

PRIVATE PUBLIC PARTNERSHIPS

Increasing ECPGR knowledge and opportunities on
Private Public Partnerships for the use of
Plant Genetic Resources for Food and Agriculture



ECPGR



Federal Ministry
of Food
and Agriculture

Overview of PPP project

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PPP project phase II, second workshop, 27-28 March 2018, Maccaresse, Italy

PPP project background

Outcome 5 of ECPGR → Relations with users of germplasm are strengthened

- **Output 5.4:** Improved collaboration with users in public and private sector
- Achieved through ‘establishment of partnerships between genebanks and researchers’

→ **Voluntary contribution from Germany to start PPP project**

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PPP project steps

First Phase (Feb - Jul 2017)

- Establishment of PPP knowledge base (ECPGR web site)
- Workshop in Bonn (June 2017) - 48 participants from 17 countries

Second Phase (Aug 2017 - May 2018)

- Task Force + Advisory Group + legal advisor
- Workshop I (Maccarese, October 2017)
- Workshop II (Maccarese, March 2018)

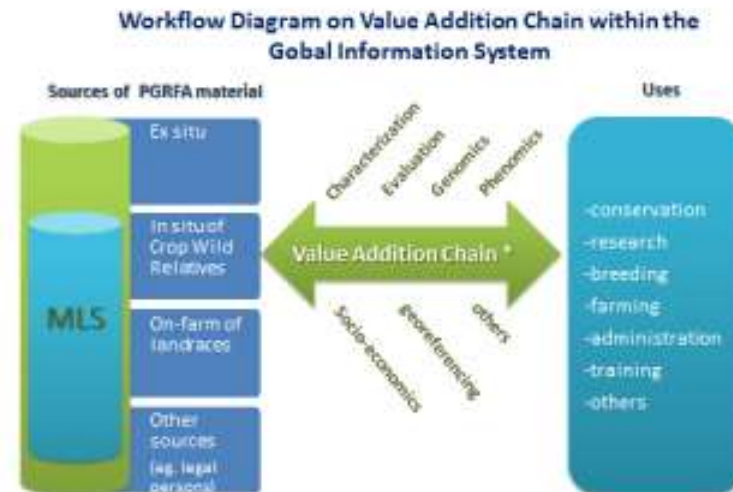
Considerations from Bonn workshop

- European PGRFA Evaluation Network of strategic importance for Europe: opportunity to position PGRFA at a more strategic level within Europe
- Critical role in facilitating adaptation of European agriculture to climate change
- Contribute towards achievement of related SDGs
- Important to increase use of genetic diversity in plant breeding and diversity of stakeholders in plant breeding using PGRFA

Bonn workshop: BLE proposal

General approval for draft proposal for a European Evaluation Network presented by BLE:

- As a public-private partnership with focus on AEGIS/EURISCO, supportive of International Treaty (Multilateral System and Global Information System), facilitating the Value Addition Chain



* The value and impact may be higher if resources are concentrated on particular PGRFA material

Goals of a European Evaluation Network

- **Establishment of a Network** for the evaluation of PGRFA
- Coordinated **secondary evaluation** for biotic and abiotic stresses **with same methods and standards**
- **Improved inventories** with solutions for integration of phenotyping or genotyping information
- Development of a dynamic information system for a **coordinated data acquisition and assessment**

Future vision

A collaborative programme should link separate national programmes to generate added value.



Figure 2. Geographic visualization of evaluation programmes in Europe.

PPP project Phase II

Aim: prepare framework for a European PGRFA Evaluation Network

- Network structure
- Draft documents
- Type of standards and methods to be harmonized
- ToRs for crop selection
- Recommendations for ECPGR
- Steps towards the implementation of the network

Revised scope and goal of Evaluation Network

Scope

The scope of the European PGRFA Evaluation Network regards the generation and linkage of phenotypic and genotypic data to develop genetic markers and information for the enhanced use of PGRFA in breeding (at pre-competitive level) and research.

Overall goal

To increase and improve the use of genetic diversity present in PGRFA in Europe for crop improvement.

Revised objectives

- Promote and support the establishment of crop or crop group specific European Private Public Partnerships and collaborative projects to carry out targeted evaluation of PGRFA.
- Promote and improve the digitization, harmonization, availability and exchange of existing and newly generated evaluation data of PGRFA using to the extent possible the existing EURISCO infrastructure.
- Improve the evaluation of PGRFA through coordinated and collaborative efforts, using harmonized methods and standard protocols and the development of best practices, guidelines and tools.
- Promote integration of the European Evaluation Network with other relevant EU infrastructures and collaborations related to the scope of the network.

Revised benefits

- **Increased access to genetic material** from all over Europe and to its related information.
- Structured network enabling **to test across a wide range of agro-environmental areas, using the same standards and methods**, and thus generating scientifically more meaningful and useful data for plant breeding.
- Dynamic **information system** (EURISCO) **hosting all the data** with privileged access (**data embargo**) for partners.
- Further strengthening and use of a well-developed and coordinated infrastructure for **long-term maintenance of relevant material** (AEGIS).
- Possibility **to pool resources and better exploit the diversity** of growing conditions across the region.
- **Transfer of knowledge and ideas** among genebank, crop and breeding communities.

PPP project Phase II

- Network structure – **Drafted and included in “Proposal”**
- Draft documents – **MOU → Proposal + Letter of Commitment + Cooperation agreement**
- Type of standards and methods to be harmonized – **General guidelines drafted**
- ToRs for crop selection – **main criterion: interest of crop communities (check with wheat, barley, maize, field vegetables, grapevine)**
- Recommendations for ECPGR – **to be formulated**
- Steps towards the implementation of the network – **to be defined**

Pending issues from first Workshop

- Formalization of Evaluation Network (involvement of ESA)
 - what is the useful level of formalization to promote action / attractive for the parties
- Suitable documentation system to attract and deliver data
- Which crops to engage with as a start and how
- Structure of the network and its operation as part of ECPGR:
 - Build a structure around a project (first the project)
 - Promote projects through the structure (first the structure)

Scope

The scope of the European PGRFA Evaluation Network regards the phenotypic evaluation of PGRFA, as well as genotyping to develop genetic markers and pre-breeding (at pre-competitive level).