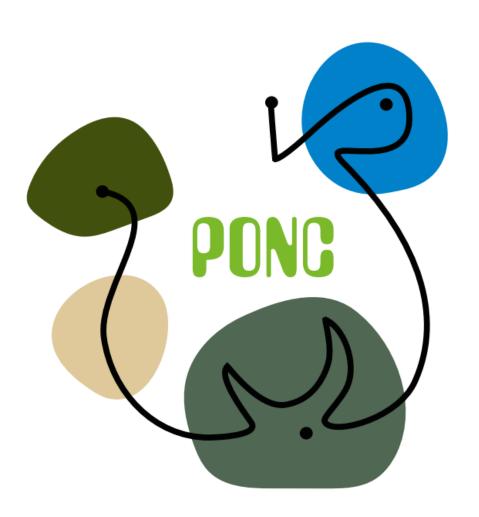
Excursion to Pijnven

13/6/2023

Regional manager Koen Thijs & forest guard Eddy Ulenaers



Process Oriented Nature Conservation

Towards a wilder, cheaper and more robust nature management









Location of Pijnven



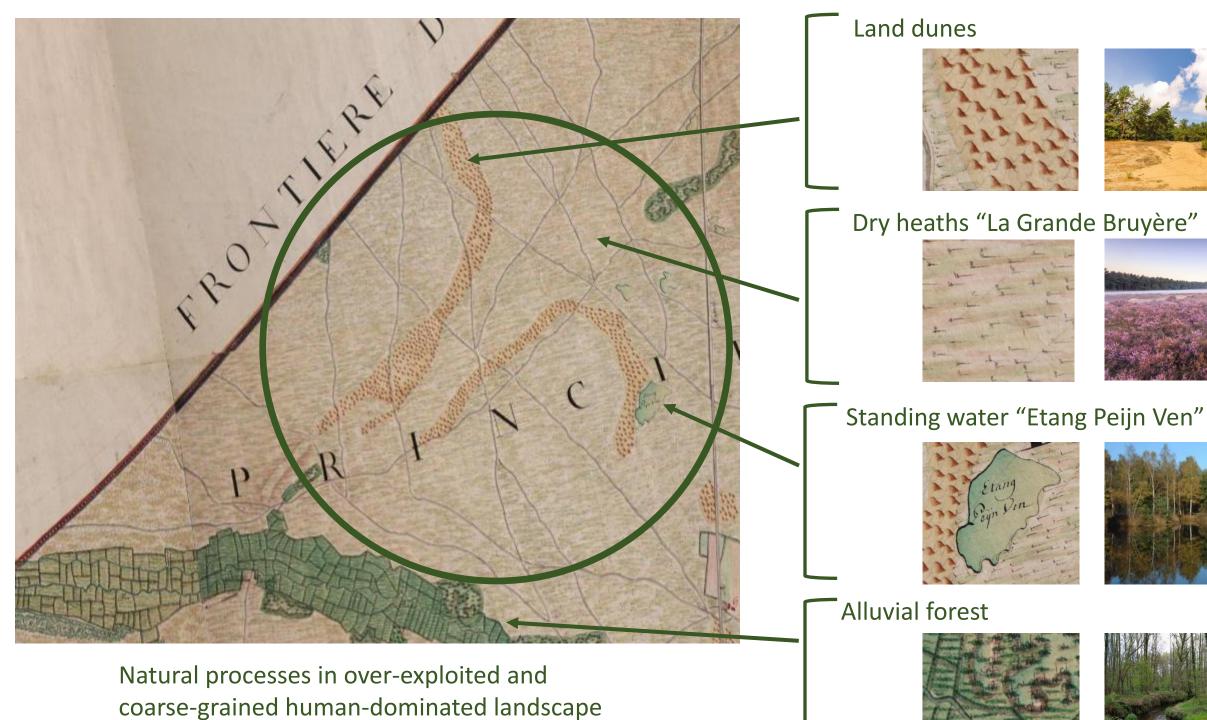








History of Pijnven (18th century)











History of Pijnven (20th century)

Since 1900 the importance of heathland was

- Declining for agriculture (ia introduction fertilizers and mechanization)
- Increasing for afforestation (ia pine plantations for mining industry)

Resulting in a landscape metamorphosis from open to close















From a sustainable management (20th century)...

- Sustainable management of public forest and natural patrimony
- Valorisation of all possible synergies between the natural landscapes and local society
- Co-designing a long term vision on nature and forest
- Start of Bosland, the most child friendly forest region of Flanders

... to a process-oriented nature conservation (21 century)?

- Focusing on the natural processes rather than the habitat or species objectives
- PONC as a process, not as a goal
 - Rethinking management practices
 - Refocusing ecosystem services
 - Spatial and temporal pathway



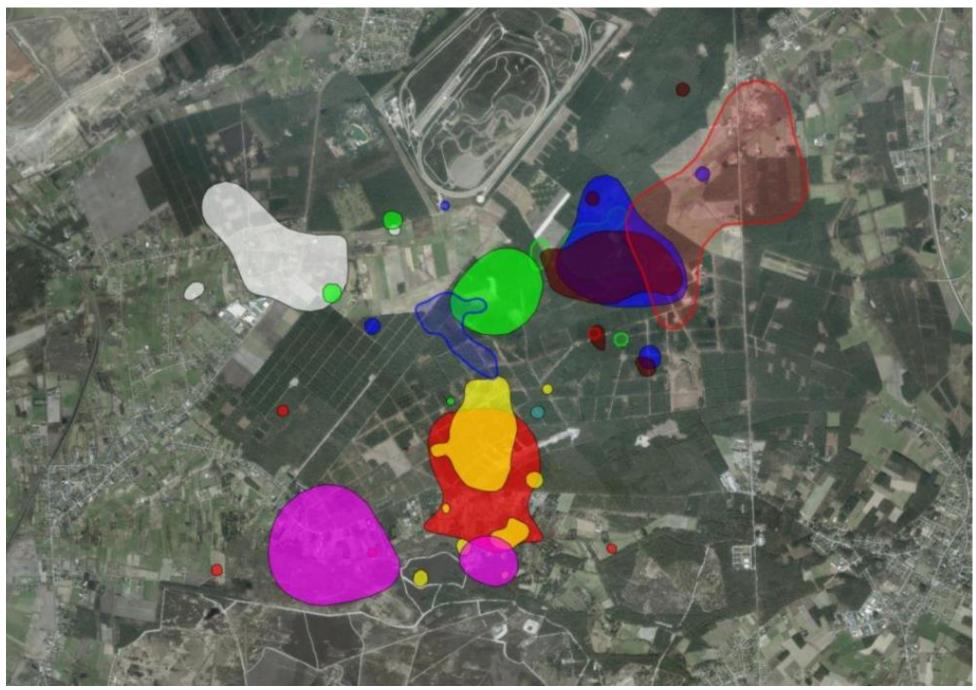






Scientific research (www.BosLab.be)

Homeranges of individual nightjars in Pijnven











Restoring trophic levels ~ top carnivores











Wildlife management





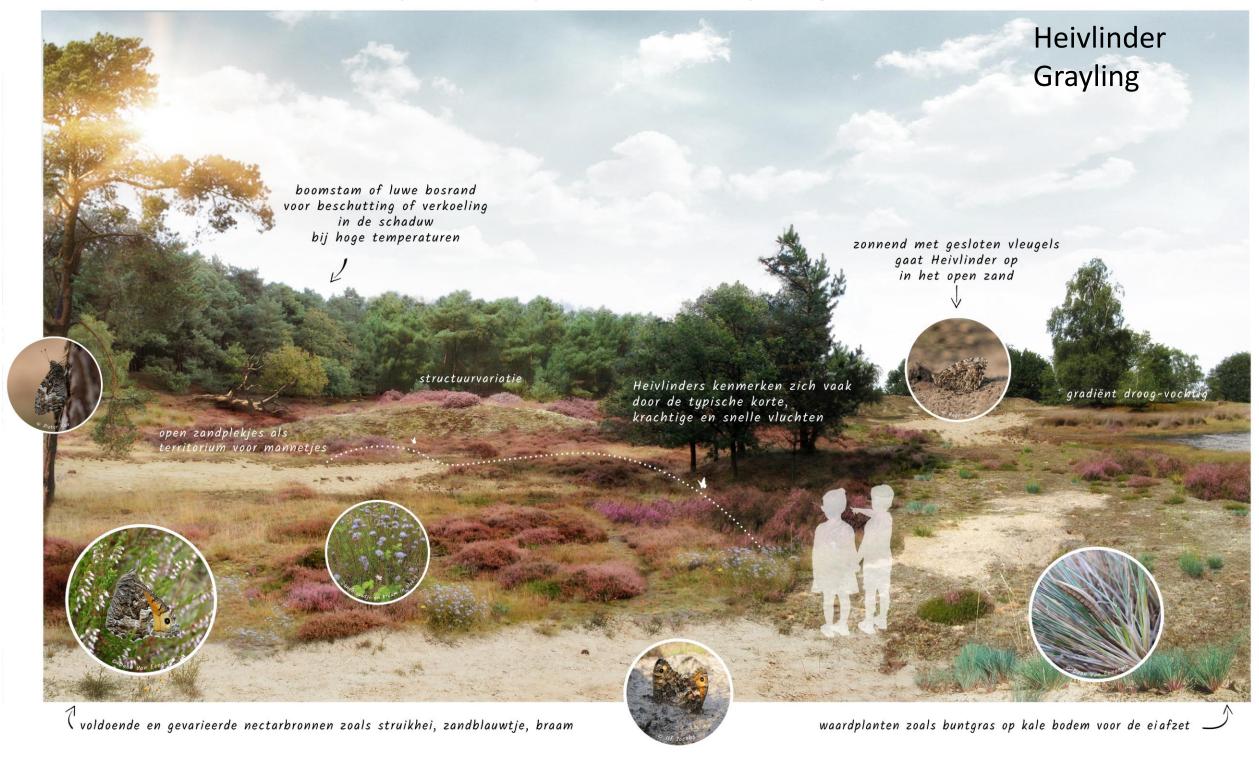








Species protection program



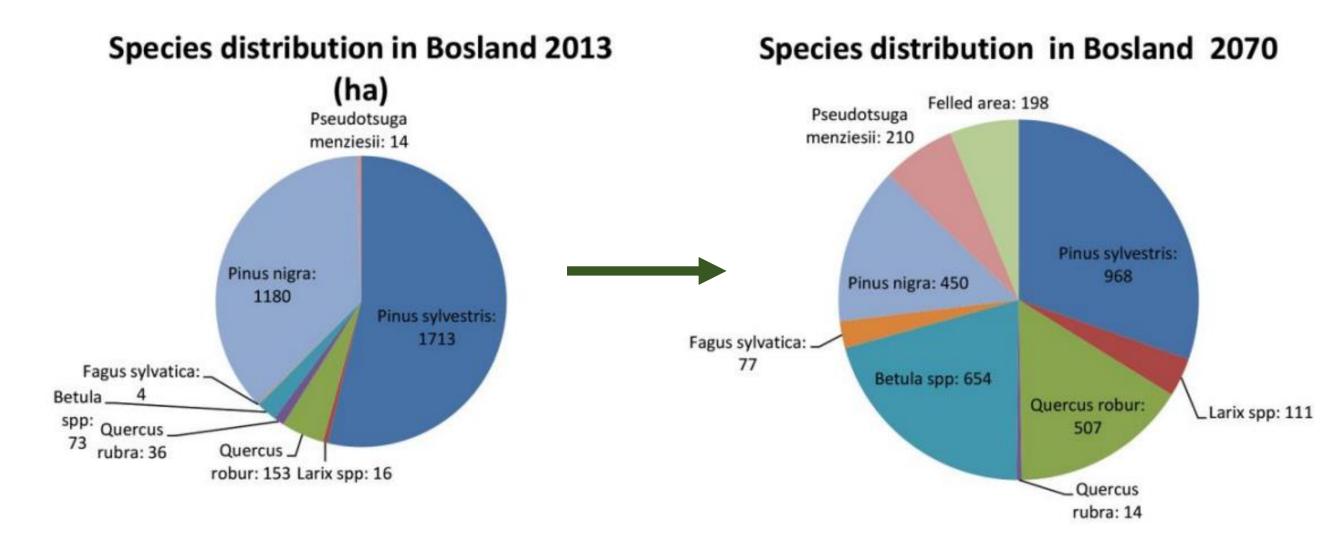








Shift in forest composition



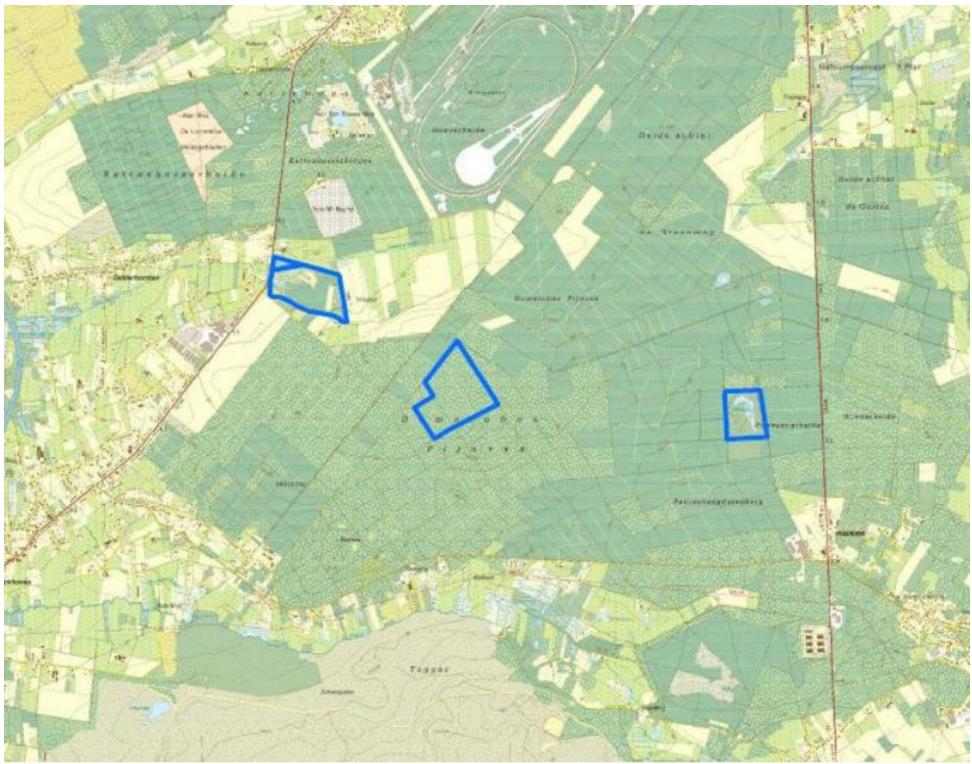








Forest reserves ~ Non-intervention areas (62ha)











Stimulate abiotic processes (soil)





Large scale

Deforestation to restore land dunes, allowing wind dynamics

Small scale

Wild boar rooting





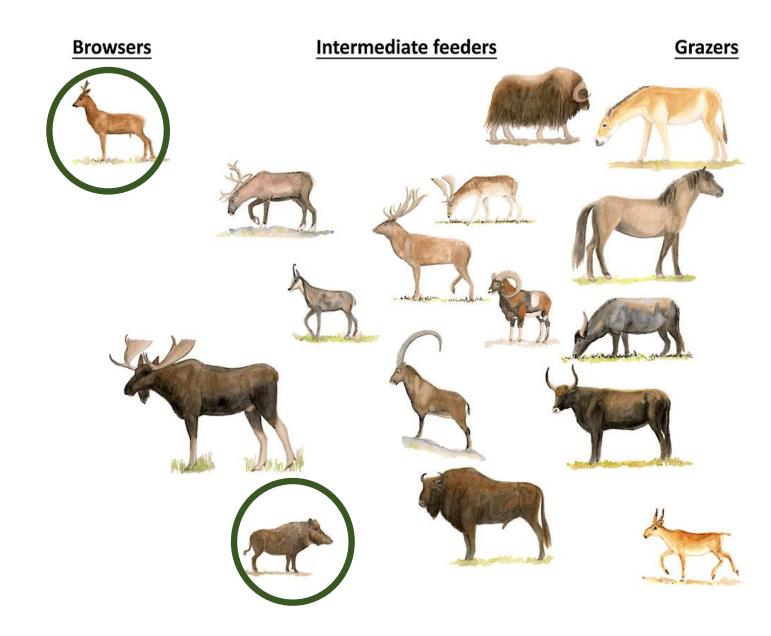




Grazing















How to deal with invasive species?











Exploration of the natural heritage



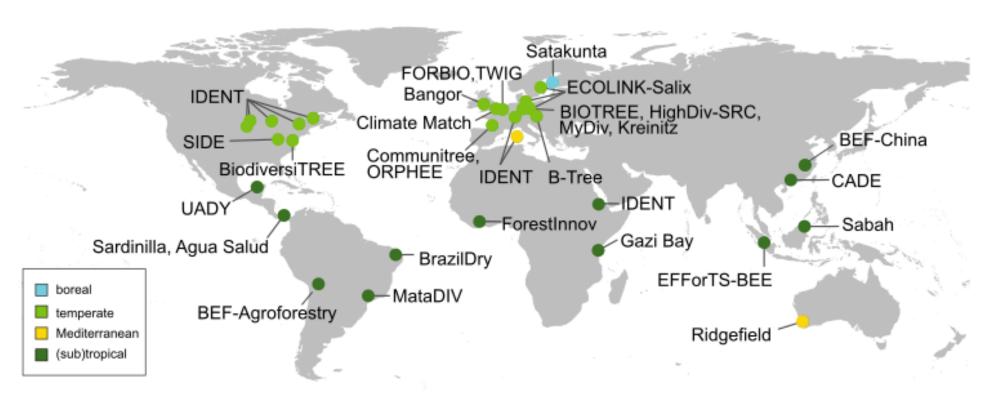






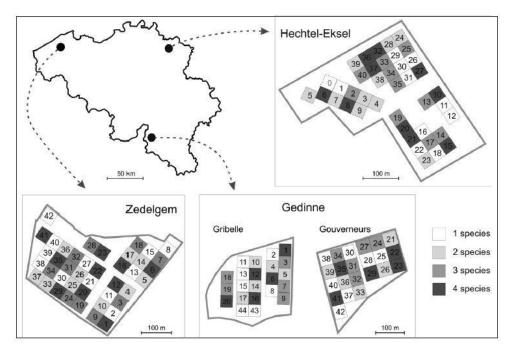


FORBIO (Forest Biodiversity and ecoystem functioning)



TreeDivNet

- 1.200.000 trees
- 29 experiments
- 859ha



Hechtel-Eksel Betula pendula Larix kaempferi Pinus sylvestris Pseudotsuga menziesii Quercus petraea









Working within the natural heritage











Recovery of abiotic processes (water)



Fill up draining canals to restore natural (higher) groundwater levels









Abiotic processes (fire)



Strictly limited in the densely populated Bosland







