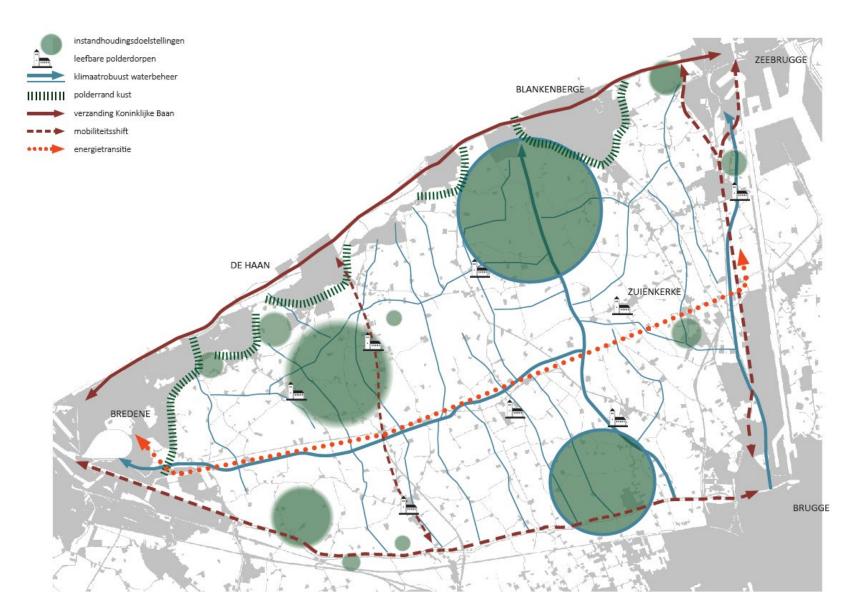
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Vlaamse overheid



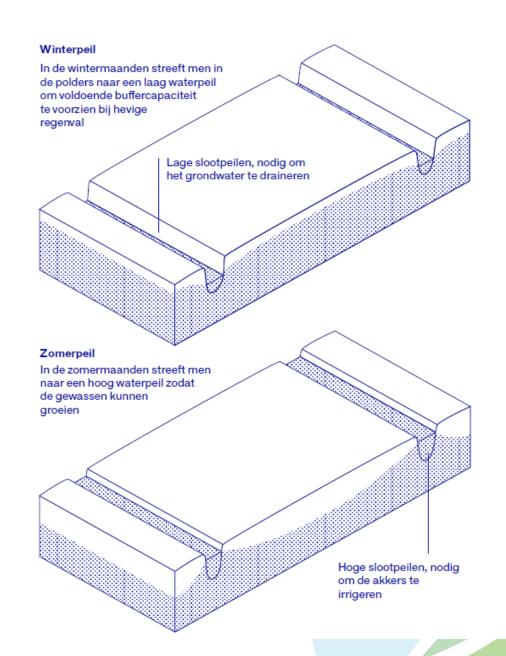
- Implementation of Framework Agreement
 - Climate robust water management
 - Delineation agriculture and nature
 - Ensure development
 - Realize environmental preservation objectives
- Improve coastal environmental quality and living quality of polder hamlets
- Maintain and valorize polder heritage
- Align with larger infrastructure development



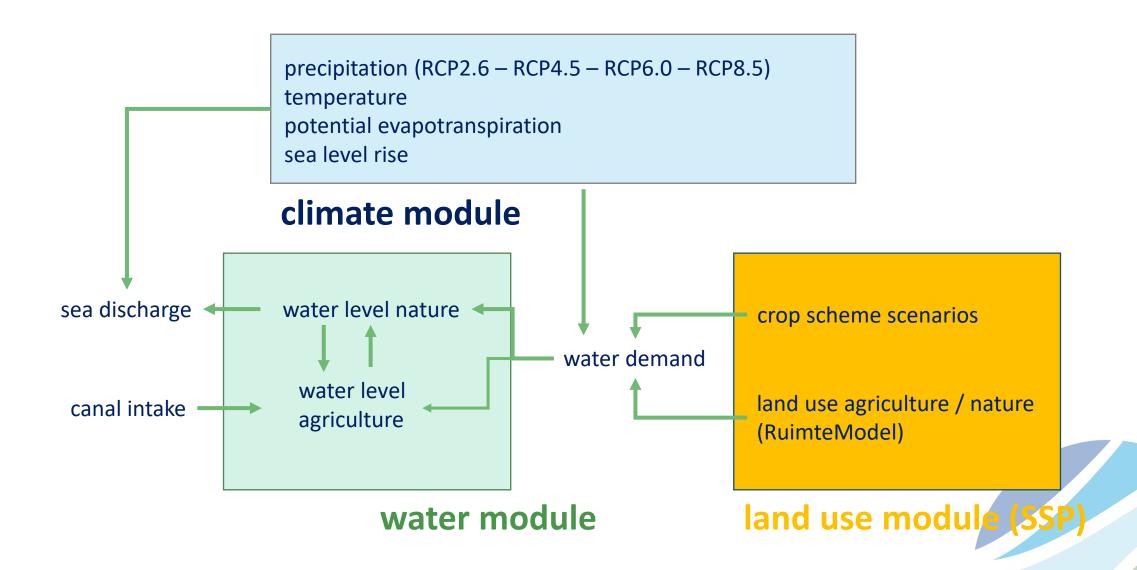


Water management

- "Peilbeheer" = water level management
 - Winter: low level = draining for flood prevention
 - Spring: lowest level = draining for heavy machines on land
 - Summer: high level = ditches feed water to the land
 - Gravitational discharge to sea
 - Intake from canals and domestic treatment plants









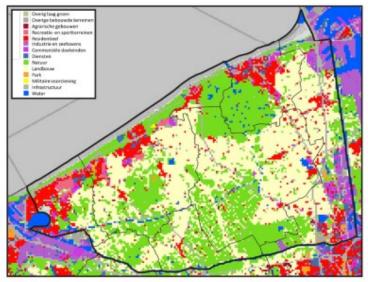


Figure 6. Spatial use in the Oudland Polder in 2050 in accordance with the Flanders Spatial Model in the 'anti-urban sprawl' land use scenario.

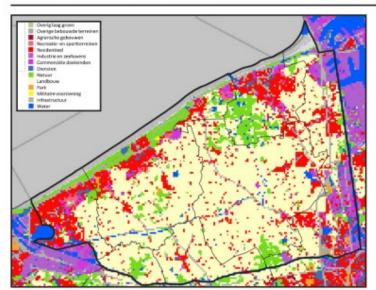


Figure 8. Spatial use in the Oudland Polder in 2050 in accordance with the Flanders Spatial Model in the 'growth as usual' land use scenario.

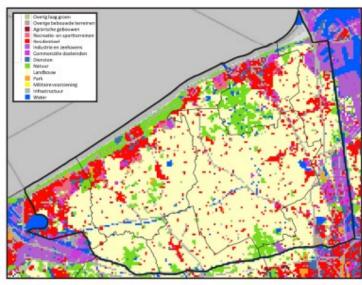


Figure 7. Spatial use in the Oudland Polder in 2050 in accordance with the Flanders Spatial Model in the 'business as usual' land use scenario.

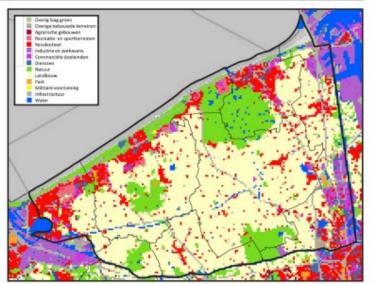
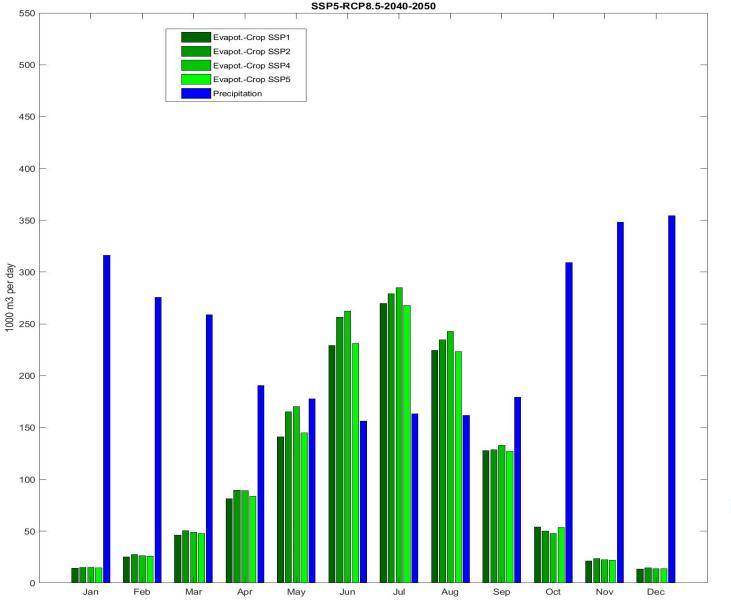


Figure 9. Spatial use in the Oudland Polder in 2050 in accordance with the Flanders Spatial Model in the 'Flanders Spatial Policy Plan' land use scenario.





D'Haese et al., 2022



1. Maximum focus on maintenance and restoration of high quality open space

- Safeguard all remaining open spaces.
- Infill development of existing centres
- Make use of the strong and shared societal support for preserving the traditional polder landscape





2. Reserve space for water (buffering, drought)

- Provide sufficient space (in the soil) for retaining rainwater in the polder for a long time
- Take into account integrated water management to plan agriculture and nature areas





3. Reserve room for ecosystem recovery

- Plan nature and agriculture from core areas in an integrated manner
- Convert all bird and habitat guideline areas into natural areas
- Calculations of ecosystem services of different nature areas

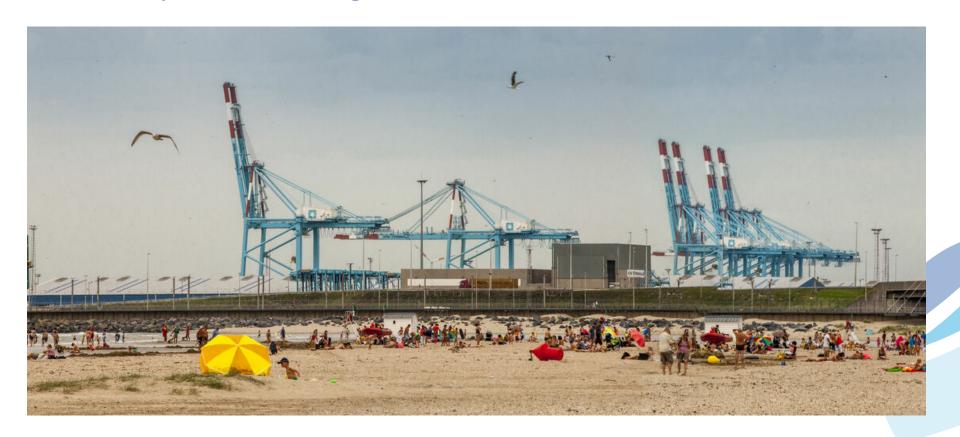






4. Provide sufficient buffering for logistical/port activities to protect hamlets

- Solution for noise
- Buffer strips around villages



















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