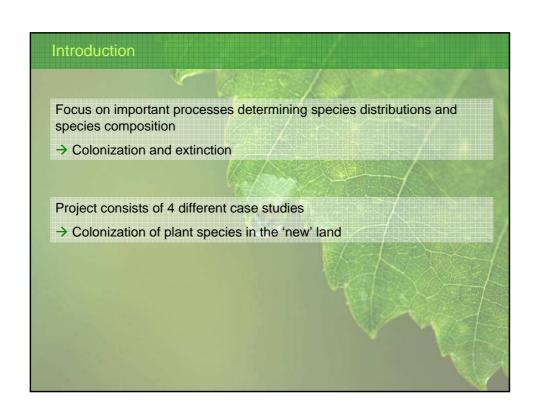


## NEN: National Ecological Network Increasing spatial cohesion of nature areas in The Netherlands. • What will happen to the distribution of plant species in a changing environment (due to climate change)? • Is it necessary to adjust the design of the NEN for species to be able to move to stay in their suitable habitat?



## Introduction

The Dutch polders (land reclaimed from the sea):

Unique area to study colonization processes from source populations to a new area.

- land recently reclaimed from the sea
- · 'zero' situation is clear
- focus on forest species

## Introduction

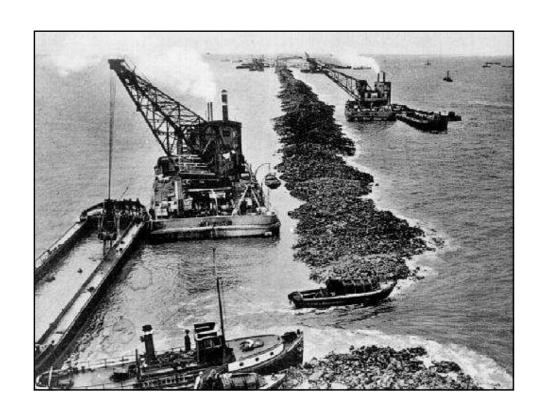
How fast do plant species colonize the new land and how fast do they move through the landscape?

Which factors determine the colonization rate?

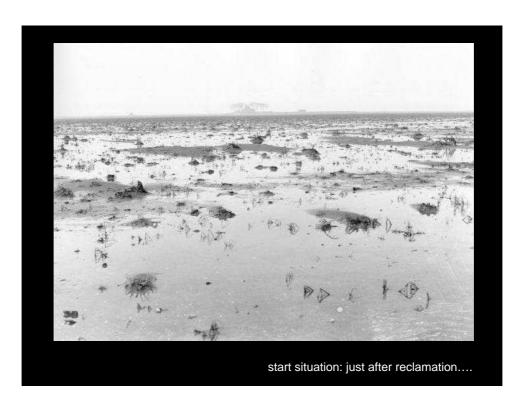
- Distance to main land, distance to nearest source population
- Patch age, patch size
- Plant traits
  - Dispersal mode
  - Seed production
  - Longevity (seedbank)

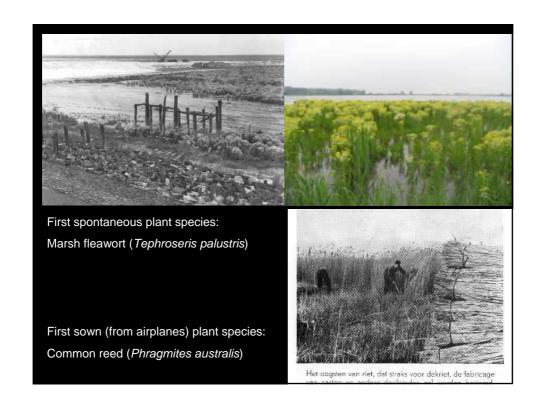
















## Fieldwork: Forests in Noordoostpolder and Oostelijk Flevoland surveyed in 1993 • repetition of species inventarisation in these forests in 2006 - walking through the forests - recording all species in understorey - abundance estimation following Tansley scale Forests in southern Flevoland (youngest polder) surveyed in june 2007 • to complete overview of the area



