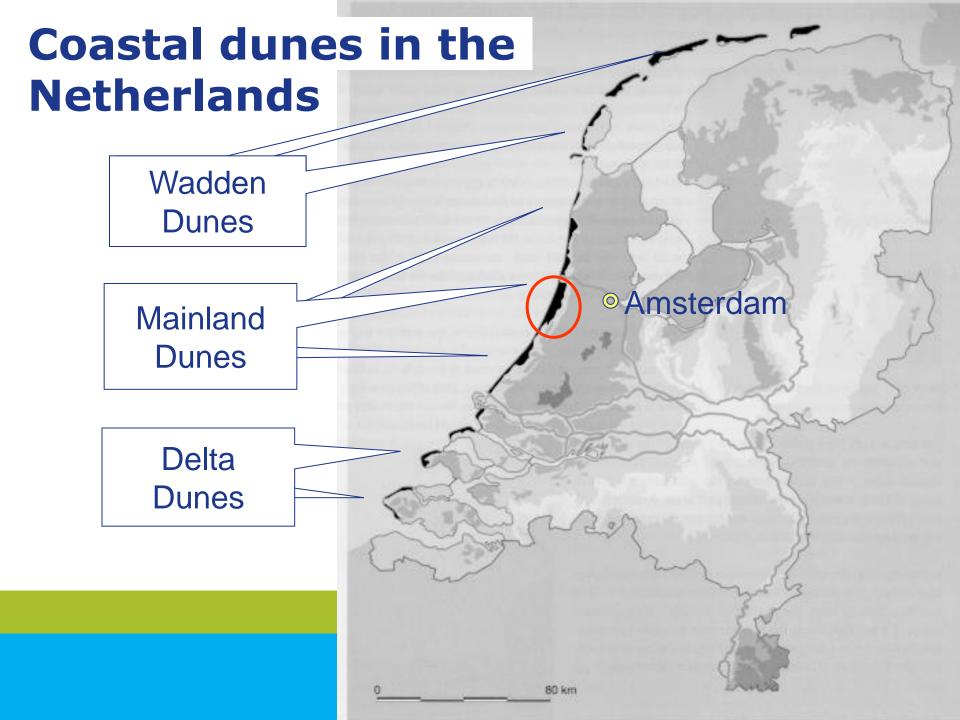


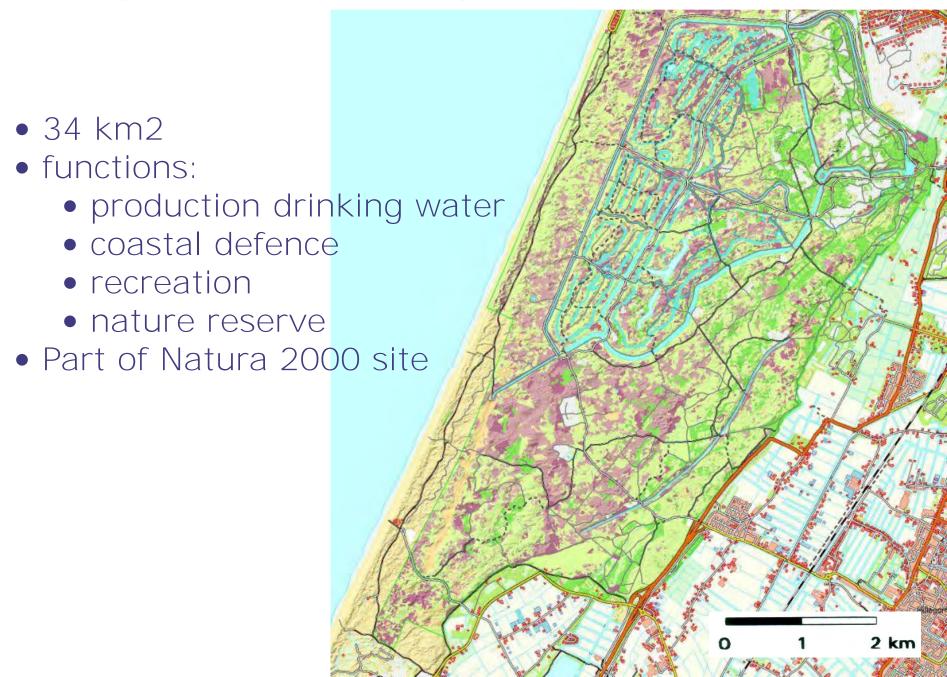
Overview

- Amsterdam Dunes
- History of Black Cherry
- Problem definition
- Management
- Results
- Conclusions

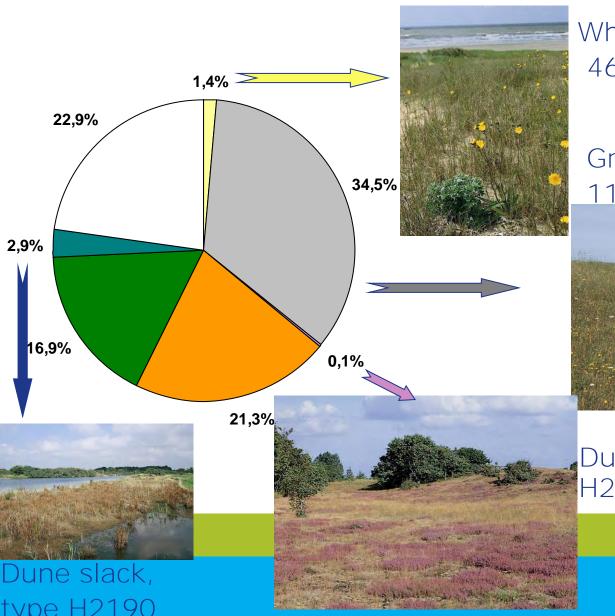




Amsterdam Dunes



Natura 2000-site: 40% open habitats



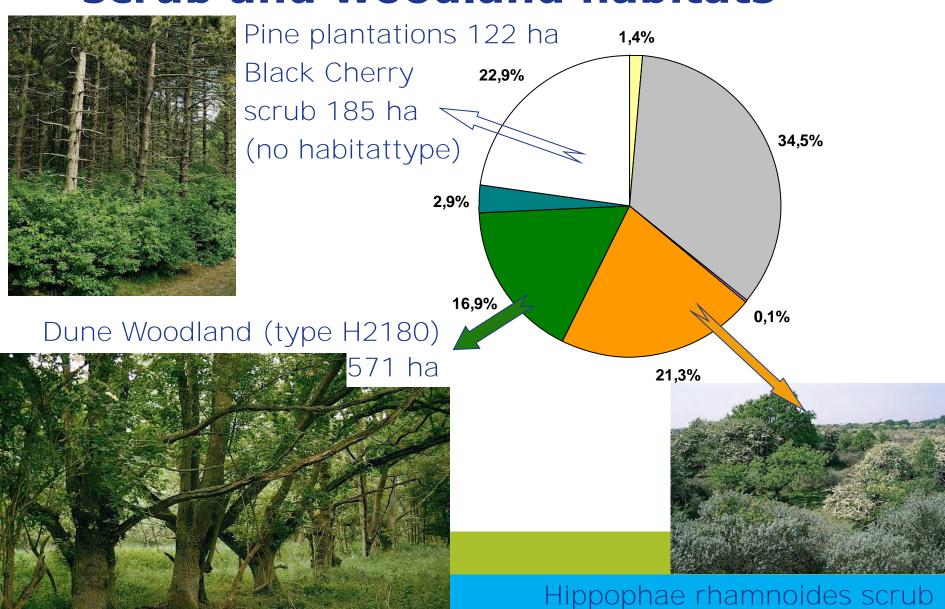
White dunes, type H2120 46 ha

Grey dunes, type H2130 1169 ha

Dune heath, type H2150 5 ha

water Onet

scrub and woodland habitats



(type H2160) 722 ha

Prunus serotina

- Broadleaved tree from North America
- Rosaceae
- Dry to moist, more or less acid soil
- Early and abundant seed production
- Mamal & bird dispersion
- Easy settling, fast growing
- Invasive





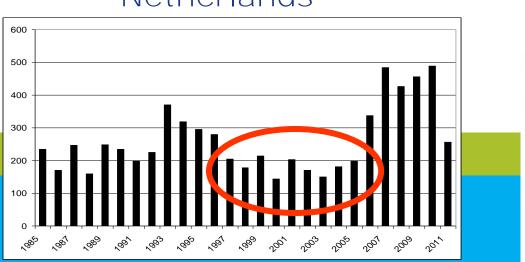
Short history of Prunus

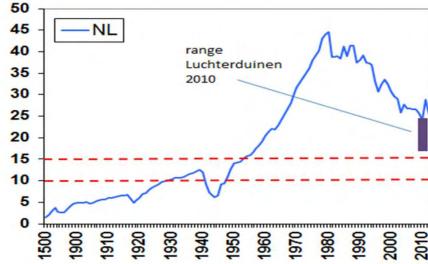
- 1930 1970 : Introduced by man
- 1970 1990 : Invasive in pine stands

Still rare in open dunes

>1990 - 2012: Increased all over AWD

Holds true for almost all dune areas in The Netherlands





Prunus serotina development Prunus serotina 1988-1989 bedekking Prunus serotina bedekking Awd_grens Wegenkaart.shp Waterlopen Infil.shp runus-ant.shp weinig (<1%) niet aanwezig zeer veel (>10%) zeer veel: > 10 % niet gekarteerd Van der Goes en Groot 2004 1989

Problem

 Dune habitats get rapidly overgrown by the exotic and invasive species
Prunus serotina

 The favourable conservation status of Natura2000 dune habitats is at risk





... and after some years...











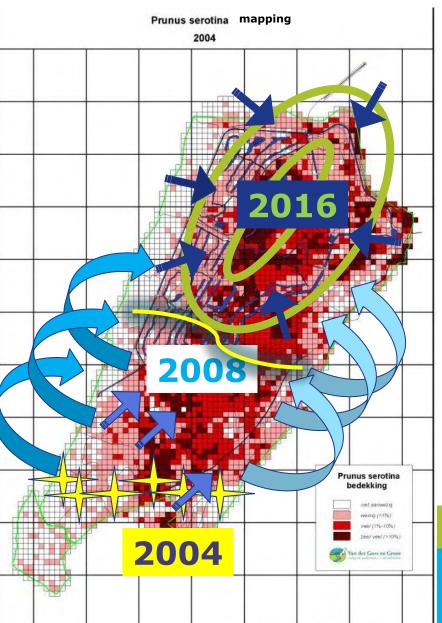




Our plan









Clearing + cutting 1000

ha

Mowing 80

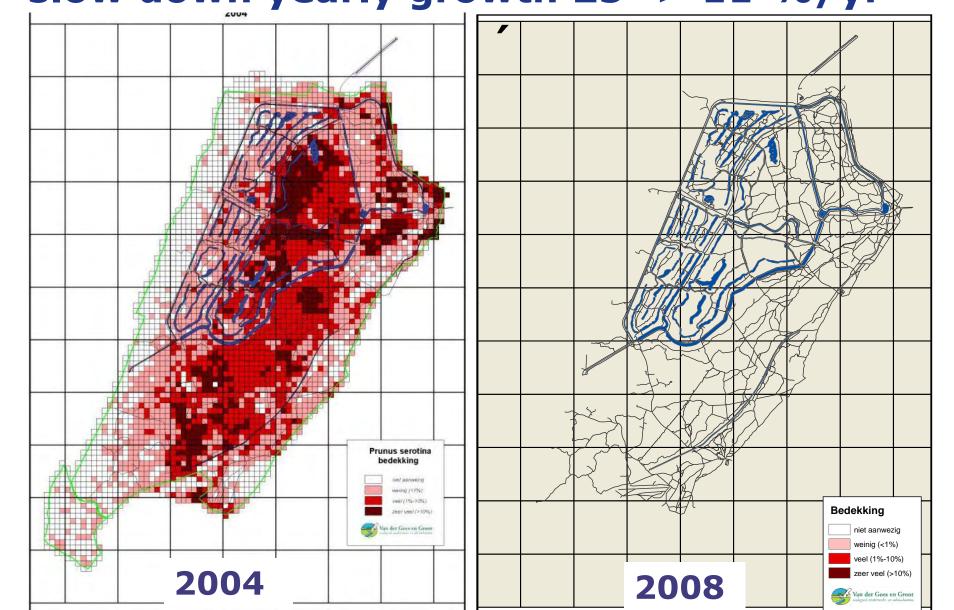
Grazing 1400



NO herbicides



In 2008 presence 75% -> 77% slow down yearly growth 25 -> 11 %/yr















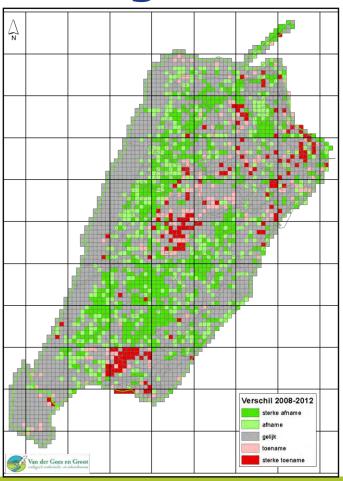






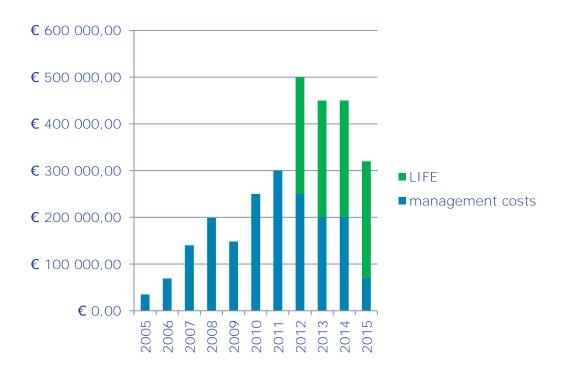


Management effect 2008 - 2012





Managment costs



• 2012-2016 LIFE+ prunus € 1.000000















Lessons and conclusion Dutch dune areas

- Detect invasive species in an early stage.
- Invest everything to eliminate the invasive species
- Grazing
- Make a strategic plan
- No compromises
- Communication
- Management is very costly
- In case of a beginning invasion:

don't think it's too late, it even will get worse



Recommendations

Investigate potential invasions!

Start management A.S.A.P!







