Preserving past plant research:

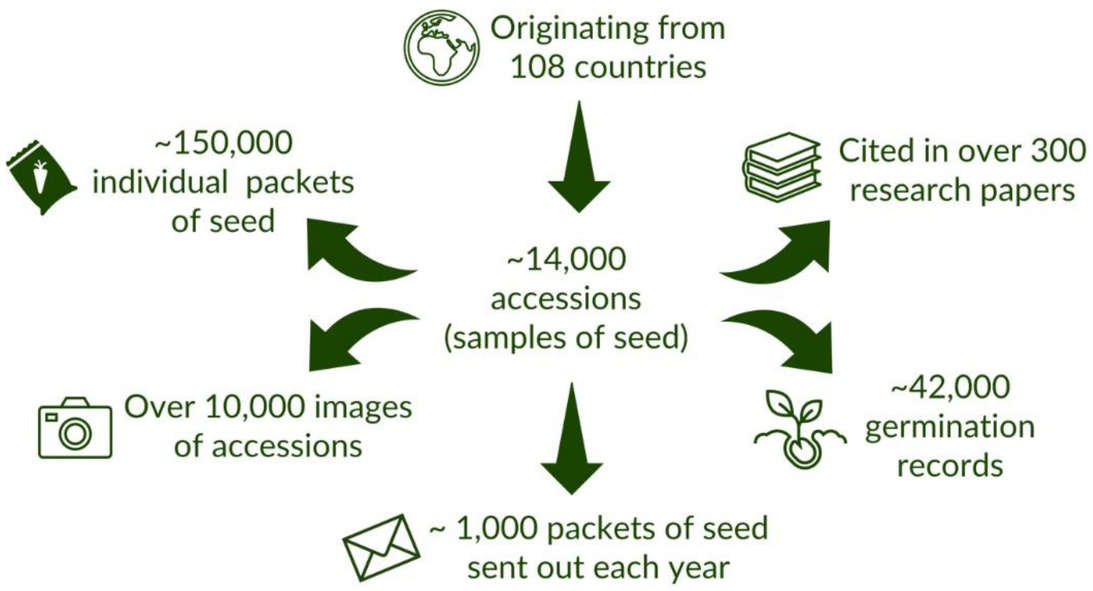
Data stewardship within genebanks

Clare Richter, Sarah Trinder & Charlotte Allender

UK Vegetable Genebank, Warwick Crop Centre, University of Warwick

https://warwick.ac.uk/fac/sci/lifesci/wcc/genebank/

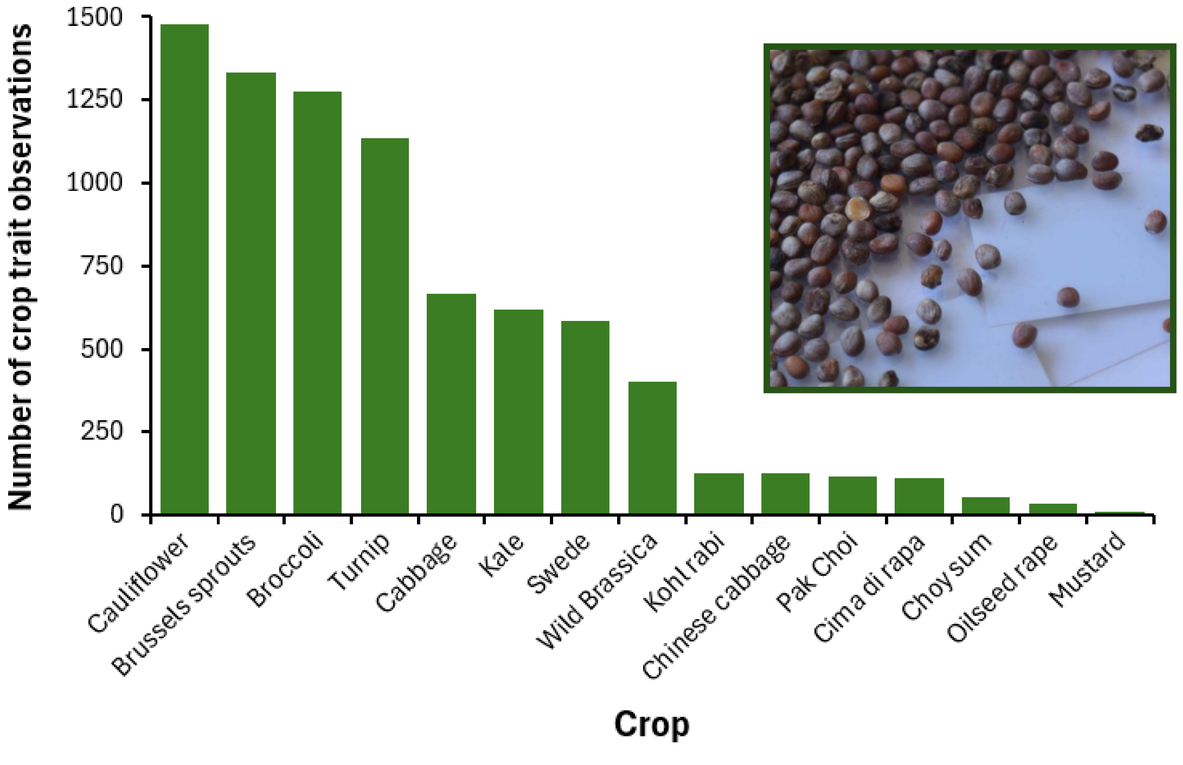
The UK Vegetable Genebank (UKVGB)



All accessions uploaded to **GRIN-Global** → Useful historic trait data needed

Brassica: pest & disease resistance

Assessment of UKVGB *Brassica* collection trait data



Determining **critically low** and **high-priority** pest & disease resistant *Brassica* accessions

Includes:

- **HRIGRU 4856** – resistant against 5 P&D traits, 3.95g pure live seed
- **HRIGRU 8544** – 1.16g pure live seed
- **HRIGRU 4847** – 1.9g pure live seed

Data management at genebanks

Plant breeders and growers need high-quality plant data to make the best-informed decisions

Data stewards must create data that is:

Findable
Accessible
Interoperable
Reuseable

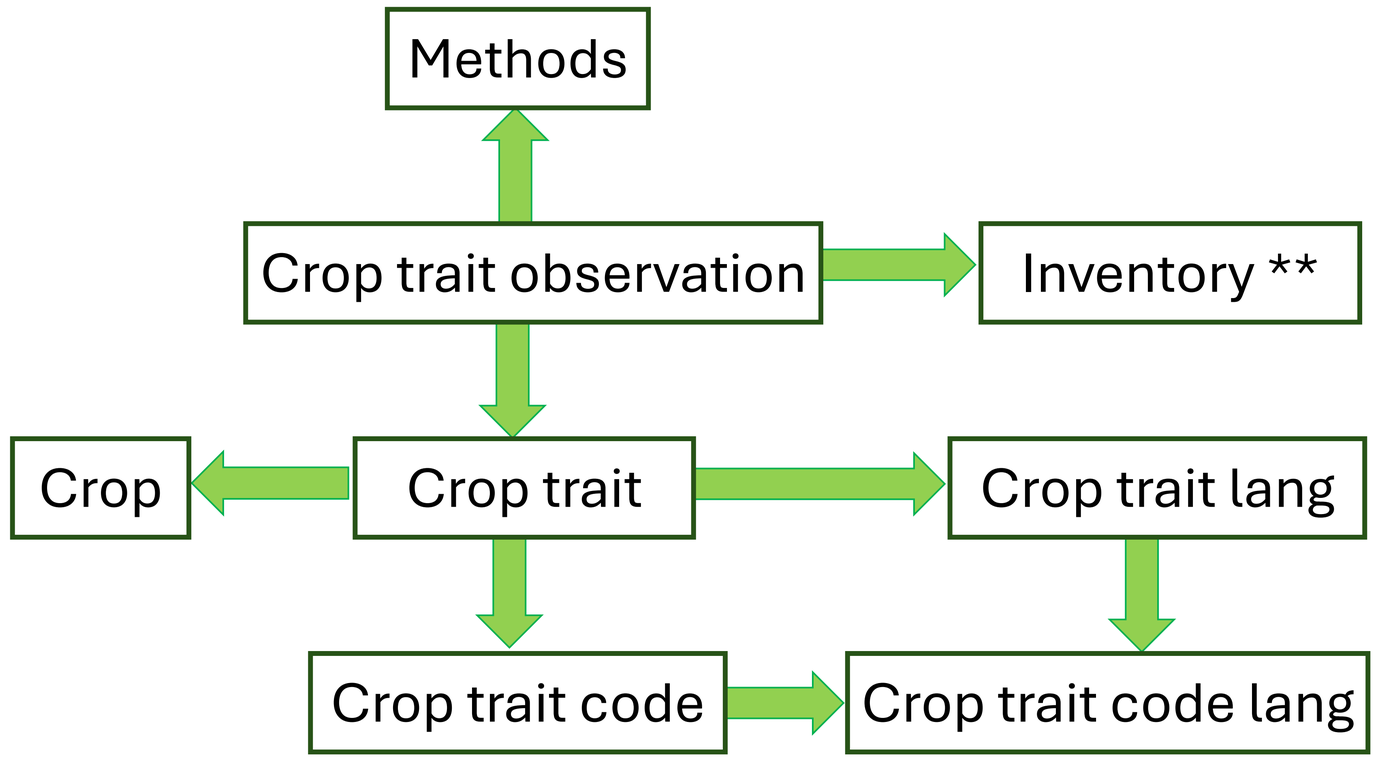


This allows for the best possible digital infrastructure for the genebank

Historic datasets transformed

Brassica	Spinach	*Brassica*	Radish
			
EU AIR3 - CT920463	AGRI-2006-0262	CEC GENRES 109/112	Characterisation

The datasets transformed mean the **effort**, **time**, **energy** and **money** of scientists has not been **wasted**



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Department for Environment Food & Rural Affairs

CaSDaR Careers and Skills for Data-driven Research

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