

"CWR Conservation Strategies" The ECPGR context

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ECPGR Secretariat



What is ECPGR

ECPGR is a collaborative Programme among most European countries, aiming at ensuring the long-term conservation and facilitating the utilization of plant genetic resources in Europe.

www.ecpgr.cgiar.org/

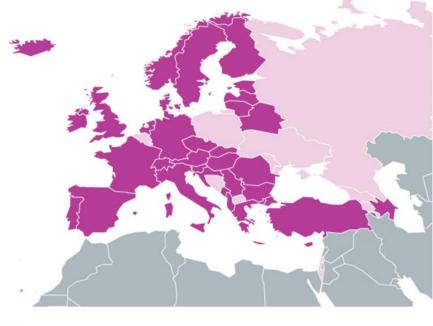


Phase IX (2014-2018)

Annual budget ca. € 520k from 38 countries

Letters of Agreement signed by 33

countries





Objectives of ECPGR – outcomes of Phase IX

- AEGIS is operational and accessions are characterized and evaluated
- Functionality of EURISCO ensured (data quality & quantity + in situ data)
- 3. In situ and on-farm conservation and management of priority crop wild relative (CWR) and landrace (LR) populations are implemented throughout Europe
- 4. Relations with **users** of germplasm are strengthened
- 5. Commitment and regular resources from donors are increased
- 6. Secretariat support is adequate to sustain operations of ECPGR



Structure

Executive Committee Steering Committee Coordinating Secretariat Crop Working Groups -Thematic Working Groups -

- Allium
- Avena
- Barley
- Beta
- Brassica
- Cucurbits
- Fibre Crops (Flax and Hemp)
- Forages
- Grain Legumes

- Leafy Vegetables
- Malus/Pyrus
- Medicinal and Aromatic Plants
- Potato
- Prunus
- Solanaceae
- Umbellifer Crops
- Vitis
- Wheat

- Wild Species Conservation in Genetic Reserves
- On-farm Conservation and Management
 Documentation and Information



ECPGR operates through Working Groups

- Chair + Working Group members nominated by National Coordinators
- Operation through meetings and small activities under "ECPGR Grant Scheme"

Traditional activities:

- Exchange of information and plan collaboration
- Agreement on standards, guidelines, descriptors
- Setting up databases and exchanging data
- International project preparation
- Training, capacity building



Composition of Working Group on 'Wild Species Conservation in Genetic Reserves'

- Chair: Nigel Maxted, UK
- 82 members from 37 countries:
 - Genebank curators: 24
 - Crop specialists: 33
 - Info/Doc specialist: 18
 - Plant breeders: 4
 - Policy and law: 18
 - Other expertise: 8



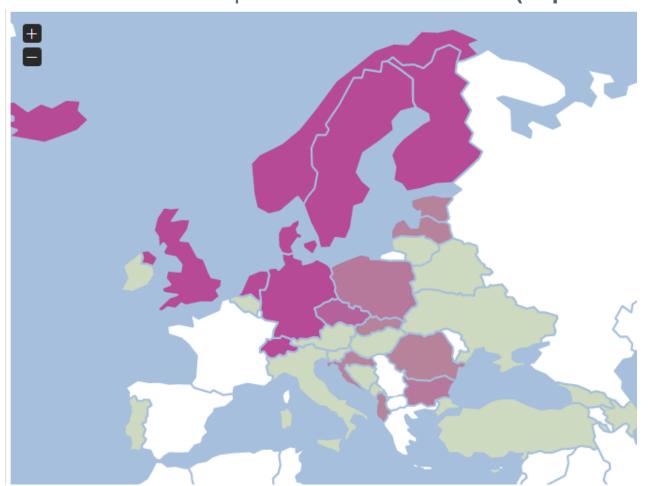
Outcome 1- AEGIS is operational

 To create A European Genebank Integrated System for PGRFA, aimed at conserving the genetically unique and important accessions for Europe and making them available for breeding and research. Such material will be safely conserved under conditions that ensure genetic integrity and viability in the long term.



The European Collection

Total number of European Accessions: 28 847 (September 2016)



Wild: 5881 accessions (20%)

Forages: 56%

Vegetables: 27%

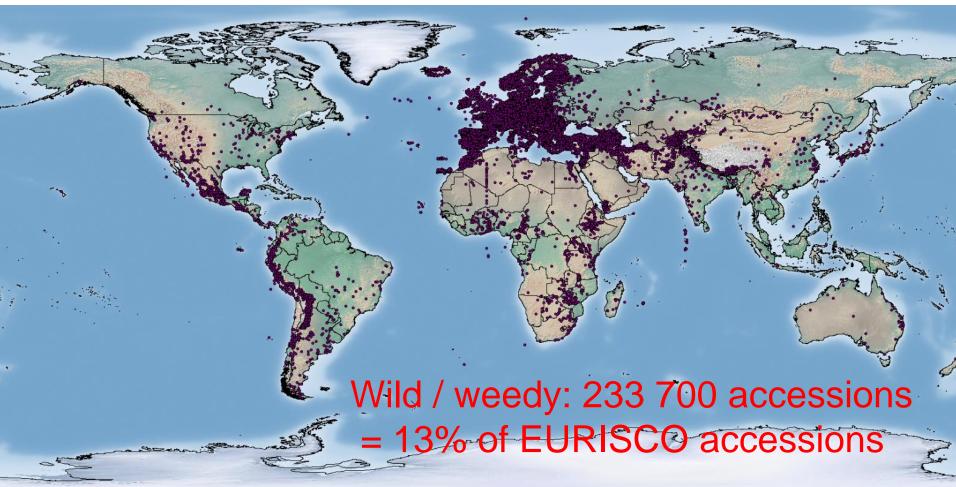
MAPs: 16% Cereals: 1%

Grain leg: 0%



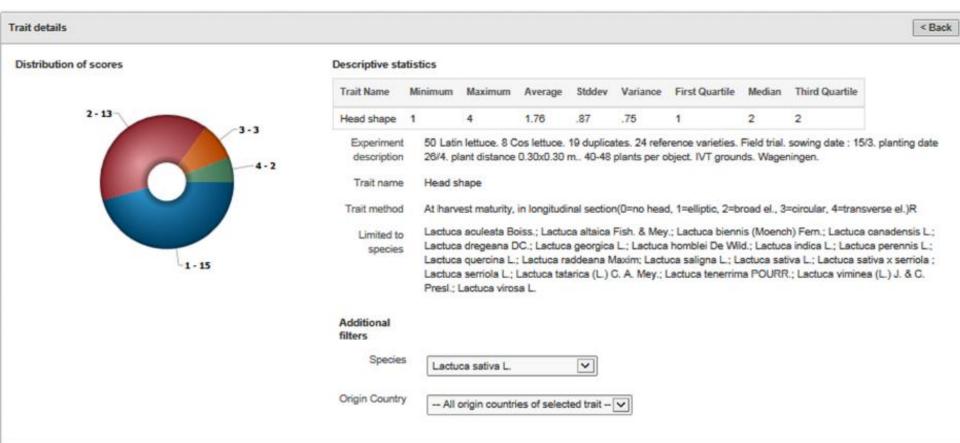
Outcome 2- Quantity and quality of data in EURISCO

- 1.8M accession data from ca. 400 institutions throughout Europe
- Largest data provider to Genesys and the Global Information System





New feature of EURISCO: C&E data





Outcome 3. *In situ* conservation of priority CWR and LR populations

CONCEPT:

- National and regional conservation strategies (checklists → priorities → inventories → action plans)
- Designation and management of Most Appropriate Wild Populations (genetic diversity and traits of interest) in genetic reserves



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





Outcome 3: On-farm concept

Third draft agreed by WG, ready to be submitted to SC

Proposed ECPGR approach:

- European Inventory of on-farm genetic diversity
- Developing indicators for monitoring diversity and threat
- Promoting good practices for on-farm management and conservation and adding value
- Concept of European on-farm crop diversity sites and its implementation
- Proposing legal and technical solutions to address issues of ownership, access, availability, marketing, etc.



Outcome 3 – Activities

First Call (2014):

- GeDiPa: Survey of genus Patellifolia (genetic reserve)
- Forages 2020: Established workplan on in situ cons. of forage crops

Second Call (2015):

- CWR Conservation strategies: ongoing
- InWiGrape: Inventory of wild *Vitis vinifera* and standards for ex situ / in situ conservation

Third Call (2016):

 CCLEAFY: Consequences of climate change for conserving leafy vegetables CWRs in Europe (30 species)

Fourth Call (2016): Good opportunity!



Outcome 4: Relations with users of germplasm are strengthened

Granted Activity 'LINKAGES': Assessing linkages between genebanks and direct users Submitted by 'On-farm WG'





Report of the Steering Committee

Fourteenth Meeting 31 May - 2 June 2016, Višegrad, Bosnia and Herzegovina





Background documents: → www.ecpgr.cigar.org



Evaluation of mode of operation of ECPGR – Phase IX

Overall rate:

Highly satisfactory: 17%

Satisfactory: 60%

Partly satisfactory: 20%

Not satisfactory: 1%

General comments:

- Need more funds to implement objectives
- Chairs overloaded with responsibilities
- Request for simplification and more flexibility of Grant Scheme
- ECPGR ability to involve all countries might be at risk



Evaluation of Working Group Chairs

The Chair of the Wild species WG received the highest score (2.71 on a 0-3 scale)

Wild species WG had the highest number of respondents (24)



Steering Committee decisions for remaining of Phase IX

- All WG Chairs reconfirmed until the end of the Phase
- Workload on shoulders of Chairs → NCs should encourage WG members to be more active
- No immediate changes on the mode of operation as it is too early to judge its effectiveness
- Possible increased budget to fund activity proposals, including funding per project
- NCs and WG Chairs recommended to focus on identification and flagging of accessions → AEGIS
- AEGIS → WGs recommended to inventory 'needs for services' and 'offers of services' by the Associate Members



Steering Committee decisions for remaining of Phase IX

Outcome 3 – In situ /On-farm

- NCs and WG members are encouraged to promote related activities at country level.
- The ECPGR Concepts for in situ conservation of crop wild relatives in Europe and for on-farm conservation and management of PGRFA should be offered to the EC for consideration.
 - → Letter in preparation



Steering Committee decisions for Phase X

- Revision of the ECPGR Objectives
- Budget line for WG meetings (based on cost efficiency) to allow WG members to establish collaboration for action
- Budget line for Grant Scheme (more flexible, no longer 75:25 ratio)
- Working Groups to engage more with users (supporting use, pre-breeding, etc.)



Steering Committee decisions for Phase X

26. Based on the agreement reached at the Doc&Info meeting in Prague (2014) to include in EURISCO data of in situ CWR conserved in genetic reserves, representatives from the Wild Species Conservation in Genetic Reserves WG, the Doc&Info WG and selected Crop WGs should develop an agreed minimum data exchange format on the basis of existing in situ descriptor lists.



Other Steering Committee decisions - 1

- Lobbying with EC for recognition of ECPGR for implementation of EU Programme on PGRFA → Follow up to conclusion of EU Preparatory Action in June 2016 with following recommendations:
 - Recognise and define agro-biodiversity in EU agricultural policy and legislation
 - Establish a EU Coordination Platform
 - Develop a long-term EU Agrobiodiversity Strategy
 - Support partnerships and cooperation between actors at all levels in the supply chain
 - Develop an appropriate infrastructure for pre-breeding activities
 - Review grant funding mechanisms
 - Reduce administrative burden
 - Review legislation impacting on Genetic Resources for Food and Agriculture



Other Steering Committee decisions - 2

Recommendation to ECPGR member countries to use SMTA for distribution of both Annex I and non-Annex I PGRFA, independently whether material is conserved *ex situ* or held *in situ*



Thank you for your attention!

Lathyrus latifolius, Abruzzo, Italy



Allium longispathum, Tuscany, Italy