

Graminor

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Market and product manager

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 **Graminor**

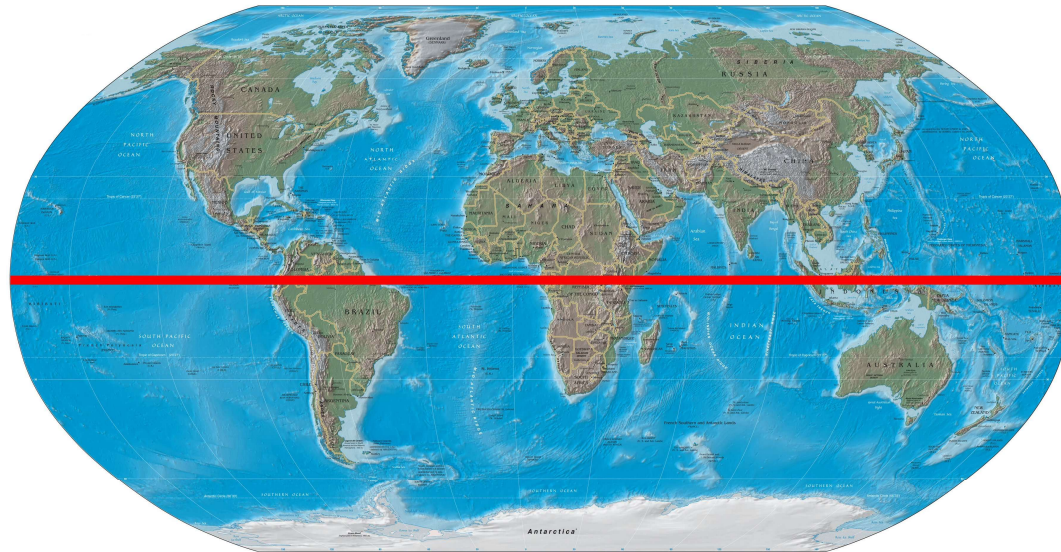
Graminor

- Only plant breeding company in Norway.
- Established in 2002 to supply the Norwegian farmers with the best possible adapted varieties of important agricultural crops.
- Breeding activities take place in the head office at Bjørke Research Station, near the city of Hamar in South-Eastern Norway, and Njøs Fruit and Berry Centre in Njøs near Sogndal city in South-Western Norway.
- Graminor has 36 employees (7 breeders).
- Owned by the Norwegian Government, Felleskjøpet Agri, Strand Unikorn AS, Gartnerhallen SA, and Graminor AS.



Mission

- To make available to the agricultural and horticultural industry the best plant varieties suited for Norwegian and Nordic growing conditions.
 - Increased food production based on Norwegian resources.
 - Climate adapted and healthy varieties.

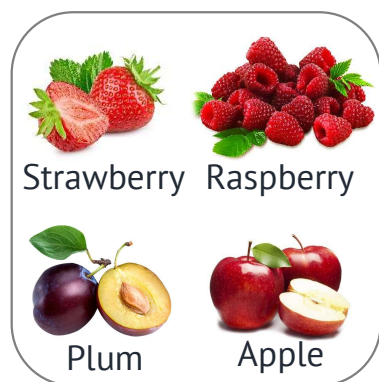


Mission

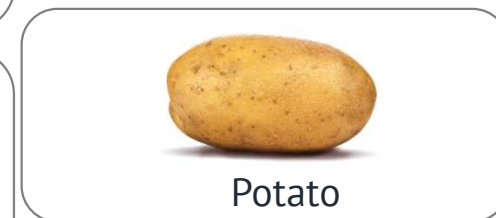
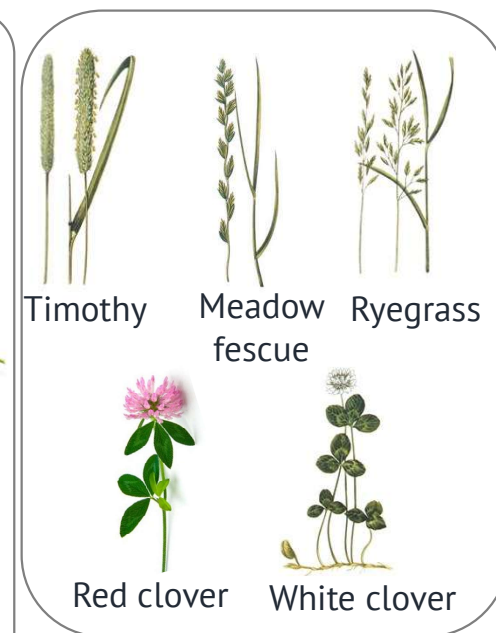
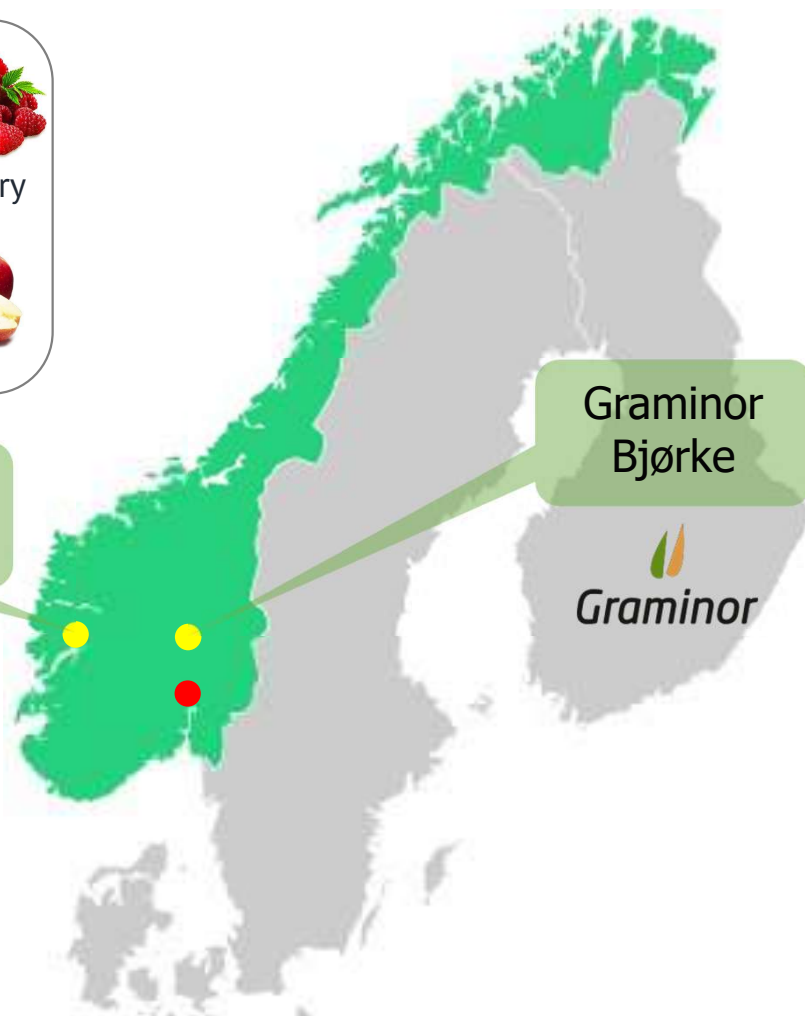
1. Develop new plant varieties, own breeding programs
2. Test and represent foreign varieties
3. Responsible for production of pre basic material (seeds-Graminor, seed potatoes-Overhalla, elite plants-Sagaplant)



14 (+2) breeding programs

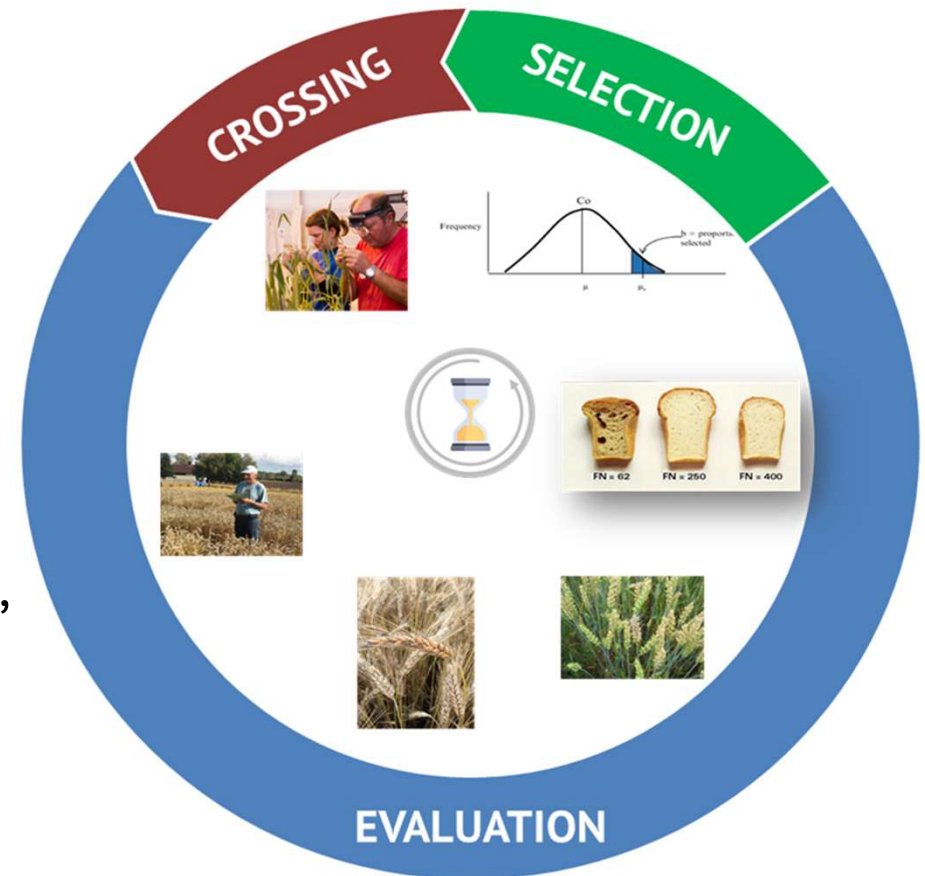


Graminor
Njøs



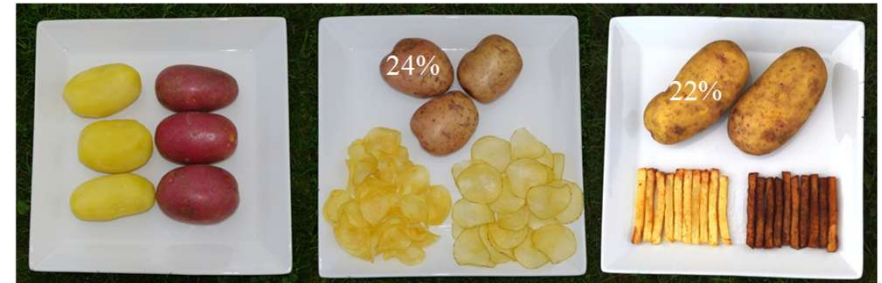
Plant breeding

- ✓ Plant breeding is one of the most sustainable way to improve food security
- ✓ Breeding main steps are – (pre-breeding) crossings, evaluation and selection
- ✓ It takes between 10-20 years to produce a new improve cultivar.
- ✓ Challenges: genome complexity, multi-trait, $G \times E$
- ✓ Plant breeders all the time seek for methods that can increase their selection efficiency and accuracy at low cost

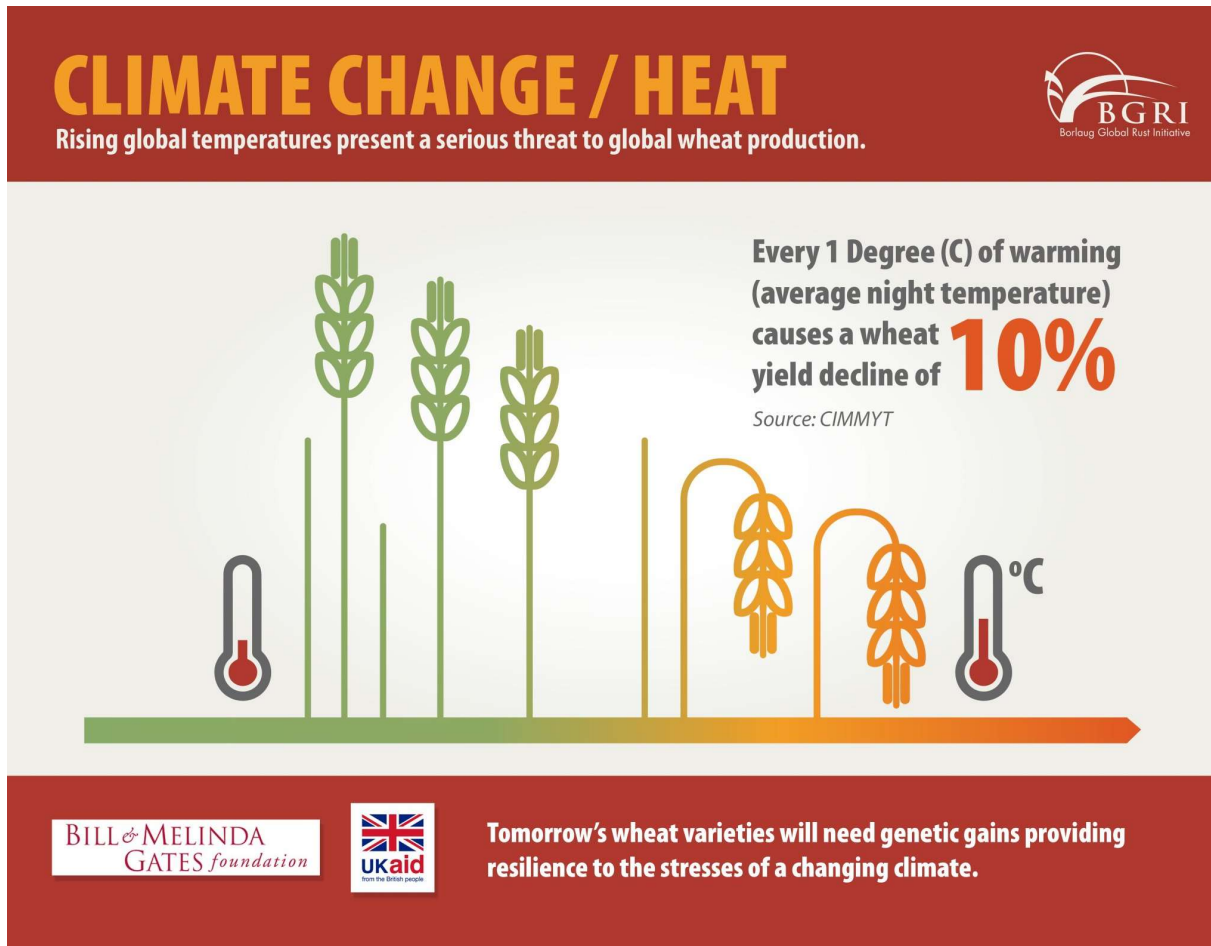


Breeding goals

- **HIEGH YIELD**
- Adaptation to climate
- Disease resistance
- Type of production (late, early, everbearing...)
- **Qualities** – different between different market segments
- Durability



Food security



- Climate change
- Geopolitical instability

Bondebladet

Forventer enda mer ekstremt vær

Nordmenn må vente seg flere ekstreme tørkesomre, men også mer ekstremnedbør, mener klimaeksperter i ny rapport.



Sommeren 2018 var ekstrem. Men vi må være forberedt på enda varmere somre, og samtidig mer ekstremnedbør, mener klimaeksperter. Foto: Marit Glærum

Anders Sandbu

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Meteorologisk Institutt og NVE har gjort opp status for fjorårets tørkesommer. Samtidig ser fagfolkene på hva vi kan vente oss av fremtidige somre. Funnene fremgår av den nye rapporten «Tørkesommeren 2018», som du kan lese i sin helhet [her](#).

 **Graminor**

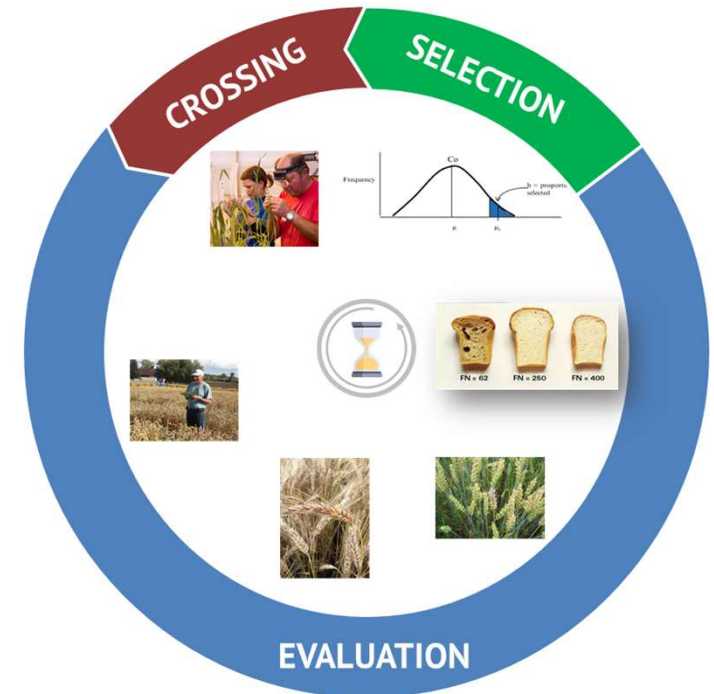
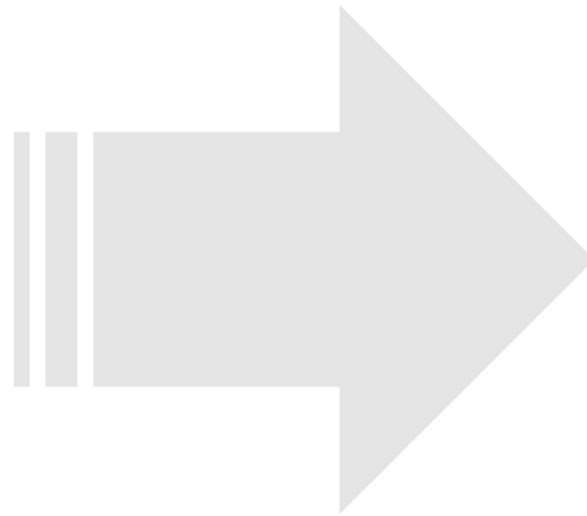
Halverte kornavlinger



Tørke og flom har ført til at kornåret 2023 endte med å bli historisk dårlig, melder Felleskjøpet. Små avlinger og dårlig kvalitet gir svært lav tilgang på korn ved inngangen til 2024.



Enable genomic and phenomic technologies

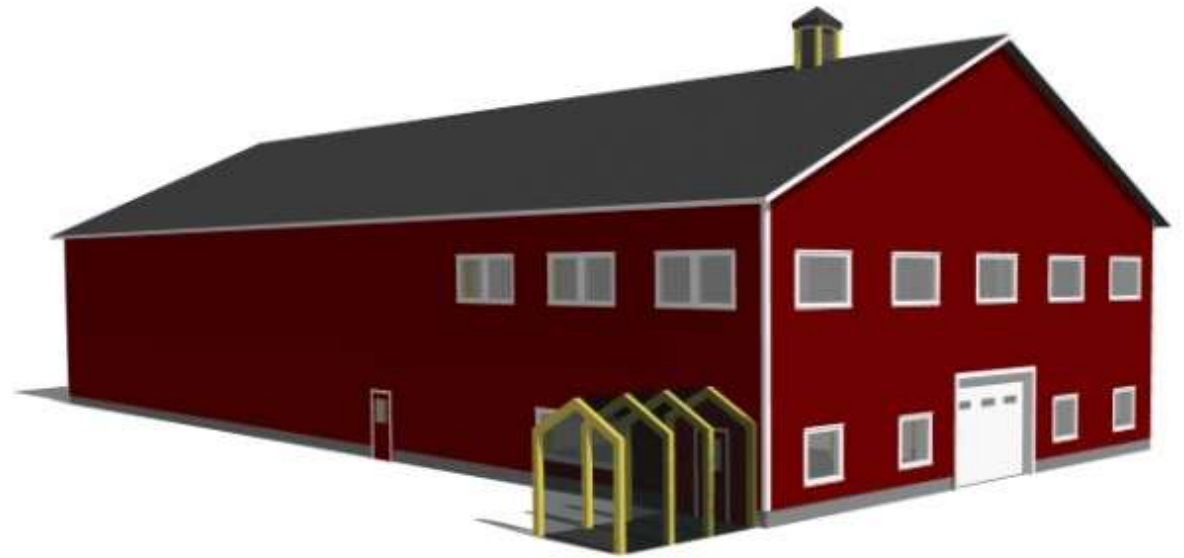


Efficiency | PrecisionFirst to market

Graminor 2.0

New building –

- "Speed breeding" platform
 - Walk-in growth chambers
 - Robots
 - Laboratories
 - IT-system (AI)



Automated DNA
extraction system



Stationary leaf collection robot

 **Graminor**

Nordic Public Private Partnership for Pre-breeding (PPP)

- ✓ Nordic collaboration between practical plant breeding and plant breeding research – since 2012.
- ✓ Funded by the Nordic countries and plant breeding entities (50/50), and the secretariat is placed at NordGen.
- ✓ PPP aims to:
 - strengthen plant breeding in the Nordic countries
 - promote sustainable use of genetic resources in the Nordic region
 - introduction of new traits in commercial breeding
 - development of efficient tools and methods
 - *Network (pre-competitive collaboration)*



 Nordic Council
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Estonian University of Life Sciences



 Luke
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 Graminor

 Boreal

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 Sejet
plant breeding

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 Nordic Seed

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