

How can we serve you ?

How can genebanks improve their service to users ?

Discussion Group 4

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Who are the users ?

- Breeders (Need germplasm + detailed data + pre-bred material)
 - Researchers
 - Geneticists
 - Experimental biologists (Need biologically defined material –identified + provenance)
 - Farmers, Farmers' organizations
 - Genebanks need feedback from recipients
 - Not all genebanks accommodate requests from farmers or other private users
 - Policy makers
 - Information provided by genebanks, particularly in relation to conference / treaty obligations and strategic planning)
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Which services ? (1)

- Germplasm conservation and distribution
 - Targeted collecting to meet user needs and fill 'gaps'
 - MTA to meet conference / treaty obligations
- Information generation, management and dissemination
 - Material
 - Passport data, Characterization- Evaluation
 - Pest and disease resistance, Molecular data
 - Original population characteristics
 - Curatorial information
 - How have accessions been managed ?
 - Example : a heterozygous landrace population can be conserved as it is or split into several homozygous lines
 - Whether original or regenerated material
 - Ideally users need standardization of the way information is accessible/provided by genebanks, one SMTA for Annex 1 and non-Annex 1 material.

Which services ? (2)

- Links to *in situ*/on-farm conservation to provide safety backup for *in situ* conserved material
 - Training
 - Conservation: NGOs, farmers' organization, associations, other genebanks (e.g. developing countries)
 - Characterisation and evaluation
 - Pre-breeding: possibly linked to private companies
 - Repatriation of germplasm and associated information to original provenance sources
 - Research
 - Generate knowledge and enhance methodologies
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Which services (3)

- Communication
 - Develop public awareness on the role and services of PGR and genebanks as most genebanks are publically funded e.g. TV, radio, community shows, papers, etc.
 - Self-promotion service
 - Display germplasm diversity plots to make them visible to breeders and other user groups
 - Demonstrate to funding agencies that PGR from genebanks are used and result in an economic impact
 - Communication targets and means
 - General public, schools
 - Politicians
 - Media
 - Teachers : Attractive pedagogical tools/materials
 - Use contemporary media (web sites, blogs, Facebook, tweeting etc.)
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Policies and regulations : CBD, ITPGRFA

- ❑ Some positive and negative feedback thus far
 - ❑ But generally perceived that it has resulted in increased:
 - ❑ Bureaucracy, need for lawyers
 - ❑ Difficulties and delays in getting germplasm
 - ❑ Difficult to know what the rules are in each country, who the focal points are, because regulations are applied differently in different countries
 - ❑ 'Users are not lawyers'
 - ❑ People do not fully understand what they are signing and fear if they sign they may do wrong
 - Standardization : one SMTA for Annex 1 and non-Annex 1 material
 - ❑ Resulting in a variable impact on PGR access and distribution
 - ❑ However, the system may 'bed down' more easily with time ?
 - ❑ Recognised that there is moral argument for ABS that cannot be ignored: not discussed
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Nature of services : what genebanks should do more

- Genebanks may wish to do more but with limited resources
 - What should they do less of?
 - There is no one answer as many individual genebanks have specific expertise and therefore requirements
 - Assuming could do more then the additional activities were tested using a voting system of 3 votes per group member, see following slide for topics and votes:
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Nature of services : what genebanks should do more

Votes

Additional Topics

- 13** • Collecting more targeted material
 - 11** • Molecular characterization/Evaluation
 - 9** • Professional dissemination (Database, web sites)
 - 4** • Broker between users and other genebanks
 - 2** • Pre-breeding
 - 4** • In situ/on-farm conservation
 - 2** • Search for duplicates
 - 1** • Training
 - 4** • Public communication
 - 1** • Strategic synthesis
 - 1** • Data hyperlinks
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Material on offer from genebanks

- Some genebanks already offer specialist activities depending on in-house expertise (e.g. genomic analysis, *in vitro* propagation, cryo-preservation, homogeneous lines, etc.)
 - Should genebanks specialise more in:
 - Mutant collections?
 - No, but where they exist they should be managed by genebanks linked to breeders
 - Research populations
 - No, but where there is a local research requirement genebanks should curate the material for the local researchers, little point in producing homogeneous lines if there are no users
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Service through collaboration: how could genebanks and user communities better collaborate

- People need to 'know each other' to communicate better
 - Better integrate of the two communities (conservationists and breeders + other users)
 - Involve breeders in each of the ECPGR crop networks
 - Internet is not everything : need to have real face to face meetings
 - Genebanks need to build up trust and respectful with the user communities
 - Collaboration is key to sustainability
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