

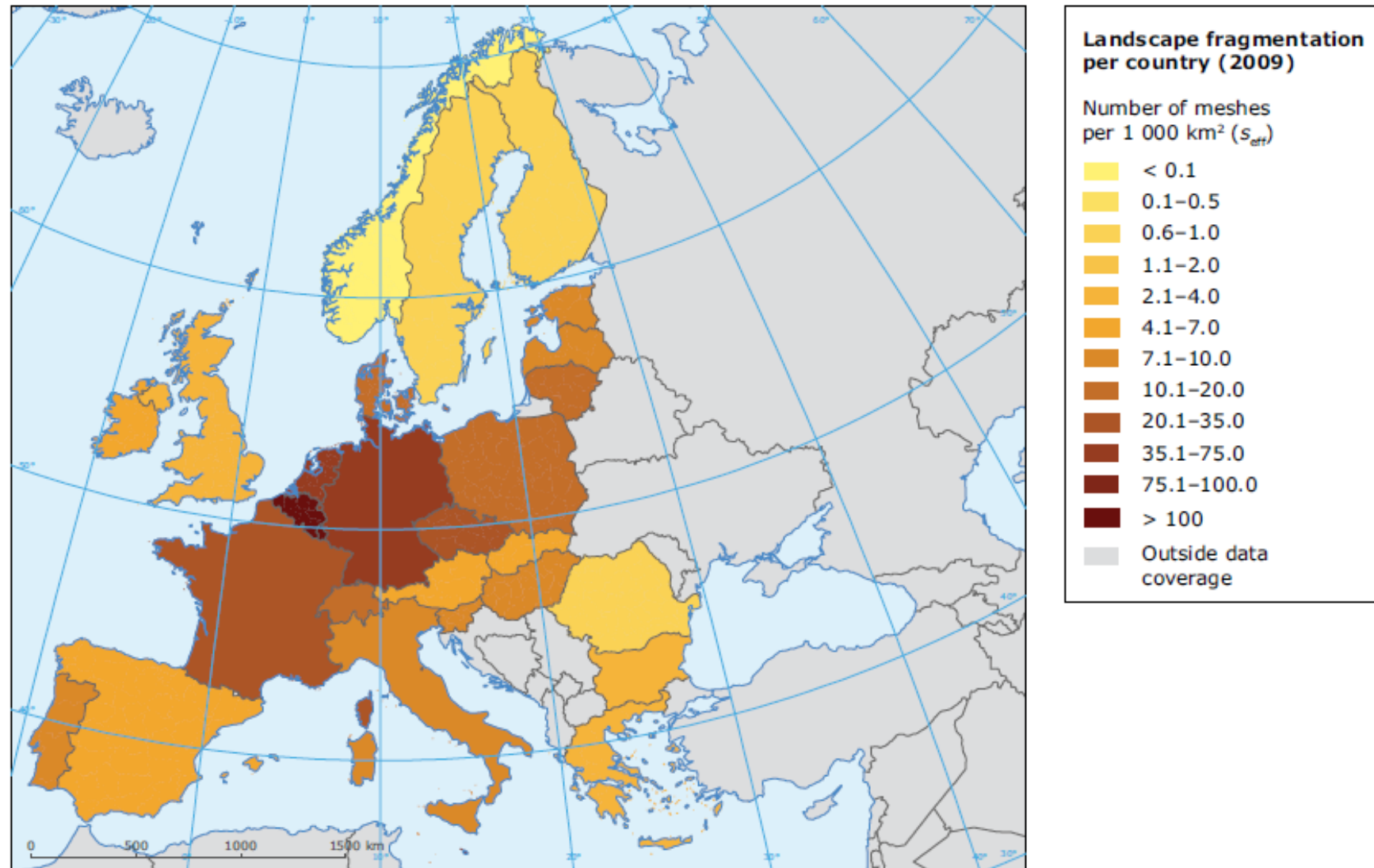


**Vlaams Actieprogramma  
Ecologische Ontsnippering  
=VAPEO**

**Flemish Action Programme  
Ecological Defragmentation =  
FAPED?**



# Why defragmentation in Flanders?



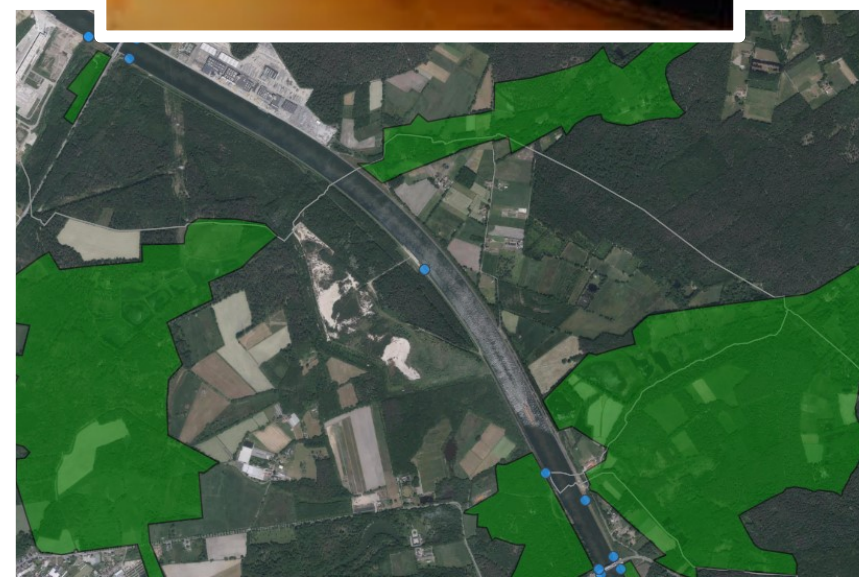
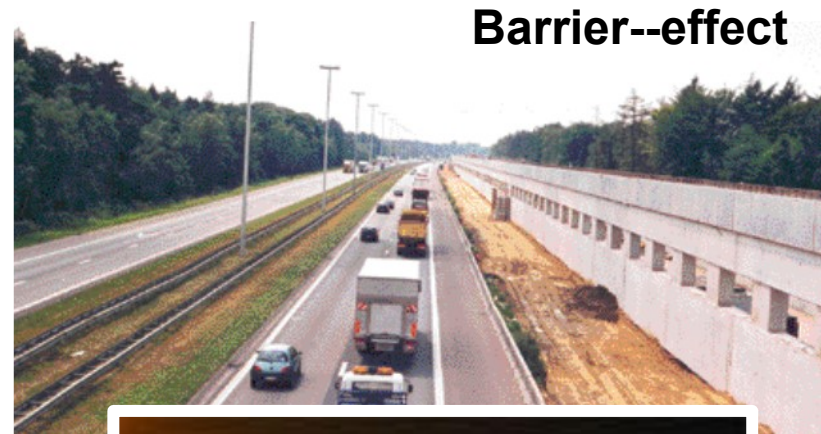
**Vlaanderen**  
is omgeving

*Landscape fragmentation (EEA/FOEN, 2011)*

# Why defragmentation in Flanders?

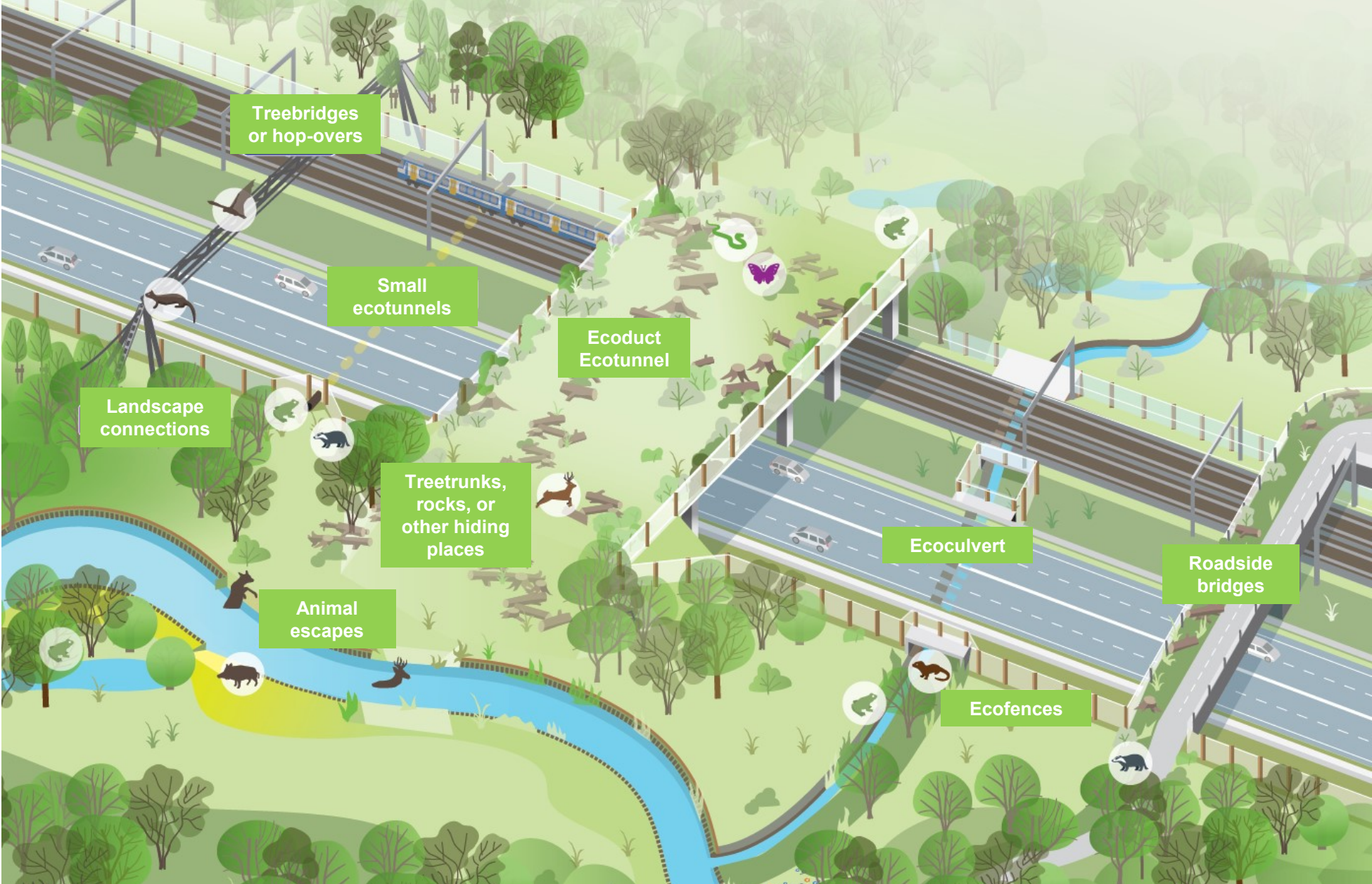
## Road kill and drowning

Estimation: 8 million killed animals every year in Flanders





# Defragmentation measures



# VAPEO 2019-2024 (roads)

Government agreement - Flemish Government 2019-2024:

Als onderdeel van een Vlaams actieprogramma ontsnippering, werken we de belangrijkste infrastructuurknelpunten weg door de aanleg van ecoducten of ecotunnels. Daarnaast realiseren we prioritaire permanente verbindingen op landschapsniveau. Hiermee geven we vanuit Vlaanderen ook de groenblauwe dooradering in de verstedelijkte omgeving mee vorm.

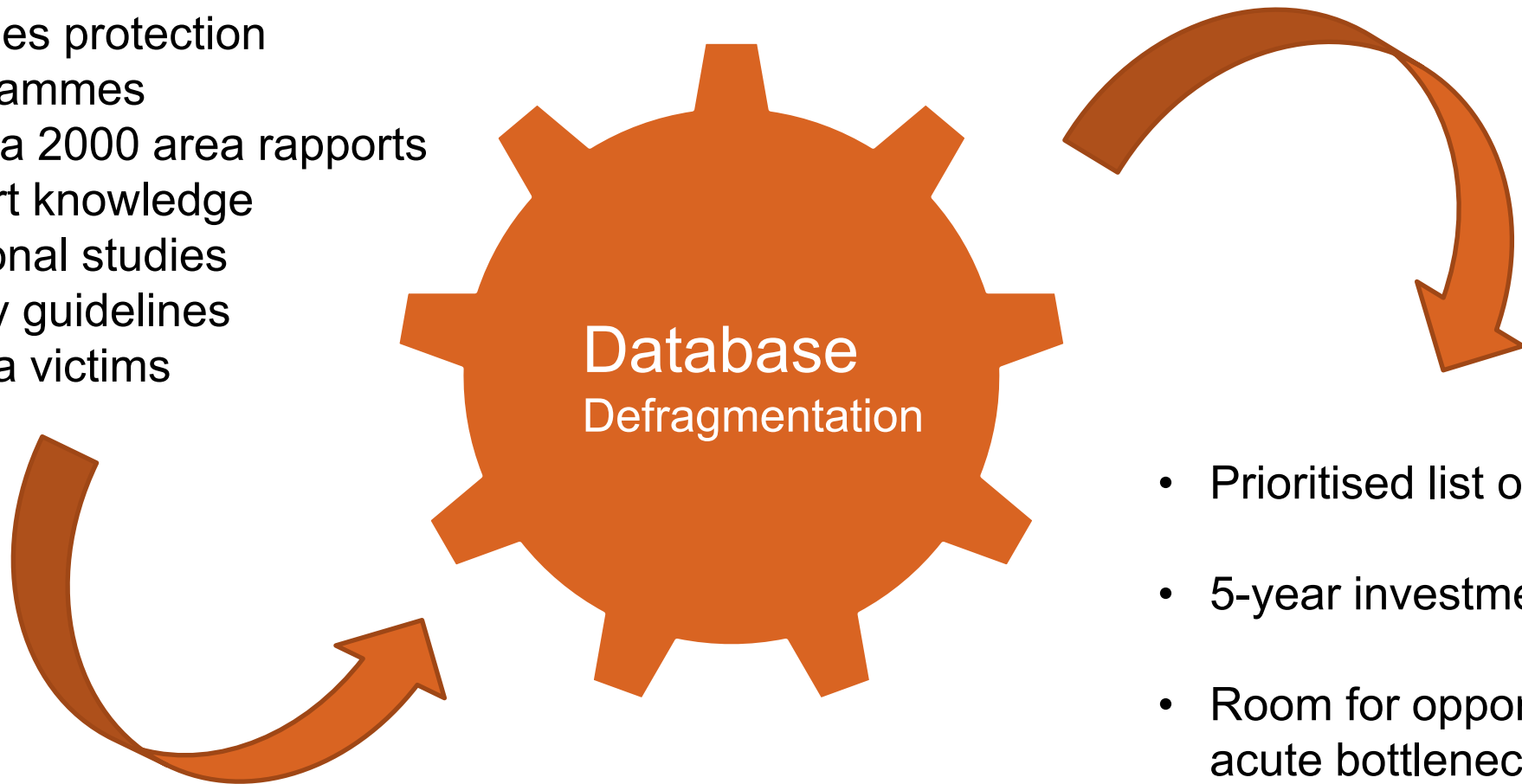


- Structural cooperation within the Flemish government for defragmentation of existing regional transport infrastructure
- Building a database defragmentation
- 50 M€ for first list of priority actions on roads
- Room for opportunities and acute bottlenecks



# Database defragmentation = engine for VAPEO

- Species protection programmes
- Natura 2000 area reports
- Expert knowledge
- Regional studies
- Policy guidelines
- Fauna victims



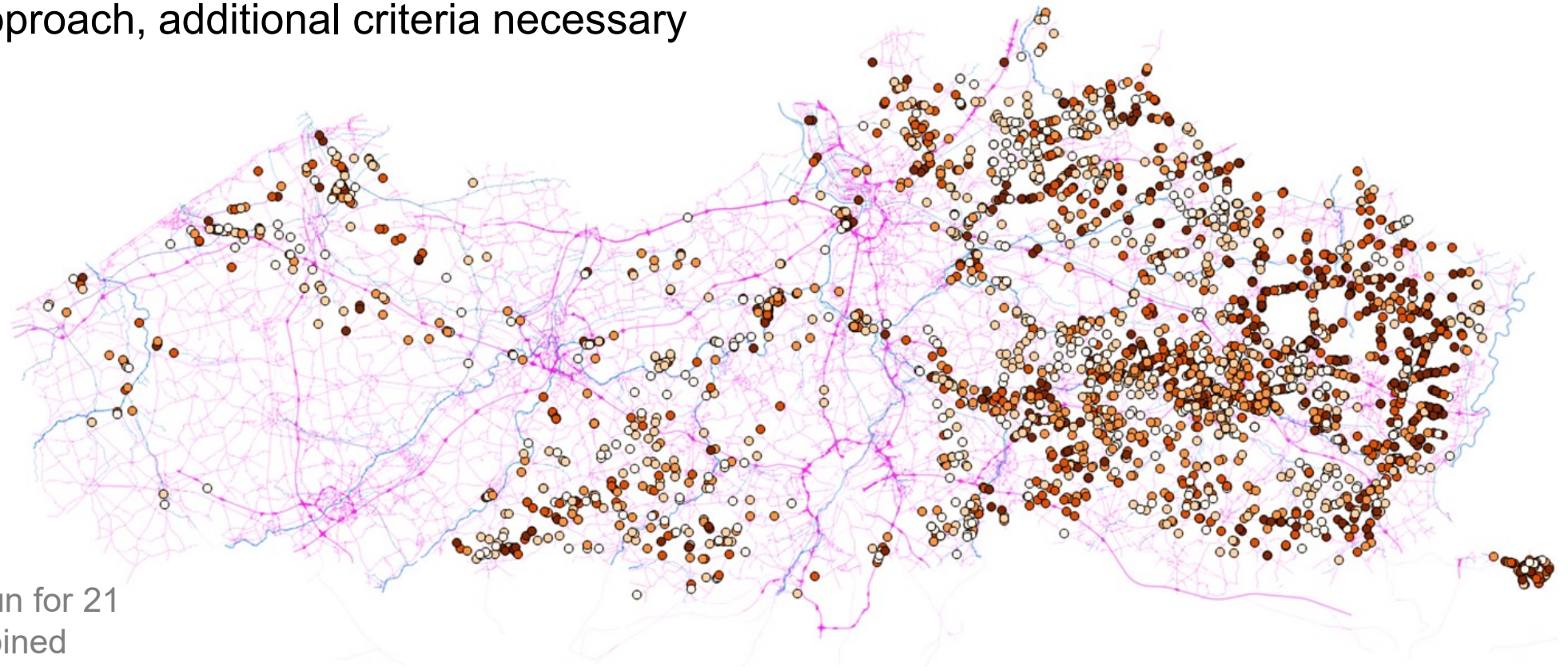
- Prioritised list of bottlenecks
- 5-year investment programme
- Room for opportunities and acute bottlenecks

# Database criteria

- Defragmentation tool (rapport 2016, INBO and VITO): GIS-analysis software
- Modelling based on appreciation values for species habitats of 21 indicator species
- The tool looks for pieces of (potential) habitat with high appreciation values across barriers
- The effect of defragmentation is quantified for each location per species and per possible defragmentation measure
  - Complicated tool with long calculation time, not easy to update frequently, theoretical approach, additional criteria necessary

Prioriteit

- 1 - 100
- 100 - 200
- 200 - 300
- 300 - 400
- 400 - 500



Example of run for 21  
species combined

# Database criteria

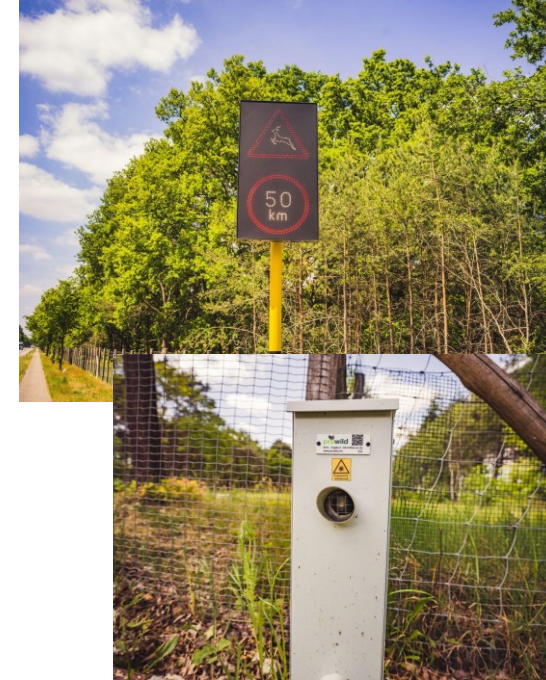
Score ecological criteria	Ecological criteria							
	SBZ(Natura 2000)/VEN/ 5 = both sides 3 = 1 side 0 = not	Priority of SBZ 5 = high 4 = middle 3 = low 0 = not applicable	Nature Management Plan active 5 = both sides 3 = 1 side 0 = not	Relevant for legally protected species 5 = yes 0 = no	Study or plan present 5 = yes 0 = no	Number of species groups 5 = all groups 3 = several 1 = specific group	Barrier scale 1 to 5	Score Defragmentation Tool (software model to quantify effect) 5-4-3-2-1-0
31	5	5	3	5	5	3	5	5
26	3	5	0	5	5	3	5	5

Score Feasibility	Criteria Feasibility							
	Financing partners 5 = yes 3 = probably 0 = not clear	Relevant for traffic safety 5 = yes 0 = no	Cost Efficiency 5 = high 3 = middle 1 = low	Recreational benefit 5 = yes 0 = no	Land purchase necessary 5 = no 3 = 1 side 0 = 2 sides	Part of an integrated project 5 = yes 0 = no	Local support 5 = high 3 = middle 0 = low	Agreement in place between partners 5 = yes 3 = in preparation 0 = no
16	0	0	1	0	5	5	5	0
14	0	0	1	0	5	5	3	0

→ Total score for priority of bottlenecks – constant updates

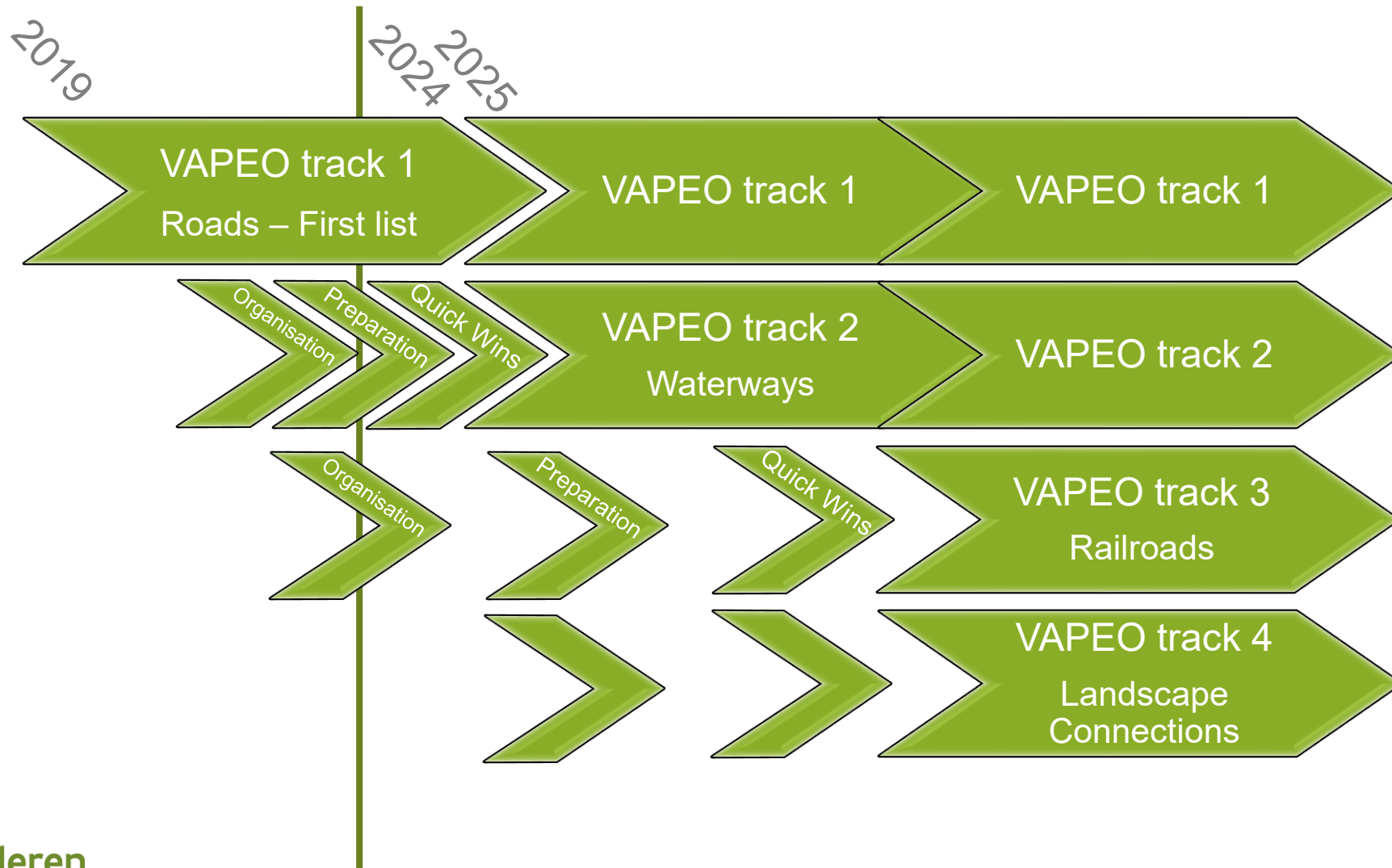


# VAPEO first list (roads)





# VAPEO: 1 programme – 4 tracks





# Defragmentation measures waterways





# VAPEO: 1 programme – 4 tracks

Integrated approach necessary for different infrastructures (roads, waterways, railroads) to ensure alignment of different measures and mutual reinforcement → GIS-overview for planning

