Global Information on Germplasm Accessions - GIGA

An information system that will offer facilitated access to PGR - in support of its conservation and sustainable use

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Improving lives through biodiversity research

GIGA Partners

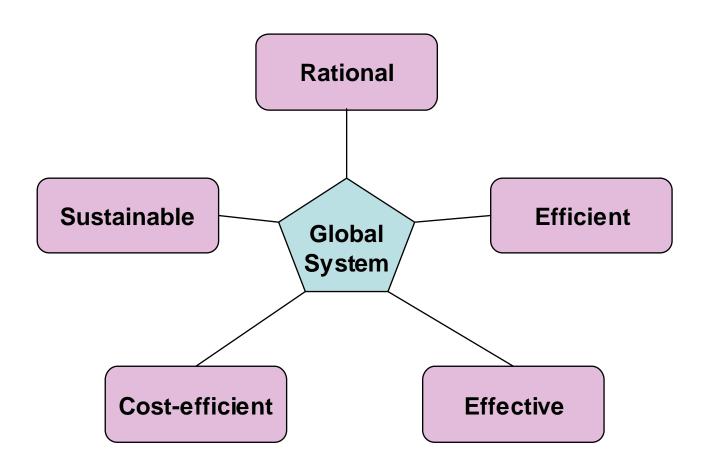
- □International Treaty on PGRFA
- ☐Global Crop Diversity Trust
- ■Bioversity International
- □SGRP/SINGER data network
 - □GPG2 Geo-Ref, ordering, crop regs. etc
 - □GCP Ontology etc
- □ECPGR/EURISCO data network
- □USDA-ARS / GRIN data network

GIGA Aims

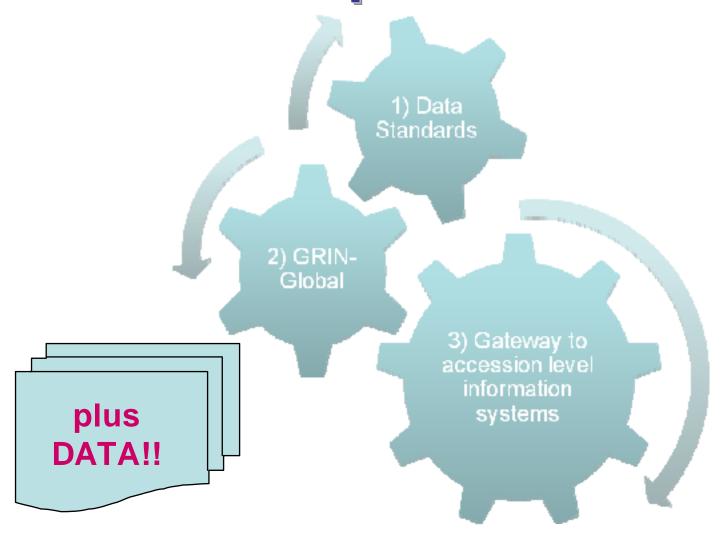
Contribute to the global system:

- Support the ITPGRFA, particularly the MLS, by providing:
 - Access to 2M + accessions;
 - Tools to use this information;
 - Facilities to request accessions;
 - SMTA compliance.

GCDT Vision of a Global System



GIGA - 3 components



Data Standards - 1

Initial set of strategic descriptors to facilitate the use of accessions:

- Passport data essential information
- Characterization & evaluation (C & E) data to assist choice of accessions.
- Employing 'best practice'.

GRIN-Global a) features



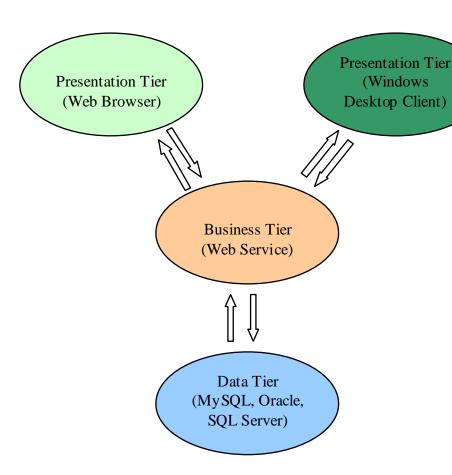
USDA-ARS, GCDT, Bioversity plus...

- Genebank management and client access to many more collections;
- Targeted to all genebanks, particularly those in developing countries;
- Freely available together with support;
- Potential to provide access to many more accessions in the MLS.

Important way to get quality information from new sources

GRIN-Global b) design





All source code freely available, supports following standards:

- Microsoft .NET Framework 3.5, supported on Windows XP, Vista, and Server 2003 or Server 2008
- ➤ SVN version control system, supported on Windows NT 2000 XP and 2003, Linux, OS X, BSD, AIX, Solaris, HP-UX.
- Visual Studio Express 2008, supported on Windows XP, Vista, and Server 2003 or Server 2008.
- Data Tier: MySQL, Oracle Express & Microsoft SQL Server Express.

GRIN-Global c) the spin!



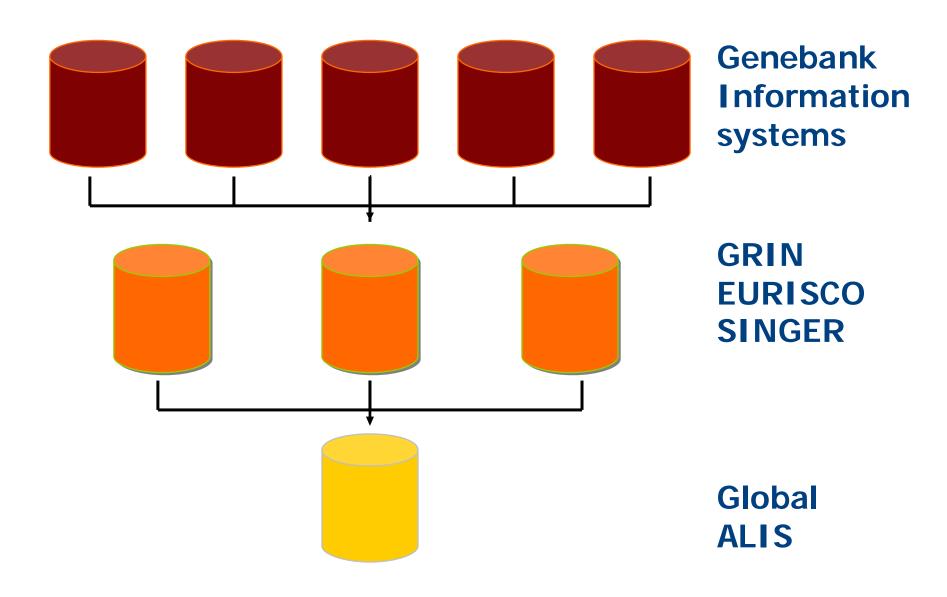
A new, global way to gather information about accessions in genebanks <u>AND</u> make it available for access and benefit sharing in the multilateral system

ALIS — accession level information system

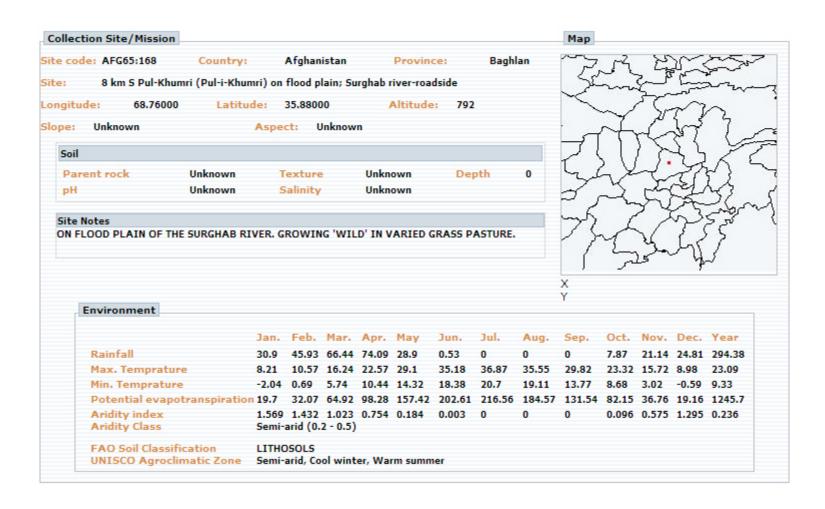
Provides:

- a single gateway to access the world's significant collections;
- appropriate information to facilitate utilization and conservation;
- functionality to request accessions from providers in compliance with the MLS and SMTA

ALIS - Global facilitated access



Accession level information, incl. mapping and environmental links



GIGA addresses ITPGRFA

- Article 10: Multilateral system of access and benefit sharing;
- Article 12: Facilitated access to PGRFA within the MLS;
- Article 15: ex situ collections of CGIAR;
- Article 16: International PGR networks.



We have all the pieces available ... for a global system it makes no sense to ignore the opportunity in front of us together we can put them all together

Support acknowledged

- SGRP/SINGER
- ECGPR/EURISCO
- ITPGRFA
- GCDT
- USDA-ARS/GRIN

- GPG2
- GCP
- CGIAR Centers
- NARS

Biodiversity Informatics Project Team



