
Integrated Nordic-Baltic
Genebank Information Management System
Jan Svensson
Nordic Genetic Resource Centre
#NordGen

Genebank

= ≈ ≠

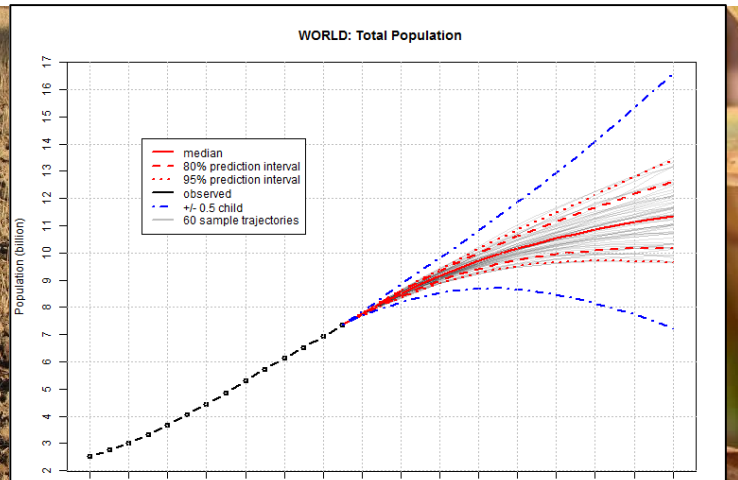
Biobank

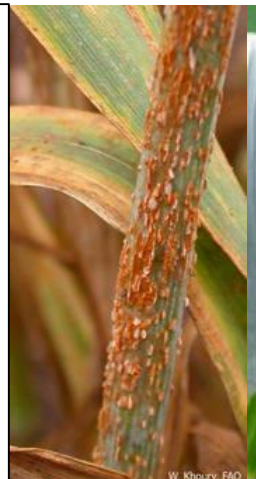
Genebank

- conservation of plant genetic resources (PGR)
- utilization of PGR (public domain)
- cooperation and communication
- documentation -> open data access

Importance of PGR – changing climate

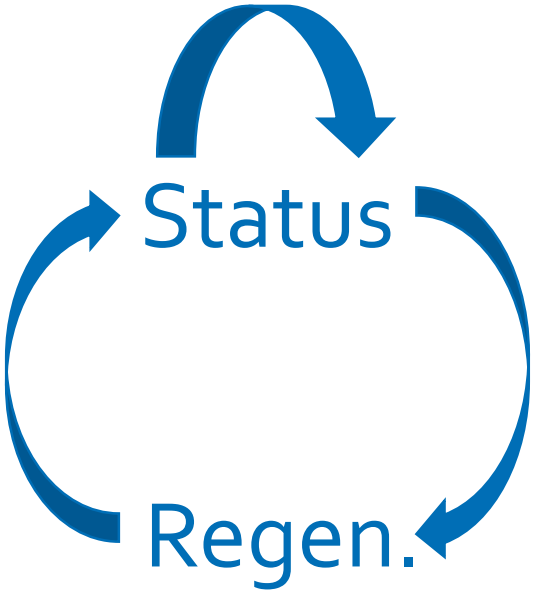
- abiotic stress (drought, flooding, weather extremes)
- biotic stress (changes in disease pressure)
- broad genetic base
- PGR is the basis for adaptation for resilient and sustainable agriculture





Genebank workflow

- living material
- regeneration
- characterization/evaluation








149992

58896

NordGen current database

-passport data

-inventory

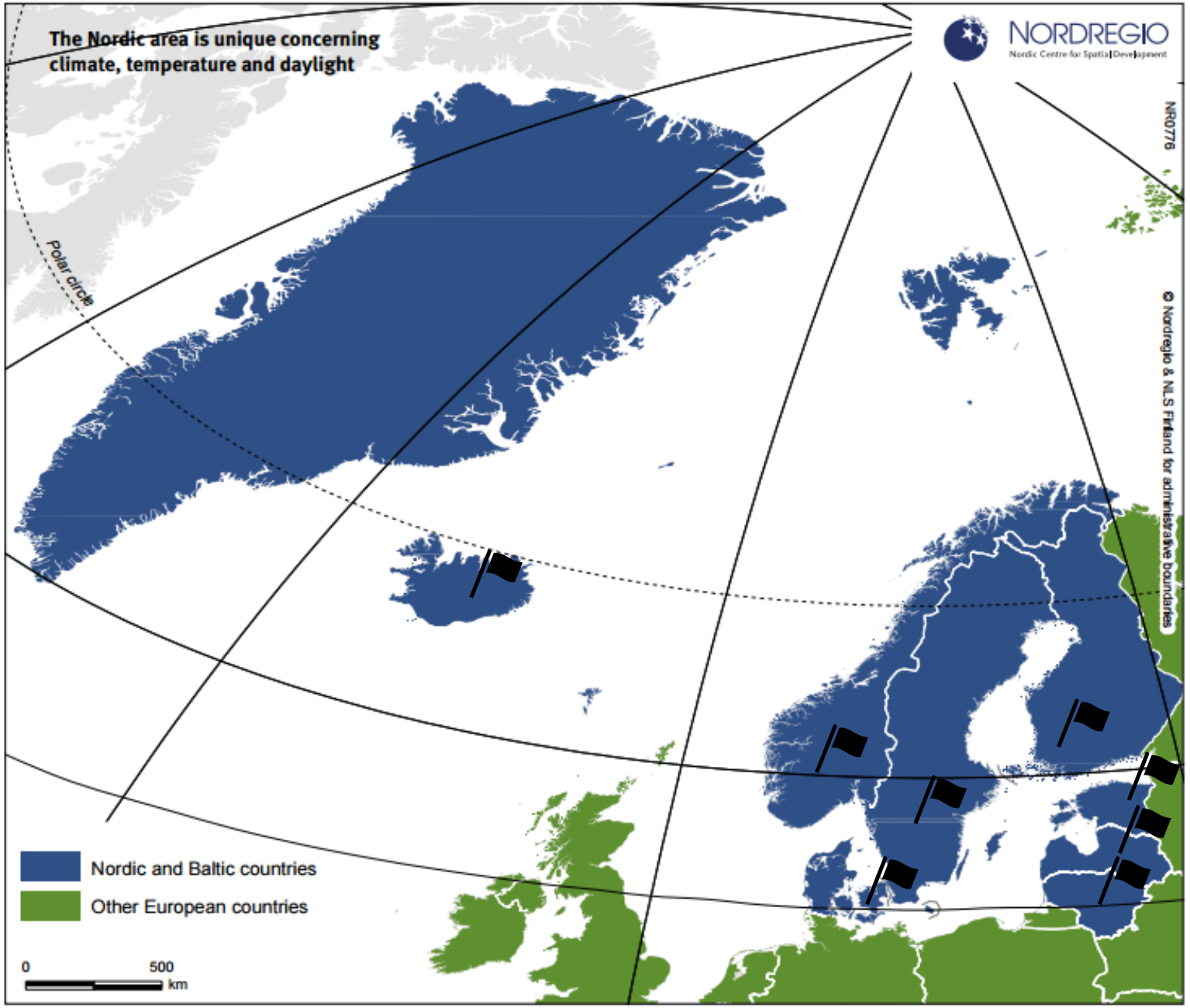
-quality

-amount

-location

-order system (SMTA)


Integrated Nordic-Baltic
Genebank Information Management System



Map layout: Linus Rispling, Nordregio

The future GRIN-Nordic-Baltic

-passport data

-inventory

-order system (SMTA)

-phenotype

-genotype

GRIN-Nordic-Baltic after launch

-FAIR data principles

-GIS data

-data analysis tools

-connectivity to other db.

-integrated QMS

-natural language processing

Thank you!

Three species, maize, rice and wheat supply
42.5 % of the world calorie intake (FAO).

jan.svensson@nordgen.org

>10,000 plants species are edible