

# Information and update on ECPGR

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**SafeAlliDiv Workshop-II 17-18 April 2018, Olomouc, Czech Republic**

# Summary

## 1. Achievements Phase IX

## 2. End-of-Phase Steering Committee meeting, May 2018

- WG Chairs' recommendations
- Proposed revised objectives and mode of operation

## 3. H2020 opportunities

# ECPGR Phase IX (2014-2018)

- 36 participating countries
- New Terms of Reference and Mode of operation
- 21 Working Groups open to unlimited number of members
- Chairs appointed by the ExCo based on EoI
- Activities through Grant Scheme
- 28 (+) Activities granted = Euro 473 000
- Transfer of EURISCO to IPK, Germany

# Phase IX achievements

## 1- AEGIS

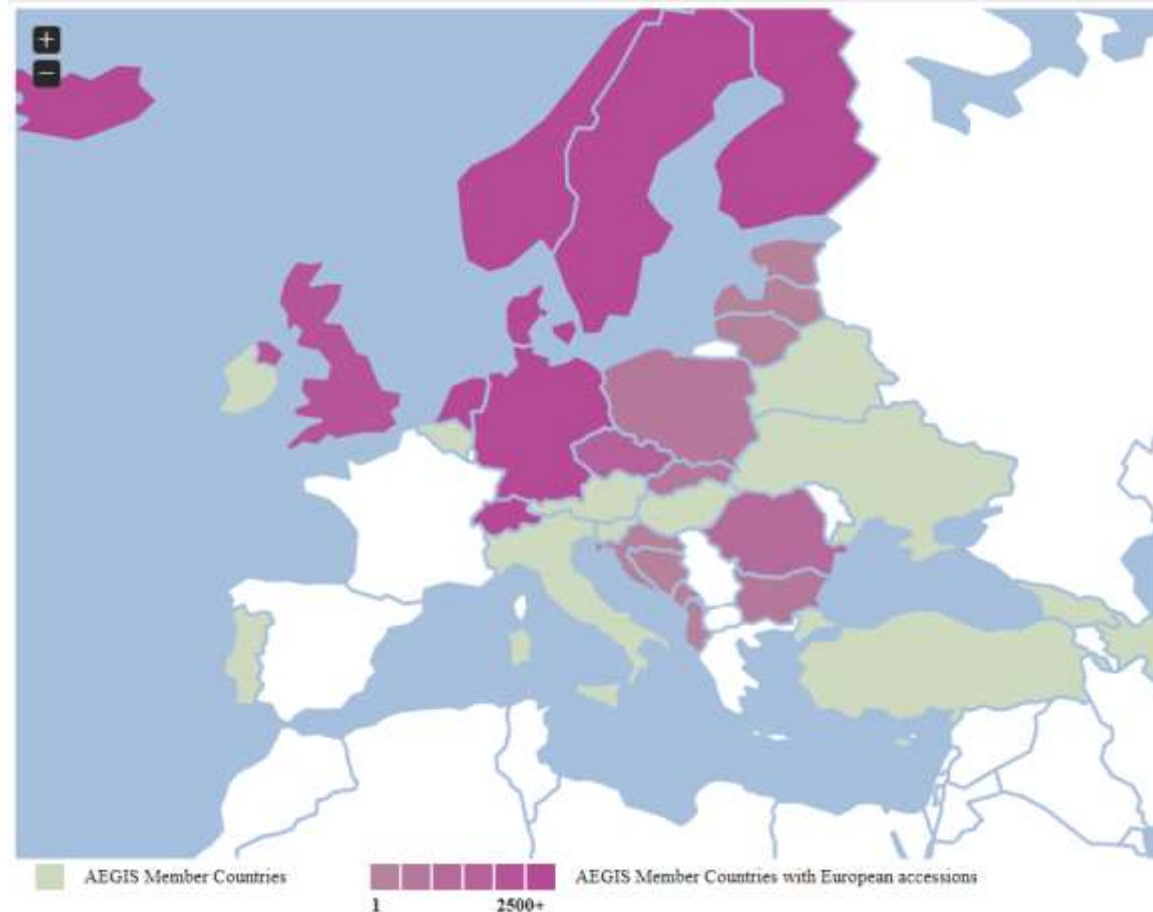
- Number of accessions: 33 000 (+22 000)
- Member countries: 34 (+1)
- Associate Member institutions: 65 in 30 countries  
(from 54 in 26 countries)
- Operational genebank manuals: 8 institutions (+3)
- Crop-specific standards: 9 WGs (50%)
- Level of safety-duplication: 78%

# Phase IX achievements

## 1- AEGIS – The European Collection

**33 343** accessions included in the European Collection

Country	No of accessions
Albania	8
Bulgaria	341
Croatia	90
Czechia	1285
Estonia	89
Germany	14183
Latvia	27
Lithuania	36
Netherlands	5853
Nordic Countries	3708
Poland	303
Romania	623
Slovakia	299
Switzerland	4839
United Kingdom	1659
<b>Total</b>	<b>33 343</b>



# Allium accessions in AEGIS (630 vs. 12 333 in EURISCO)

Allium altaicum	3	Allium lusitanicum	2
Allium altynolicum	4	Allium nutans	4
Allium ampeloprasum	77	Allium porrum	73
Allium angulosum	2	Allium ramosum	6
Allium carolinianum	4	<b>Allium sativum</b>	<b>143</b> <b>5.9% of EURISCO (2429)</b>
<b>Allium cepa</b>	<b>231</b> <b>4.5% of EURISCO (5158)</b> <b>Aggregatum = 84 – All GBR</b> <b>40% of EURISCO (211)</b>	Allium schergianum	1
Allium cepa x fistulosum	1	Allium schoenoprasum	46
Allium fistulosum	23	Allium scorodoprasum	1
Allium hymenorrhizum	1	Allium sphaerocephalon	3
Allium karelinii	1	Allium tuberosum	1
Allium kermesinum	1	Allium vavilovii x cepa	2

# Phase IX achievements

## 2- EURISCO

Online catalogue, with information on the European *ex situ* collections: passport and C&E data



<http://eurisco.ecpgr.org>



# Phase IX achievements

## 2- EURISCO

- Maintained by IPK, Germany on behalf of ECPGR
- Data gathered from 43 national inventories (=)
- 1.96 M accession data (+896k) from 372 institutions throughout Europe
- Characterization/Evaluation data (32 267 accessions from 6 countries)
- Multicrop descriptors v.2.1
- Taxonomy quality & search improvements
- Training workshops involving > 40 National Focal Points



# Phase IX achievements

## 3- In situ / on-farm conservation and management



### ECPGR Concept for on-farm conservation and management of plant genetic resources for food and agriculture

Endorsed by the ECPGR Steering Committee in January 2017



### ECPGR Concept for *in situ* conservation of crop wild relatives in Europe

Nigel Maxted, Alvina Avagyan, Lothar Frese, José Iriondo,  
Joana Magos Brehm, Alon Singer and Shelagh Kell

Endorsed by the ECPGR Steering Committee in March 2015



# Phase IX achievements

## 4- Relations genebanks - users

### *Private Public Partnerships for the use of PGRFA*



- Dedicated ECPGR web pages
- Proposal for a European Evaluation Network
  - Test germplasm across environments
  - Use same standards
  - Make data online publicly available after embargo period
  - ECPGR coordination

## End-of Phase Steering Committee meeting 15-17 May, Thessaloniki, Greece



- Evaluation Sixth Call Grant Scheme
- Reporting and discussion on Phase IX
  - WG Chairs recommendations, Ljubliana 2017
- Evaluation Network
- Communication strategy
  - (e.g. video for 2020 - 40<sup>th</sup> ECPGR Anniversary)
- Objectives and Mode of operation Phase X
- Budget Phase X



## WG Chairs recommendations, Ljubljana 2017

→ replies from ExCo in the minutes of their 10<sup>th</sup> meeting

- WG membership → One contact person per WG
- WG representation → Regular 'all Chairs meetings'
- Fund all WGs → More opportunities for meetings
- AEGIS/EURISCO etc. → See revised Objectives

# Proposed revised objectives - Phase X

1. **AEGIS**: the European Collection efficiently conserves and provides access to unique germplasm in Europe
2. The **EURISCO** catalogue provides passport and phenotypic information of actively conserved European PGR diversity ex situ and in situ
3. **In situ conservation and use** of crop wild relatives are improved via inventory, prioritization, management of populations representing the European crop wild relative (**CWR**) diversity and mechanisms to facilitate access
4. **On-farm conservation and management** of European PGRFA diversity is promoted
5. **Use of PGR** is promoted

## Revised mode of operation - Phase X

- Two budget lines: ‘meetings’ and ‘other actions’
- Meetings can be requested at any time
  - Limitations: maximum number of participants over five years and country quota
- ‘Other activities’ funded through the Grant Scheme (country quota does not apply)
  - Range of Euro 15 000

# Horizon 2020 opportunities

Topic: genetic resources and pre-breeding communities – Call SFS 28 2018/2019/2020

- A. [2018]: Joining forces for GenRes and biodiversity management (CSA) – (€ 3M)
- B. [2019]: Adding value to plant GenRes (RIA) – (€ 14M) – two stages 23/1/19 – 4/9/19
- C. [2020]: The GenRes-user interface and pre-breeding activities (IA)

# [2018]: Joining forces for GenRes and biodiversity management

## GenRes Bridge

- Joint submission in February 2018 by three GR Networks
- Coordinated by EUFORGEN
- **ECPGR partners:** BLE, Germany; CGN, Netherlands; INRA, France; Uni. Bham, UK; BGCI, Botanic gardens; IPK, EURISCO; ECPGR Secretariat



# [2018]: Joining forces for GenRes and biodiversity management

## GenRes Bridge

### Main Work Packages:

- European Integrated GenRes Strategy
- GenRes in action (services for users, conservation standards and quality assurance, phytosanitary issues)
- Enhancing GenRes data delivery (GenRes Journal)
- Communication (GenRes gateway)

## B. [2019]: Adding value to plant GenRes (RIA)

Activities will address **processes, tools and know-how** associated with a **dynamic management and documentation of GenRes collections** (both ex-situ and in-situ, as appropriate). They will add value to the preserved germplasm to promote its use, e.g. in breeding, farming, forestry and by consumers. Work will enable the development and testing of a range of **solutions to enhance quality and efficiency of operations and services across collections. Major efforts should go into capturing and characterising the genetic diversity in germplasm and revealing novel information to users.** This will include acquiring **comprehensive and more precise genotypic and phenotypic information on GenRes material, understanding the connections between the two, how they vary in different environmental contexts and having in place appropriate (bioinformatic) tools for data processing, exchange and visualisation.** Due account shall be given to **disclosing the potential of less adapted material from genebanks/in-situ conservation sites in relation to valuable traits associated with resilience, adaptability and quality of crops.**



# Thank you for your attention!

