



General status of **AEGIS**

IS

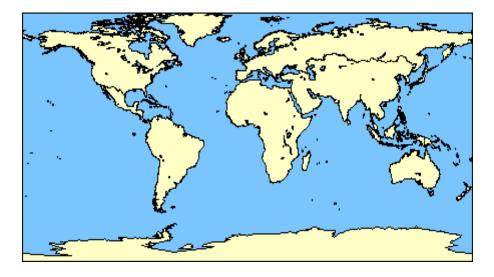
Jan Engels and Lorenzo Maggioni AEGIS/ECPGR Coordinator

Content of presentation



- 1. Historical background
- 2. Establishment, milestones and key components of AEGIS
- 3. Perceived benefits of AEGIS
- 4. The European Collection
- 5. AQUAS development of a quality management system

Background ECPGR Worldwide Europe



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

Historical background



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

Selection of Model Crops

- Seed propagated material annual
- Annex I crops of ITPGRFA
 - Avena

selfing







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



Prunus



AEGIS Objective



To create A European Genebank Integrated System for plant genetic resources for food and agriculture, aimed at **conserving** the genetically unique and important accessions for Europe and **making them available** for breeding and research.

Establishment and milestones of AEGIS



- 1. ECPGR SC decision to initiate establishment of AEGIS in 2006
- 2. ECPGR Secretariat to coordinate; AEGIS Coordinator appointed
- 3. Feasibility studies for 4 model crops conducted (2004-2008)
- 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
- 6. Currently 18 countries have signed MOU Tenth Meeting of the ECPGR Working Group on Forages 28-29 April 2010; Poel, Germany



A European Genebank Integrated System

AEGIS Homepage > Membership > Member countries

About AEGIS

Membership

Member countries

Associate Members

Structure

Implementation

Documents

AEGIS Member Countries

The following coutries have signed the MoU:

- 1. Albania (6 May 2009)
- 2. Azerbaijan (16 July 2009) Associate Members
- 3. Bulgaria (2 December 2009) Associate Members
- 4. Cyprus (15 September 2009) Associate Member
- 5. Czech Republic (23 July 2009)
- 6. Denmark (22 February 2010)
- 7. Estonia (22 May 2009)
- 8. Finland (2 December 2009)
- 9. Georgia (18 May 2009) Associate Member
- 10. Germany (9 September 2009) Associate Members
- 11. Ireland (22 July 2009)
- 12. The Netherlands (28 May 2009) Associate Members
- 13. Norway (17 August 2009)
- 14. Portugal (20 November 2009)
- 15. Slovakia (16 June 2009)
- 16. Slovenia (21 September 2009)
- 17. Switzerland (27 May 2009) Associate Member
- 18. Ukraine (30 April 2009)

Tenth Meeting of the ECPGR Working Group on Forages 28-29 April 2010; Poel, Germany

RELATED INFORM







Highlights

EUROGENEBANK PROP

Establishment and milestones of AEGIS



- 7. Agreement on development of AQUAS; discussion paper (has been sent)
- 8. Agreement on requirements and criteria to select MAAs (details in later presentation)
- Competitive Small Grant Scheme launched (to facilitate establishment/operation process); 18 proposals received; 3 awarded.

New Call foreseen for Autumn 2010!

9. Topic on AEGIS included in FP7 Research Infrastructure Call; proposal developed and submitted; met the threshold but were not selected for funding; consideration to re-submit for 2012 Call Tenth Meeting of the ECPGR Working Group on Forages 28-29 April 2010; Poel, Germany

Key components of AEGIS



- A Strategic Framework for the Implementation of a European Genebank Integrated System - A Policy Guide
- Formal agreement with countries (MOU) and institutions within countries (Associate Membership) – i.e. 18



- European Collection (contains identified and agreed MAAs for each crop; in public domain; readily available) (to be developed)
- 4. Generic and crop specific standards (to be developed)

Key components of AEGIS



- 5. Quality management system (reporting; monitoring; capacity building) (under development)
- 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 (new version developed)

Perceived Benefits of AEGIS



- Improved security of germplasm through long-term commitment and systematic safety-duplication
- Facilitated access to and availability of germplasm
- Improved quality standards of conserved material
- Cost efficient conservation activities
- Reduced duplication of germplasm material
- 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

AQUAS – AEGIS quality system



- Development of a quality management system, including generic and crop operational standards, reporting and monitoring
- Discussion paper endorsed by SC; on the AEGIS website (has been distributed)
- Brassica, Forages and Grain legumes WGs are invited to test the template for an operational genebank manual
- Draft of generic genebank standards by Secretariat

Thank you for your attention!