



# GRIN Czech

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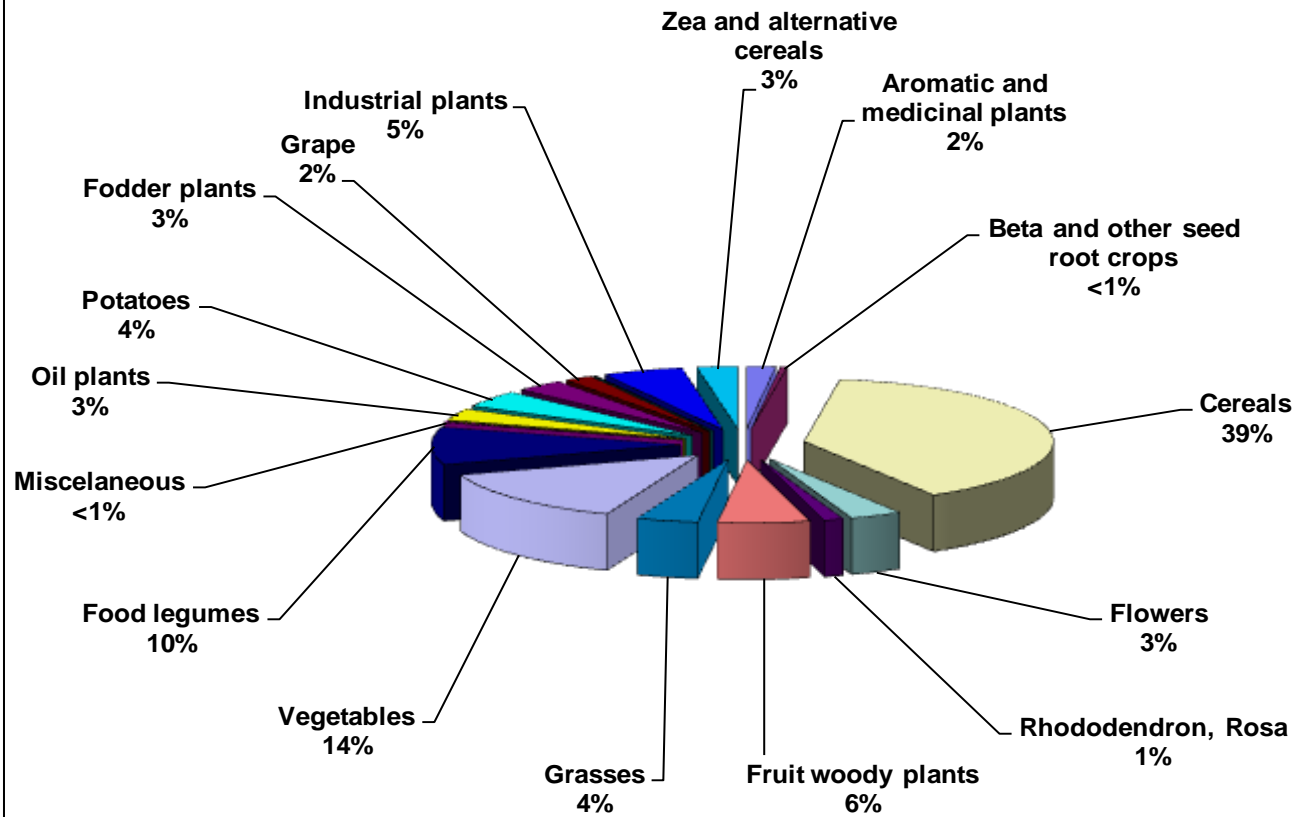


- National program for genetic resources - from 1993
- 12 institutions (16 working places); approx. 60 curators and technicians
- CRI – coordinating center; administration of database
- Passport data – 72 795 accessions (1 308 taxons)
- C&E data – 1 186 175 traits



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**Crop structure of Czech collections of plant genetic resources**





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## Former system:

- Evigez (till 2015)
- DOS platform, software FoxPro 2.5
- Off-line communication with curators
- Incompatible with new technology
- Impossibility of further development





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## 2008 - 2010

- I.Faberová participated in the pilot G-G project

## 2011-2013

- gap, translations, data preparation, waiting for a suitable version of G-G

## June 2014 – May 2015

- restart of work
- transformation and migration of data - external IT company
- training of curators; [QA](#)



# Migration

- Migration of data - trial and error method
- Flexible system → you can add new columns, codes, triggers according your needs
- All changes – must be carefully written down; add then again after upgrade
- We tried not to change source code



# Migration

- Our needs (including demands from curators), examples:
  - new columns in Accession table (maintained by, bchar, ploidy, status\_note) – not in Accession Wizard

Accessions	Accession Inventory Attach	Inventory	Inventory Maintenance Policy	Inventory Action	Inventory Secure Slovakia	In
ed Date	Owned By	<b>maintained_by</b>	<b>bchar</b>	<b>growth_code</b>	<b>ploidie</b>	<b>status_note</b>
1.2015 15:26	HERMUTH, Jiří, ...	PAPOUŠKOVÁ, ...	635090	winter	6	FREE



# Migration

- taxonomy data from old database connected with different (east) taxonomy we used;  
now: GRIN taxonomy → new column *bchar* in Accession (only to keep old data)  
new code Full taxon in Accession\_Inventory\_Name

Accessions	Accession Action	Accession Source	Accession Source Cooperator	Accession Inventory Name	Accession IPR	Accession Pedig
	Accession Inventory Name ID	Accession	Inventory	Category	Name	Name Rank ▲
	527860	01C0105610	01C0105610 **	Cultivar name	Vasta	1
	821148	01C0105610	01C0105610 **	National name	Vasta	30
	594607	01C0105610	01C0105610 **	Donor identifier	RU 488	40
	650507	01C0105610	01C0105610 **	Full taxon	Triticum aestivum var. lutescens	200





# Migration

- Track changes – add new records to accession\_action and inventory\_action

Accession Action		Accession Source	Accession Source Cooperator	Accession Inventory Name	Accession IPR	Accession Pedigree	Accession Inventory Voucher	Accession		
Accession ID	Accession	Action Name	Start Date Format	Start Date	Compl. Date Format	Con. Dat	Is Web Visible?	Cooperator	Method	Note
.001	01C0108405	Accession data was changed	dd/mm/yy...	12/13/20...			N	SYSTEM...		accession_inv_name_id = 846783 change: category_code: UNVERIFIED -> OTHER modified_by: Jiří HERMUTH
.002	01C0108405	Accession data was changed	dd/mm/yy...	12/13/20...			N	SYSTEM...		accession_inv_name_id = 846784 change: ...

Inventory Maintenance Policy		Inventory Action	Inventory Secure Slovakia	Inventory Viability	Inventory Viability Rule	Cooperator	Order Request	Order Request Item	Order Request Action	web_order_reque:	<input checked="" type="checkbox"/> Show All Colu	
Inventory	Action Name	Start Date Format	Start Date	Comp. Date Form.	Comp. Date	Quantity	Units	Form	Cooperator	Method	Note	Accession
08X9000413	Field collection	Data changed	dd/mm/yyyy	10/27/2021 2:17...					SYSTEM, Admini...		availability_status_code: AVAIL -> CURAT_ATTN EURISCO change modified_by: Vladimír NESVADBA	08X9000413
08X9000414	Field collection	Data changed	dd/mm/yyyy	10/27/2021 2:17...					SYSTEM, Admini...		availability_status_code: AVAIL -> CURAT_ATTN	08X9000414

# Lesson learned

Be prepared:

- Curators PC skills differ significantly
- Training environment
- Not all willing to change
- Repeat and repeat
- New curators – new training



# GRIN Czech today

- Permanent technical support – external IT company
- Functional system
  - [Web application: version 2.2.0](#)
  - Admin: version 2.0.3.0
  - Database: version 2.2.0
- Molecular data
- Recording: *ex situ*, cryo, *in-vitro*, on-farm, *in situ*
- Automatic procedures - example:  
automatic e-mail to curators with the list of  
accessions needed to regenerate





# GRIN Czech today



- SMTA reporting to International Treaty (Wizard)
- [Annual report](#) for the Ministry of Agriculture – web application (data from the database)

Nice to have:

FAO Instcode – as a Lookup Picker





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Many thanks to Marty Reisinger  
and to the whole GG team

