



# ECPGR PHASE X MID-TERM REPORT

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ECPGR Secretary

*Alnarp, Sweden, 7 June 2022*





# Table of Contents

- A glance back to Phase IX
- Significant events of Phase X
- Implementation of Phase X
- Highlights 2019–2022
- The Activity Grant Scheme
- AEGIS
- EURISCO
- *In Situ* CWR
- On-farm
- EVA and *Genetic Resources* journal
- Communication and public awareness
- German-funded projects
- EU-funded projects
- Financial situation
- Acknowledgements

# A glance back to Phase IX (2014–2018)

- Hosting agreement with Bioversity International
- New mode of operation – 21 WGs with open membership and Grant Scheme with country quotas
- Transfer of EURISCO to IPK + EURISCO Advisory Committee
- 6 Calls for proposals: 31 granted activities
- Concepts developed: *in situ* CWR and on-farm
- German funds: establishment of EVA Network
- H2020 – Preparation and approval of GenRes Bridge
- MoUs with FAO Treaty and ESA
- AEGIS Workshop in Madrid

# Approval of Phase X (2019–2023) in Thessaloniki 2018:

- Five revised objectives
- Simplified mode of operation (inputs from WG Chairs)
  - Budget line Grant scheme
  - Budget line meetings (country quota)
- 23 Working Groups (new: Berries and Maize)
- Budget set at €2.7M for 36 countries

# Significant events in Phase X

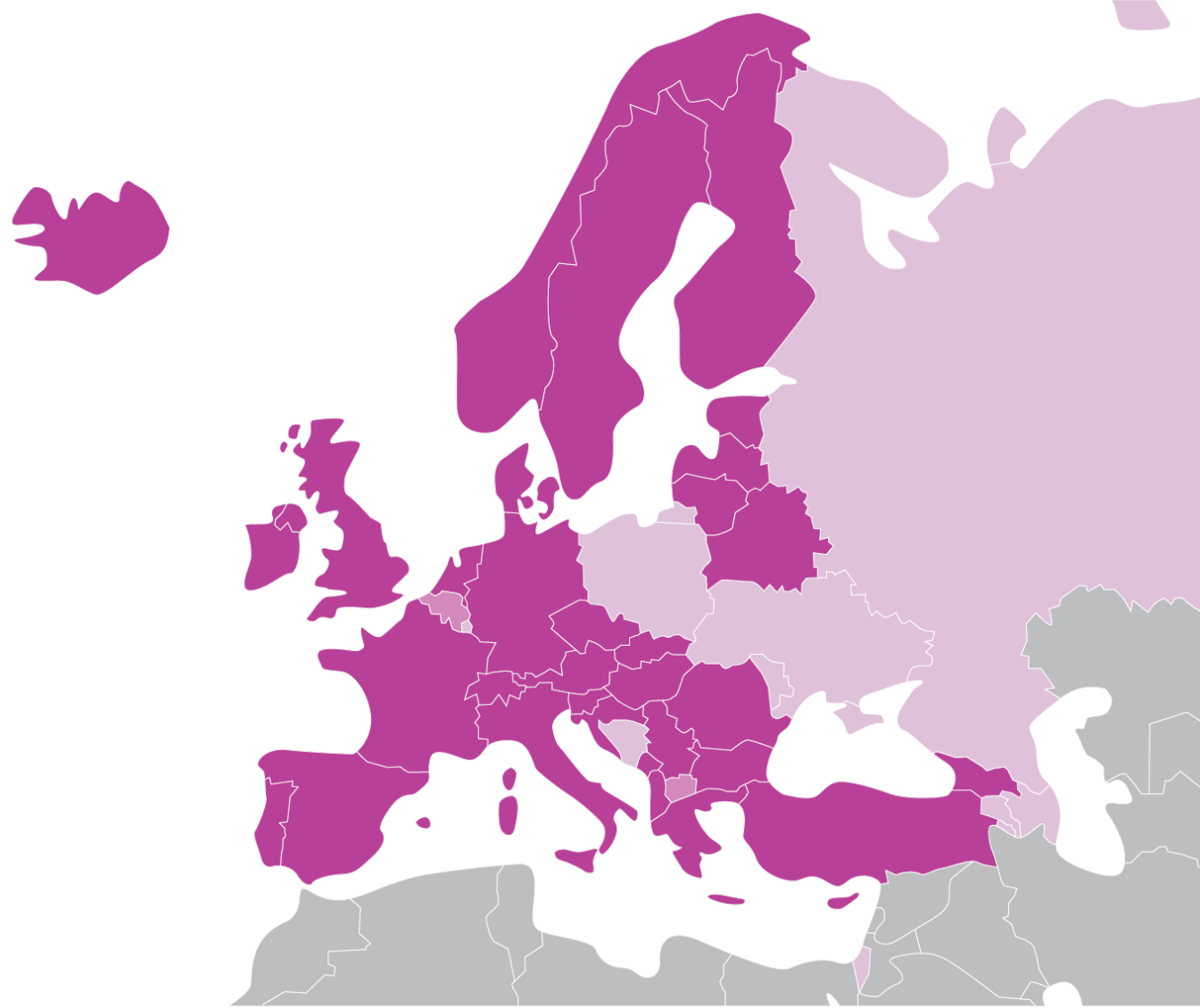
- Several projects funded by Germany (EVA Network and others)
- Approval of two H2020 projects (GenRes Bridge + AGENT) (started in 2019 and 2020)
- COVID-19 (online meetings + working from home) (2020–22)
- New ExCo Chair (Sep 2019)
- Change of staff at ECPGR Secretariat (2020–21)
- ‘Bioversity International’ becomes ‘The Alliance of Bioversity International and CIAT’ and moves from Maccaresse to Rome (2020–21)

# Implementation of Phase X

Letters of Agreement from 33 countries

+ 2 paying (BEL, MKD)

BiH did not join this Phase



- ECPGR Membership in Phase X (Letter of agreement signed)
- ECPGR Membership in Phase X (Country did not sign Letter of Agreement, but is paying contributions)
- Countries eligible to join Phase X

# Implementation of Phase X

- WG Chairs initially all reconfirmed (then a few replacements)
- Grant Scheme (five Calls launched)
- WG meetings (two requests received)
- ExCo: Eight meetings
- Steering Committee: online ad hoc meeting (GenRes Bridge) – Nov 2020
- EURISCO Advisory Committee: online meeting – July 2020
- WG Chairs: online meeting – April 2022
- Task Forces in operation:
  - Jubilee Video (2019–21)
  - Drafting Team for PGR Strategy (2020–21)
  - European Coordination and Information Centre (ECIC) (2022)
  - Ukraine support group (2022)

# Highlights ECPGR 2019

- Launch of Phase X – revised objectives & mode of operation
- Voluntary contributions (Hungary & Germany)
- EVA Network
  - Preparatory workshops (Berlin and Durrës)
  - 900k project approved (wheat, barley, maize, carrot, pepper, lettuce)
  - Sandra Goritschnig comes on board (Nov 2019)
- EURISCO
  - Extension for crop-specific passport data
  - DOI Service
  - Crop portal for forages



# Highlights ECPGR 2019 (continued)

- AEGIS
  - Checklist for implementation of MoU
  - Enhanced info on website
  - First round of genebank peer reviews
- GenRes Bridge (H2020 project)
  - Sharing perspectives workshop – Tuusula, Nov 2019

# Highlights ECPGR 2020

- MoU with Crop Trust signed in Svalbard (Feb 2020)
- EVA Network → 91 partners from 28 countries
- H2020 – AGENT project starts
  - Extending EVA activities
  - Extending genebank peer reviews and trainings (CGN)
- H2020 – GenRes Bridge
  - Preparation of genetic resources strategies
  - Launch of *Genetic Resources* journal
- New staff
  - EURISCO: Pragna Kotni; Suman Kumar
  - ECPGR Secretariat: Vanessa Bryant (Aug 2020); Loredana Maria (Oct 2020)

# Highlights ECPGR 2021

- Launch of 'Jubilee Video' (March 2021)
- EVA Network in full swing
  - 92 partners / 28 countries / 70 evaluation sites
  - Multiplication / evaluation / genotyping cycles
  - Involvement of farmer's Network (AGENT)
  - EURISCO-EVA Intranet (embargoed data)
- Farmer's Pride (H2020) concluded online (July 2021)
  - Several products on ECPGR website

# Highlights ECPGR 2021 (continued)

- GenRes Bridge concluded in Bruxelles (Nov 2021)
  - Launch of Genetic Resources Strategies
- German-funded project on *in situ* CWR in EURISCO
  - Ca. 250k for three years – 8 pilot countries
- New staff: Nora Capozio (Nov 2021)

# Highlights ECPGR 2022

- New Working Group on Cryopreservation established (Jan 2022)
- Agreed principles for inclusion of *in situ* CWR populations in EURISCO (May 2022)
- EURISCO
  - New Data Sharing Agreement
  - Launch of new website interface

# Highlights ECPGR 2022 (continued)

- WG Chairs meeting (Apr 2022)
- Submitted project proposal PRO-GRACE (Research infrastructure concept development) (Apr 2022)
- Support to Ukraine – donations (May 2022)
- Follow-up to Strategies launch (French event – June 2022)
- 16<sup>th</sup> (Mid-Term) Steering Committee meeting in Sweden – (June 2022)

# Implementation of the Activity Grant Scheme



# Grant Scheme proposals received, and budget awarded (Phases IX and X)

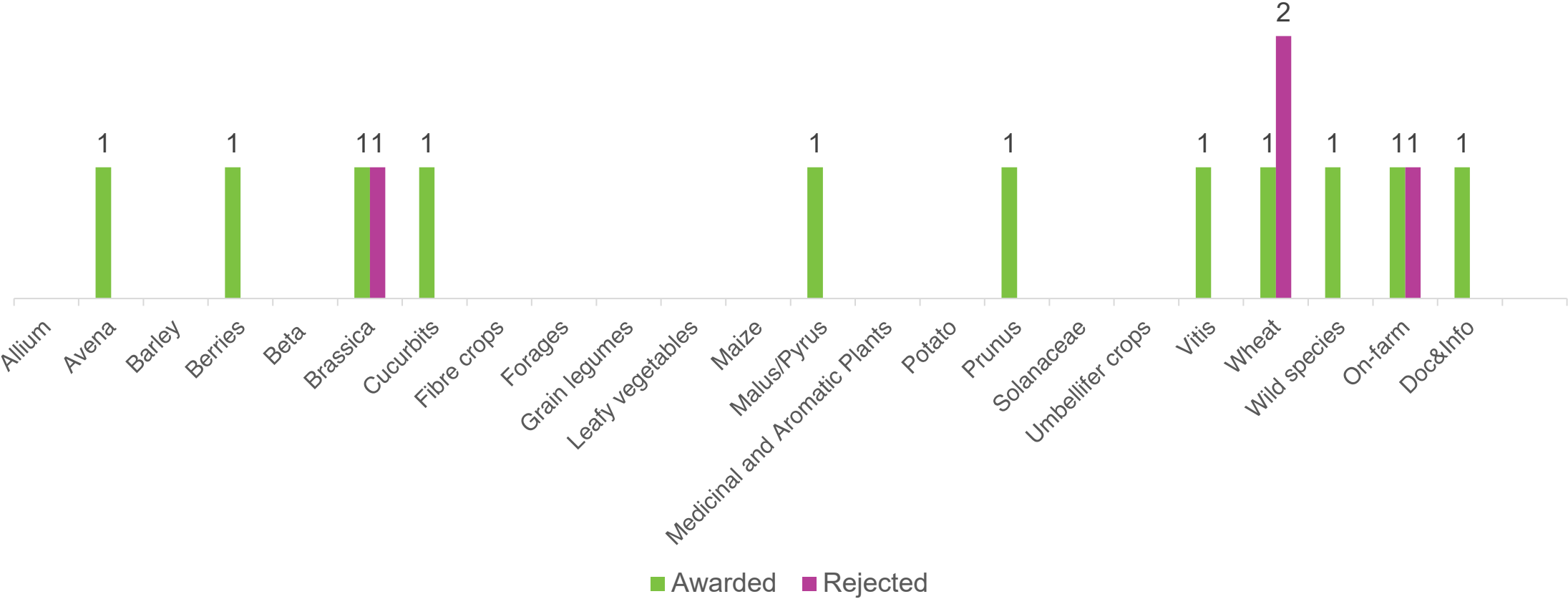
PHASE IX	1st Call	2nd Call	3rd Call	4th Call	5th Call	6th Call	Total
Number of eligible proposals received	11	10	8	8	3	5	45
Number of proposals awarded	8	6	7	5	2	3	31
Total budget awarded (in €)	119,650	86,350	104,350	118,500	44,000	44,988	517,838

PHASE X	1st Call	2nd Call	3rd Call	4th Call	5th Call	Total
Number of eligible proposals received	3	2	3	3	3	14
Number of proposals awarded	2	1	2	2	2	9
Total budget awarded (in €)	27,000	15,000	38,450	39,800	62,437	182,687



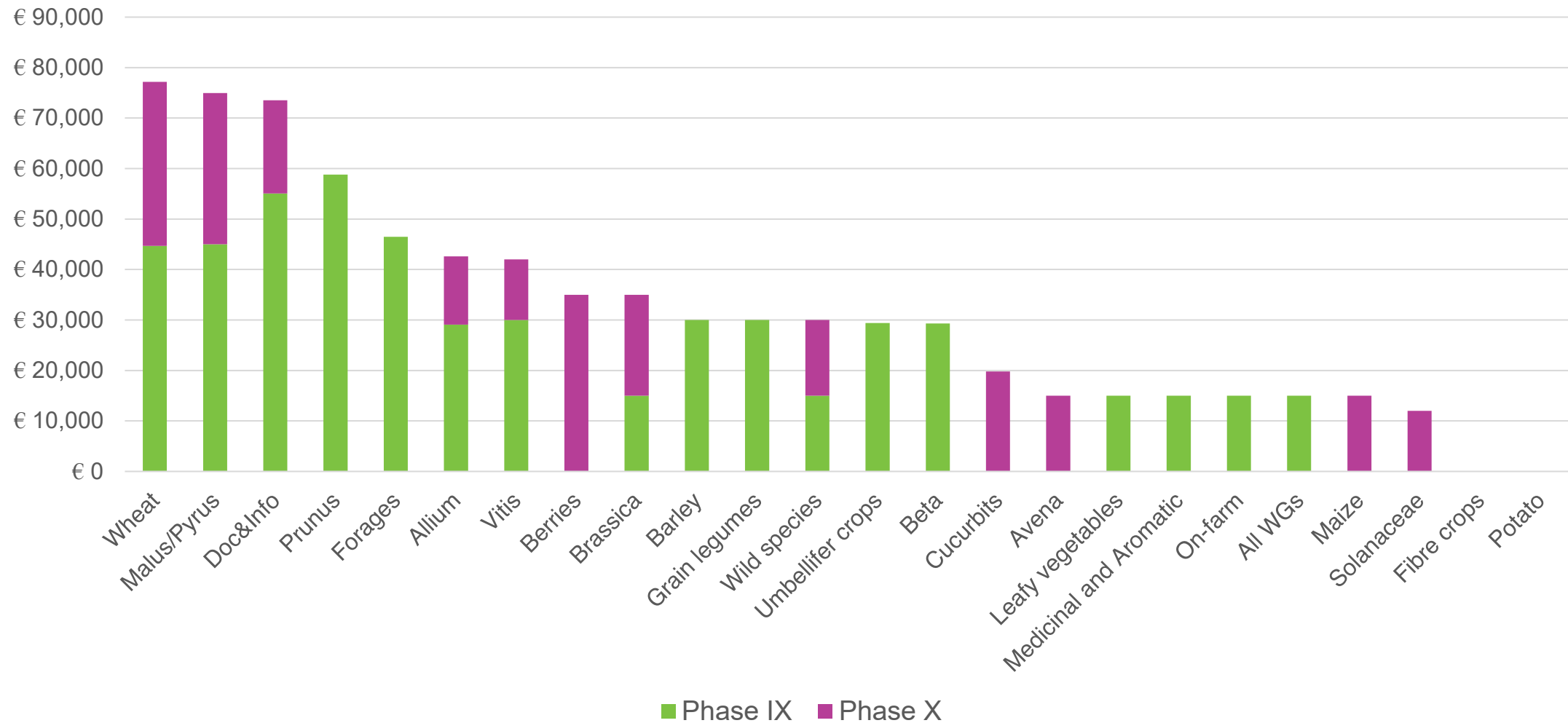


# Activities awarded for each Working Group (Phase X)



# Total funds allocated for each WG (2014–2022)

## [Grant Scheme + meetings]



# Awarded Activities in Phase X

1) Avena WG: UMORPHEAS – March 2020–February 2022 (€15,000). Coordinator: Andreas Katsiotis, Cyprus

Delayed - Plans to update the IBPGR Oat descriptors, involving the widest possible global community. FAO-Treaty involved

2) *Brassica* WG: EUBRASWILD – October 2020–August 2023 (€ 20,000). Coordinator: Smiljana Goreta Ban, Croatia

Ongoing - Collecting activities and field characterization of *Brassica* wild relatives in eastern and south-eastern Europe

3) Berries WG: EUROPE.BERRIES – January 2021–June 2022 (€20,000). Coordinator: Monika Höfer, Germany

Ongoing - Inventory *ex situ* berry genetic resources in EURISCO, develop technical guidelines for genebank management and select proposed accessions for AEGIS

# Awarded Activities in Phase X (continued)

4) Cucurbits WG: Cucurbitlocal – February 2021–January 2023 (€19,800).  
Coordinator: Maria Raffaella Ercolano, Italy

Ongoing - Improve the inventory of local *Cucurbita*, characterize and regenerate a set of accessions and test performance in low-input management systems

5) Documentation and Information WG: GRIN-Global II – September 2020–February 2021 (€19,200). Coordinator: Ludmilla Papoušková, Czech Republic

Delayed to October 2022 - Training workshop on GRIN-Global, with expert trainer from USDA

6) *Malus/Pyrus* and *Prunus* WG: FRUITTREEDATA– January 2022–December 2023 (€29,975). Coordinator: Matthew Ordidge, United Kingdom

Starting in 2022 - Improve data in EURISCO, increase phenotypic information within EURISCO and try to identify same material held in different countries. Basis to develop the AEGIS concept for the fruit tree field collections

# Awarded Activities in Phase X (continued)

7) On-farm conservation and management and Wheat WGs: Bidifferent – January 2022–December 2023 (€37,180). Coordinator: Rudolf Vögel, Germany.

Starting in 2022 – Focused on Binkel landraces (*Triticum aestivum* subsp. *compactum*) in the Alpine region. Establish identity, evaluate in different environments and genotype for disease resistance and abiotic stress. Promote use.

8) *Vitis* WG: AEG-VIT-IS – January 2020–December 2020 (€12,000).  
Coordinator: Gregorio Muñoz, Spain

Completed. Molecular profiling to verify identity and uniqueness. Lists of 75 candidates for AEGIS. Safety duplication and genebank manuals

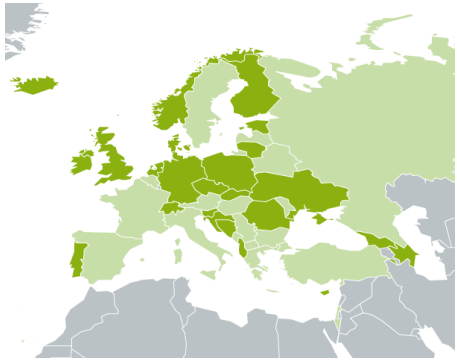
9) Wild species in genetic reserves WG: Inclusion of CWR sites in European *in situ* Network – September 2019–March 2021 (€15,000). Coordinator: Juozas Labokas, Lithuania

Completed. Participation of ten WG members in the meetings of the EC-funded project Farmer's Pride

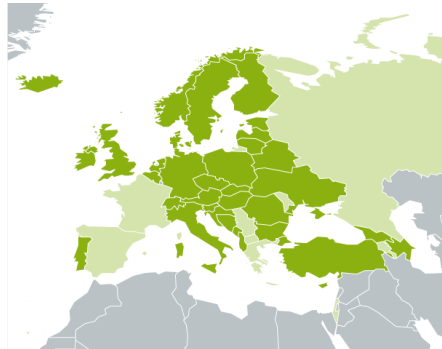
# AEGIS and the European Collection



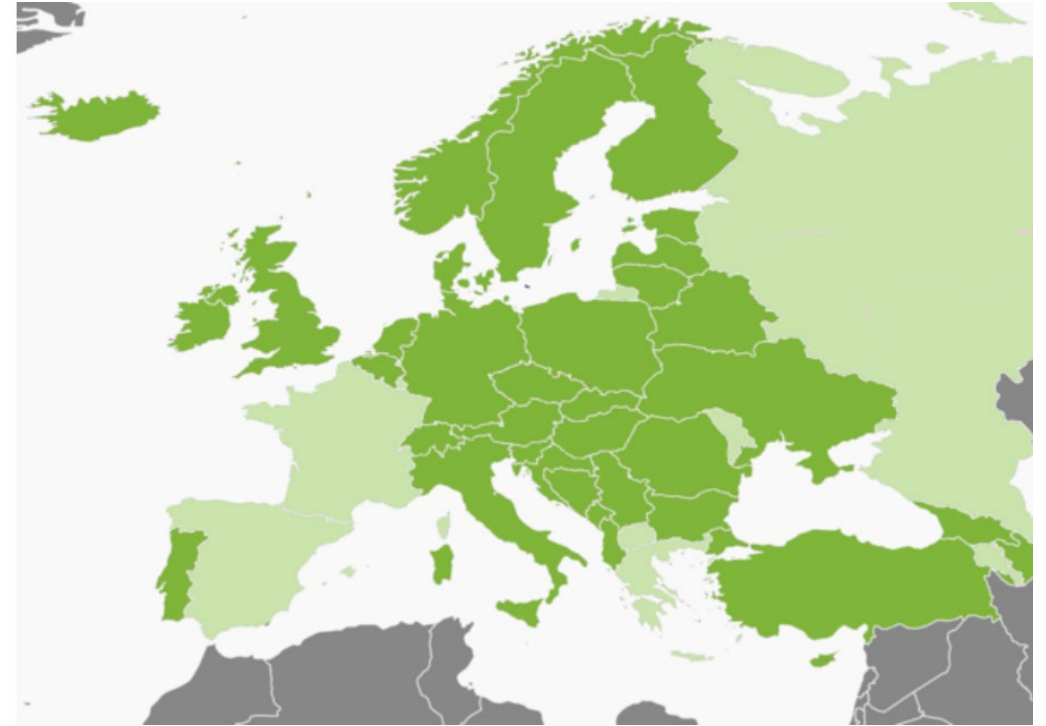
# AEGIS Membership



**2010** (25 countries)  
**19** Associate Member  
(AM) Agreements



**2016** (34 countries)  
**66** AM Agreements



**2022** (35 countries)  
**68** AM Agreements

+ Serbia (2019)  
France: Declaration of Intent?  
Spain: Possible membership?

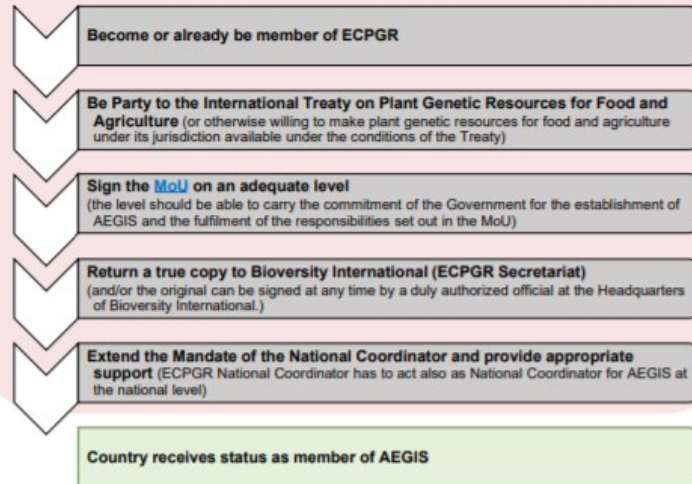
# Step-by-step flow diagram

<https://www.ecpgr.cgiar.org/aegis/aegis-membership/becoming-an-aegis-member>

## STEP BY STEP FLOW DIAGRAM

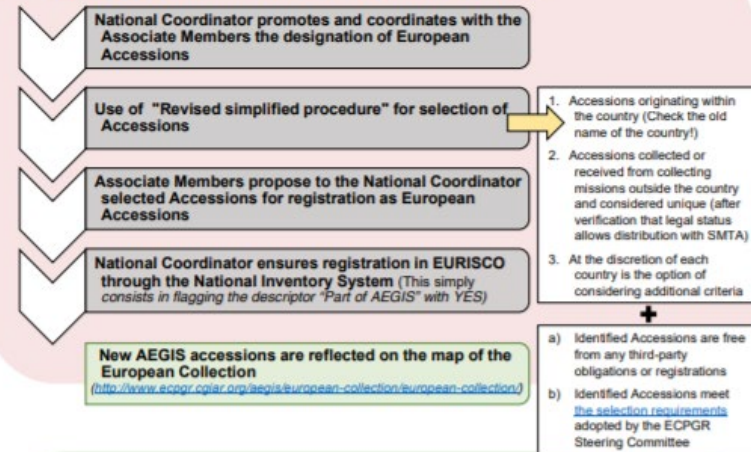
### 1. Formalizing AEGIS membership

#### COUNTRY SHOULD:

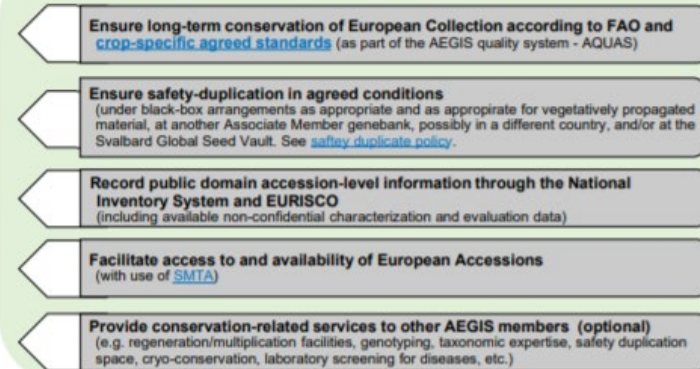


### 2. Identification and management of Accessions for the European Collection

#### How to add Accessions to the European Collection:



#### Responsibilities of AEGIS Associate Members:





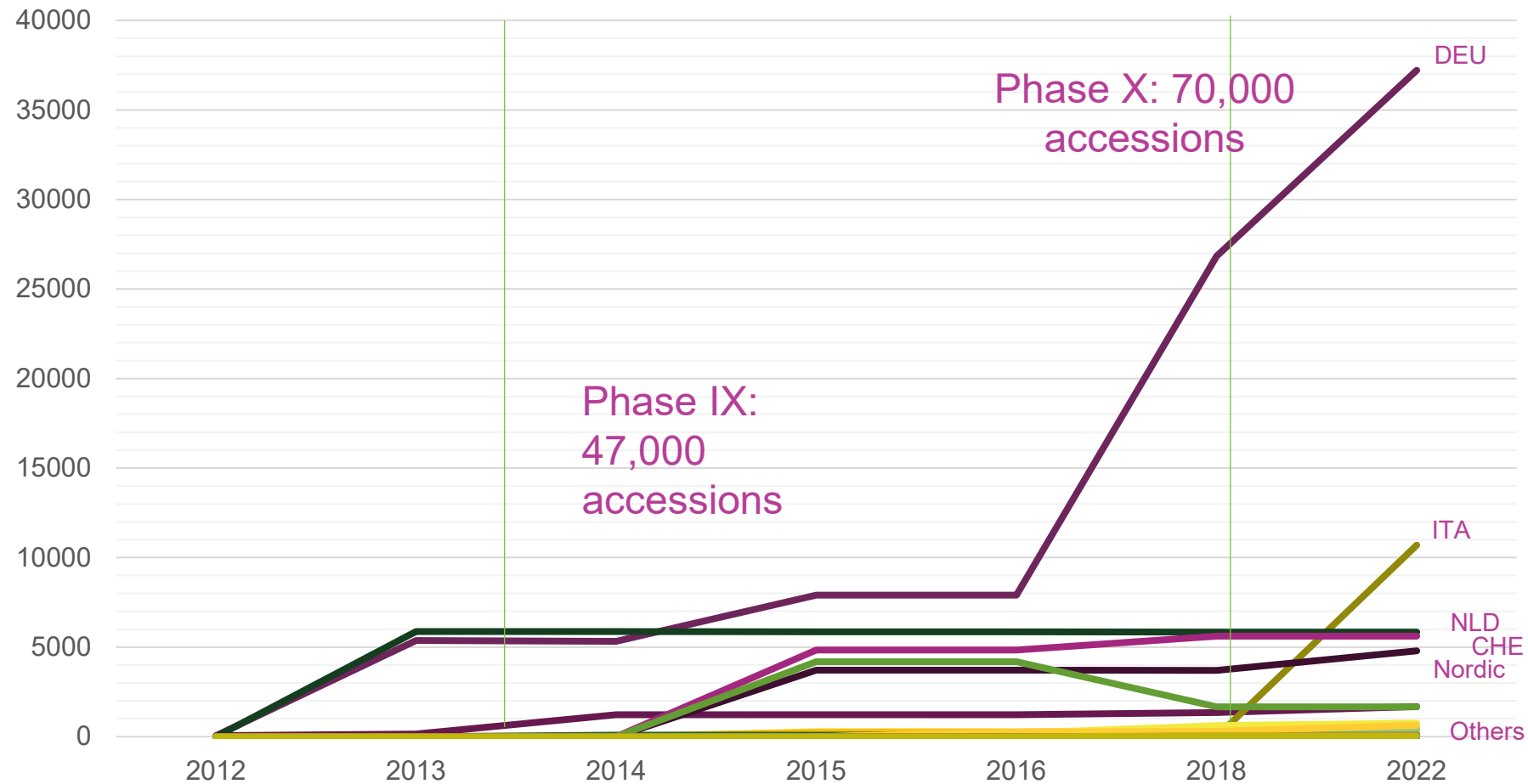


# The European Collection

(April 2022)

Country	No of accessions
Albania	8
Belgium	2
Bosnia and Herzegovina	29
Bulgaria	391
Croatia	90
Czechia	1,682
Estonia	134
Germany	37,220
Italy	10,691
Latvia	27
Lithuania	45
Montenegro	31
Netherlands	5,841
Nordic Countries	4,785
Poland	443
Portugal	86
Romania	752
Slovakia	640
Slovenia	19
Switzerland	5,611
United Kingdom	1,659
<b>Total</b>	<b>70 186</b>

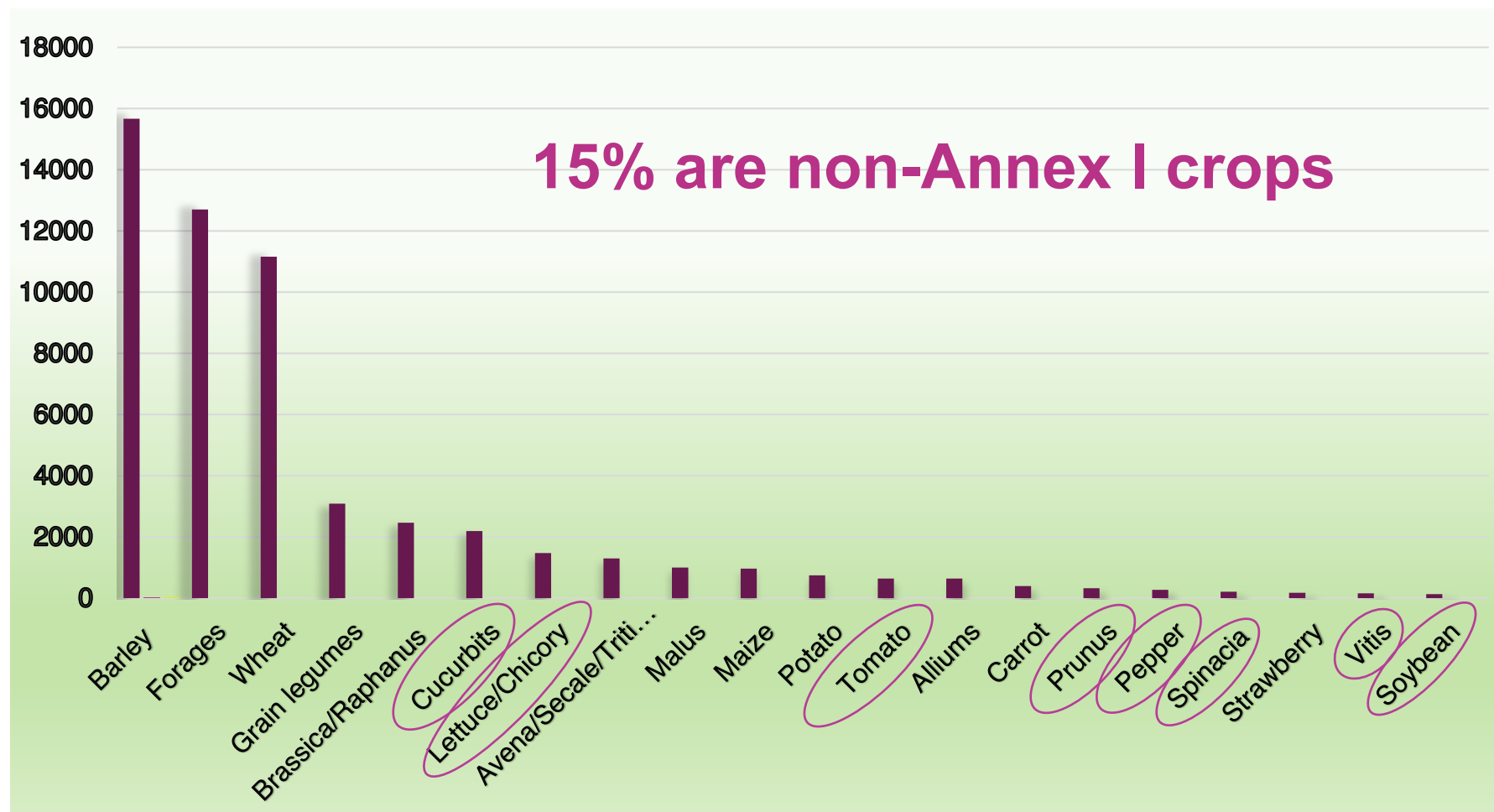
# AEGIS - European Accessions growth



# European collection statistics

	2016 – Mid-Term Phase IX	2022 – Mid-Term Phase X
Associate Members (AM)	54	68
Contributing to EURISCO	38 (70%)	45 (66%)
Contributing to AEGIS	15 (28%)	28 (41%)
Contributing to AEGIS – but not AM	3	2 BEL094; POL003
Total accessions held by AM	590,267	693,942
Total accessions in AEGIS	28,686 (5%)	70,188 (10%)

# European Collection by crops



# Grant Scheme Activities contributing to AEGIS

- AEG-VIT-IS: 75 *Vitis* candidates identified
- EUBRASWILD: ongoing
- CUCURBITLOCAL: ongoing
- EUROPE.BERRIES: ongoing
- Bidifferent: ongoing
- ImprovLoliumCol: ongoing
- EUROMAPCOLLECTION: 241 accessions proposed for inclusion

# AEGIS Quality System (AQUAS)



- **12** operational genebank manuals published
- 9 Crop-specific standards completed by WGs
- Safety duplication – no coordinated activity
- Peer review
  - GenRes Bridge: 3 genebanks (2019)
  - AGENT: 10 genebanks (2022–23)

# Critical paper in *Plants* (2021)



Opinion

## AEGIS, the Virtual European Genebank: Why It Is Such a Good Idea, Why It Is Not Working and How It Could Be Improved

Theo van Hintum <sup>1,\*</sup>, Johannes M. M. Engels <sup>2</sup> and Lorenzo Maggioni <sup>2,3</sup>

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<sup>2</sup> Alliance of Bioversity International and CIAT, Via di S. Domenico, 1-00153 Rome, Italy; j.engels@cgiar.org (J.M.M.E.); lmaggioni@cgiar.org (L.M.)

<sup>3</sup> European Cooperative Programme for Plant Genetic Resources (ECPGR), Via di S. Domenico, 1-00153 Rome, Italy

\* Correspondence: theo.vanhintum@wur.nl

**Abstract:** Europe is very active in terms of conserving plant genetic resources, with hundreds of genebanks and thousands of dedicated people involved. However, the resulting infrastructure is, along with being very expensive, far from efficient and not very reliable. In this opinion paper, the authors describe how this situation arose, and why the European Cooperative Programme for Plant Genetic Resources (ECPGR), the collaborative umbrella organization of the European countries involved, has not been able to improve this situation so far significantly. The principles of the decentralized virtual genebank (AEGIS) are described, and an analysis is made of the reasons for its lack of success. Possible changes for making AEGIS a success, or at least steps in the right direction, are proposed. These changes center around the creation of a system of certified genebanks with proper quality management, guaranteeing the long-term conservation of, and immediate access to the plant genetic resources conserved in it.

**Keywords:** PGRFA; ECPGR; virtual European genebank; AEGIS; EURISCO; genebank quality management



**Citation:** Hintum, T.v.; Engels, J.M.M.; Maggioni, L. AEGIS, the Virtual European Genebank: Why It Is Such a Good Idea, Why It Is Not Working and How It Could Be





Stephan Weise

# EURISCO progress report ECPGR phase X

16<sup>th</sup> Meeting of the ECPGR Steering Committee  
7–9 June 2022, Malmö/Alnarp, Sweden



# Contents of EURISCO

- 43 member countries
- 2,076,170 accessions
- 6,736 genera
- 45,171 species names
- 426,734 MLS accessions
- 70,188 AEGIS accessions
- 229,228 DOIs

as of 2022-05-17



The screenshot shows the EURISCO website homepage. The header includes the EURISCO logo and the tagline "Finding seeds for the future". The main content area features a "Welcome to EURISCO" message, an "About EURISCO" section, and a "Featured crops" grid with images of Barley, Bean, Chickpea, Potato, Sunflower, and Tomato. A "News" section is visible at the bottom of the main content area.

Published online 31 August 2016

Nucleic Acids Research, 2017, Vol. 45, Database issue D1003–D1008  
doi: 10.1093/nar/gkw755

## EURISCO: The European search catalogue for plant genetic resources

Stephan Weise<sup>1,\*</sup>, Markus Oppermann<sup>1</sup>, Lorenzo Maggioni<sup>2</sup>, Theo van Hintum<sup>3</sup> and Helmut Knüpfper<sup>1</sup>

<sup>1</sup>Leibniz Institute of Plant Genetics and Crop Plant Research (IPK) Gatersleben, Corrensstr. 3, 06466 Stadt Seeland, Germany, <sup>2</sup>Bioversity International, Via dei Tre Denari 472/a, 00057 Maccarese (Fiumicino), Rome, Italy and <sup>3</sup>Centre for Genetic Resources, The Netherlands (CGN), Wageningen University and Research Centre, P.O. Box 16, 6700 AA Wageningen, The Netherlands

Received July 28, 2016; Revised August 19, 2016; Accepted August 21, 2016

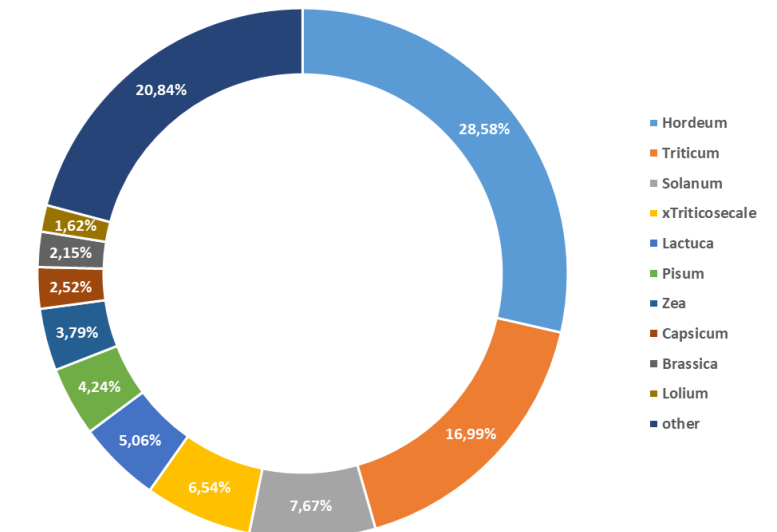
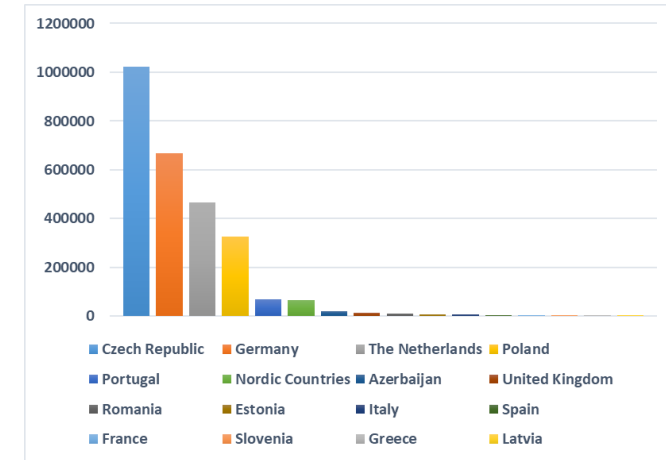
### ABSTRACT

The European Search Catalogue for Plant Genetic Resources, EURISCO, provides information about 1.8 million crop plant accessions preserved by almost 400 institutes in Europe and beyond. EURISCO is being maintained on behalf of the European Cooperative Programme for Plant Genetic Resources. It is based on a network of National Inventories of 42

typical characterisation of genebank accessions, i.e. collecting information about traits such as disease resistance, drought tolerance and yield components. These data are usually generated on selected material, resulting in non-orthogonal, highly incomplete data sets. Nevertheless, the analysis of these data allows meaningful results, e.g. the identification of promising new alleles (5). Around the world, there are about 1800 genebank collections conserving PGRFA. Thereof, about 625 collections are maintained in Europe

# Phenotypic data

- Extension available since 2016
- Currently, 2,683,740 records of data from sixteen countries
- 71 phenotypic datasets with 3,867 experiments
- 90,633 accs. with phenotypic data



as of 2022-05-17

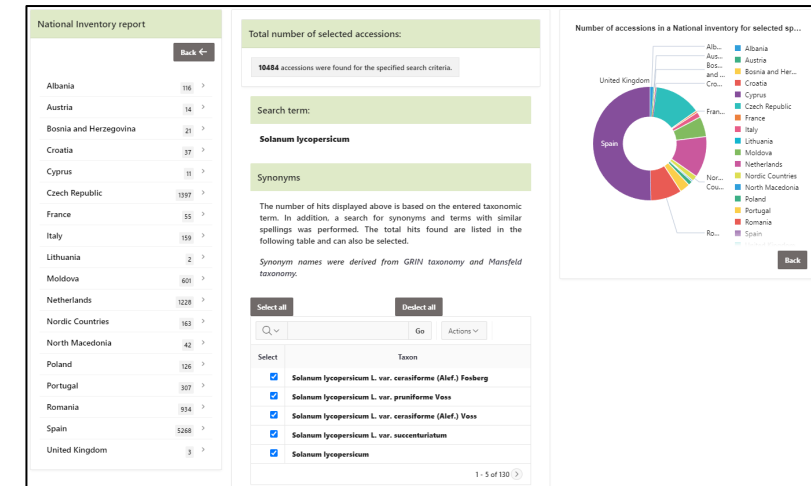
# Outcomes 2019

- EURISCO intranet

- Extension for crop-specific passport data to handle additional information not included in MCPD
  - Frequently requested by various ECPGR Crop WGs
  - Simple and general extension following EAV approach → first used in 2022 only
- Implementation of DOI registration service in close collaboration with ITPGRFA

- Public EURISCO application

- Implementation of general improvements
- API for linking to EURISCO passport data from external information systems (e.g. Commonwealth Potato Collection, JHI)
- Improved taxonomy feature for advanced search
- Thorough performance tuning for phenotypic data searches
- Implementation of download option for complete phenotypic experiments in MS Excel format
- Crop portal for forages in the frame of the ECPGR Grant Scheme Activity "ImprovLoliumCol"



National inventory report

Country	Accessions
Albania	116
Austria	14
Bosnia and Herzegovina	21
Croatia	37
Cyprus	11
Czech Republic	1397
France	35
Italy	159
Lithuania	2
Moldova	60
Netherlands	1228
Nordic Countries	163
North Macedonia	42
Poland	126
Portugal	307
Romania	934
Spain	5268
United Kingdom	3

Total number of selected accessions: 10484

Search term: Solanum lycopersicum

Synonyms

The number of hits displayed above is based on the entered taxonomic term. In addition, a search for synonyms and terms with similar spellings was performed. The total hits found are listed in the following table and can also be selected.

Synonym names were derived from GRIN taxonomy and Mansfeld taxonomy.

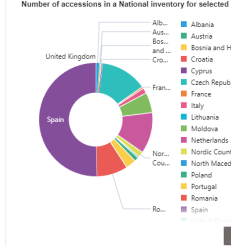
Select all | Deselect all

Select Taxon

- Solanum lycopersicum L. var. cerasiforme (Alef.) Fouborg
- Solanum lycopersicum L. var. grunifolium Voss
- Solanum lycopersicum L. var. cerasiforme (Alef.) Voss
- Solanum lycopersicum L. var. succenturiatum
- Solanum lycopersicum

1 - 5 of 110

Number of accessions in a National Inventory for selected sp...



Taxonomy feature: Screenshot from new web interface as of 2022

© NINA 2019  
ISSN 1479-2621

Plant Genetic Resources Characterization and Utilization (2019) 47(6): 136-161  
doi:10.1017/S147262119000139

### Short Communication

#### Advancement of taxonomic searches in the European search catalogue for plant genetic resources

Stefanie Kreide\*, Markus Oppermann and Stephan Weise  
Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), Corrensstraße 3, 06466 Seeland, Germany

Received 6 September 2019; Accepted 4 October 2019 - First published online 31 October 2019

**Abstract**  
Genebanks play an important role in the conservation of global plant biodiversity. The European Search Catalogue for Plant Genetic Resources (EURISCO) was created as a central entry point to provide information on these collections. However, a major challenge lies in the heterogeneity of scientific plant names. This makes the selection of suitable plant material, e.g. for research or breeding purposes, significantly more difficult. For this reason, the taxonomic backbone of EURISCO has been completely revised. Search terms entered by users are now automatically checked against taxonomic reference synonomies, allowing a variety of synonyms to be identified. In addition, a fuzzy search has been implemented, which makes the search function tolerant of erroneous data (e.g. caused by typing errors). Besides improvements of the search interface, more support will be given to EURISCO's data providers. The new developments provide a tool that makes it easier to identify problem cases within the data, such as accepted/non-accepted taxonomic names, and will successfully improve the quality of taxonomic information in EURISCO.

**Keywords:** data integration, EURISCO, genebank community, plant genetic resources, taxonomy

**Introduction**  
Crop plants are a major source of human and animal nutrition. They are cultivated worldwide, covering PGRFA around the world, of which 625 collections comprising more than two million accessions are maintained in Europe (Engels and Muggioni, 2012).

# Outcomes 2020

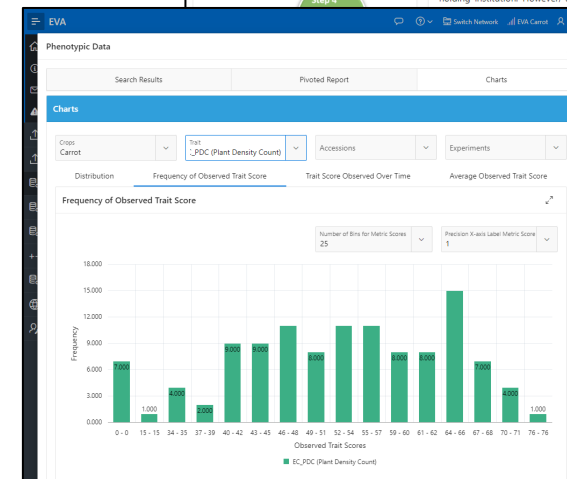
- No EURISCO developer between February and November
- EURISCO intranet
  - Rework of update mechanism for National Focal Points started (native PL/SQL implementation)
- ECPGR-EVA
  - Development of two exchange formats for phenotypic data (a simplified one, a more fine-grained one)
  - Recording of basic database requirements of the EVA infrastructure

# Outcomes 2021

- EURISCO intranet
  - Final tests of reworked update mechanism for National Focal Points
  - Implementation of new intranet interface
- Public EURISCO application
  - Full reengineering of the web interface
    - Regular technical revision
    - Responsive design with clearer layout
    - Critical review of functionalities
    - Introduction of new functionalities
  - RESTful services as additional means of access to EURISCO data
- ECPGR-EVA
  - Specification document compiled
  - EVA database infrastructure designed + implemented
  - Web interface developed → prototype in autumn 2021
  - Import of production data started in December 2021

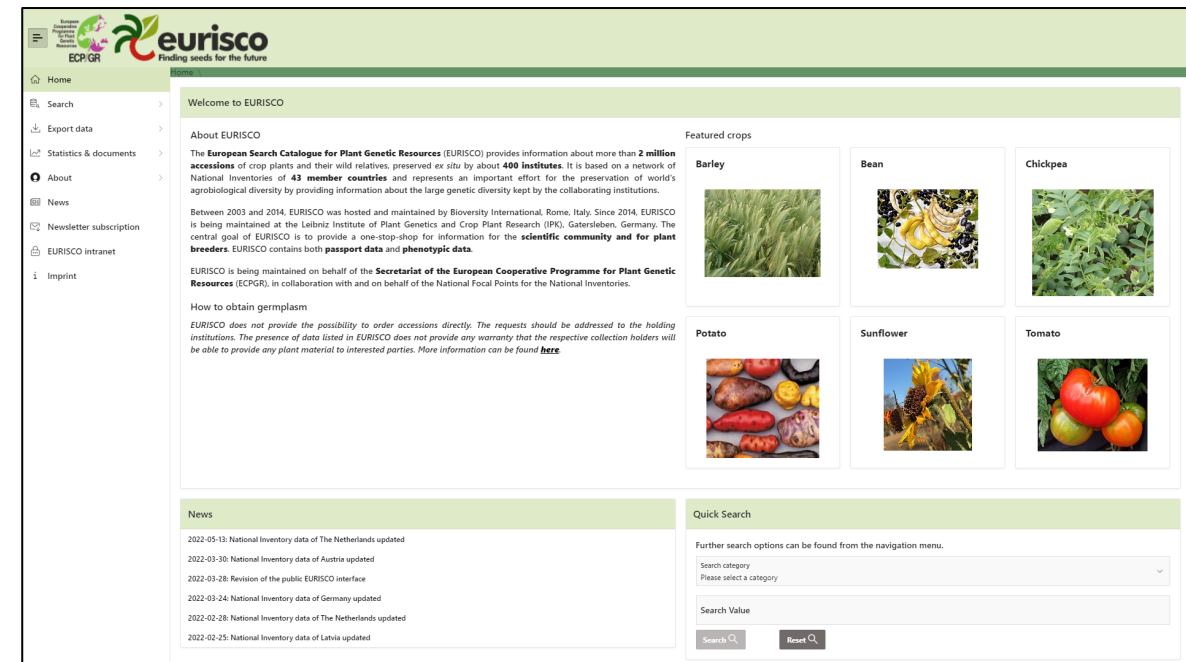


The screenshot shows a documentation page for EURISCO. It is divided into three main sections: 'General proceeding', 'Update process', and 'Templates'. The 'General proceeding' section describes the four-step process of inserting/updating data: 1. Upload file, 2. Import file, 3. Integrity check results, and 4. (partially visible). The 'Update process' section details the update mechanism, noting that EURISCO supports both complete replacement and incremental updates. It also discusses the deletion of accessions and the importance of unique identifiers like INSTCODE, ACCENUMB, and GENUS. The 'Templates' section lists various data formats like EURISCO Passport data, Passport Template (xlsx), EURISCO C&E Data, and C&E Templates (xlsx). A 'User guides' section includes links for Passport data upload, C&E data upload, and Additional procedure.



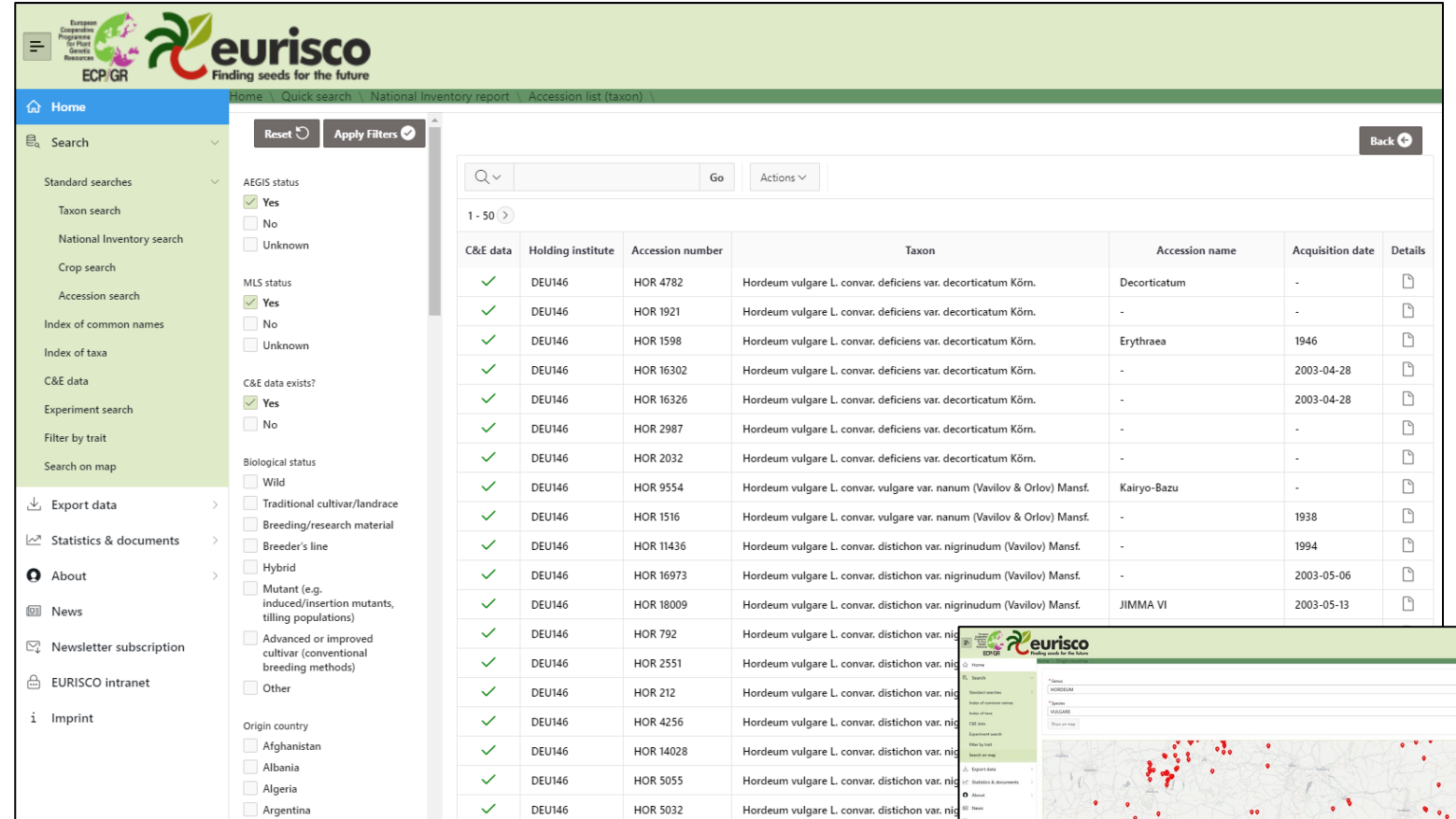
# Outcomes 2022 (ongoing)

- ECPGR-EVA
  - Continuous improvements + data imports (ongoing)
- Public EURISCO application
  - Implementation of additional features based on feedback of powerusers
  - Bugfixing
  - Comprehensive performance tuning
  - Release of new version in March 2022



# Passport data search in EURISCO

- Four standard searches:
  - Taxon search (incl. synonyms)
  - National Inventory search
  - Crop search
  - Accession search
- Index of common names
- Index of taxa
- Map-based search
- Various data export features



The screenshot displays the EURISCO website interface. The top navigation bar includes the EURISCO logo and the tagline "Finding seeds for the future". The main content area shows a search results table with columns for C&E data, Holding institute, Accession number, Taxon, Accession name, Acquisition date, and Details. The table lists 15 accessions, all with a "Yes" status in the C&E data column. The taxon for all accessions is *Hordeum vulgare* L. convar. *deficiens* var. *decortiatum* Körn. The accession names include Decortiatum, Erythraea, and JIMMA VI. The acquisition dates range from 1938 to 2003-05-13. A map view is also visible, showing the geographical distribution of the accessions as red dots on a map of Europe.

C&E data	Holding institute	Accession number	Taxon	Accession name	Acquisition date	Details
✓	DEU146	HOR 4782	<i>Hordeum vulgare</i> L. convar. <i>deficiens</i> var. <i>decortiatum</i> Körn.	Decortiatum	-	
✓	DEU146	HOR 1921	<i>Hordeum vulgare</i> L. convar. <i>deficiens</i> var. <i>decortiatum</i> Körn.	-	-	
✓	DEU146	HOR 1598	<i>Hordeum vulgare</i> L. convar. <i>deficiens</i> var. <i>decortiatum</i> Körn.	Erythraea	1946	
✓	DEU146	HOR 16302	<i>Hordeum vulgare</i> L. convar. <i>deficiens</i> var. <i>decortiatum</i> Körn.	-	2003-04-28	
✓	DEU146	HOR 16326	<i>Hordeum vulgare</i> L. convar. <i>deficiens</i> var. <i>decortiatum</i> Körn.	-	2003-04-28	
✓	DEU146	HOR 2987	<i>Hordeum vulgare</i> L. convar. <i>deficiens</i> var. <i>decortiatum</i> Körn.	-	-	
✓	DEU146	HOR 2032	<i>Hordeum vulgare</i> L. convar. <i>deficiens</i> var. <i>decortiatum</i> Körn.	-	-	
✓	DEU146	HOR 9554	<i>Hordeum vulgare</i> L. convar. <i>vulgare</i> var. <i>nanum</i> (Vavilov & Orlov) Mansf.	Kairyo-Bazu	-	
✓	DEU146	HOR 1516	<i>Hordeum vulgare</i> L. convar. <i>vulgare</i> var. <i>nanum</i> (Vavilov & Orlov) Mansf.	-	1938	
✓	DEU146	HOR 11436	<i>Hordeum vulgare</i> L. convar. <i>distichon</i> var. <i>nigrinudum</i> (Vavilov) Mansf.	-	1994	
✓	DEU146	HOR 16973	<i>Hordeum vulgare</i> L. convar. <i>distichon</i> var. <i>nigrinudum</i> (Vavilov) Mansf.	-	2003-05-06	
✓	DEU146	HOR 18009	<i>Hordeum vulgare</i> L. convar. <i>distichon</i> var. <i>nigrinudum</i> (Vavilov) Mansf.	JIMMA VI	2003-05-13	
✓	DEU146	HOR 792	<i>Hordeum vulgare</i> L. convar. <i>distichon</i> var. <i>nigrinudum</i> (Vavilov) Mansf.	-	-	
✓	DEU146	HOR 2551	<i>Hordeum vulgare</i> L. convar. <i>distichon</i> var. <i>nigrinudum</i> (Vavilov) Mansf.	-	-	
✓	DEU146	HOR 212	<i>Hordeum vulgare</i> L. convar. <i>distichon</i> var. <i>nigrinudum</i> (Vavilov) Mansf.	-	-	
✓	DEU146	HOR 4256	<i>Hordeum vulgare</i> L. convar. <i>distichon</i> var. <i>nigrinudum</i> (Vavilov) Mansf.	-	-	
✓	DEU146	HOR 14028	<i>Hordeum vulgare</i> L. convar. <i>distichon</i> var. <i>nigrinudum</i> (Vavilov) Mansf.	-	-	
✓	DEU146	HOR 5055	<i>Hordeum vulgare</i> L. convar. <i>distichon</i> var. <i>nigrinudum</i> (Vavilov) Mansf.	-	-	
✓	DEU146	HOR 5032	<i>Hordeum vulgare</i> L. convar. <i>distichon</i> var. <i>nigrinudum</i> (Vavilov) Mansf.	-	-	



# Phenotypic data search in EURISCO

Filter C&E data by species and traits

\* Genus: HORDEUM

\* Species: VULGARE L., SPONTANEUM KOCH

\* Traits: 1000 kernel weight (g)[...], Annuality ((1=winter type, 5=interme[...])

Submit Reset

Show All Scores for selected taxon Experiments with selected species and traits

1 - 10 of 2,204

Experiment description	Trait name	Trait method	NICODE	INSTCODE	Species	ACCENUMB	Score	Score link	Origin country	Biological status	Details
Elicitation of character[...]	1000 kernel weight	[g]	AZE	AZE015	Hordeum vulgare L.	AzGR-9801	51		Azerbaijan	Advanced or improved cultivar (conventional breeding methods)	
Elicitation of character[...]	1000 kernel weight	[g]	AZE	AZE015	Hordeum vulgare L.	AzGR-9760	44		Azerbaijan	Advanced or improved cultivar (conventional breeding methods)	
Elicitation of character[...]	1000 kernel weight	[g]	AZE	AZE015	Hordeum vulgare L.	AzGR-2308	43		Azerbaijan	Advanced or improved cultivar (conventional breeding methods)	

\* National Inventory: GERMANY

1 - 10 of 84

Experiment description	Dataset remark	Experiment start year
Scoring of barley accessions 1991 - 1992.	Characterisation data (1946 - 2012) of barley accessions from DEU146	1991
experiment name: LOL_ESP99_EVA2004.Elicitation of evaluation data.	Evaluation data of DEU271	2004
experiment name: LOL_HRV96-97_pr-eva2003.Elicitation of evaluation data.	Evaluation data of DEU271	2003
experiment name: LOL_IRL2002_EVA2008.Elicitation of evaluation data.	Evaluation data of DEU271	2008
experiment name: LOL_BGR98_pr-eva2002.Elicitation of evaluation data.	Evaluation data of DEU271	2002
C-Daten POA Vor-Projekt_SZS	This dataset contains C&E data of Poa pratensis	2000
C-Daten POA Vor-Projekt_NPZ	This dataset contains C&E data of Poa pratensis	2000
Scoring of barley accessions 1945 - 1946.	Characterisation data (1946 - 2012) of barley accessions from DEU146	1945
Scoring of barley accessions 1946 - 1947.	Characterisation data (1946 - 2012) of barley accessions from DEU146	1946
Scoring of barley accessions 1947 - 1948.	Characterisation data (1946 - 2012) of barley accessions from DEU146	1947
Scoring of barley accessions 1948 - 1949.	Characterisation data (1946 - 2012) of barley accessions from DEU146	1948

Wizard-based searches for

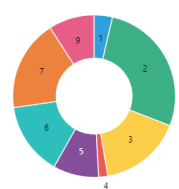
- Species and trait
- Experiment
- Trait

1 - 16

Trait Name	Trait Remark	Trait Method	Trait Group	Details
Brown rust - resistance	Aegilops L.	Rating score (1=very low (very sensitive), 2=very low (very sensitive) - low (sensitive), 3=low (sensitive), 4=low (sensitive) - medium (medium resistant), 5=medium (medium resistant), 6=medium (medium resistant) - high (high-resistant), 7=high (high-resistant), 8=high (high-resistant) - very high (resistant-immune), 9=very high (resistant-immune))	C&E data (not further specified)	used by experiment(s)
Spike - position (at full ripeness)	Aegilops L.	Rating score (1=erect 15°, 3=semi-erect 45°-90°, 5=horizontal 46°-90°, 7=nodding 91°-135°, 9=very nodding >135°)	C&E data (not further specified)	used by experiment(s)
Winter hardiness (field - survive)	Aegilops L.	Rating score (1=very low <20 %, 2=very low - low 20-30 %, 3=low 31-40 %, 4=low - intermediate 41-50 %, 5=intermediate 51-60 %, 6=intermediate - high 61-70 %, 7=high 71-80 %, 8=high - very high 81-90 %, 9=very high >90 %)	C&E data (not further specified)	used by experiment(s)
Spike - length	Aegilops L.	Rating score (1=very short < 3.0 cm, 2=very short - short 3.0 - 4.5 cm, 3=short 4.6 - 6.0 cm, 4=short - medium 6.1 - 7.5 cm, 5=medium 7.6 - 9.0 cm, 6=medium - long 9.1-10.5 cm, 7=long 10.6-12.0 cm, 8=long - very long 12.1-13.5 cm, 9=very long >13.5 cm)	C&E data (not further specified)	used by experiment(s)
Stripe rust - resistance	Aegilops L.	Rating score (1=very low (very sensitive), 2=very low (very sensitive) - low (sensitive), 3=low (sensitive), 4=low (sensitive) - medium (medium resistant), 5=medium (medium resistant), 6=medium (medium resistant) - high (high-resistant), 7=high (high-resistant), 8=high (high-resistant) - very high (resistant-immune), 9=very high (resistant-immune))	C&E data (not further specified)	used by experiment(s)
Spike - colour of the awns	Aegilops L.	Rating score (1=same as spike, 9=different (black or partly black))	C&E data (not further specified)	used by experiment(s)
Stem rust - resistance	Aegilops L.	Rating score (1=very low (very sensitive), 2=very low (very sensitive) - low (sensitive), 3=low (sensitive), 4=low (sensitive) - medium (medium resistant), 5=medium (medium resistant), 6=medium (medium resistant) - high (high-resistant), 7=high (high-resistant), 8=high (high-resistant) - very high (resistant-immune), 9=very high (resistant-immune))	C&E data (not further specified)	used by experiment(s)
Stem - colour of the upper internode (at the heading)	Aegilops L.	Rating score (3=light green, 5=green, 7=violet)	C&E data (not further specified)	used by experiment(s)
Powdery mildew - plant - resistance	Aegilops L.	Rating score (1=very low (very sensitive), 2=very low (very sensitive) - low (sensitive), 3=low (sensitive), 4=low (sensitive) - medium (medium resistant), 5=medium (medium resistant), 6=medium (medium resistant) - high (high-resistant), 7=high (high-resistant), 8=high (high-resistant) - very high (resistant-immune), 9=very high (resistant-immune))	C&E data (not further specified)	used by experiment(s)
Spike - colour after heading	Aegilops L.	Rating score (1=yellow-green, 2=light green, 3=green, 4=dark green, 5=gray-green (light gray blue-weak waxy bloom), 6=blue green (silver gray blue, dense waxy bloom), 7=light violet (sparse anthocyanin), 8=violet (medium with strong anthocyanin), 9=other colours)	C&E data (not further specified)	used by experiment(s)
Plant - tuft shape (at tillering)	Aegilops L.	Rating score (1=very erect <25°, 3=semi-erect 25-40°, 5=drooping 41-55°, 7=loosely spreading 56-70°, 9=prostrate >70°)	C&E data (not further specified)	used by experiment(s)

Trait details

Distribution of scores



Descriptive statistics

Trait name	Minimum	Maximum	Average	Stddev	Variance	First quartile	Median	Third quartile
Spike - length	1	9	4.56	2.44	5.95	2	5	7

Experiment description: Praha Ruzyně

Trait name: Spike - length

Trait method: Rating score (1=very short < 3.0 cm, 2=very short - short 3.0 - 4.5 cm, 3=short 4.6 - 6.0 cm, 4=short - medium 6.1 - 7.5 cm, 5=medium 7.6 - 9.0 cm, 6=medium - long 9.1-10.5 cm, 7=long 10.6-12.0 cm, 8=long - very long 12.1-13.5 cm, 9=very long >13.5 cm)

Additional filters: Genus: -- All species of selected trait --, Origin country: -- All origin countries of selected trait --

1 - 15 of 55

NICODE	INSTCODE	Taxon	ACCENUMB	Score	Score link	Origin country	Biological status	Details
CZE	CZE122	Aegilops geniculata Roth	01C2109049	2	<a href="https://grinczech.vur.vcz/ginglobal/AccessionObservation.aspx?id=17594">https://grinczech.vur.vcz/ginglobal/AccessionObservation.aspx?id=17594</a>	France	Wild	<a href="#">Accession details</a>
CZE	CZE122	Aegilops geniculata Roth	01C2109054	1	<a href="https://grinczech.vur.vcz/ginglobal/AccessionObservation.aspx?id=17599">https://grinczech.vur.vcz/ginglobal/AccessionObservation.aspx?id=17599</a>		Wild	<a href="#">Accession details</a>
CZE	CZE122	Aegilops ventricosa Tausch	01C2100513	6	<a href="https://grinczech.vur.vcz/ginglobal/AccessionObservation.aspx?id=16551">https://grinczech.vur.vcz/ginglobal/AccessionObservation.aspx?id=16551</a>		Wild	<a href="#">Accession details</a>

Refine result

Sort

Filter

Download

Chart

# Version history of the public interface

v1.0.0	v1.1.0	v1.2.0	v1.3.0	v1.4.0	v1.5.0	v2.0.0
<ul style="list-style-type: none"> <li>• Oct. 2014</li> <li>• First public version</li> <li>• v1.0.1 – v1.0.6 continuous improvements</li> </ul>	<ul style="list-style-type: none"> <li>• Nov. 2014</li> <li>• New export functionality + download of full dump</li> <li>• v1.1.1 – v1.1.17 (2015 – 2016) continuous improvements</li> </ul>	<ul style="list-style-type: none"> <li>• Jun. 2016</li> <li>• C&amp;E data extension; new export functionalities; new advanced search; lots of small improvements</li> <li>• v1.2.1 – v1.2.7 (2016 – 2017) continuous improvements</li> </ul>	<ul style="list-style-type: none"> <li>• Dec. 2017</li> <li>• Migration to MCPD2; increased usability; lots of small improvements</li> <li>• v1.3.1 – v1.3.5 (2018) continuous improvements</li> </ul>	<ul style="list-style-type: none"> <li>• Jun. 2018</li> <li>• Taxonomy search simple completely reworked</li> <li>• v1.4.1 – v1.4.9 (2018 – 2019) continuous improvements</li> </ul>	<ul style="list-style-type: none"> <li>• Sep. 2019</li> <li>• Taxonomy search advanced completely reworked</li> <li>• v1.5.1 – v1.5.4 (2019 – 2020) continuous improvements</li> </ul>	<ul style="list-style-type: none"> <li>• Mar. 2022</li> <li>• Fully reengineered web interface (new technological basis, additional functionalities)</li> <li>• v2.0.1 – v2.0.5 (2022) continuous improvements</li> </ul>

A total of 66 versions and sub-versions of the public EURISCO web interface have been completed since 2014, 22 of which since 2019.

# Network maintenance + development

- Contact with EURISCO stakeholders
- Definition of new services, e.g. with regard to DOIs
- Advancement of current and definition of new standards, e.g. with regards to phenotypic data
- Coordination with initiatives such as Genesys and GLIS
- Bilateral communication with regard to the coverage of EURISCO
- Cooperation with ECPGR Working Groups
- Preparation of work plans and reports
- Helpdesk behind the scenes (should not be underestimated ;-)

# Participation in project consortia

- EUCLEG (Horizon 2020), 2017–2021
- Farmer's Pride (Horizon 2020), 2018–2021
- GenRes Bridge (Horizon 2020), (2019–2021)
- ECPGR European Evaluation Network (initial funding BLE), 2019–2022
- AGENT (Horizon 2020), (2020–2025)
- Further project participations in preparation



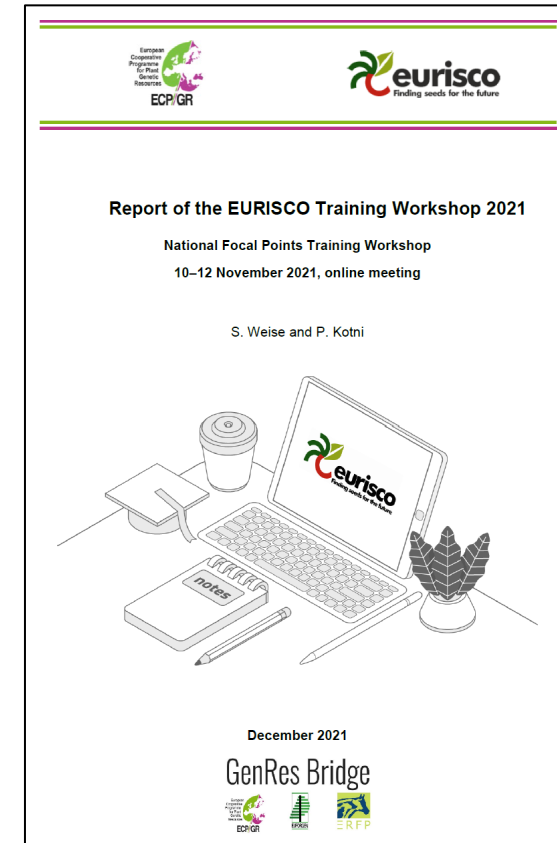
# Dissemination

- Regularly short information in ECPGR bulletin
- EURISCO newsletter
- Journal articles and reports
- EURISCO talks and posters on several conferences
- Presentations on several ECPGR workshops
- ECPGR Grant Scheme activities



# EURISCO training workshop

- 2018: Switch to bi-annual trainings
  - 2020 training should take place in Bulgaria
    - Had to be postponed due to COVID-19 pandemic
    - Online-only event end of 2021
      - 22 participants + 2 trainers
  - 2021 individual training for UK representatives
- Continuous increase of data quality



# Future

- Further development in close collaboration with ECPGR bodies
- Continuous improvement of functions and services
- Specific focus on:
  - *In situ* data
    - Extension of EURISCO will start in 2022
    - Data quality (e.g. completeness, reliability) → continuous task
- Participation in project consortia related to EURISCO (EVA, AGENT, ...)



M. Grau / IPK

**Thank you for your attention**



*In situ*  
conservation  
and use of crop  
wild relatives






# Many activities promoted through the H2020 Farmer's Pride project (2019–2021)

- National CWR checklists developed
- Regional CWR checklists and priorities in preparation [863 priority taxa]
- Preparatory documents towards a regional CWR strategy, based on analysis of diversity and gaps
- Designation of CWR genetic reserves (in Germany and soon in Lithuania, Spain and the UK)
- Intention to establish a European *in situ* conservation Network of sites and stakeholders (CWR and LRs) – ECPGR position statement

# Extension of EURISCO for Crop Wild Relatives (CWR) *in situ* data

<https://www.ecpgr.cgiar.org/working-groups/wild-species-conservation/cwr-in-eurisco>



**Principles for the Inclusion of CWR Data in EURISCO**

Prepared by Theo van Hintum and José Iriondo, within the framework of the ECPGR project 'Extension of EURISCO for Crop Wild Relatives (CWR) *in situ* data and preparation of pilot countries' data sets' (CWR data in EURISCO), funded by the German Federal Ministry of Food and Agriculture.

Agreed by project partners and EURISCO Advisory Committee in May 2022

**Introduction**

Populations of crop wild relatives (CWR)<sup>1</sup> occurring *in situ* are potentially valuable resources for crop science and plant breeding. Therefore, they need to be conserved and made available to users. However, the current conservation of, and access to these CWR populations varies strongly. *In situ* conservation of CWRs is often in the hands of nature conservation organizations, who are sometimes not even aware that they are managing these resources. Other CWR populations occur in farmers' fields, roadsides and other locations, where they are not managed at all. Furthermore, information about the CWR populations, their occurrence and availability, is hardly available.

The issue of CWRs has recently received much attention, e.g. from EU-funded projects such as Farmer's Pride and from the International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA). The latter coordinated and led the publication of a descriptor list for CWRs conserved *in situ* (Alercia *et al.*, 2021). For ECPGR and its database EURISCO, the issue of properly handling information about *in situ* CWRs has been on the table for a while, but for various reasons never resulted in substantial improvements.

- German-funded project (€250k)
- CWR *in situ* population data to enter EURISCO in 2023
- Eight pilot countries
- Principles agreed by project partners and EURISCO Advisory Committee and FAO Treaty
- CWR populations that can be made in principle available to users - Liaison institutions

# Wild species conservation in genetic reserves Working Group

→ Name change to:

## Crop Wild Relatives Working Group (CWR WG)

The scope intends to cover *in situ* and *ex situ* strategies and techniques, as well as Wild Food Plants

# On-farm conservation and management





# Many activities promoted through the H2020 Farmer's Pride project (2019–2021)

- Farmer's Pride data exchange format
- European inventory of *in situ* maintained landraces
  - 14 countries
  - 19,000 records of LR cultivation sites (1. ITA; 2. GRC; 3. AUT; 4. PRT)
  - 190 crop species (1. spelta; 2. bean; 3. apple; 4. tomato; 5. buckwheat)
- 100 landrace hotspots identified
- Best practice evidence-based database: 105 examples

[www.ecpgr.cgiar.org/in-situ-landraces-best-practice-evidence-based-database](http://www.ecpgr.cgiar.org/in-situ-landraces-best-practice-evidence-based-database)

# European Evaluation Network for PGRFA (EVA)

**Sandra Goritschnig**  
EVA coordinator

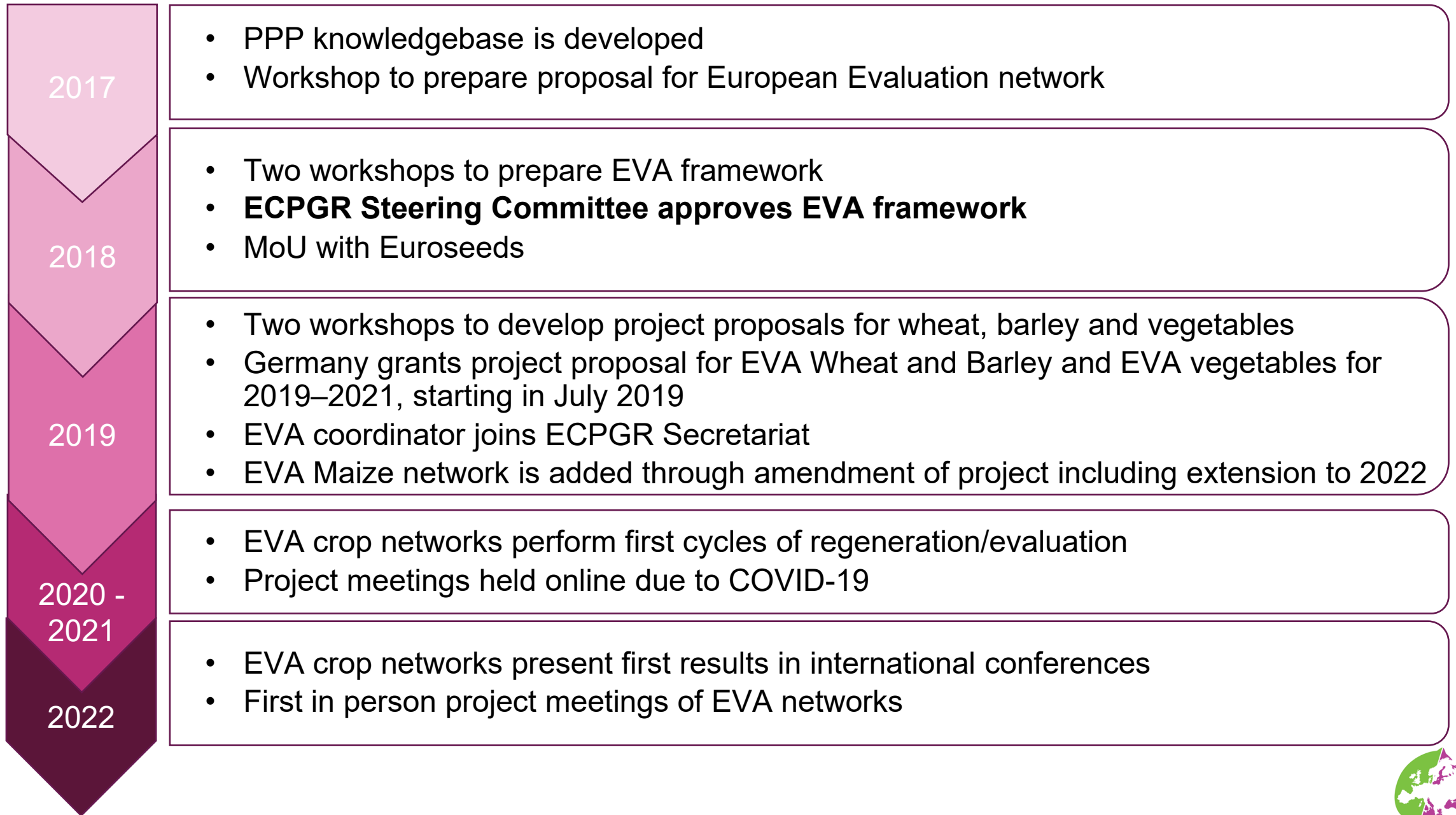
# EVA

European Evaluation Network



## **PUBLIC–PRIVATE PARTNERSHIPS**

Increasing ECPGR knowledge and opportunities on public–private partnerships for the use of plant genetic resources for food and agriculture.





# The EVA Framework



## **Joint work on pre-competitive level provides benefits to all partners:**

- Shared expertise and knowledge
- Large phenotypic datasets from multilocation trials
- Data embargo as incentive for private partners to contribute in-kind
- Results and materials will be publicly available (through EURISCO and SMTA)

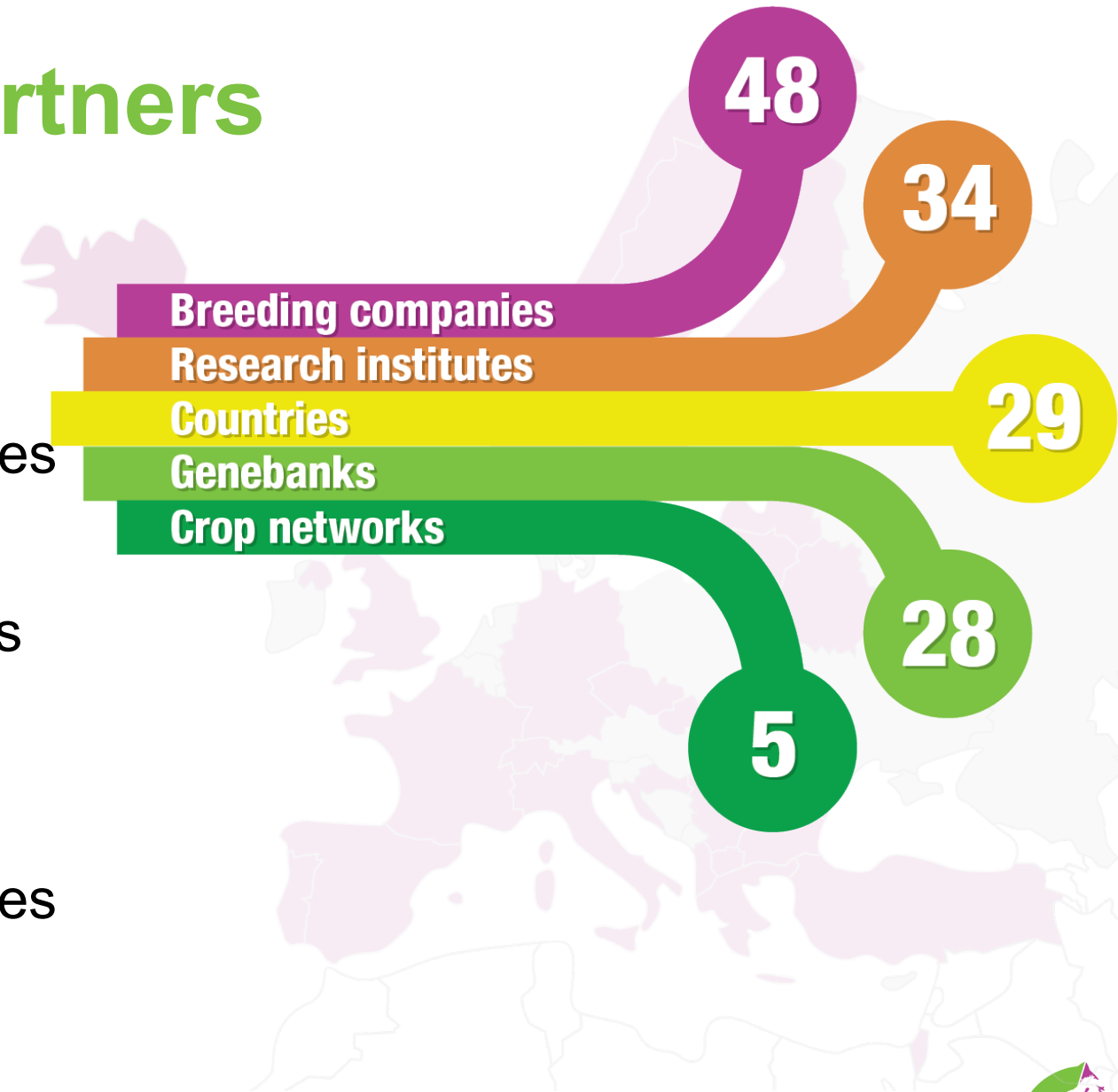
# Long-term Goals of EVA



- Promote, facilitate and improve the **sustainable use of genetic diversity** present in PGRFA in Europe for crop improvement.
- Facilitate **adaptation of European agriculture to climate change** and contribute towards achieving related **Sustainable Development Goals**
- Increase the diversity of stakeholders involved in plant breeding through implementation of **long-term public-private partnerships (PPP)**
- Create **self-sustaining networks** that evaluate available PGRFA in continuous evaluation cycles

# More than 90 EVA partners

- **Public partners:**
  - Genebanks
  - Universities and research institutes
- **Private partners**
  - Multinational breeding companies
  - SME breeding companies
  - Organic breeding companies
  - Breeding and farming cooperatives



# Five crop-specific EVA networks

**EVA  
Carrot**



**EVA  
Lettuce**



**EVA  
Pepper**



**EVA  
Wheat & Barley**

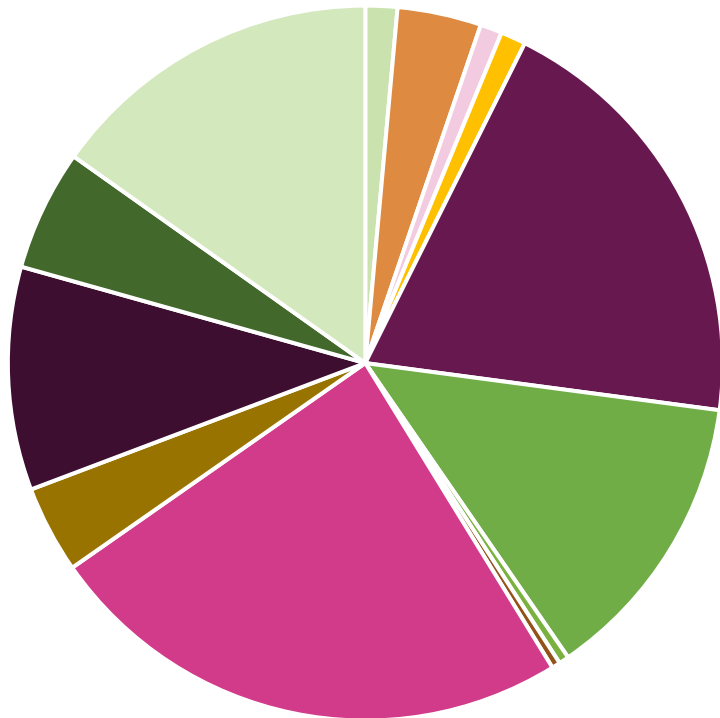


**EVA  
Maize**



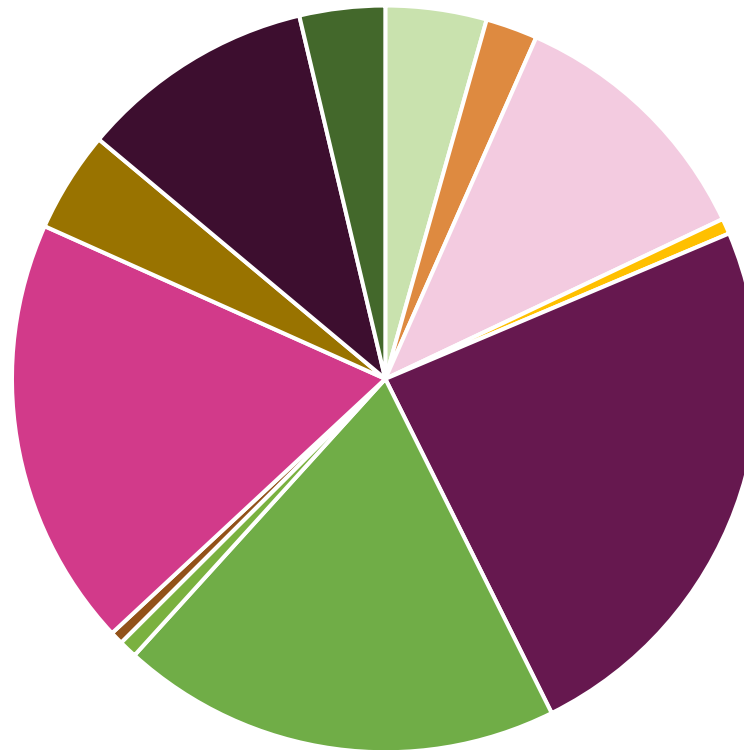
# EVA Accessions Field crops (2020-2022)

Wheat (incl durum) (N=1318)



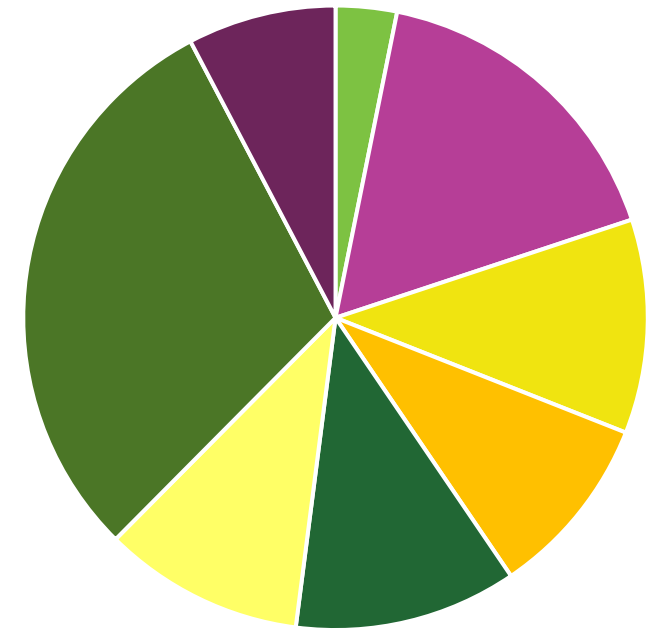
- Austria
- Bulgaria
- Czechia
- Estonia
- Germany
- Italy
- Latvia
- Lithuania
- Nordgen
- Portugal
- Spain
- Switzerland

Barley (N=918)



- Austria
- Bulgaria
- Czechia
- Estonia
- Germany
- Italy
- Latvia
- Lithuania
- Nordgen
- Portugal

Maize (N=442)



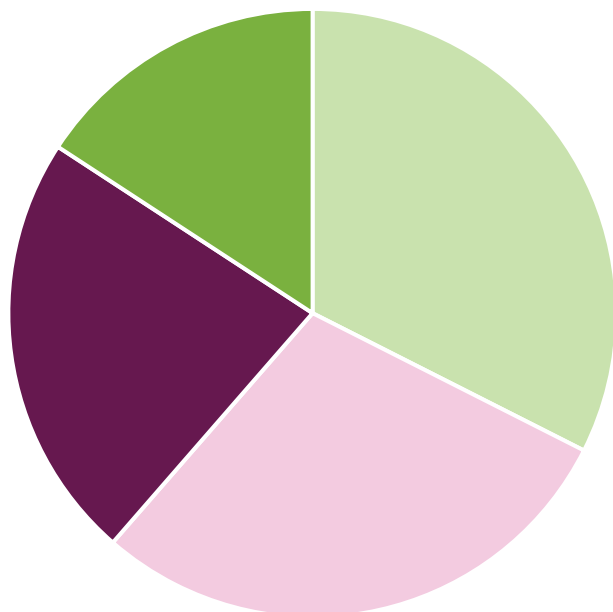
- Croatia
- France
- Italy
- Portugal
- Romania
- Serbia
- Spain
- Switzerland

Additional sets are in preparation!



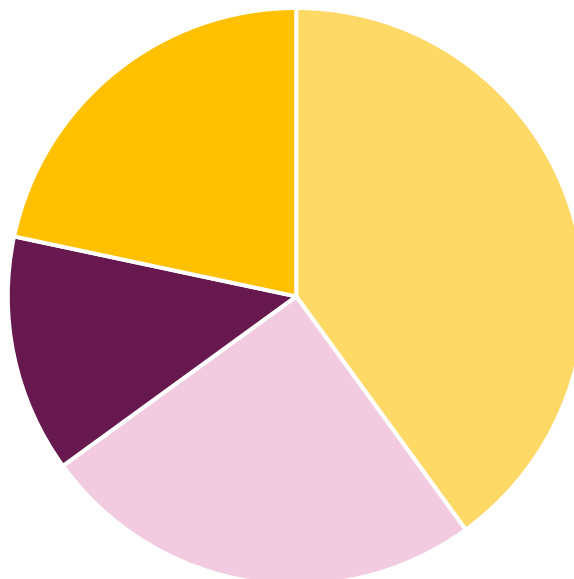
# EVA Accessions vegetables

Lettuce (N=228)



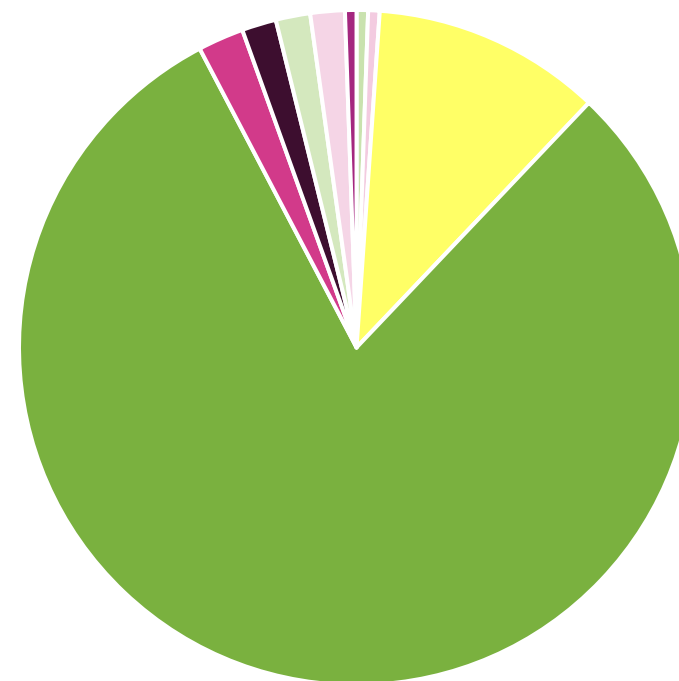
- Bulgaria
- France
- Nordgen
- Netherlands

Carrot (N=60)



- UK
- France
- Nordgen
- Spain

Pepper (N=182)



- Bulgaria
- Serbia
- Hungary
- Portugal
- Northern Macedonia
- Netherlands
- Germany
- Poland

# 109 Evaluation trial sites across Europe



EVA wheat trial 2021, BASF (V. Spamer)



EVA lettuce trial 2022 *Sativa* Rheinau (C. Aichholz)



EVA pepper trial 2021, Semillas Fito (M. Fernandez)



EVA carrot trial 2021 Institut Agro Angers (E. Geoffriau)



EVA maize trial 2021, CREA-CI (C. Balconi)



# Outlook until 2023 (end of current project)

- Finalize evaluations
- Data analysis
- Dissemination and outreach
  - Scientific publications
  - Conference presentations
- Discuss establishment of EVA Steering Committee (with representatives from ECPGR and public/private partners)
- Discuss options for continuation/extension of networks
- Explore options for establishment of new networks



# Acknowledgements

EVA partners:



Funding:



Federal Ministry  
of Food  
and Agriculture



The AGENT project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 862613.



# *Genetic Resources:*

a NEW open-access  
journal for the  
GenRes community



# Genetic Resources

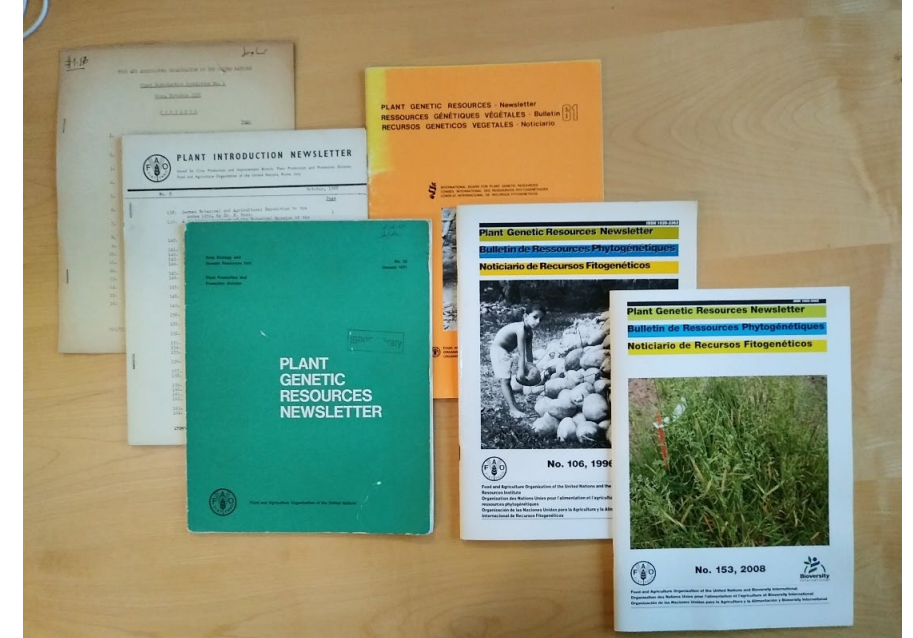
**Sandra Goritschnig**

Journal Managing Editor

[www.genresj.org](http://www.genresj.org)

# History

- FAO/IPGRI published periodicals on PGR and AnGR until 2009/2016
- Several attempts at filling this gap
- A new start in 2019 with H2020 project



GenRes Bridge Genetic resources for a food-secure and forested Europe

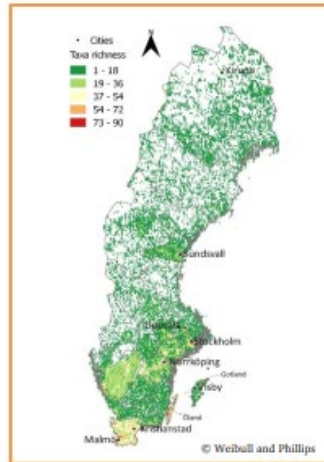


## Genetic Resources

[www.genresj.org](http://www.genresj.org)

New Journal!





# Scope and Content

Within GenRes Bridge, **Genetic Resources** was established to provide an inclusive space for GR stakeholders of all domains to report on their work, to share global knowledge and tools and to present new approaches or methods that may not be suitable for purely scientific journals.

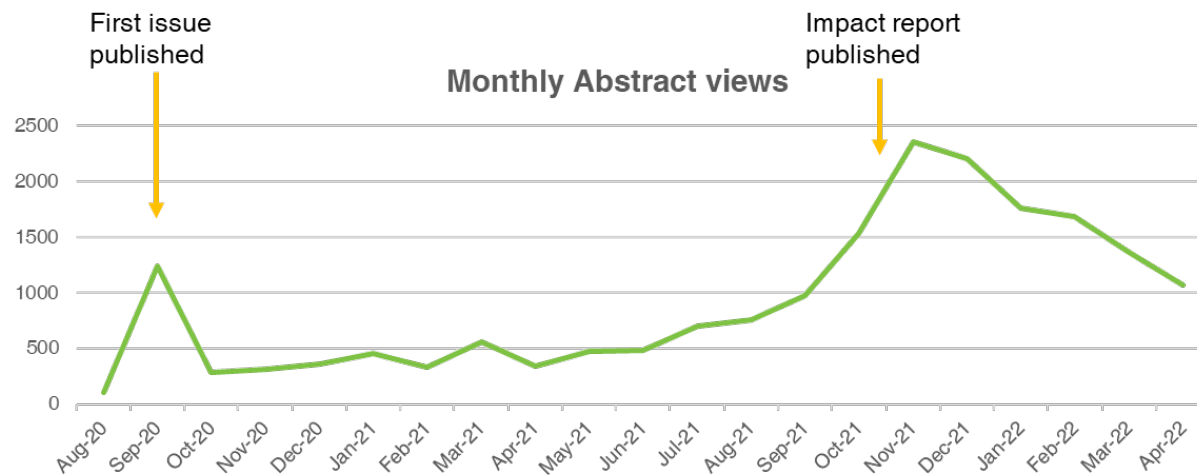
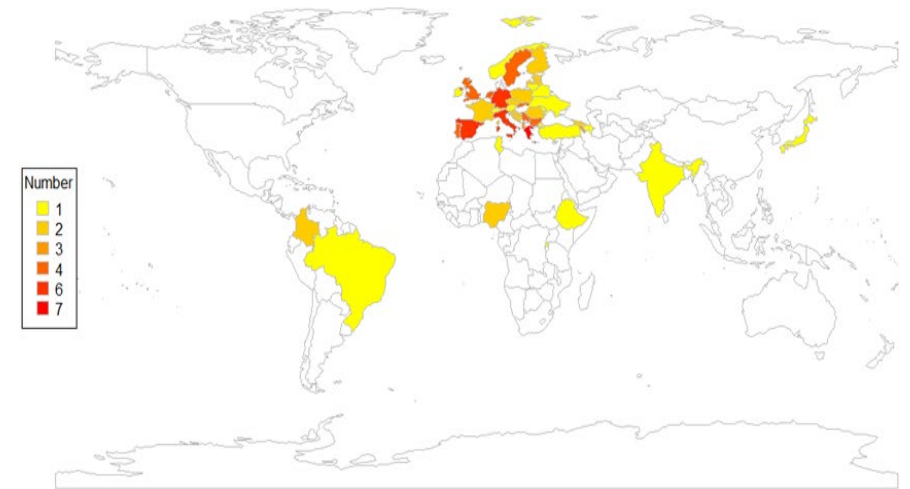
- **Open access** (free to publish, free to read)
- Focus on **PGR** and **AnGR** and on **European region**
- Consider submissions from all world regions
- **Peer-reviewed** (single-blind)
- Publication **ethics**
- Two regular **issues** annually, occasionally special issues
- Indexed in **Scopus** and **DoAJ**

# Journal Statistics

Survey on impact and uptake of journal confirms global readership and support of stakeholders for its continuation:

<https://www.genresj.org/index.php/grj/impactreport2021>

Number of respondents per country



Submissions			
year	received	accepted	published
2020	22	12	12
2021	26	11	11
2022	9	10	6
	<b>57</b>	<b>33</b>	<b>29</b>

# GenResJ: Timeline and outlook

2020–2021  
GenRes Bridge

2022–2023  
Bridge funding  
ECPGR/ERFP

2024–?  
Phase XI ECPGR

**MoU with ERFP** on cost-sharing and joint publication of *Genetic Resources* in preparation

**Budget** estimate (based on publication of ~15 articles per year):

~ 3,000 € p.a. fixed costs (website, software etc)

~ 3 person months for editorial office (~ 20,000 € p.a.)

Total: ~23,000 € p.a.

Using an open-source platform we created a professional product that can be maintained at low running costs.

Submit your paper to [www.genresj.org](http://www.genresj.org)!

# Acknowledgements

## Editorial Team

### Managing editor:

Sandra Goritschnig (ECPGR, Italy)

### Plant Genetic Resources:

Joana Brehm (University of Birmingham, UK)

Igor Loskutov (Vavilov Institute of Plant Genetic Resources, Russia)

Lorenzo Maggioni (ECPGR, Italy)

Nigel Maxted (University of Birmingham, UK)

Jade Phillips (University of Birmingham, UK)

Alvaro Toledo (International Treaty on Plant Genetic Resources for Food and Agriculture, FAO, Italy)

### Animal Genetic Resources:

Peer Berg (Norwegian University of Life Sciences, Norway)

Grégoire Leroy (Animal Genetics, FAO, Italy)

Enrico Sturaro (University of Padova, Italy)

Etienne Verrier (AgroParisTech, France)

\* Luigi Guarino and Odd Vangen ended their term on the editorial team by end of 2021.

## Editorial office

Sandra Goritschnig: Journal manager

Nora Capozio: copyeditor and production editor

NewtVision: website design and support

## Funding

**GenRes Bridge** Genetic resources for a food-secure and forested Europe



The GenRes Bridge project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 817580.



Contact [s.Goritschnig@cgiar.org](mailto:s.Goritschnig@cgiar.org) with expressions of interest to join the editorial team!

# Communication and public awareness



- 2020: Communication and Public Relations Strategy – Vision and Mission
- 2021: Jubilee Video, Roll-up banners
- 2022: PGR Strategy Policy brief, EVA information material, ECPGR brand refresh





# Voluntary contributions from Germany – Phase X



Federal Ministry  
of Food  
and Agriculture

- GenR 2017-3 (Apr 2017–Sep 2019) – € 105,000  
(supporting Grant Scheme activities)
- GenR 2018-1 (Sep 2018–Feb 2019) – € 69,000  
(AEGIS workshop)
- GenR 2018-3 (Sep 2018–Apr 2019) – € 40,000  
(EVA preparatory workshops)
- GenR 2019-2 (Jul 2019–Nov 2023) – € 900,000  
(EVA Networks)
- GenR 2019-5 (Sep 2019–May 2020) – € 60,000  
(Maize and Berries meetings and public awareness)
- GenR 2021-1 (Nov 2021–Dec 2023) – € 250,000  
(*In situ* CWR data in EURISCO)

# Partnership of Secretariat in EU projects



Unsuccessful submissions: Greenbooster; WiCaLoMix; BerryValue

Successful:

GenRes Bridge (2019–2021) – ECPGR budget: €210,613

- Genetic Resources Strategies
- Workshop on Phytosanitary barriers for genetic resources
- *Genetic Resources* journal

AGENT (2020–2025) – ECPGR budget: €276,825

- One-year extension of EVA Network Wheat and Barley and involvement of farmer's network
- Genebank peer reviews and training

# Financial status



# Evolution of Phase X budget

	Euro
Total budget Phase X agreed in Thessaloniki 2018	<b>2,688,250</b>
Reduction for Bosnia and Herzegovina not joining Phase X	-15,750
New Total budget at 31.12.2021	<b>2,672,500</b>
Carryover from past Phases	324,154
Voluntary contribution (Hungary 2019)	12,000
<b>GRAND TOTAL -1</b>	<b>3,008,654</b>
Voluntary contributions (Germany 2019–21)	1,271,864
<b>GRAND TOTAL budget at 31.12.2021</b>	<b>4,280,518</b>

# Financial status – contributions

## Regular contributions received at 31.12.2021

Year	Contributions received in €	Number of contributing countries
2019	523,000	35
2020	534,500	35
2021	527,350	33
2022	8,600	1
<b>Total</b>	<b>1,593,450</b>	

Outstanding:  
€18,650

## Voluntary contributions received at 31.12.2021

Year	Voluntary contributions received in €	Country
2019	12,000	Hungary
2019–2021	725,173	Germany
<b>Total</b>	<b>737,173</b>	



# Financial status

## Cash balance at 31.12.2021

	Euro
Total regular contributions received (2014–2017)	1,593,450
Carry over funds past Phases	324,154
Voluntary contribution (Hungary 2019)	12,000
Voluntary contributions Germany Phase IX – funds balance	58,673
Voluntary contributions Germany Phase X	725,173
<b>TOTAL received (at 31.12.2021)</b>	<b>2,713,450</b>
Expenditures Phase X (2019–2021)	-1,752,712
<b>Cash balance at 31.12.2021</b>	<b>960,738</b>

# Financial status – Outlook

- Staff costs – projected balance at end-of-phase: **€229,000**

Available funds for activities (€)					
	Total Budget	Expenditures 2019–21	Expenditures 2022	Committed	BALANCE
WG meetings	188,599	-	-	15,000	173,599
WG – other actions	188,599	7,875	-	132,095	48,629
Carryover	279,665	88,981	22,309	20,146	148,229
Voluntary unrestricted	10,359	-	-	-	10,359
BiH reduction	-13,255				-13,255
<b>TOTAL</b>	<b>653,967</b>	<b>96,856</b>	<b>22,309</b>	<b>167,241</b>	<b>€367,561</b>

# Acknowledgments

Goodbye!



Lidwina Koop



Elinor Lipman



Vanessa Bryant

Welcome!



Sandra  
Goritschnig



Loredana  
Maria



Nora  
Capozio







# Acknowledgments

- Consultants: Jeremy Chesterton and Duckrabbit, Jan Engels, Vincent Johnson, Lina Weibull
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- ExCo: Eva Thörn, Marianne Lefort, Külli Annamaa, Vojtech Holubec, Marc Lateur, Birgitte Lund, Benvindo Maças, Beate Schierscher
- Internships: Sonja Ensslin, Fernando Luque
- Several Task Forces' members and other Alliance staff

A collection of fresh vegetables and fruits including carrots, raspberries, basil, tomatoes, and walnuts. The items are arranged on a light-colored surface, with some items like the carrots and raspberries in the foreground and others like the tomatoes and basil in the background. The overall scene is vibrant and fresh.

**THANK YOU**

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