





AEGISGeneral introduction

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Content of presentation

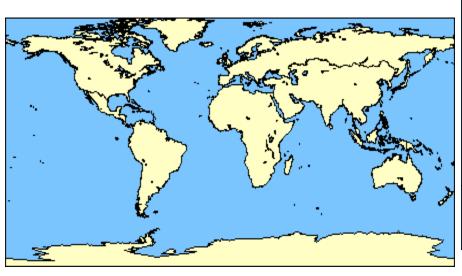


- 1. Some historical facts
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- 5. Foreseen responsibilities of WGs
- 6. The European Collection
- 7. AQUAS development of a quality management system
- 8. EUROGENEBANK Project
- 9. Suggested way forward

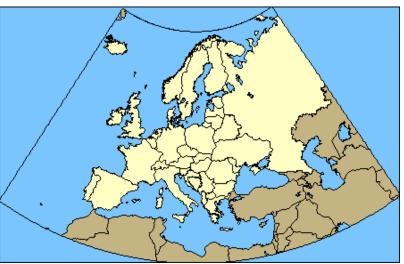
Background ECPGR

ægis

Worldwide



- 1,750 genebanks/collections
- Approx. 7 million accessions
- Estimated 2 million unique
- Example: approx. 25,000 Allium accessions (SoW Report II)



- App. 625 genebanks/germplasm coll.
- > 2 million accessions

Europe

- 30-40% unique (estimate)
- Example: approx. 13,000 Allium accessions; held in 32 genebanks in 20 countries

Some historical facts



ECPGR:

- > Reported difficulties in PGR maintenance:
 - √ lack of long-term conservation facilities
 - √ insufficient safety-duplication
 - ✓ regeneration backlogs
 - √ inhomogeneous quality of material
- Discussed options for sharing conservation responsibilities in Europe already in 1998
- SC decided in 2003 to initiate an integrated European genebank system feasibility study (4 model crops, incl. vegetatively propagated Allium and Brassicas) in 2004
- ➤ Since June 2009 AEGIS exists legally

Model Crops

- Seed propagated material annual
- Annex I crops of ITPGRFA



Avena

selfing



Brassica



outcrossing

- Vegetatively propagated material biennial and perennial
 - Non Annex I of ITPGRFA
 - Allium (Veg. propag.)



Prunus



Establishment and milestones of AEGIS



- 1. ECPGR SC decision to prepare for implementation of AEGIS in 2006
- ECPGR Secretariat to coordinate; AEGIS Coordinator appointed
- 3. Feasibility studies for 4 model crops conducted
- 4. Strategic framework policy guide agreed (2008)
- Memorandum of Understanding (MOU) developed and sent for signature to all ECPGR member countries in 1st half of 2009 (next presentation)
- 6. Currently 14 countries have signed MOU

Establishment and milestones of AEGIS



- Agreement on development of AQUAS; discussion paper
- 8. Agreement on requirements and criteria to select MAAs (details in later presentation)
- Competitive Small Grant Scheme launched (to facilitate establishment/operation process); 17 proposals received.
- 10.Topic on AEGIS included in FP7 Research Infrastructure Call; proposal being developed, coordinated by ECPGR Secretariat; unique opportunity to move faster forward with AEGIS!

Key components of AEGIS



a European Genebank Integrated System (AEGIS)

- A Strategic Framework for the Implementation of a European Genebank Integrated System - A Policy Guide
- 2. Formal agreement with countries (MOU) and institutions within countries (Associate Membership) i.e. 14
- 3. European Collection (contains identified and agreed MAAs for each crop; in public domain; readily available) (to be developed)
- 4. Technical and operational quality standards (to be developed)

 Third ECPGR Vegetables Network Meeting
 9 13 November 2009; Catania, Italy

Key components of AEGIS



- Quality management system (reporting; monitoring; capacity building) (to be developed)
- 6. EURISCO as information portal for European Collection (to be further developed)



35*. AEGIS Status

(AEGISSTAT)

The coded status of an accession with regard to the European Genebank Integrated System (AEGIS).

Provides the information, whether the accession is conserved for AEGIS.

0 - not part of AEGIS

1 - part of AEGIS

If the AEGIS status is unknown, the field stays empty

7. Dedicated AEGIS website (existing version being revised)

Third ECPGR Vegetables Network Meeting
9 - 13 November 2009; Catania, Italy

Perceived Benefits of AEGIS



- Improved collaboration between countries
- Cost efficient conservation activities
- Reduced duplication of germplasm material
- Improved quality standards
- Increased effectiveness in regeneration
- Facilitated access to and availability of germplasm
- Improved security of germplasm through safetyduplication
- Improved sharing of knowledge and information

AEGIS and the European Collection



- European Collection will consist of dispersed accessions (MAAs), i.e. a virtual European genebank
- Through signing the MOU countries accept responsibilities for long-term conservation and availability of EA, and to
- conserve/manage according to quality standards
- Conservation/management strategies for each crop are prepared by respective Crop WG/NCG and approved by SC
- Details on process of identifying MAAs etc. in later presentation

AQUAS – AEGIS quality system



- Development of a quality management system, including technical and common operational standards, reporting, monitoring and certification
- Discussion paper endorsed by SC; on the AEGIS website (has been distributed)
- Agreed timeframe and process as well as responsibilities for its development
- Further "fine tuning" in EUROGENEBANK Project
- More details will be given tomorrow

EUROGENEBANK Project



- Topic on PGR Centres included in FP7 Work Programme 2010 Call on "Research Infrastructures" – Support to existing research infrastructures – Integrating Activities
- Up to 10 million Euro and 4 years project
- Bioversity (i.e. ECPGR Secretariat) was asked to coordinate project proposal preparation
- Submission deadline 3 December 2009
- Decided to place EUROGENEBANK Project squarely within AEGIS framework
- 2. Build on strength and existing capacity

EUROGENEBANK Project

- Include key elements (i.e. MOU, AQUAS, European Collection, etc) that agreed upon by ECPGR Steering Committee
- 4. Many of you will get/are involved, somehow!
- 5. Create Project as "independent" entity, but manage interface with wider ECPGR community well
- 6. Get outputs from Project to all genebanks
- 7. Note: This Project is intended to boost implementation process of AEGIS, it does not remove or replace responsibilities already assigned!
- 8. We are not sure that it will be funded! → Let us continue implementation process and if additional money gets available the process will be faster!

EUROGENEBANK: Agreed WPs



WP1: Project Management (Bioversity)

WP2: Communication and policy dissemination (Bioversity)

WP3: European ex situ conservation and use knowledge base (CRI)

WP4: Creating the European Collection (Graminor)

WP5: Designing C&E procedures and infrastructure (BLE)

WP6: Capacity building (Bioversity)

WP7: Upgrading PGR information management and interfaces (CGN)

EUROGENEBANK: Agreed WPs



- WP8: Access to European PGR Catalogue (Bioversity)
- WP9: Developing operational and technical standards (MTT)
- WP10: Designing the quality management system (MTT)
- WP11: Creating knowledge to support rationalization (INRA)

Suggested way forward



- To advocate importance of AEGIS at home
- To share the thinking of establishing an integrated European genebank system with colleagues/bosses
- Make sure that all relevant vegetable genebanks/collections in your country are aware / become Associate Members of AEGIS
- Discuss how to assist in implementation of AEGIS:
 - at national level (e.g. provision of data to EURISCO; availability to include accessions in the system) and
 - at WG level (refinement of criteria, quality guidelines, monitoring system, conservation workplans)
- Seek contact with relevant WP Leaders or Task managers of EUROGENEBANK Project

Thank you for your attention!