• A comprehensive 5-year plan for the management and the secure and sustainable funding of the germplasm collections held by 11 Centers

• A partnership between the CGIAR, the Centers and the Global Crop Diversity Trust
Highlights of CRP

• Fulfilling global obligations
• Meeting international standards
• Ensuring accountability and increasing cost-efficiency
• Improving long-term sustainability
• Nurturing collaboration and communication
Managing the collections

• Conserving the unique biodiversity at international scientific standards and making it available in accordance with legal requirements

• Promoting the development of a rational global system for *ex-situ* conservation and availability

• Cost effective, efficient and sustainable management to maximise efficiencies and effectiveness

• Providing substantial global benefits to Centers, NARS, NGOs and the private sectors
ICRISAT Genebanks

- ICRISAT genebank at Patancheru
- Three regional genebanks in Africa - Niamey, Nairobi, Bulawayo
- Details of all operations at ICRISAT genebank
Genebank costing study

- Identified costs only for standard, predictable, core recurring activities at each Center

- The study identified
  a. non-recurring items
  b. items that were multi-center by nature and
  c. items which were inherently ‘expandable’

The 2012 proposal to the Fund Council - $21 million, GCDT contributed $ 2.1 million
Main activities of the Genebank CRP

Objectives (4) and outputs (11)

Objective 1

Crop and tree diversity in international collections under Article 15 (ITPGRFA) is secured in perpetuity

a. Long term and medium term storage (LTS & MTS)
b. Safety duplication (including Svalbard)
Objective 2

Conserved crop and tree germplasm is clean, available and disseminated

a. Regeneration and characterization

b. Disease testing and cleaning

c. Introducing new accessions (including regeneration project of GCDT, 246 collection in 77 countries)

d. Multiplication and dissemination
Objective 3

Use of conserved crop and tree diversity is informed and facilitated

a. Managing information for accessions management and use

b. Genesys (replacing SINGER)
Objective 4

Crop and tree diversity is conserved within a rationalized, cost-effective and globalized system

a. Developing partnerships and exchange of services

b. Rationalization and optimizing collections

c. Establishing and updating Quality Management Systems (QMS), operation manuals and staff retention plan
Activities not in Genebank CRP

Essential and vital activities not included

- Gap analysis and collecting
- Molecular characterization
- Development of core and mini core collections or FIGS subsets
- Evaluation of germplasm for important traits
- Pre-breeding
- Training and technical backstopping
Activities not in Genebank CRP

Essential and vital activities not included

• Research on conservation methodology, reproductive biology and taxonomy etc.

• Development and operation of Genesys, the global information portal of genebank accessions for plant breeders

• Networking and providing international leadership and facilitation

• Public awareness, attendance at conferences, visitors services etc.
Partnerships

Partners to achieve intended outputs

- Global Crop Diversity Trust (GCDT)
- 11 CGIAR Centers
- Svalbard Global Seed Vault (SGSV)
- Secretariat of the Pacific Community (SPC)
- United States Department of Agriculture (USDA)
- Non-CGIAR genebanks hosting safety duplicates
- Research organizations providing services for plant health, cryopreservation research, etc.
Partnerships

Partners to achieve intended impacts

• Breeding programs in CGIAR Centers and NARS
• Research programs in CGIAR Centers and NARS
• Other NARS programs and organizations providing materials ultimately to farmers
• NGOs
Monitoring and evaluation

- **Five-year work plan – Master plan and budget**
  - Baseline data - crop wise and location wise
  - Multi Year Budget (MYB) – crop and activity wise
- **Annual work plan and report**
  - Main activities, progress towards targets and standards, accomplishments, and obstacles
  - Performance Management Indicators (PMI) provide framework for all work plans and reports
- **Annual meeting of the genebanks**
  - Communication and cooperation on technical and policy matters
  - Consolidating standards and strategies
- **Genebank review**
  - Each Centre undergo one thorough external review in five years (ICRISAT in 2014)
The timeline (period 2012-2016) of main management elements schedule includes SPC, a long-term grantee of the Trust and a key player in the Global System in regards to several crops.

<table>
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<tr>
<th>Mechanism for monitoring &amp; oversight</th>
<th>Participants</th>
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<tr>
<td>Annual PMI &amp; financial report for previous year’s work plan &amp; budget</td>
<td>All grantees</td>
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<td>Report approval and disbursement</td>
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<td>Annual meeting</td>
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<td>Development of cost-saving proposals</td>
<td>All grantees &amp; partners</td>
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<td>Management and Governance Arrangement</td>
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Major risks to the conservation and availability of plant genetic resources are:

- Inadequacy and instability of funding - most serious and pervasive threats to genebank collections
- Natural disasters, civil unrest, political factors that threaten collections and their management
- Genebank CRP strives target of 100% safety duplication of CGIAR long-term seed collections in the Svalbard Global Seed Vault
Management Team

- Dr Paula Bramel – Assistant Executive Director of the Trust
- Chalotte Lusty – Scientist
- Jane Toll – Project Manager
- Luigi Guarino – Senior Scientist
- Dr Geff Hawtin – Senior Advisor to the Trust
- Anne Clyne – Director of Finance at the Trust
- Consortium representative
Thank You