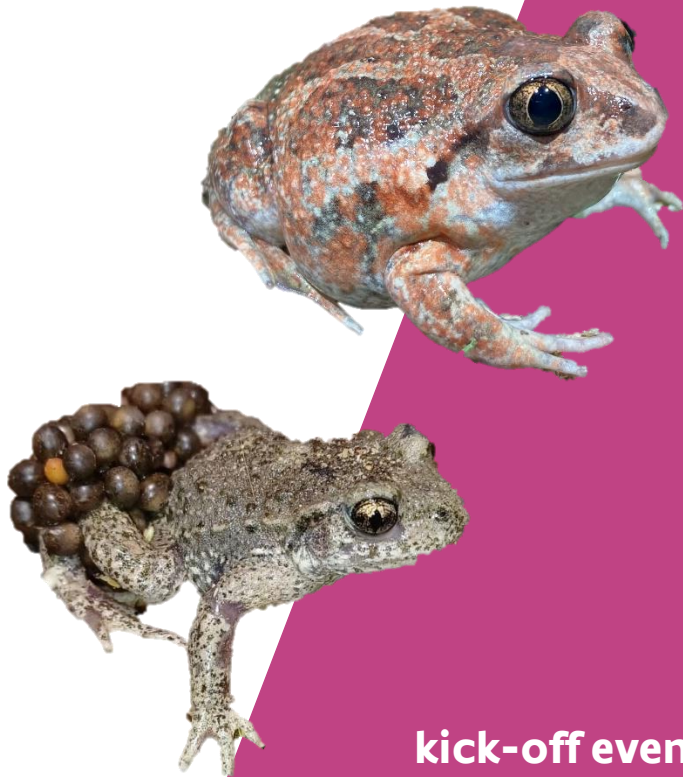




Conservation translocations for two amphibian species in Flanders

Loïc van Doorn
Jeroen Speybroeck
Johan Auwerx



SAPs for amphibians in Flanders

- ▶ Natura 2000 species
 - European tree frog *Hyla arborea*
 - Moor frog *Rana arvalis*
 - Great crested newt *Triturus cristatus*
 - Common spadefoot toad *Pelobates fuscus*
 - Pool frog *Pelophylax lessonae*
 - Natterjack toad *Epidalea calamita*
 - Common midwife toad *Alytes obstetricans*

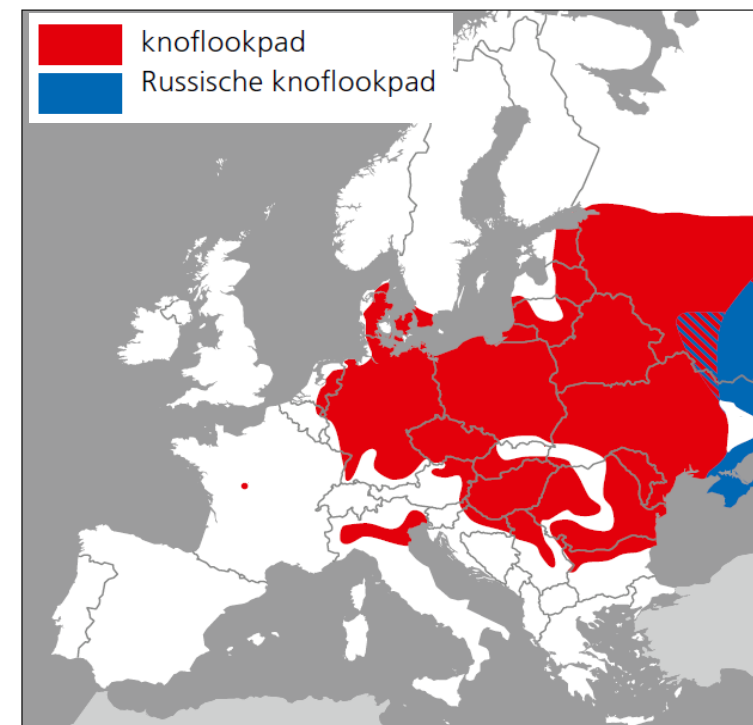
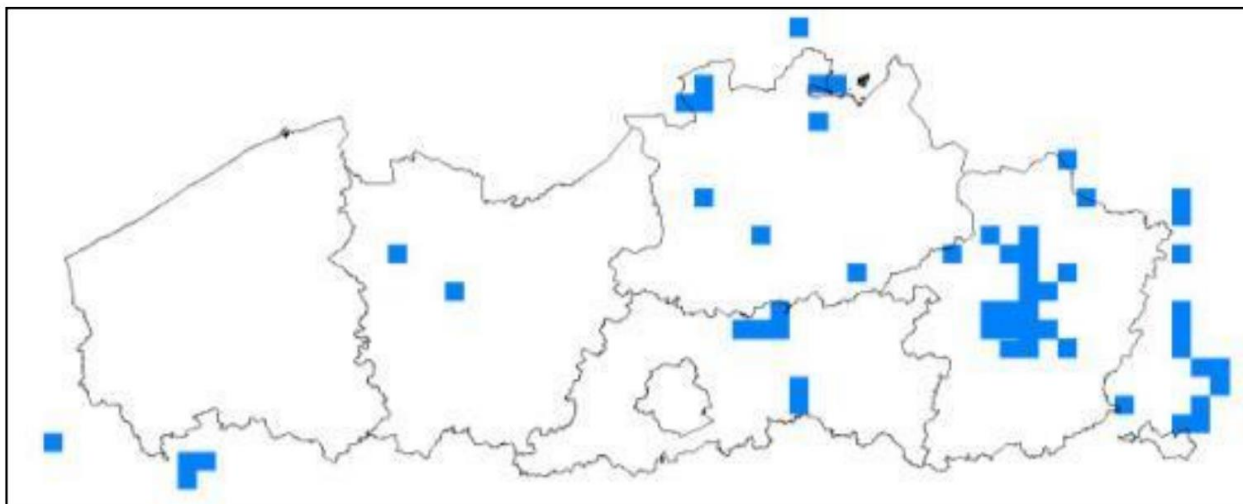
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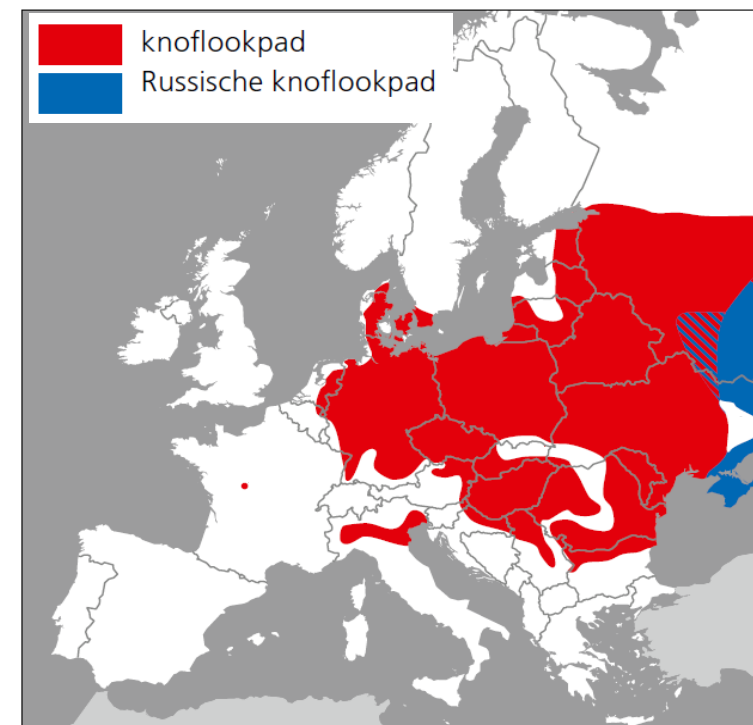
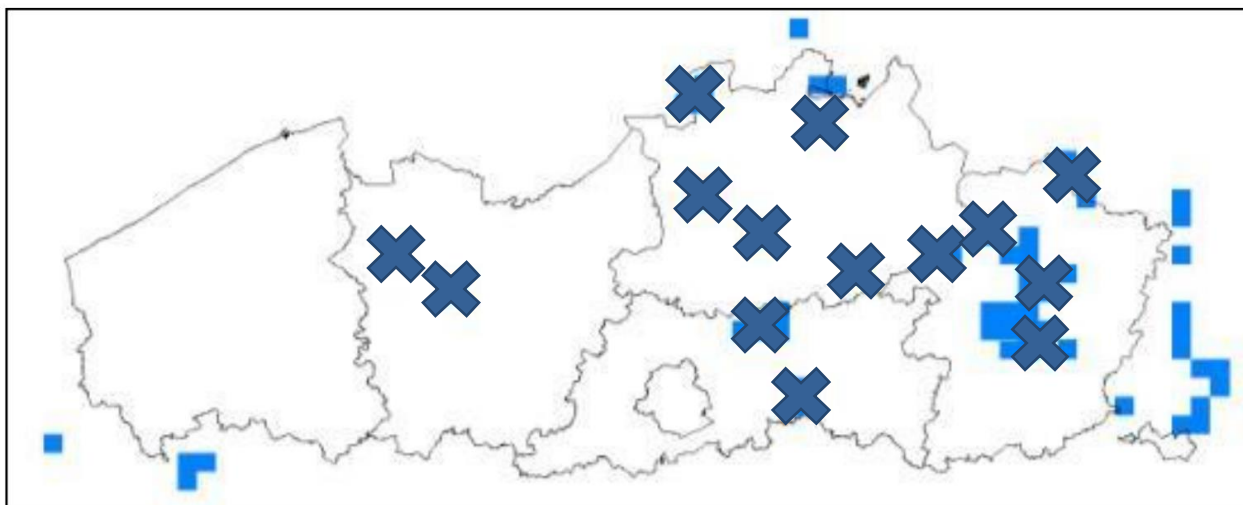
Common spadefoot toad *Pelobates fuscus*

- ▶ Current vs historical range



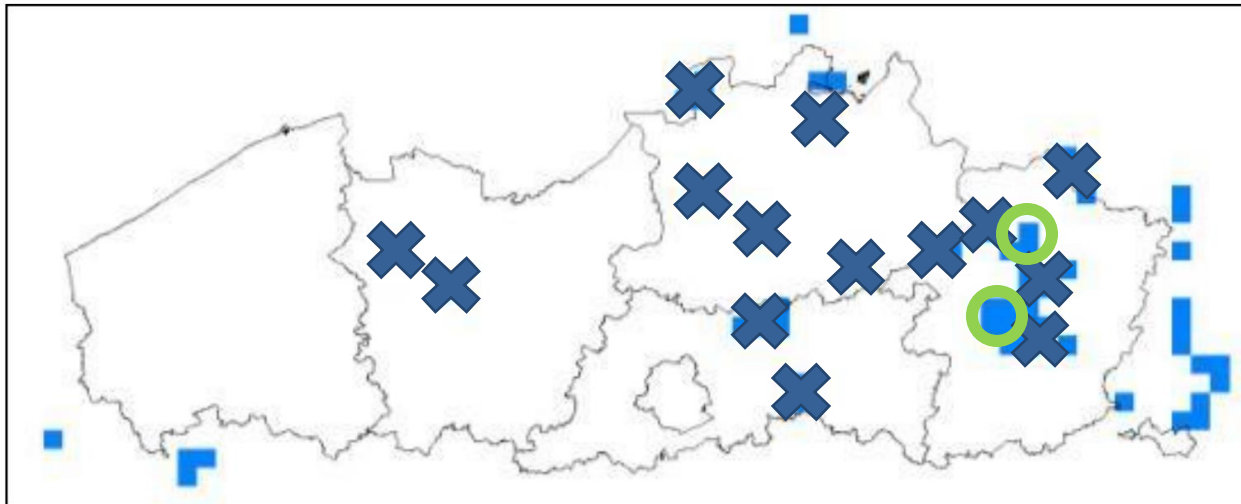
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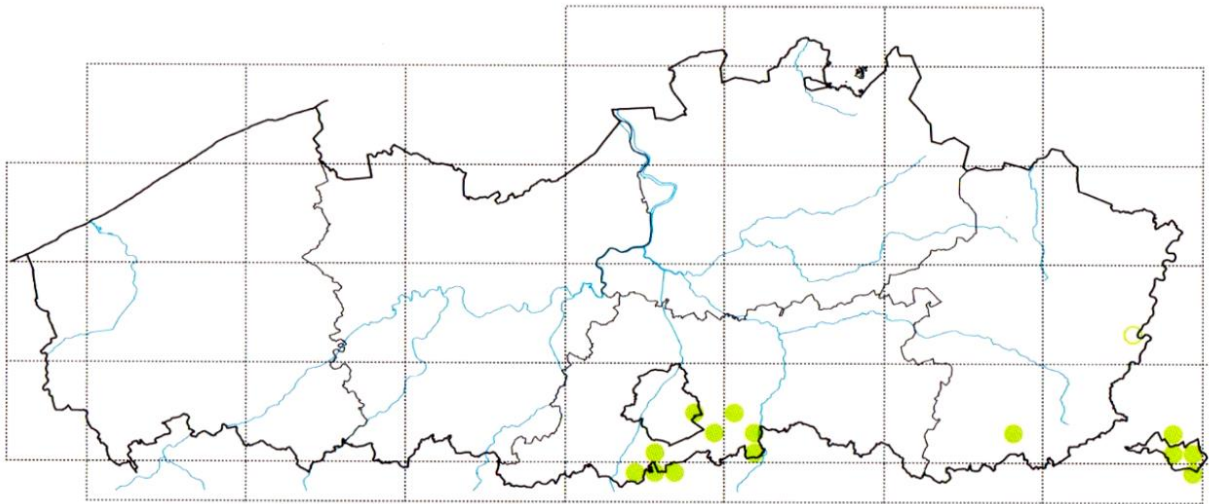
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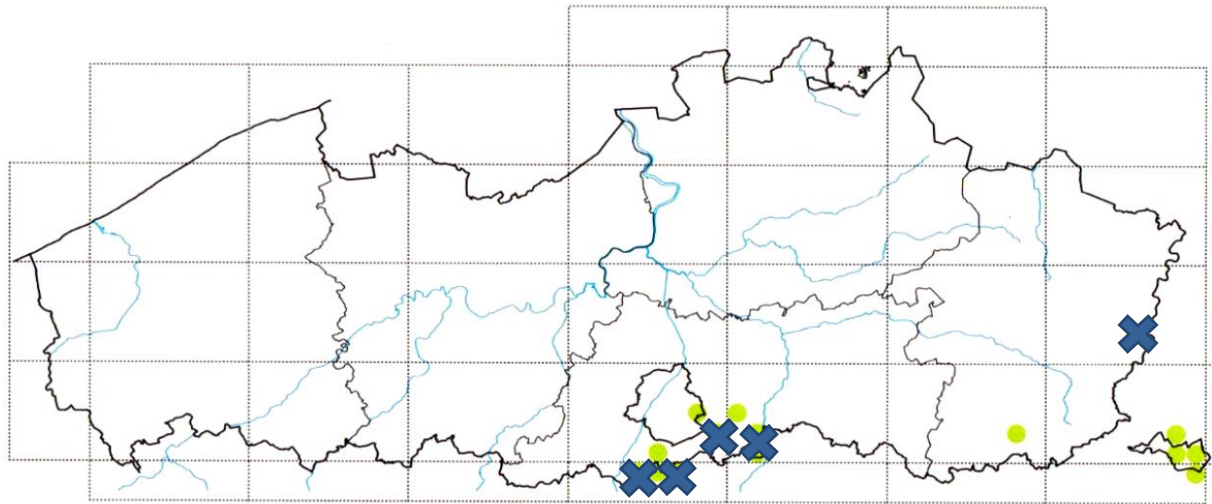
Common midwife toad *Alytes obstetricans*

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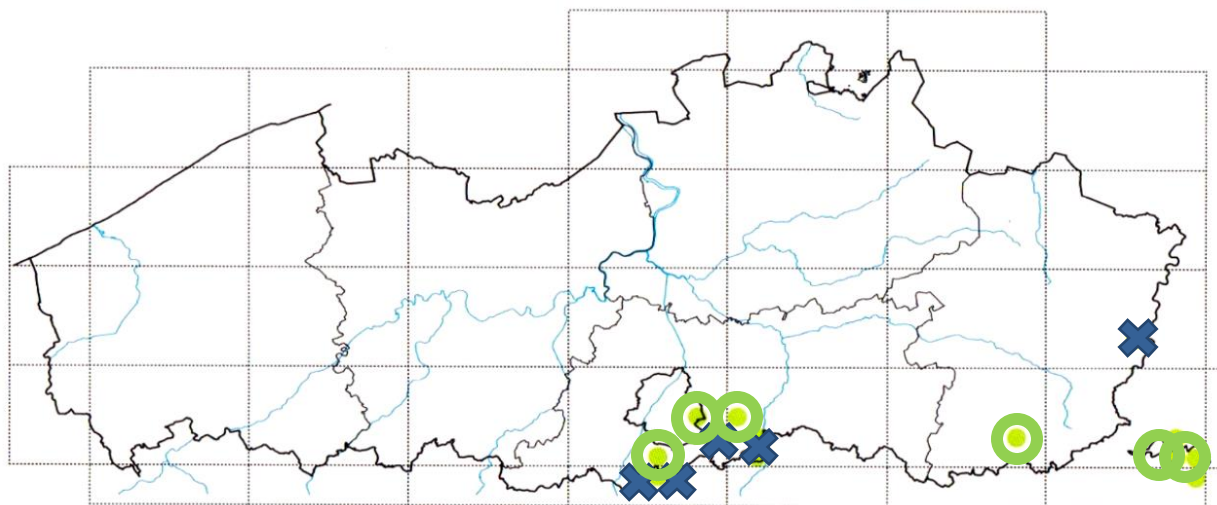
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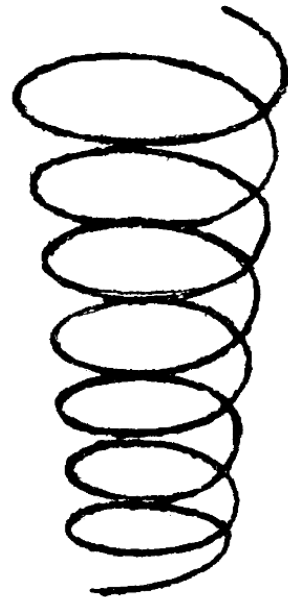
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- ▶ Current vs historical range



Common spadefoot toad and common midwife toad in Flanders

- Small, disjunct and reduced distribution
- Downward population trend
- No colonisation
- Low genetic diversity



Extinction vortex





Guidelines for Reintroductions and
Other Conservation Translocations



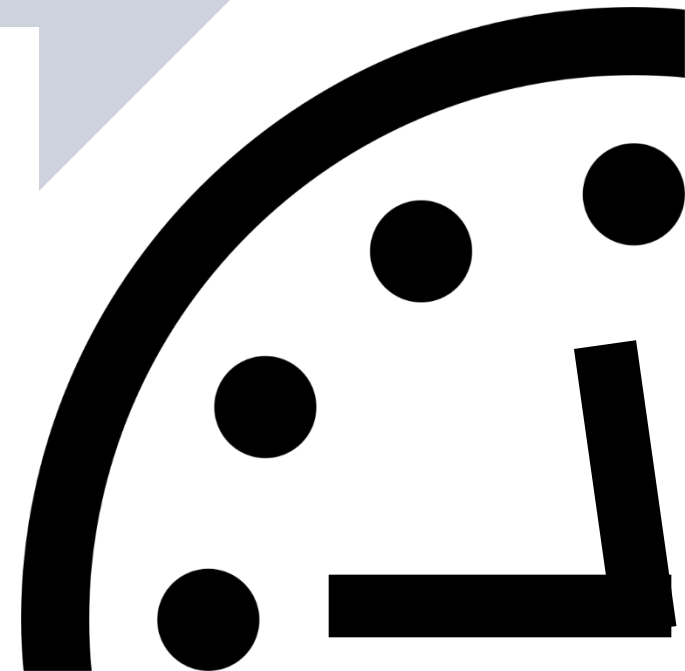
REINTRODUCTION AND INVASIVE SPECIES SPECIALIST GROUPS' TASK FORCE ON MOVING PLANTS AND ANIMALS FOR CONSERVATION PURPOSES



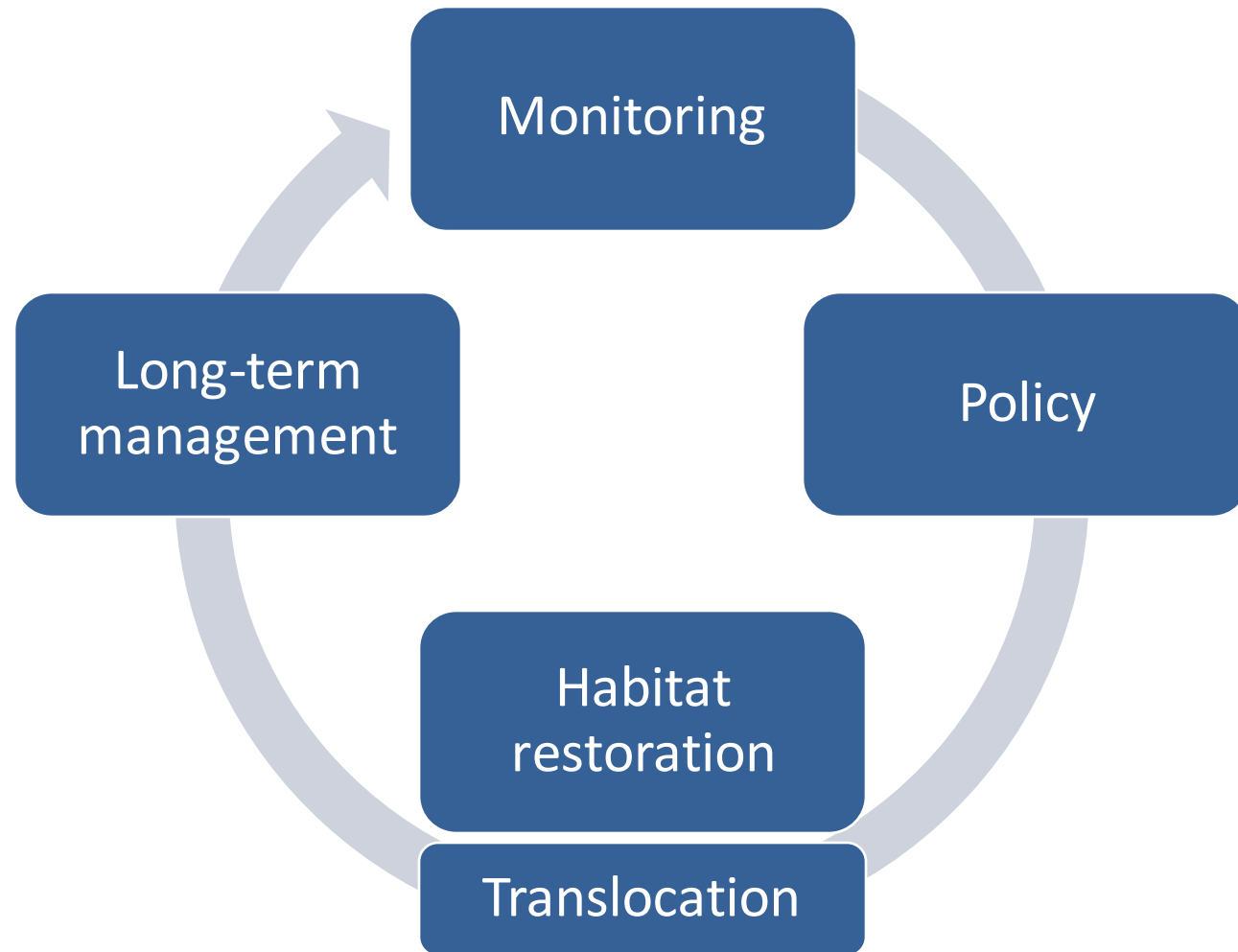
Restocking

Reintroduction

Favourable
conservation
status



Translocations are not a standalone solution





Captive breeding

- **Origin**
 - Flanders, Wallonia and Netherlands
- **Yearly output**
 - ± 8000 larvae and juveniles

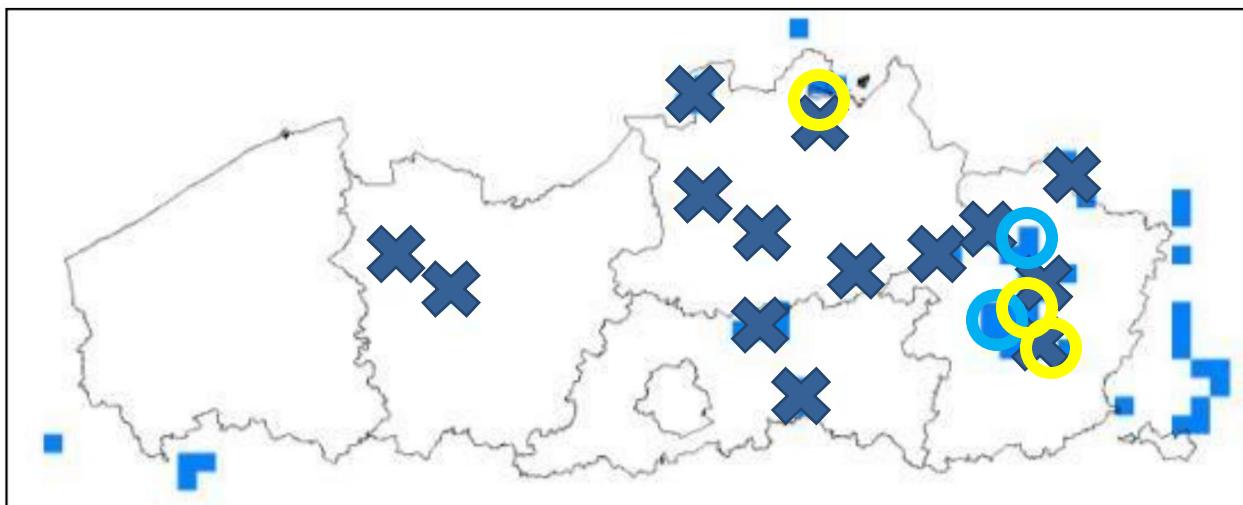


Headstarting

- **Origin**
 - Flanders, Netherlands, Germany (?)
- **Yearly output**
 - Variable → Captive breeding

Common spadefoot toad *Pelobates fuscus*

► Conservation translocations



Start project: 2 populations

Restocking: 2 populations

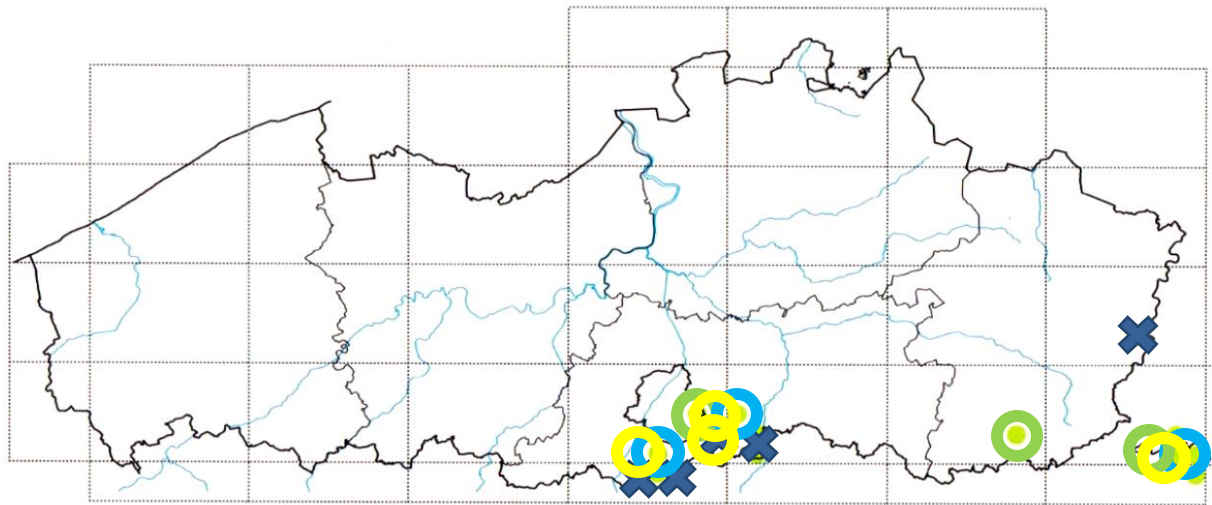
Reintroduction: 3 populations

Future: Habitat suitability analyses for subsequent reintroductions



Common midwife toad *Alytes obstetricans*

► Conservation translocations



Start project: ± 6 populations

Restocking: 4 populations

Reintroduction: 4 populations

Future: Habitat suitability analyses for subsequent reintroductions



Interim results and future

Interim results since 2020

- ▶ Adult life stages present in all reintroduced populations of both species
 - Reproduction confirmed in multiple locations
- ▶ Outreach

Interim results and future

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- ▶ Adult life stages present in all reintroduced populations of both species
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Future

- ▶ Continuation of translocations
 - Recently founded populations
 - New populations
- ▶ Monitoring