



The LifeWatch ERIC Biodiversity  
& Ecosystem eScience Conference  
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# From bird tracking data to decision support:

co-developing the Waakvogels Dashboard for conservation and  
environmental management

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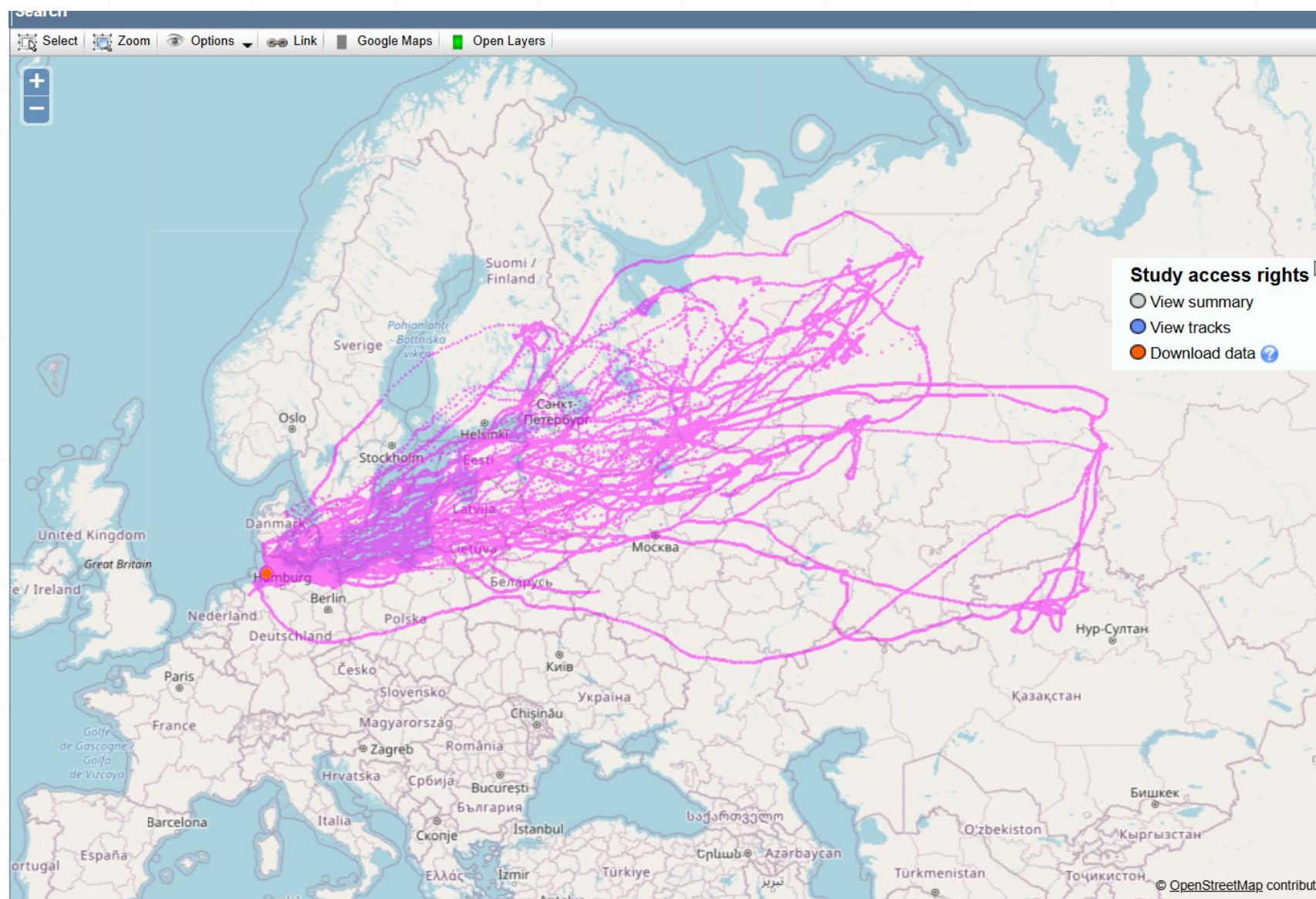
09 July 2026



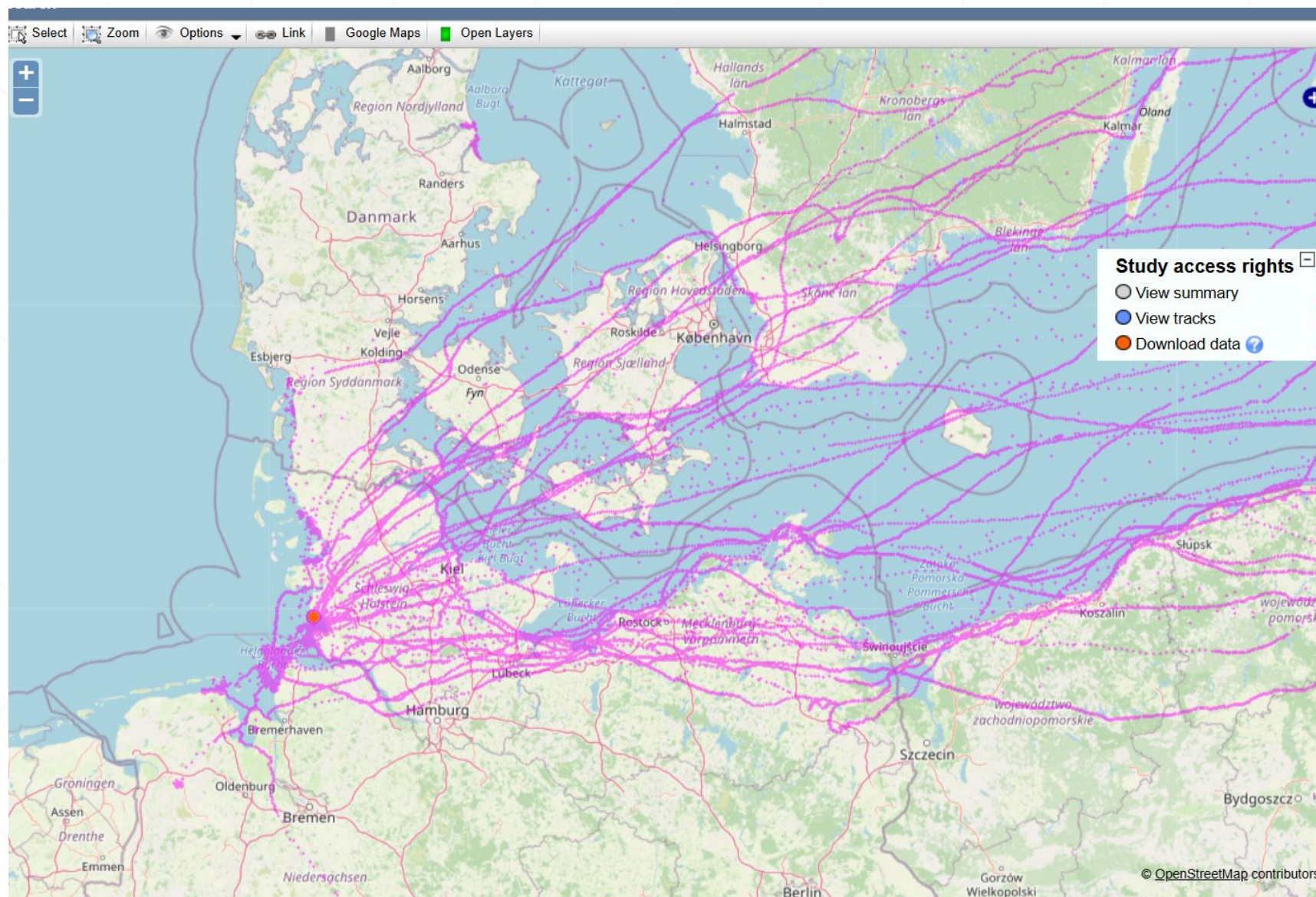
# Animals are the best experts on their environment.

- Today, millions of individual animals are roaming the globe wearing transmitting devices
- Following their movements - continuously, remotely and in near real time – we can get information for impact assessment, nature management and policies





# Thousands of individual animal tracks on Movebank



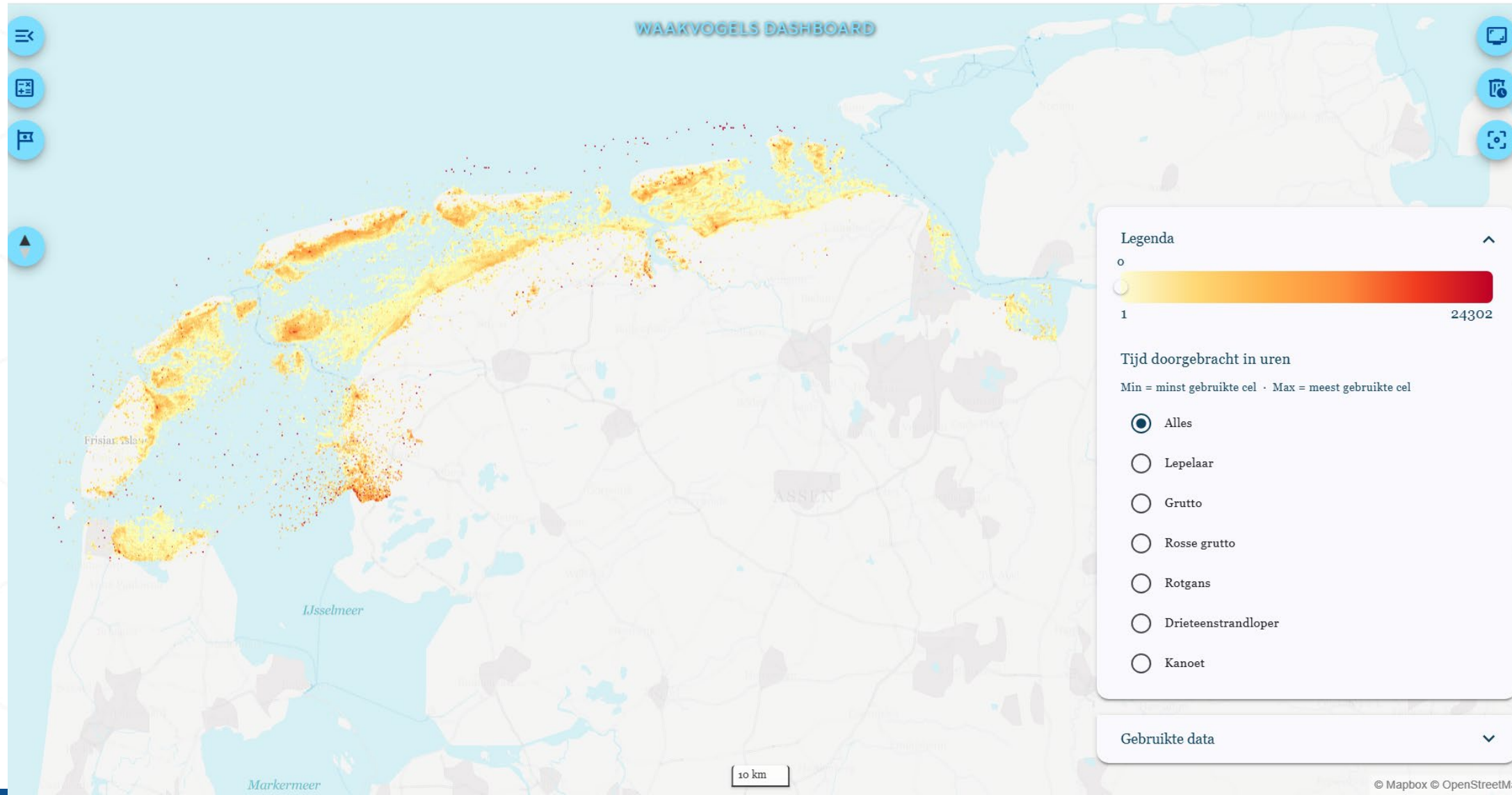
# Actualization of telemetry data

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# WAAK<sup>Y</sup>OGELS

science and art for the management of the Wadden Sea area

Waakvogels wordt uitgevoerd door:

**BIRDEYES**

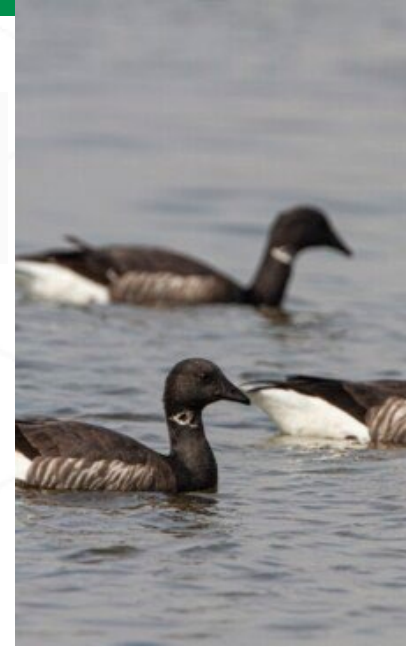


Dit project is gefinancierd door NextGenerationEU:

Waakvogels is mogelijk gemaakt door:



# WAAK<sup>Y</sup>OGELS

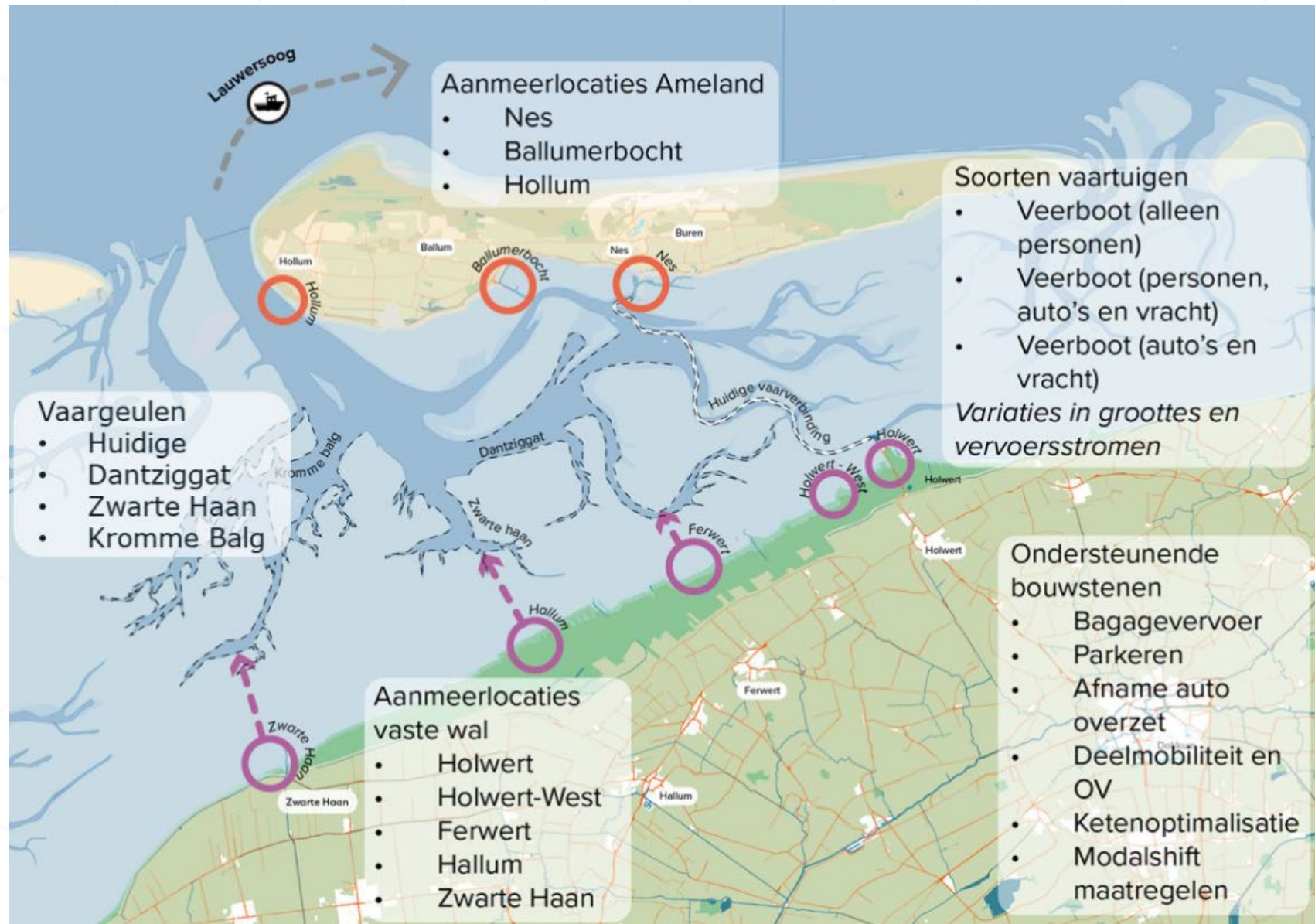


Living sentinels

Fotos': Jan van de Kam



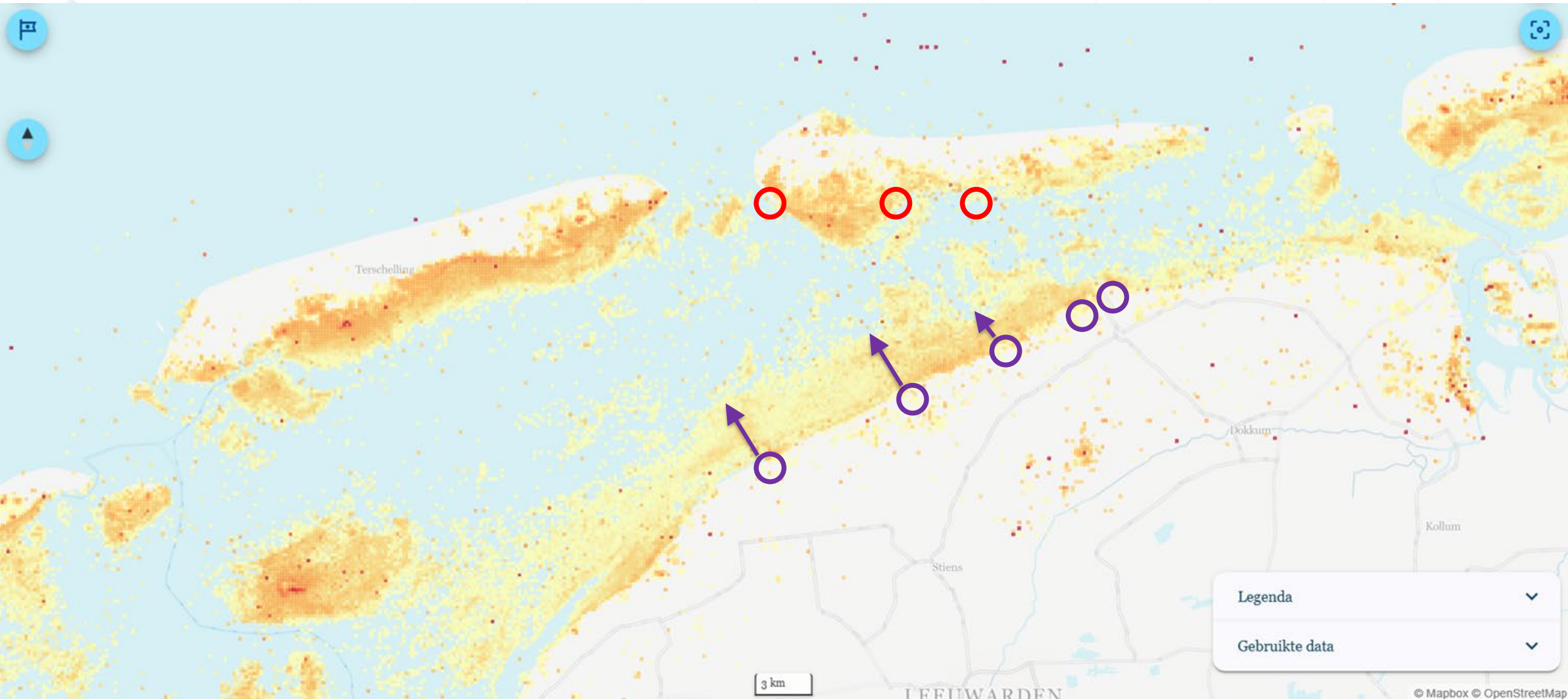
# Re-planning of fairway to Ameland island



# Re-planning of fairway to Ameland island



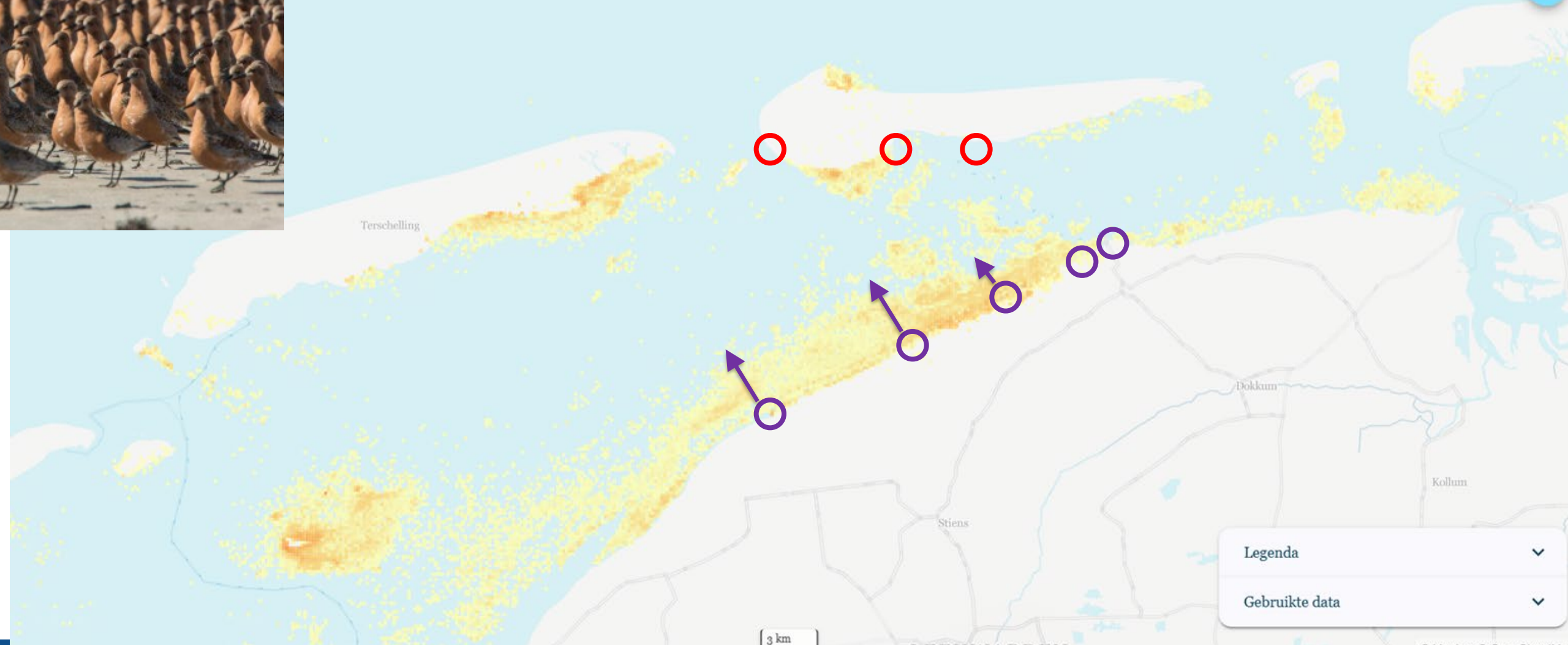
# Re-planning of fairway to Ameland island



# Distribution of spoonbills



# Distribution of red knots



# Next step:

- Eliminate biases
- Map behaviour (use accelerometry data)
- Use environmental information (prey/predator distribution maps, tidal model, ecotope maps, human activities and infrastructures)

# Foraging intensity of brent geese



# Information on:

- Key foraging, roosting, breeding areas;
- Quality of foraging areas (foraging success);
- Pressures (disturbance, low food availability, disease outbreaks)

# Used for:

- Impact assessment (potential overlap of planned activity with key resource areas, cumulative impact on top of existing pressures);
- Evidence of effectiveness of conservation and restoration measures (changes in site use by birds);
- Generation of hypotheses for scientific analyses;
- Detection of knowledge gaps

# Value for stakeholders:

- Actualization of telemetry data collected by different research groups;
- All available data organized within one place with possibility of overlay;
- Easy visualization of key resources and potential pressures;
- Access to expert knowledge for targeted additional (re-)analyses



# Co-creation together with



Annelies van Ginkel



Wouter Vansteelant



Eldar Rakhimberdiev



Tjibbe Stelwagen



Bastiaan Blaauw



# THANK YOU!



Annelies van Ginkel



Wouter Vansteelant



Eldar Rakhimberdiev

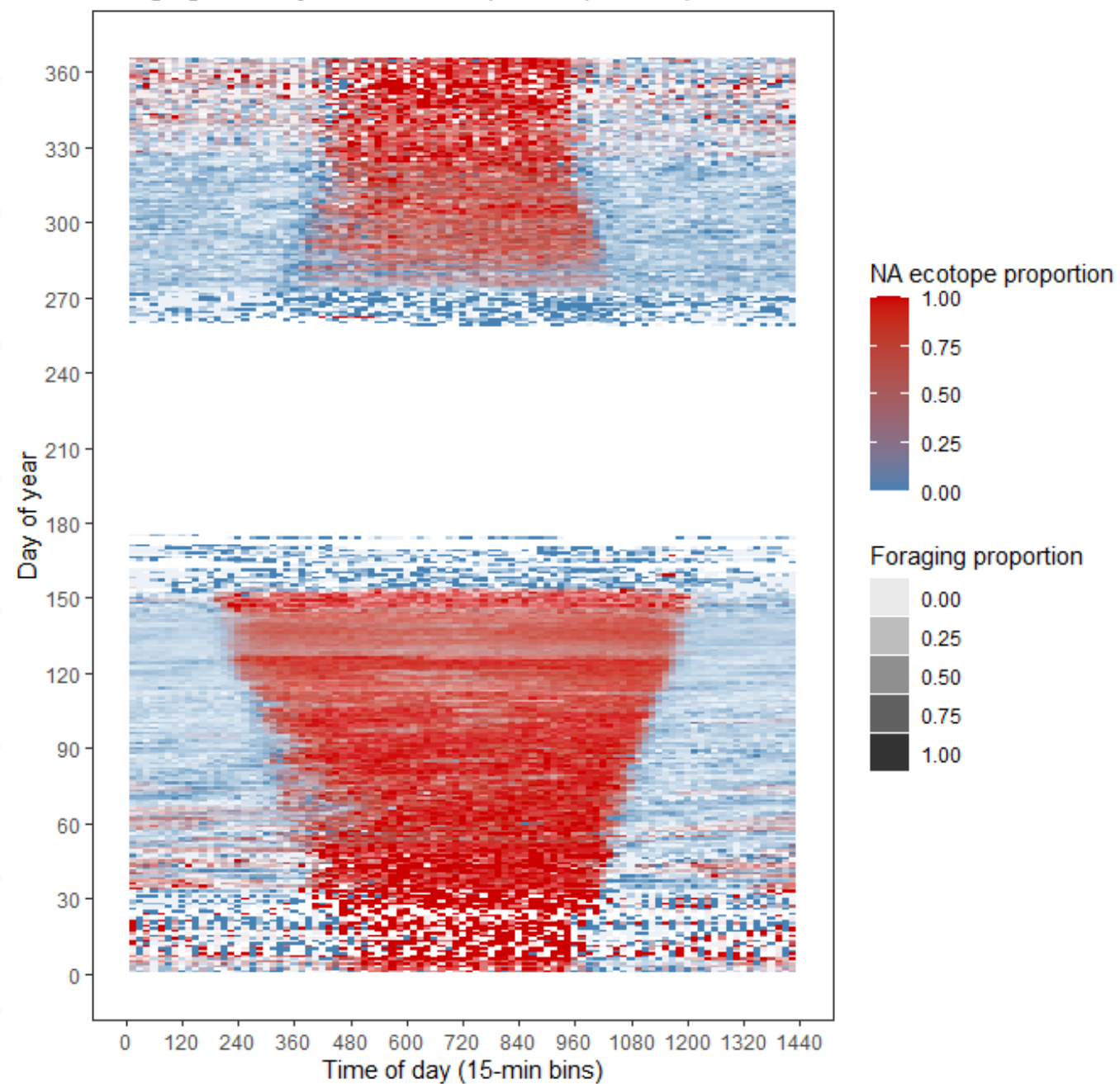


Tjibbe Stelwagen



Bastiaan Blaauw

### Foraging intensity and NA ecotope use (all birds)



The Dashboard is the visualization platform that keeps everyone up to date regarding the distribution of tracked birds

Following requests from stakeholders, we develop new functionality that enables visualization of tracking data to support strategic decisions, assignments and

Mapping impact, nature restoration, species hotspots

Not just wellbeing of the bird species, but also the state of their habitats

No-goes and opportunities