



Food and Agriculture
Organization of the
United Nations



The International Treaty
ON PLANT GENETIC RESOURCES
FOR FOOD AND AGRICULTURE

Partnerships, Collaborations and Capacity Development

1st Scientific Advisory Committee on GLIS
24-25 November 2016, Rome

Sonia Dias
Secretariat of the International Treaty, FAO

Advice sought

- Themes of relevance to the Programme of Work on the Global Information System for the development of partnerships and collaborations, including for training and capacity development for developing countries contracting Parties;
- Type of trainings and tools that would be most useful to address the key areas of the strategic framework of PoW-GLIS (e.g. e-learning modules, toolkits, handbooks) for target audiences;
- Possible options and opportunities for collaboration in developing new training programs and partnerships, and identification of funding resources for these activities;
- Further inputs to the proposed criteria for the identification of the regional Contracting Parties/Institutes for establishing the regional hubs;
- Any other relevant element for the partnerships, collaborations and capacity development that could facilitate the effective implementation of the PGRFA training activities under the Global Information System.

Resolution 3/2015

Request[ed] the Secretary, to conceptualize a capacity development and technology transfer opportunities for the conservation, management and use of PGRFA and associated information and knowledge. Paying special attention to the needs of developing countries on related themes to the Global Information System according to Article 17.1, subject to availability of resources, based on the recommendations of the Scientific Advisory Committee and present a draft to the next Session of the Governing Body.

Objective 6 of the PoW-GLIS

- I. To convey and support regional meetings and scientific conferences related to new technologies and themes;*
- II. To provide access to training materials for capacity development;*
- III. To support the training of staff in areas such as taxonomy, information management and bioinformatics in collaboration with relevant partners;*
- IV. To design mechanisms to promote training opportunities across institutions (training of trainers, match-making);*
- V. To provide training for the genebank managers of the future;*
- VI. To facilitate transfer of relevant technologies to developing countries;*
- VII. To raise awareness among stakeholders in the Global Information System on traditional knowledge relevant to PGRFA in accordance with the Treaty's provisions and in harmony with the Convention on Biological Diversity*

Proposed themes, tools and target beneficiaries



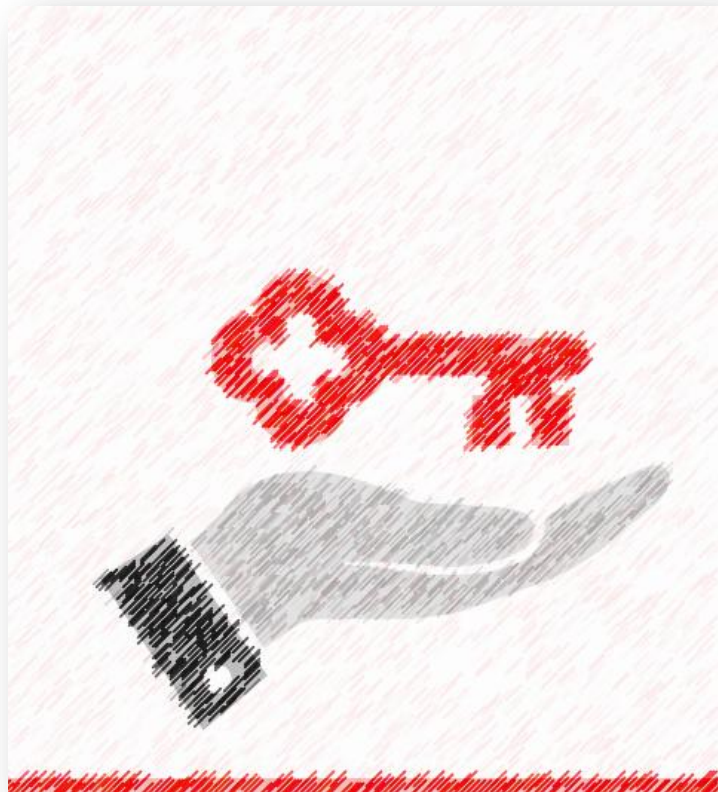
- Registration in the GLIS of material available in the Multilateral System;
- Reporting obligations under Multilateral System of the Treaty;
- Connection of national inventory (NI) with GLIS;
- Development and adoption of data analysis and quality tools;
- Improvement of environmental and geospatial data;
- Review of data sharing and use policies and protocols;
- Development and adoption of data standards for *ex situ*, *in situ* and on-farm material;
- Linking genomics, phenomics and other omics datasets;
- Management of PGRFA data in genebanks and within breeding pools, including legal rights;
- Promotion of taxonomic tools, including PGRFA ontologies and controlled vocabularies; and
- Documentation and sharing of traditional knowledge.

Proposed themes, **tools** and target beneficiaries



Genebank and breeding management tools,
Breeding Management System (BMS) of the
Integrated Breeding Platform (IBP);
Rice4Breeding (Rice for Breeding);
Data analysis – CAPFITOGEN tools, FIGS, etc.;
Taxonomy tools – GRIN-Tax.

Potential themes, tools and **target beneficiaries**



- bioinformaticians, breeders,
- civil society practitioners,
- data curators,
- extension workers,
- farmers,
- indigenous and local communities,
- lawyers,
- policy makers,
- researchers,
- Treaty's National Focal Points
- and other stakeholders, including entrepreneurs and small-scale enterprises.

IDENTIFICATION OF CAPACITY DEVELOPMENT OPPORTUNITIES

Collaboration with International Organizations, Initiatives and projects

CBD - ABSCH

Nagoya Protocol, "Study paper transparency of rights and obligations"

CGIAR

OA and OD
Developing "CG Core" metadata schema

CGIAR- IRRI

Partnership to test of new applications and tools for GLIS and MLS

GRIN-Global Adoption and Helpdesk

Universities
Promotion of existing eLearning resources on breeding and PGRFA documentation

BEAN -Adapt

Genetic and phenotype , selection of *Phaseolous* and validation of candidates

GSP-SOL

""Linking genetic resources, genomes, and phenotypes of *Solanaceous* crops

Genesys

Links with GLIS, using DOIs

TRUST – GOAL

Genebank Operations and Advance Learning workshops

DivSeek

Report on the implications of the technologies underlying the Initiative for the objectives of the Treaty; new partnership

GBIF

Capacity building and knowledge sharing, DOIs

ECPGR

MoU with the Treaty;
MLS notification and DOIs

CIRAD

Develop a legal tool to generate MTAs including SMTAs- interface with Easy-SMTA and GLIS

IBP

Plant breeders management system ad services.

WIEWS

Additional functions and reporting

Collaboration with contracting partners

Treaty –BSF

3rd Call for proposals funding projects on capacity building: management, breeding, tools, systems, genomics...

ICABIOGRAD

Coordinating multi-country project to test the application of DOIs to rice and link them to MLS and GLIS

Other National and regional activities to explore In the future?

Committee to advice

Synergies with Treaty programs and Systems

CAPFITOGEN

Near east, Africa and Asia

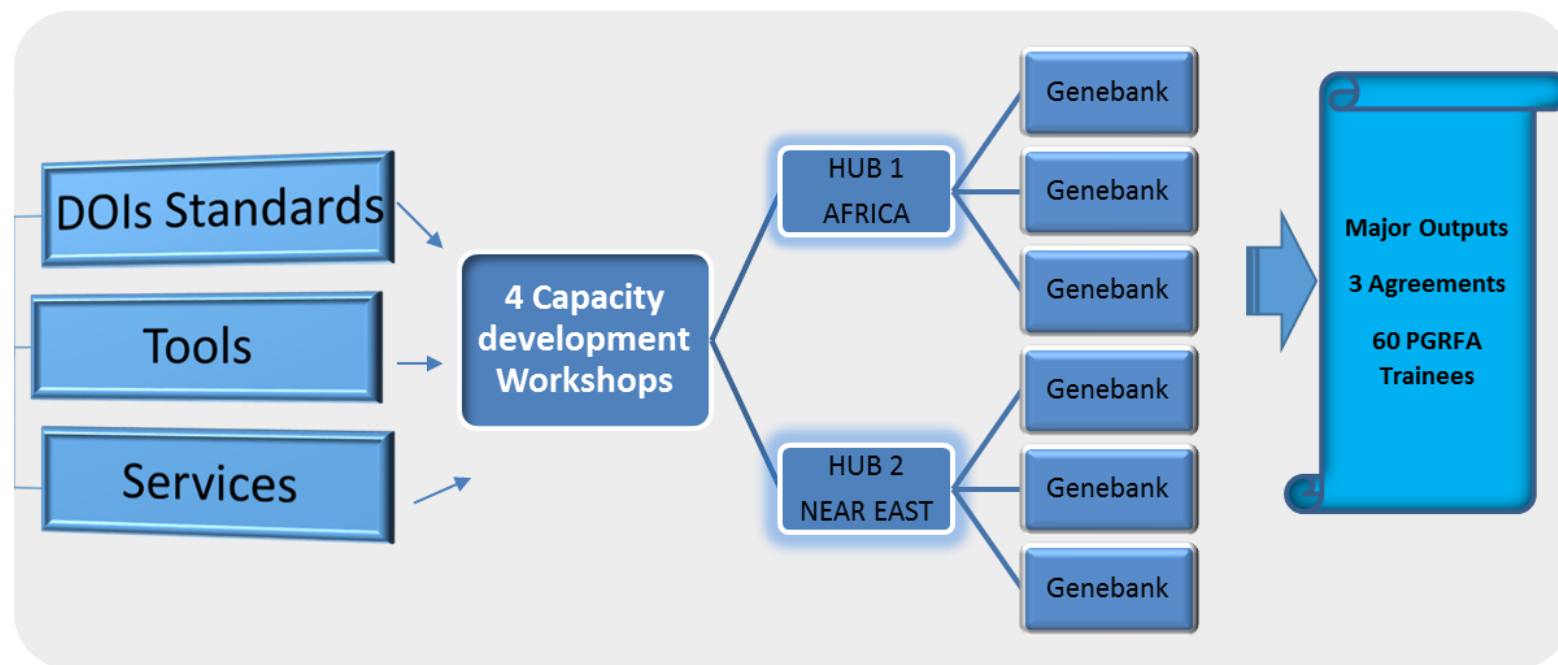
**PoW
Sustainable Use**
GLIS and toolbox

**MLS,
Easy-SMTA**
Notification, reporting

Funding GLIS activities

“The improvement of the value used of plant genetic resources for food and agriculture through facilitated access to scientific information and capacity development”

Project funded by the Government of Germany



Capacity Development Approaches

- **The ITPGRFA CD platform**

Shall promote capacity development activities, support dialogues around the same thematic areas in which ITPGRFA trainings are being conducted, stimulates partnerships, in key areas of the Treaty Programs of Work. Bringing together the existing Coordination mechanism on Capacity Building.

- **Train the trainers and Matchmaking support**

For individuals and organizations wishing to contribute to and participate in capacity building, for increasing partnership training opportunities through a network of train the trainers and through the regional hubs.

- **The ITPGRFA CD dialogues – science, policy and practitioners**

Multi-stakeholder dialogues addressing specific related issues by facilitating fruitful discussions among the communities of science, policy and practitioners – information management, sharing and access, and related policy questions at the national and regional levels.

SADC

Southern African Development Community



<http://www.mmegi.lbw/index.php?id=53217&dir=2015/august/11>

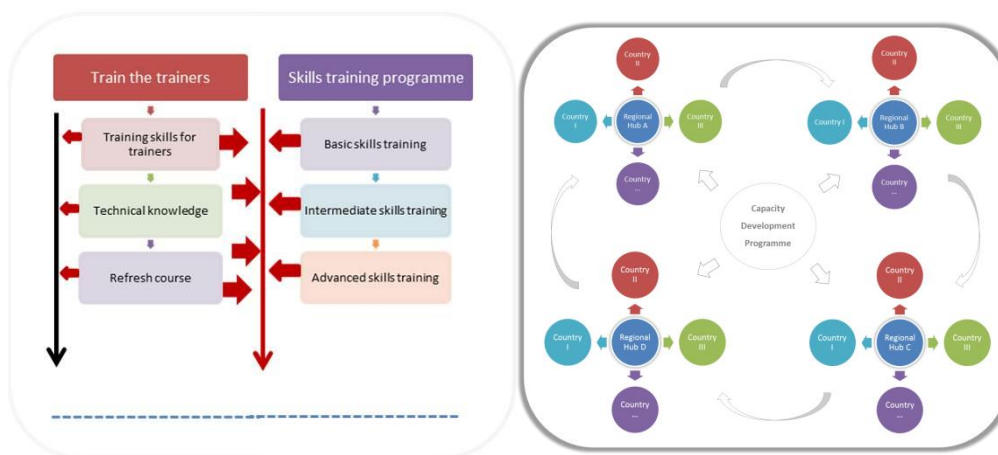
NENA

Near East and North Africa Countries



<http://www.bq-magazine.com/wp-content/uploads/2015/02/mena-map.png>

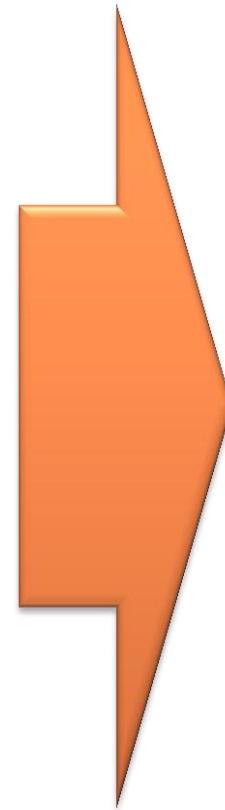
The GLIS training methods and setting regional hubs



Draft list of criteria for selection of partnerships

CRITERIA

- I) Technical expertise on information management related to PGRFA
- II) Record of participation and role on crop and regional networks for the documentation and exchange of scientific information
- III) Number and type of PGRFA documentation projects
- VI) Extent of experience in linking in situ and ex situ projects and initiatives



SADC HUB

GB

GB

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NENA HUB

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Other Funding Opportunities

“...subject to availability of resources, based on the recommendations of the Scientific Advisory Committee and present a draft to the next Session of the Governing Body.”

