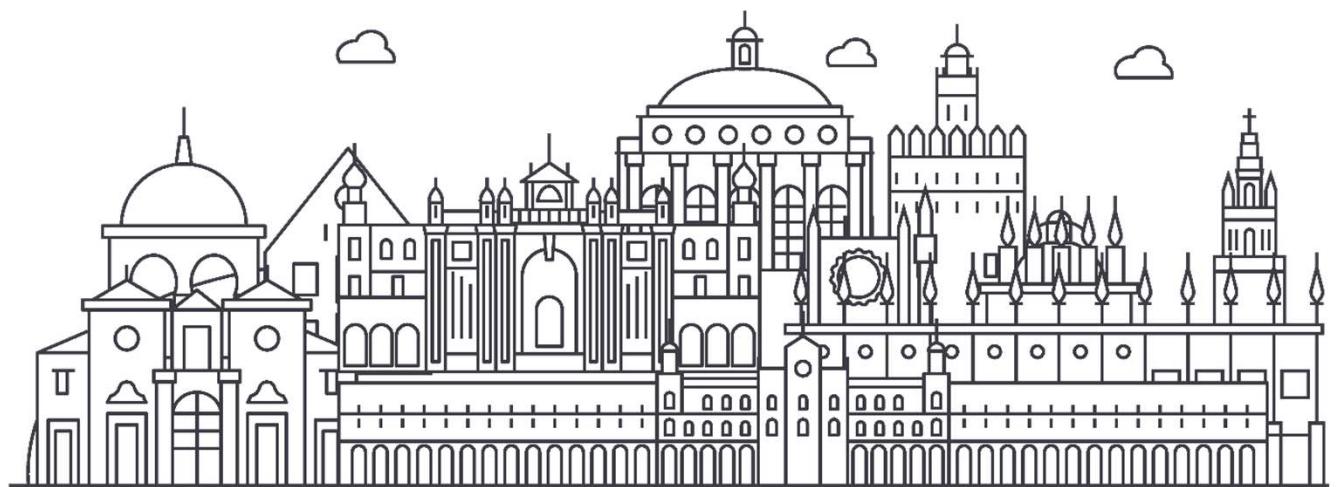




The LifeWatch ERIC Biodiversity & Ecosystem eScience Conference

Seville
22-24/05/23



Threats and challenges to biodiversity and ecosystem conservation from an eScience perspective



UNIÓN EUROPEA

Fondo Europeo de Desarrollo Regional
Una manera de hacer Europa



Seville, 22-24 May 2023

*Threats and challenges to biodiversity and ecosystem
conservation from an eScience perspective*



Towards digital twin oriented Virtual Research Environments

Peter van Tienderen

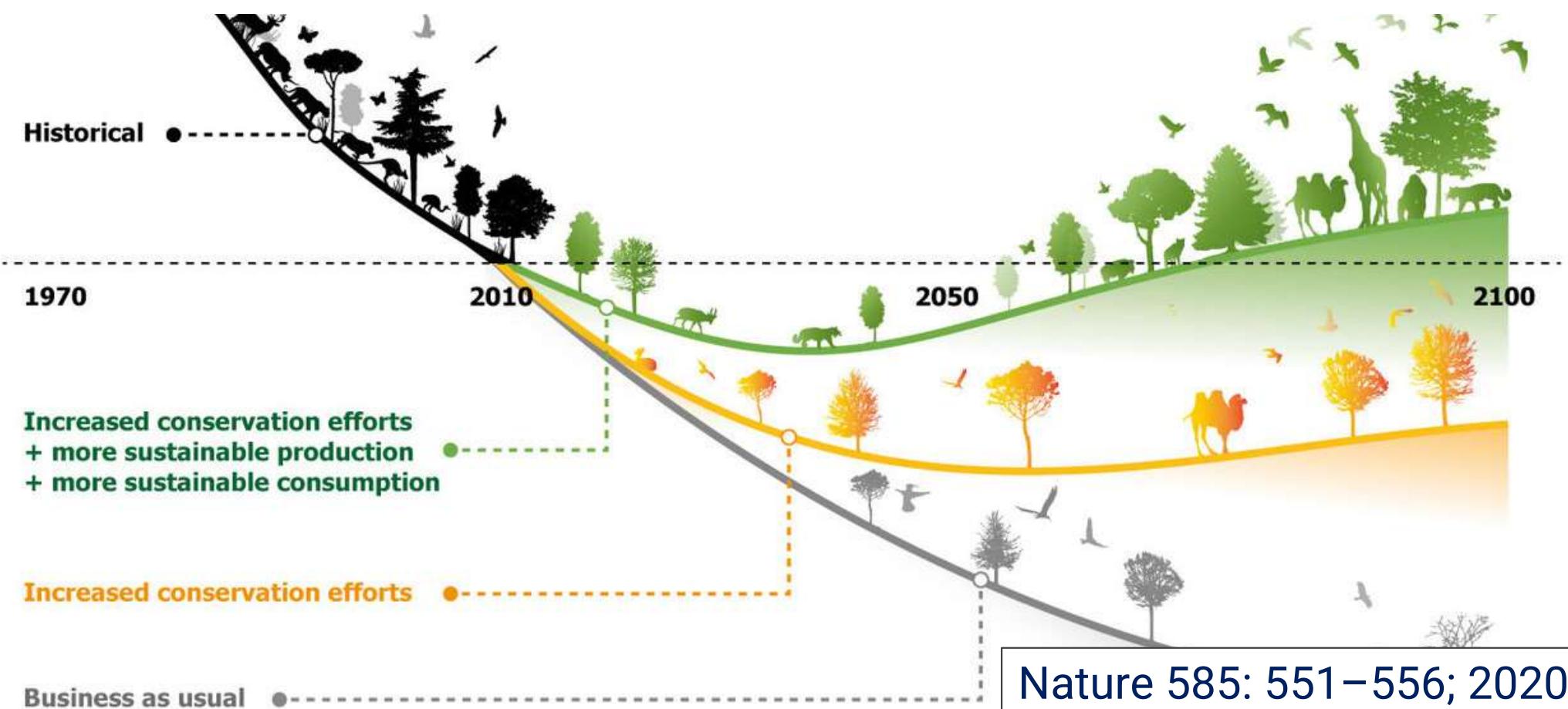
LifeWatch Netherlands
University of Amsterdam



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Bending the curve of biodiversity loss



Understanding ecosystem dynamics



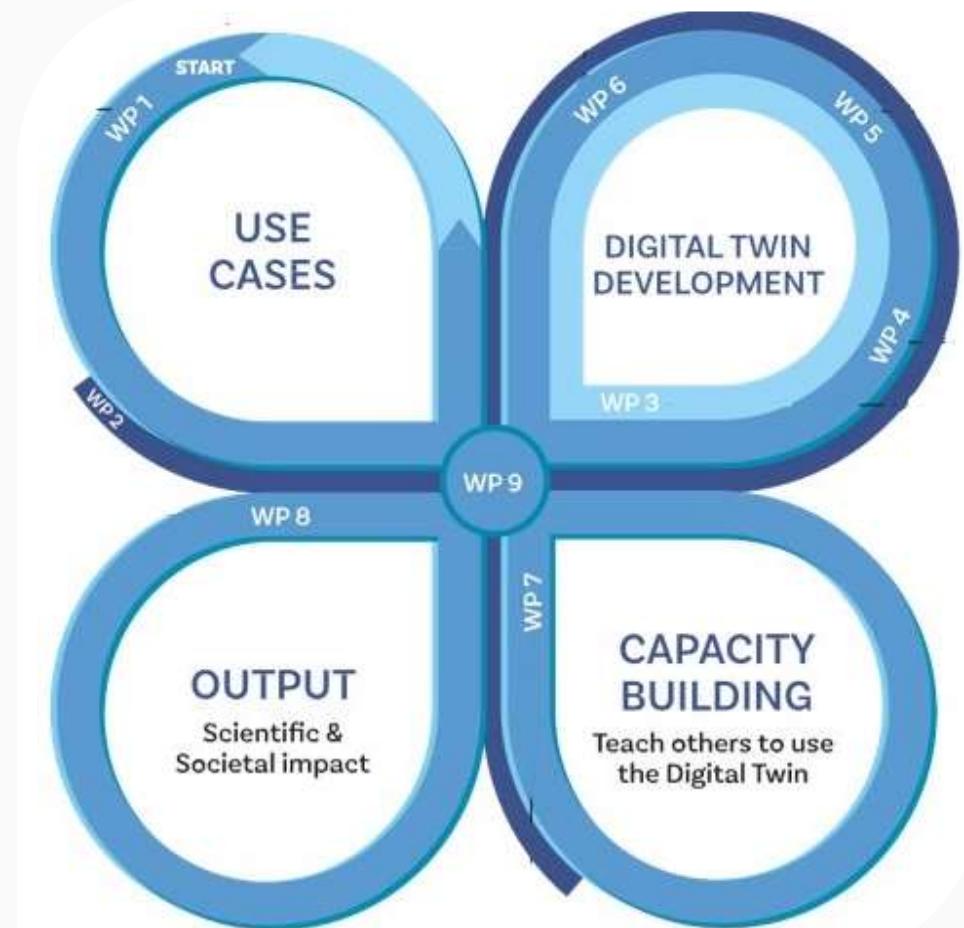
Destination Earth



Analyse the past, monitor the present, predict the future

Digital twin for predictive ecology

- ✓ Location specific
- ✓ Biotic/Abiotic/Societal data
- ✓ Interaction models
- ✓ Common VRE architecture
- ✓ Scenario deployment
- ✓ Stakeholder involvement



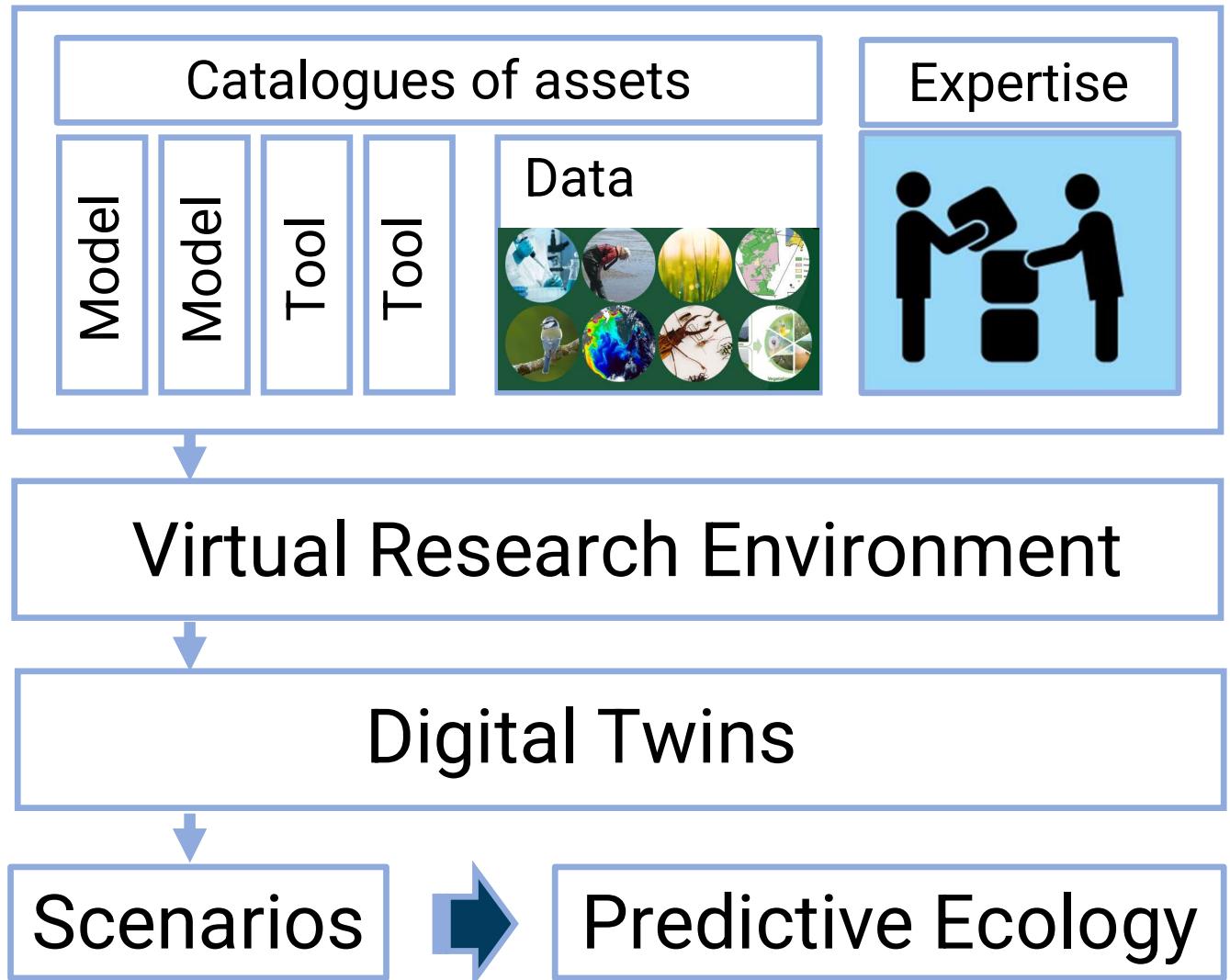


A wide-angle aerial photograph of the Wadden Sea coastline. The foreground shows a flat, wetland area with numerous small, rectangular agricultural plots. A long, narrow inlet or river mouth extends from the bottom left towards the horizon. The sky is blue with scattered white clouds. Overlaid on the right side of the image is a map of the Netherlands and parts of Germany and Denmark. The map is mostly dark blue, with the coastal areas highlighted in white. A large white circle covers most of the map, and a smaller white circle with a black border is positioned in the upper right corner of the map area.

Wadden Sea



Veluwe





NEMNET
National Environmental
Monitoring Network

Ministry of Health, Welfare and Sport



Prof. dr.
Marcel
Visser



Prof. dr. ir.
Katja
Philippart



Dr.
Zhiming
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Dr.
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Prof. dr.
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National Institute for Public Health
and the Environment
Ministry of Health, Welfare and Sport

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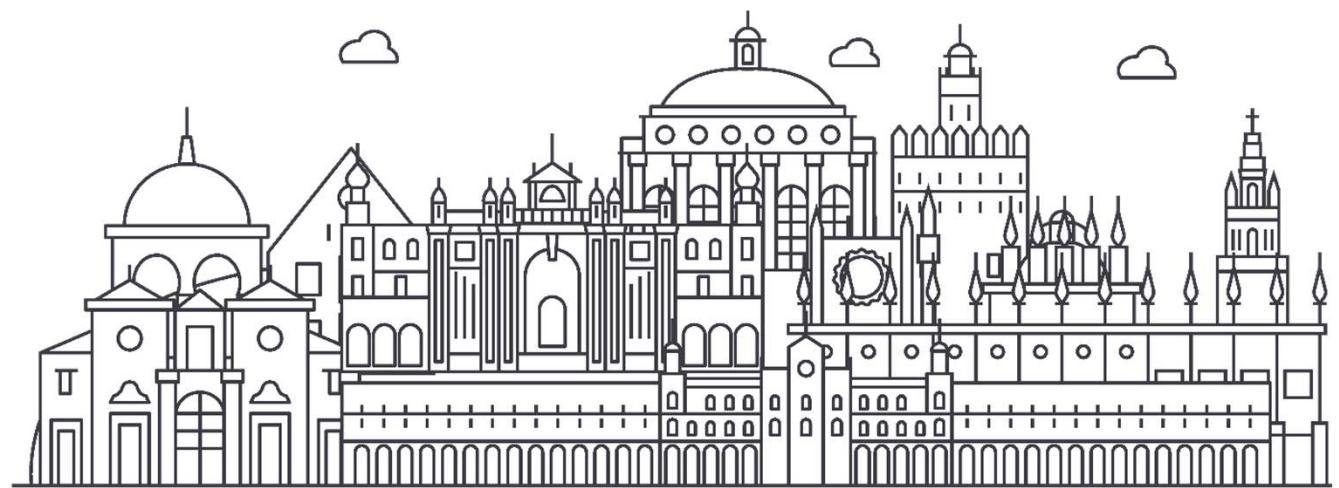


university of
groningen



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Thank you! | Website: LTER-LIFE.NL

