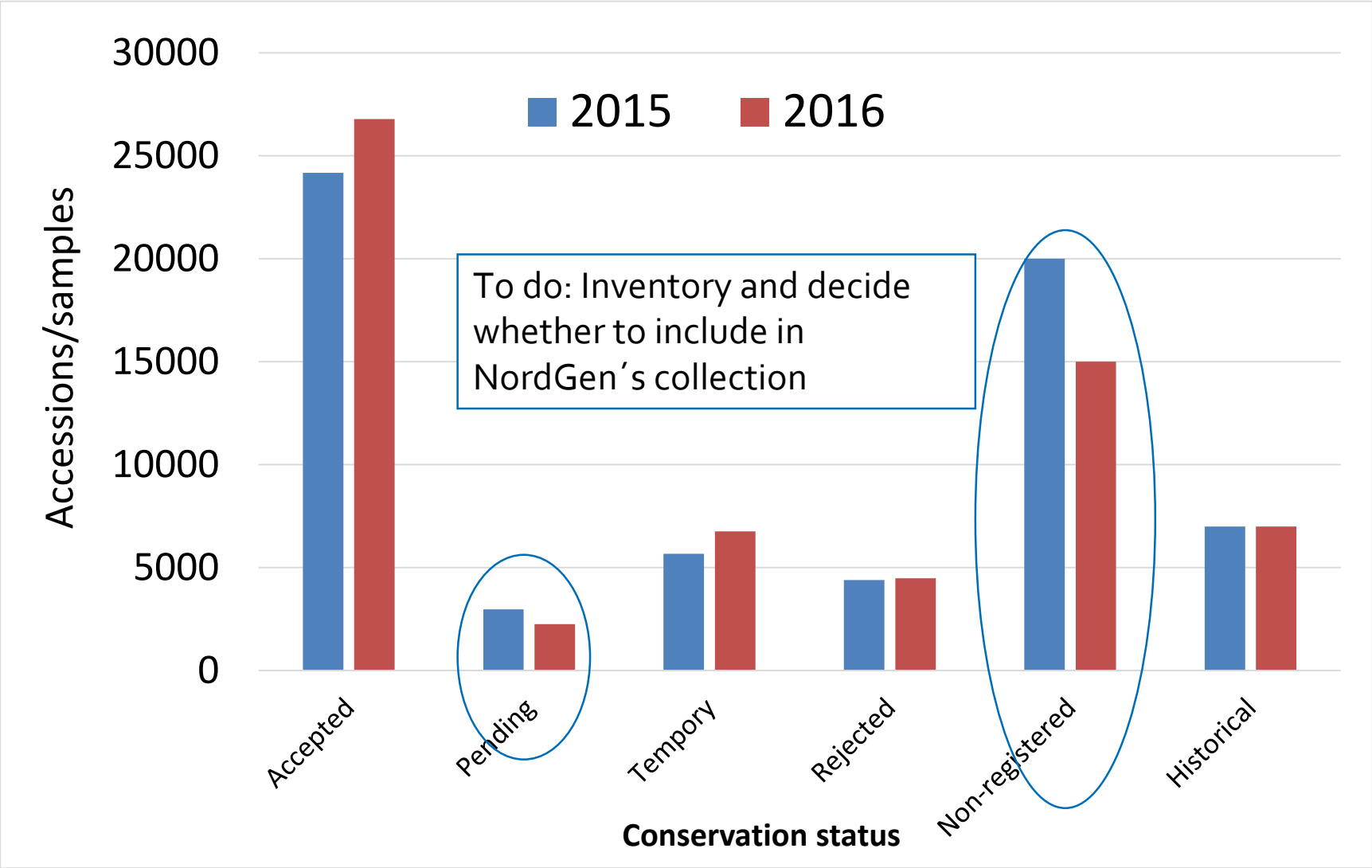


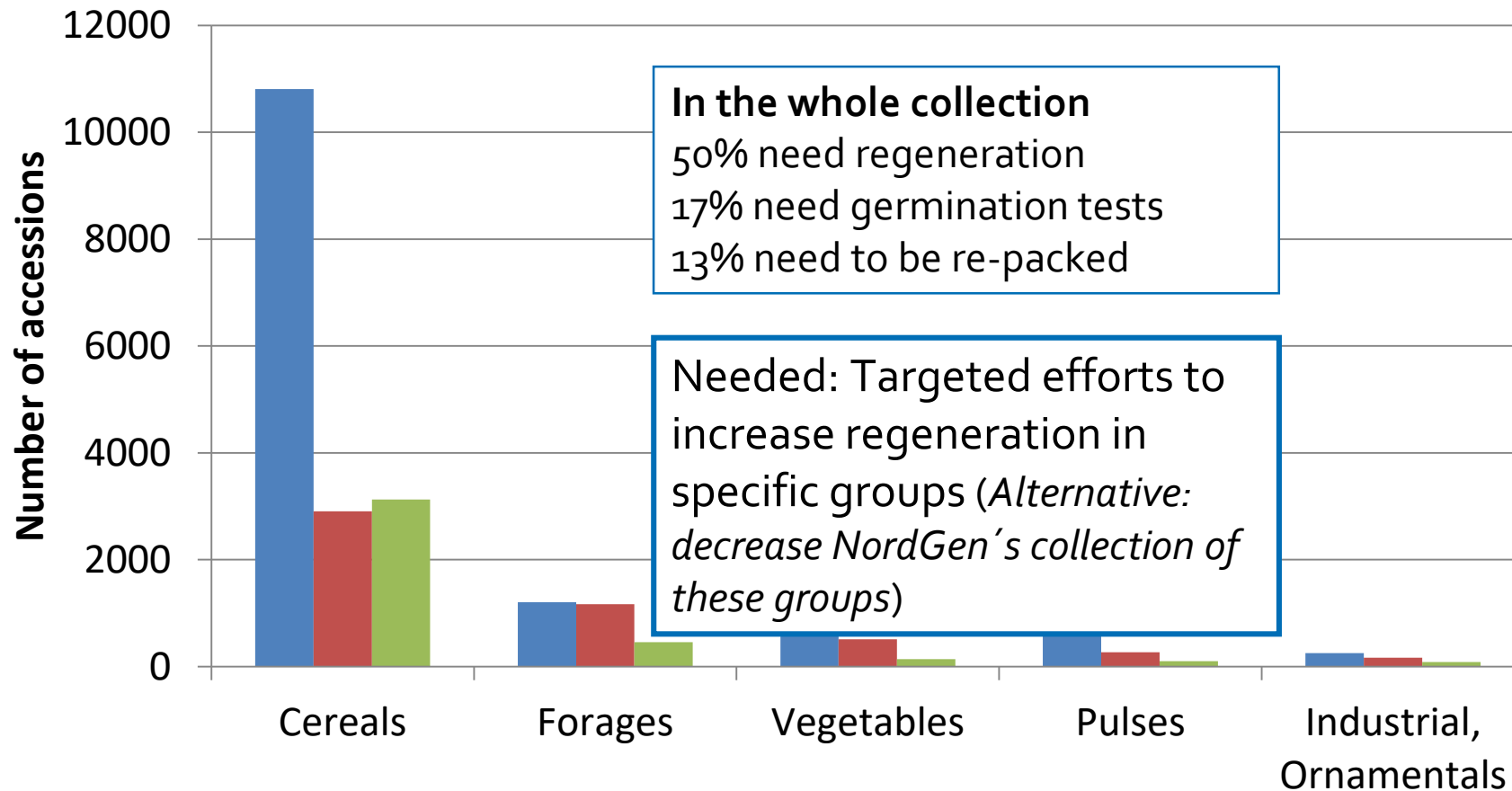
NordGens status 2021

med fokus på
kollektionen

Back-log: Unregistered/pending material



The number of accessions that need regeneration, germination test or repacking – estimated 2015



Hvad kræves for at få et NordGen Planter uden back-log?

- Prioritering! (nuværende budget rækker ikke til alt)
 - Inden for den nuværende budgetramme
 - Ansøgninger om ekstern finansiering eller andre midler
- **Information om status – medførte mange midler**
- Planlægning
 - Vores tilgang var/er: at vigtige aktuelle opgaver løses samtidig med at back-loggen reduceres
 - Investeringer for at øge effektiviteten



Hvad har vi gjort i de seneste år?

— Øget fokus på frølaboratoriet og regenerering

- øget regenereringskapaciteten (mere end fordoblet)
 - Personale, uddannelse, drivhusfaciliteter, markareal, isoleringsbure, **extern regenerering**
- øget kapaciteten i frølaboratoriet
 - Personale, uddannelse, udstyr, udvidelse af frølaboratoriet

— In vitro

- Øget kapacitet og back-up
- Fået midler til virusrensning af flere accessioner

— Udvikling af kvalitetssikringssystem

— Ny database

— + mange andre projekter



Backlogs 2019 og 2021 – Laboratory tasks



Workpackage 1	ACC + PEN in sept 2019	Status by February 2021
Final decision, PEN (regeneration need)	269	No back log
Cleaning and purity of uncleaned samples *	500	250
Germination tests of the above*	500	250
Re-packing back-log	3896	2730
Final decision on all accepted pea accessions	240	No back log
All accession in need for checking (case 19 and 20 lab tasks only in 2020)	1629	No back log

Over all status of the collection

3 work packages:

Laboratory tasks
– mainly

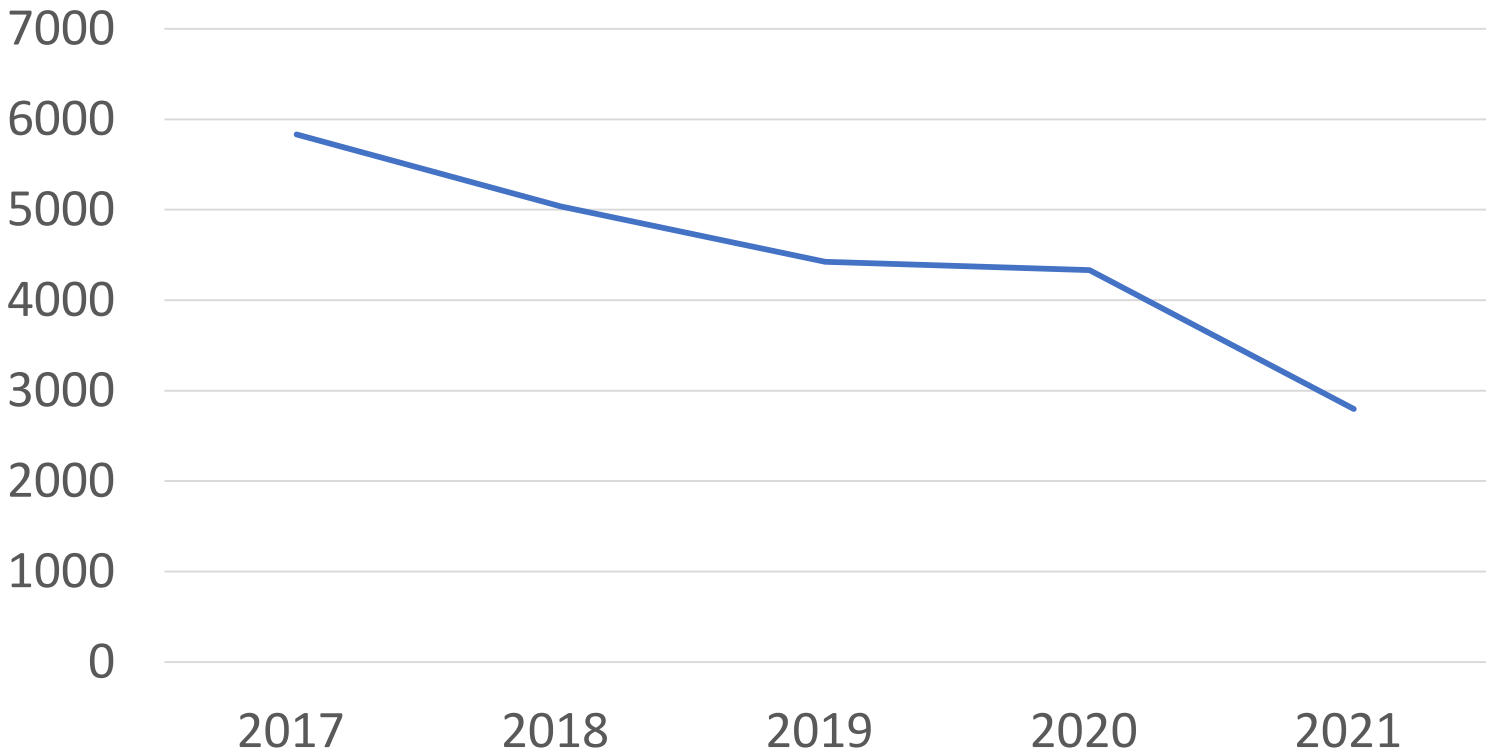
Regeneration –
backlog

Regeneration of
material that
need checking

Reporting progress in 10 mill project	2017	2018	2019	2020	2021
	Dec	Sept	Sept	Feb	Feb
Accessions that need regeneration	5832	5038	4426	4332	2798
Accessions that need germination test	841	1507	777	251	132
Accessions that need packing	5338	4458	4478	3680	2730
Accessions that need further checking to determine status	2528	2066	1620	1567	0
•Accessions with the mandate PEN	2260	1388	1242	1092	632

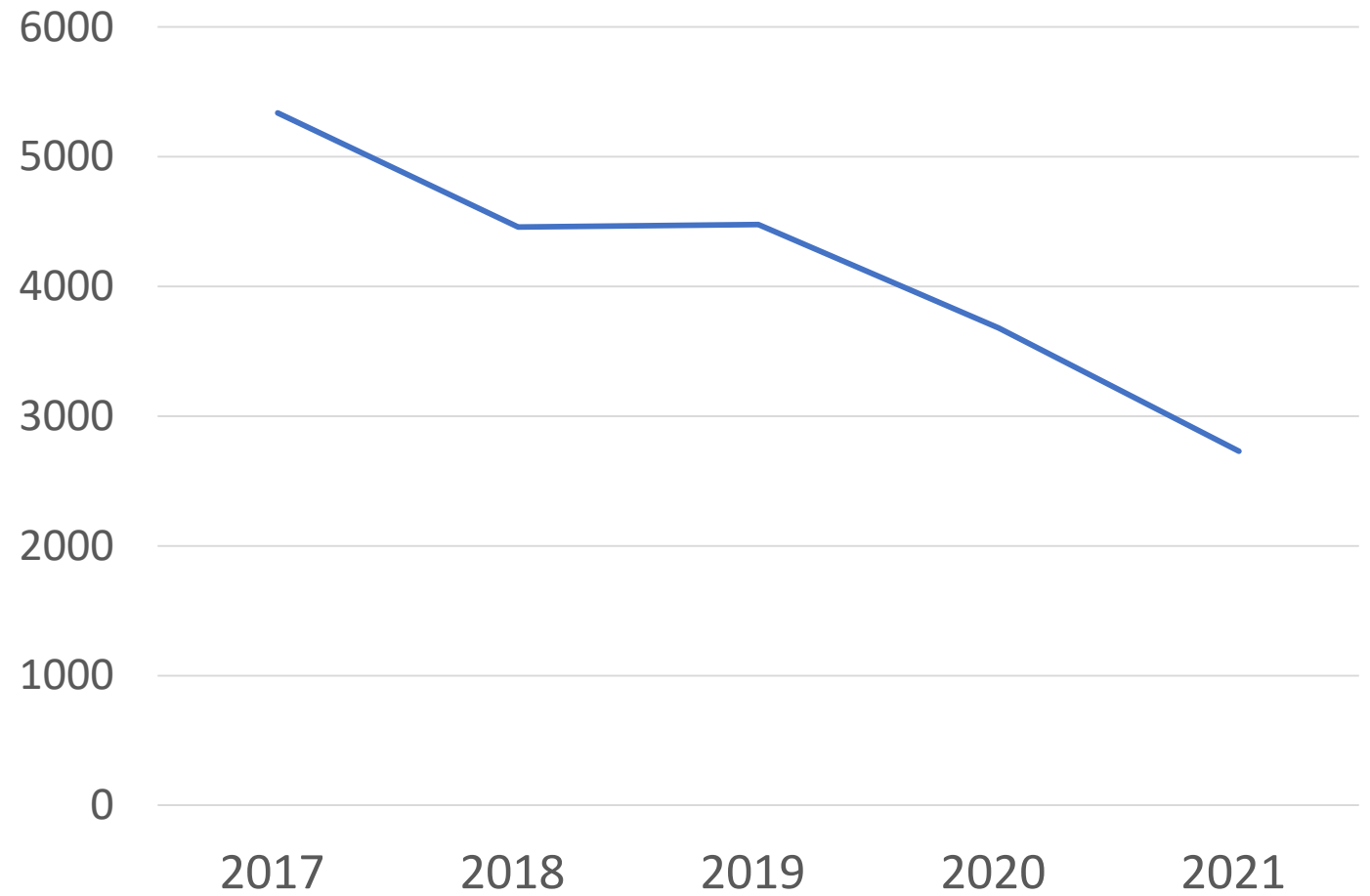
- Excluding PEN from Greenland – 2021

Number of accessions in need for regeneration



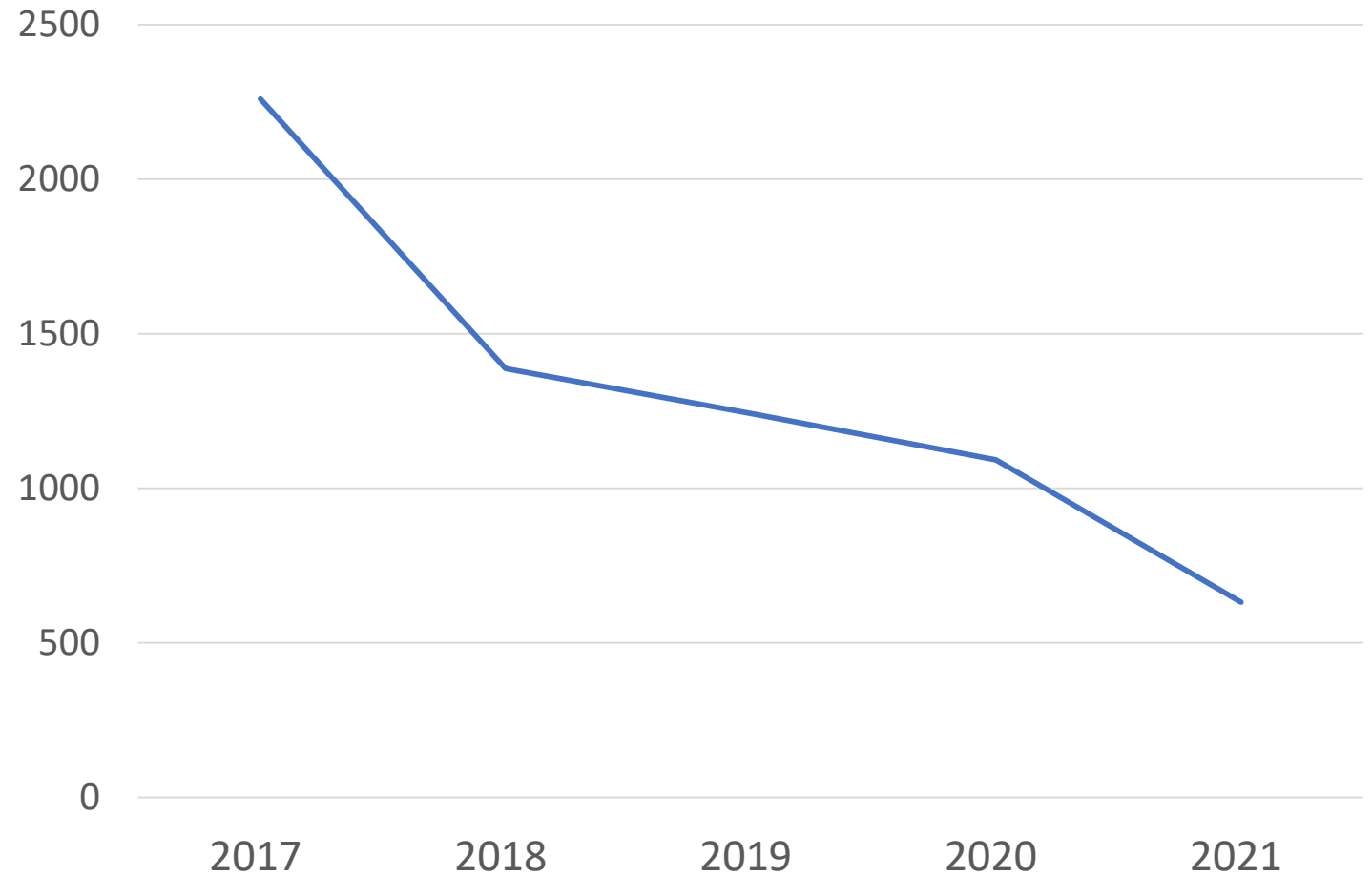
Accessions that need re-packing

974 accessions to be repacked in 2021



Number of Pending accessions

251 pending accessions to be decided on in 2021



NordGen aktive samling

Year	2021
Cereals	21938
Fodder crops	4904
Fruit and berries	18
Potato	128
Rootcrops, industrial	1690
Vegetables	5022
Medicinal and herbs	489
Ornamentals	275
I alt	34464



Kartofler

sidste pr
Liste over accessioner, som er virusrenset

NGB number	Acc name	Donor country and Institution/person
NGB20401	Løgumkloster	Denmark (Carl Christian Sjøholm)
NGB31474	Thy	Denmark (Holms Planteskole)
NGB20396	Samsø Sharpes Express	Denmark (Samsø museum)
NGB20404	Reyd Epli	Faroe Islands (Gunnar Bjarnason)
NGB24298	Metsälä	Finland (Anna Ristsatama)
NGB25873	Norjalainen Laivaperuna	Finland (Juha Raistakka, Luke)
	Vaanin herkku	Finland (Veli-Matti Rokka, Luke)
NGB24297	Luröpotatis	Sweden (Åsa Rölin, Bodaholms Gård)
NGB23571	Himalaya	Sweden (Göteborgs Botaniska Trädgård)
NGB24281	Rally	Sweden (Göteborgs Botaniska Trädgård)
NGB31472	Kalmar röd	Sweden (Göteborgs Botaniska Trädgård)
NGB24873	Karatspotatis	Sweden (Göteborgs trädgårdar)
NGB23640	Granuddspotatis	Sweden (Jokkmokks Fjällträdgård)
NGB20395	Lillhärjåbygget	Sweden (Lillhärjåns Jordbruk)
NGB20400	Blå Märta	Sweden (Märta Nordling)



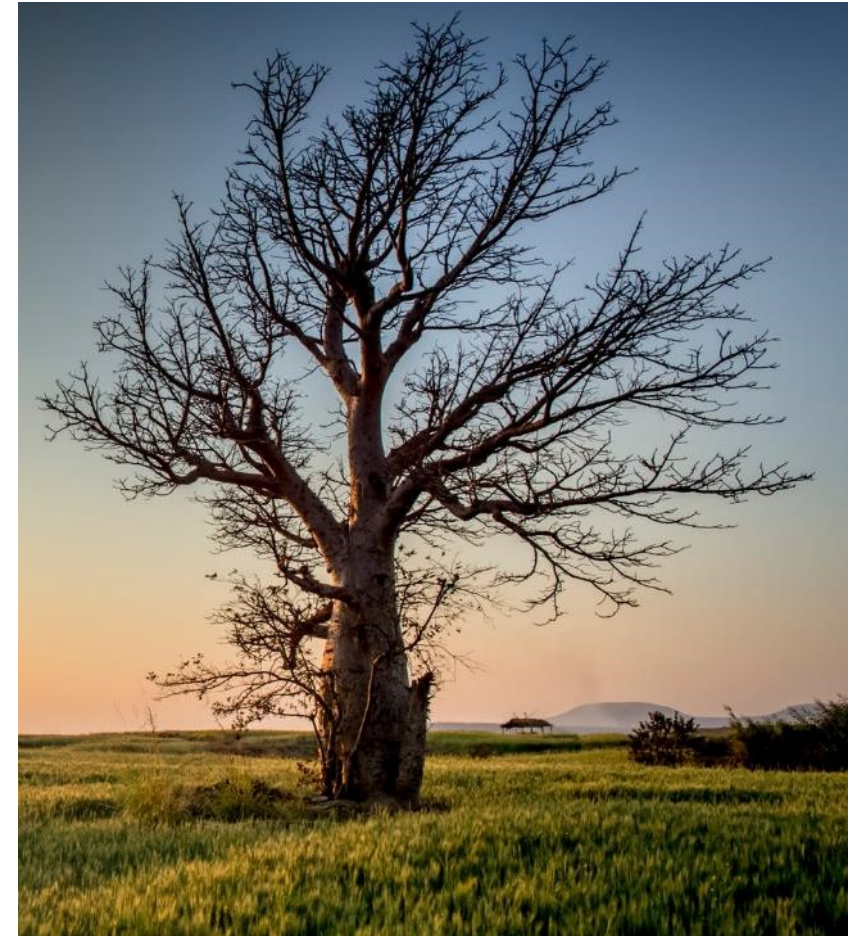
Kartoffel (*Solanum tuberosum*).

Ny database

An analogy!



SESTO



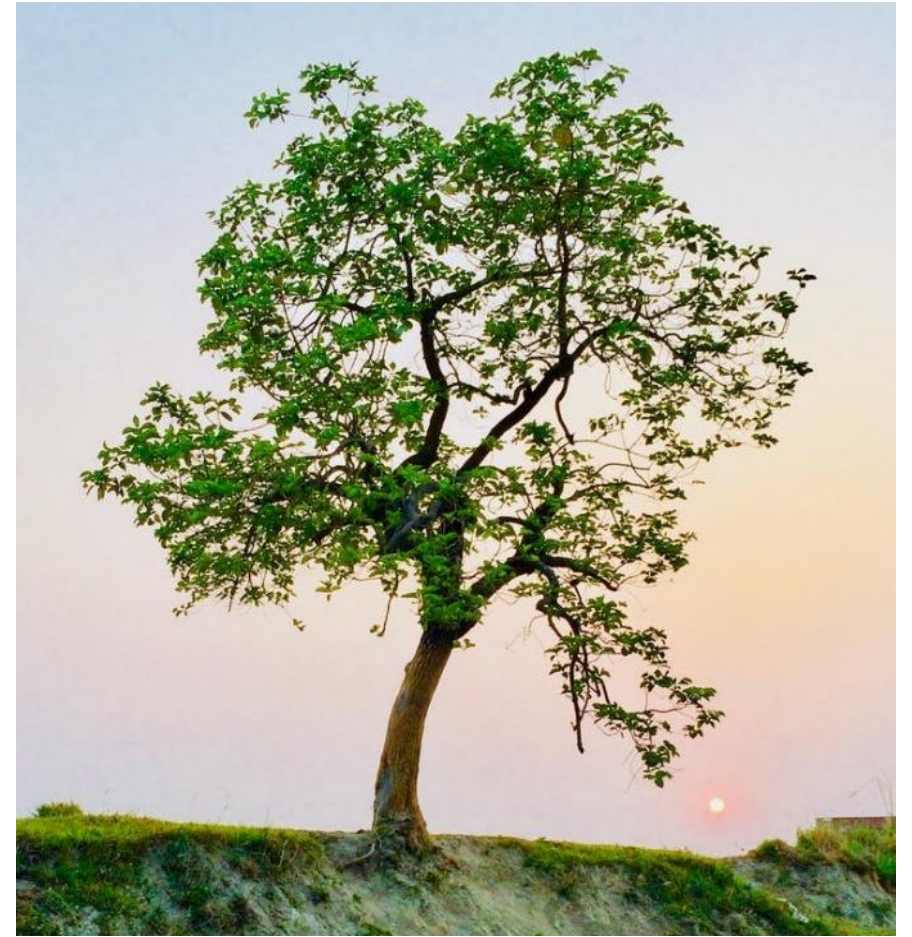
Empty GRIN-Global



The real SESTO



Define structure

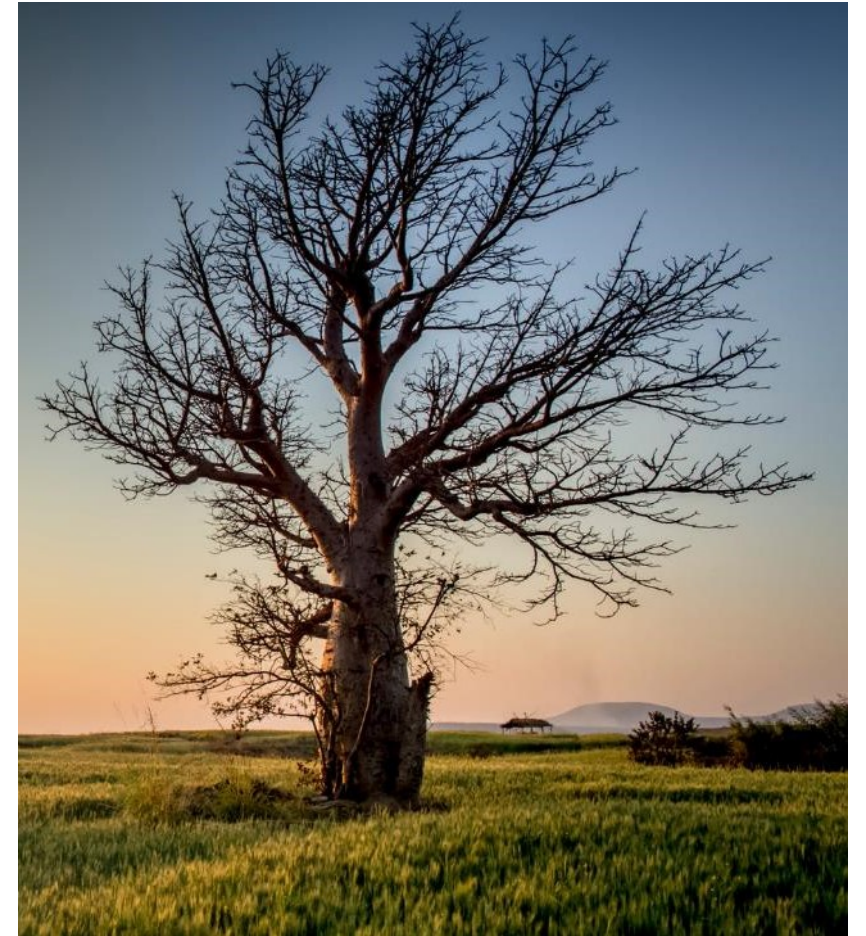


Recreated virtual SESTO

An analogy!



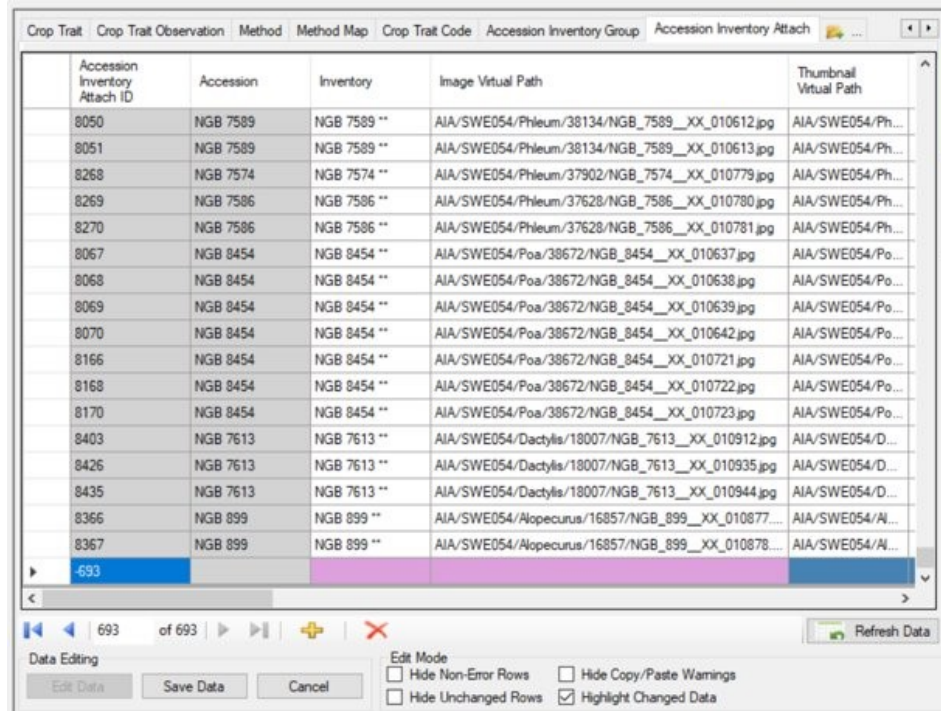
SESTO



Empty GRIN-Global

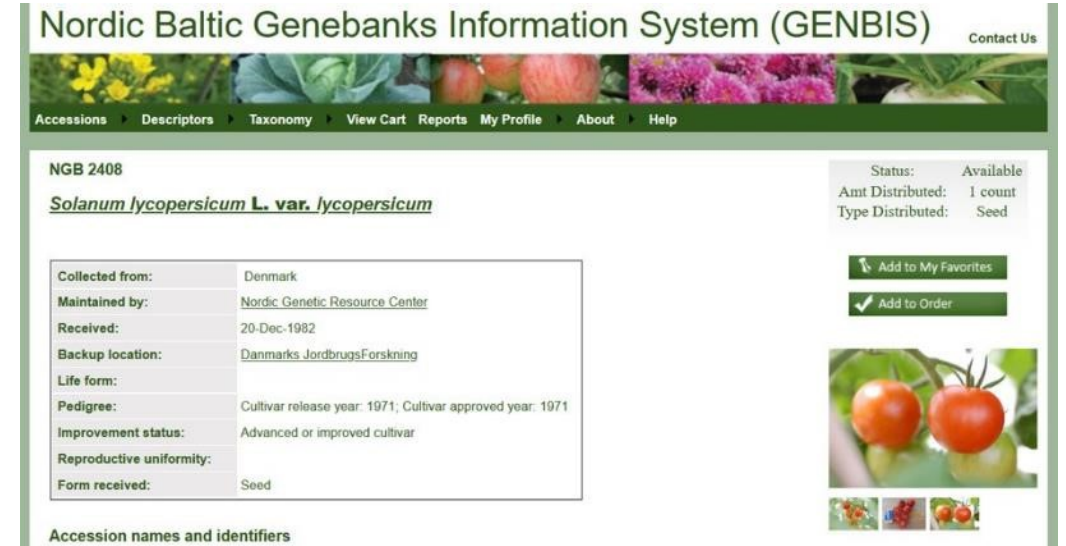


GENBIS



The screenshot shows a web-based data table with the following columns: Accession Inventory Attach ID, Accession, Inventory, Image Virtual Path, and Thumbnail Virtual Path. The table contains 20 rows of data, with the last row (693) highlighted in blue. Below the table, there are navigation controls and a 'Data Editing' section with options like 'Save Data', 'Cancel', and 'Refresh Data'.

Accession Inventory Attach ID	Accession	Inventory	Image Virtual Path	Thumbnail Virtual Path
8050	NGB 7589	NGB 7589 **	AIA/SWE054/Phleum/38134/NGB_7589__XX_010612.jpg	AIA/SWE054/Ph...
8051	NGB 7589	NGB 7589 **	AIA/SWE054/Phleum/38134/NGB_7589__XX_010613.jpg	AIA/SWE054/Ph...
8268	NGB 7574	NGB 7574 **	AIA/SWE054/Phleum/37902/NGB_7574__XX_010779.jpg	AIA/SWE054/Ph...
8269	NGB 7586	NGB 7586 **	AIA/SWE054/Phleum/37628/NGB_7586__XX_010780.jpg	AIA/SWE054/Ph...
8270	NGB 7586	NGB 7586 **	AIA/SWE054/Phleum/37628/NGB_7586__XX_010781.jpg	AIA/SWE054/Ph...
8067	NGB 8454	NGB 8454 **	AIA/SWE054/Poa/38672/NGB_8454__XX_010637.jpg	AIA/SWE054/Po...
8068	NGB 8454	NGB 8454 **	AIA/SWE054/Poa/38672/NGB_8454__XX_010638.jpg	AIA/SWE054/Po...
8069	NGB 8454	NGB 8454 **	AIA/SWE054/Poa/38672/NGB_8454__XX_010639.jpg	AIA/SWE054/Po...
8070	NGB 8454	NGB 8454 **	AIA/SWE054/Poa/38672/NGB_8454__XX_010642.jpg	AIA/SWE054/Po...
8166	NGB 8454	NGB 8454 **	AIA/SWE054/Poa/38672/NGB_8454__XX_010721.jpg	AIA/SWE054/Po...
8168	NGB 8454	NGB 8454 **	AIA/SWE054/Poa/38672/NGB_8454__XX_010722.jpg	AIA/SWE054/Po...
8170	NGB 8454	NGB 8454 **	AIA/SWE054/Poa/38672/NGB_8454__XX_010723.jpg	AIA/SWE054/Po...
8403	NGB 7613	NGB 7613 **	AIA/SWE054/Dactylis/18007/NGB_7613__XX_010912.jpg	AIA/SWE054/D...
8426	NGB 7613	NGB 7613 **	AIA/SWE054/Dactylis/18007/NGB_7613__XX_010935.jpg	AIA/SWE054/D...
8435	NGB 7613	NGB 7613 **	AIA/SWE054/Dactylis/18007/NGB_7613__XX_010944.jpg	AIA/SWE054/D...
8366	NGB 899	NGB 899 **	AIA/SWE054/Alopecurus/16857/NGB_899__XX_010877...	AIA/SWE054/AI...
8367	NGB 899	NGB 899 **	AIA/SWE054/Alopecurus/16857/NGB_899__XX_010878...	AIA/SWE054/AI...



The screenshot shows the GENBIS website interface for accession NGB 2408. The header includes the title 'Nordic Baltic Genebanks Information System (GENBIS)' and a 'Contact Us' link. Below the header is a navigation menu with links for 'Accessions', 'Descriptors', 'Taxonomy', 'View Cart', 'Reports', 'My Profile', 'About', and 'Help'. The main content area displays the accession number 'NGB 2408' and the scientific name '*Solanum lycopersicum* L. var. *lycopersicum*'. To the right, there is a summary box showing 'Status: Available', 'Amt Distributed: 1 count', and 'Type Distributed: Seed'. Below this are two buttons: 'Add to My Favorites' and 'Add to Order'. A detailed information box on the left lists: 'Collected from: Denmark', 'Maintained by: Nordic Genetic Resource Center', 'Received: 20-Dec-1982', 'Backup location: Danmarks JordbrugsForskning', 'Life form:', 'Pedigree: Cultivar release year: 1971; Cultivar approved year: 1971', 'Improvement status: Advanced or improved cultivar', 'Reproductive uniformity:', and 'Form received: Seed'. At the bottom, there is a section titled 'Accession names and identifiers' and a small image of a tomato.

21. Januar 2021 – slut
Implementering – fuld fokus
Aftaler med øvrige brugere, Baltiske lande andre nordiske lande

Hvor mange accessjoner har Norge?

@accession.accession_number_part1 LIKE 'NOR%'

Search Results

Add To Query Clear Query

Accessions	Inventory	Orders	Cooperators	Accession Inventory Name	Accession
				NOR*	
Accession ID	Digital Object Identifier	Accession Prefix	Accession Number	Accession Suffix	Taxon

GRIN-Global Search v1.9.8.30

accession

Matching
 Any Word All Words List of Items

Search Criteria

@accession.accession_number_part1 LIKE 'NOR%'

Search Results

Add To Query Clear Query

Accessions Inventory Orders Cooperators Accession

Accession ID	Digital Object Identifier	Accession Prefix	Accession Number	Accession Suffix	Taxon
		NOR*			
49328	54838	NOR	46		Rheum x rhabarb...
49329	54180	NOR	26		Rheum x rhabarb...
49330	54862	NOR	67		Rheum x rhabarb...
49331	54837	NOR	45		Rheum x rhabarb...
49332	54829	NOR	37		Rheum x rhabarb...

Query Results v1.9.8.30

Found at least 152 'possible' matches in the database. Continue to retrieve data?

OK Cancel

Kvalitetssystem

- 254 godkendte arbejdsinstruktioner
 - mange nyreviderede som følge af GENBIS
- > 50 inden vi er i mål

Bas-lageret

Baslageret

Overfør indhold af 60 kummefrysere til 35m² walk-in freezer



+ 6 bas freezers in Alnarp

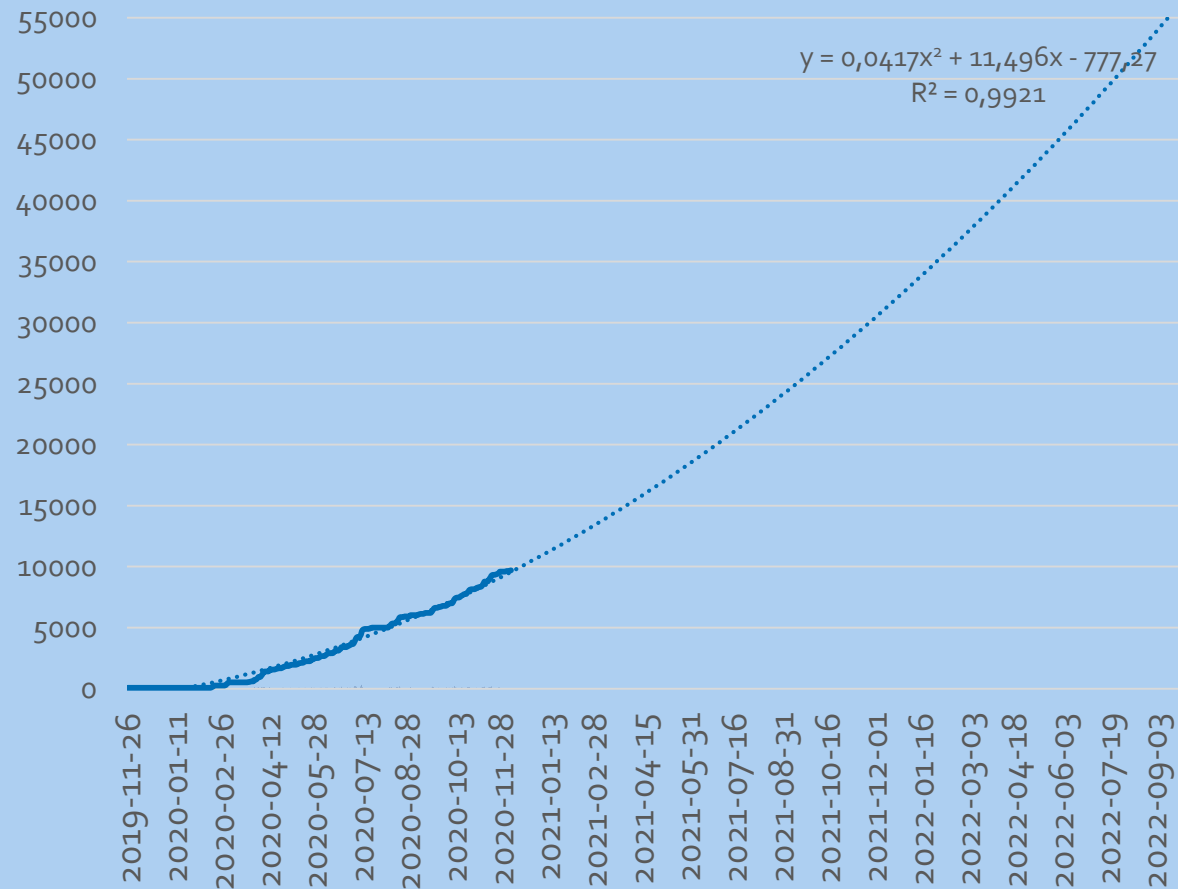


Flytning af baslageret



May 2020

2021 -2023

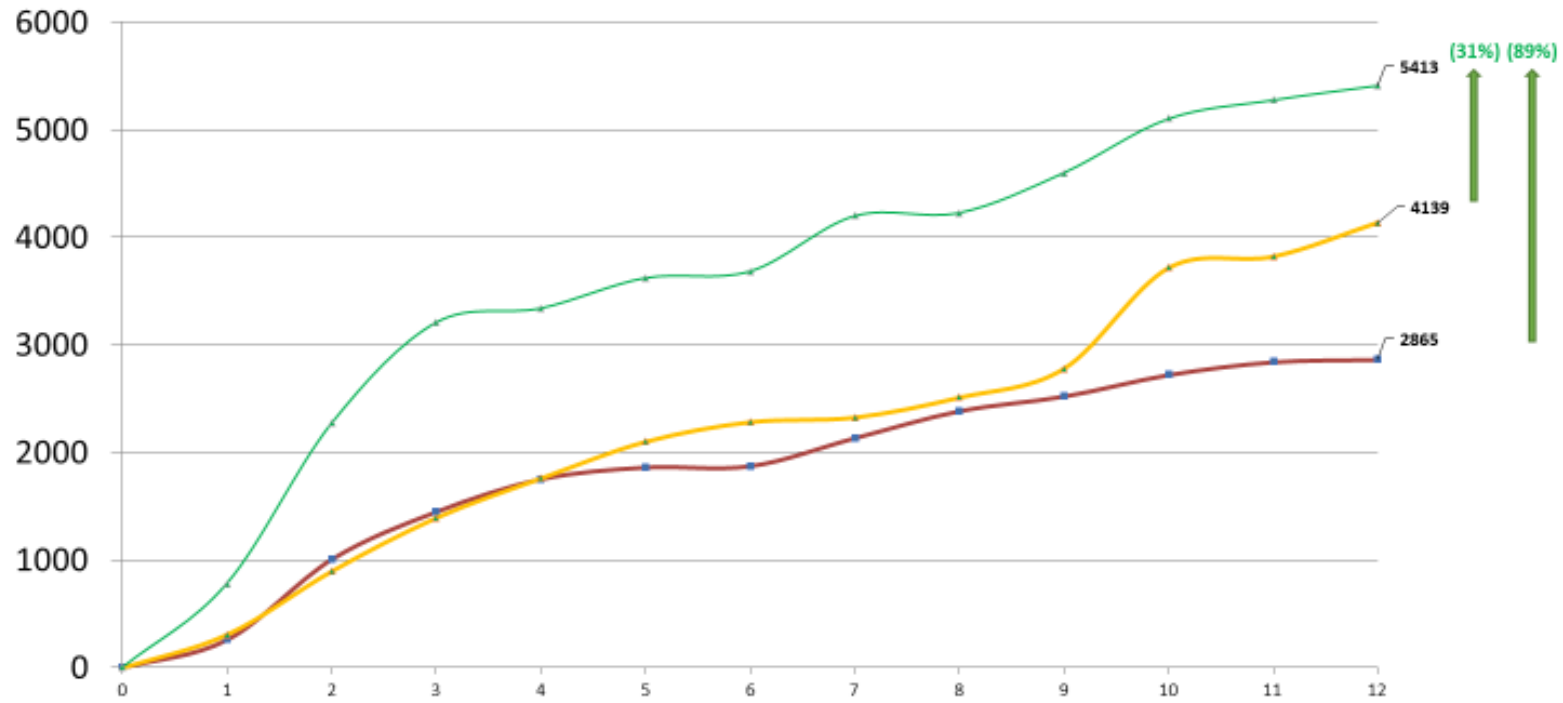


Ca 11 mill DKK fra
Novo Nordisk fonden
til infrastruktur

Andre fokusområder

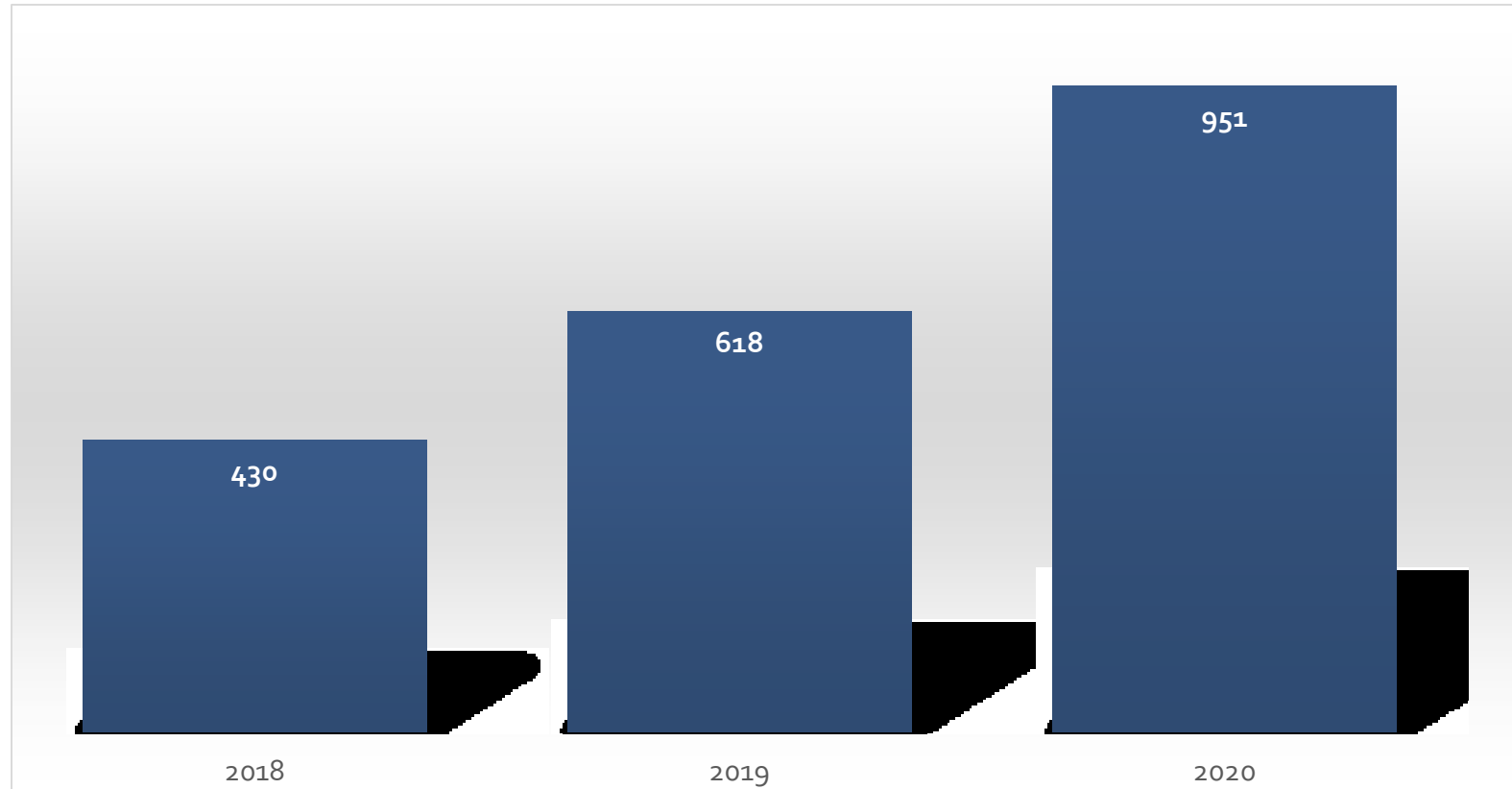
Samples sent

2018 2019 2020



Lidt statistik frøsalg

- antal ordrer 2018-2020



2021:
1080
ordrer

100 year project

Over all set up

- 13 species, 5 accessions of each – seed vault
- 3 species, 5 accessions of each – coal mine
- Accessions to be cultivated and harvested in three years
- 6 gene banks

- Samples to be tested every 10 year for germination, Kimen
- 1 set to IPK for chemical analysis

- 4 extra set of samples



NordGens opgaver i 100 års forsøget

- Dyrke og producere frø i 3 år af 5 timothe accessioner
- Modtage og håndtere alle accessioner fra de andre genbanker
 - Tørre dem ned
 - Dele dem ned til 16 poser
 - Bestemme vandindhold
 - Randomisere
 - Pakke til Svalbard, IPK og Kimen

Nyt hus



Ny organisation

