



Commission on Genetic Resources for Food and Agriculture-10 (2004)

- Recognized the importance of an efficient system for monitoring GPA implementation, in terms of planning, priority-setting and achieving the mobilization of financial resources to support national programmes.

The logo of the Food and Agriculture Organization (FAO) is located in the top left corner. It features a circular emblem with a stylized ear of wheat in the center, surrounded by the letters 'F', 'A', and 'O' at the top and 'FIAT PANIS' at the bottom.

Commission on Genetic Resources for Food and Agriculture-10 (2004)

- Adopted the revised indicators and reporting format for monitoring the implementation of the *Global Plan of Action* that were presented in the document, *Indicators and reporting format for monitoring the implementation of the Global Plan of Action*



New GPA Monitoring Approach

Indicators and Reporting Format

- Computer Application
- Implementation Process at country level



New GPA Monitoring Approach Indicators and Reporting Format

■ Document CGRFA-10/04/Inf.5

Presently available in:

Arabic, Armenian, Azeri, Chinese, Czech, English, French, Georgian, German, Italian, Lao, Malay, Norwegian, Russian, Spanish, Thai, Turkish and Vietnamese

English version provided to all trainees on CDrom



New GPA Monitoring Approach

Indicators and Reporting Format

83 core + 68 complementary indicators

98 questions in the Reporting Format are linked to the core indicators

- 48 directed to National Focal Points

- 50 directed to Stakeholders

+ 20 open-ended questions, not linked to any indicator, inviting general comments for each priority activity area of the *Global Plan of Action*.



Area 1 - Surveying and Inventorying Plant Genetic Resources for Food and Agriculture

ID	INDICATORS	QUESTIONS
47	Surveys/inventories of plant genetic resources for food and agriculture and associated indigenous knowledge carried out (core) [S]	1, 2, 16
48	Threatened inter- and intra-specific diversity relevant to food and agriculture identified (core) [S]	1
49	Assessment of training needs and availability of appropriate courses [S]	1, 4, 282 ^[19]
50	State of technology to be applied to surveying and inventorying [S]	1
102	Priority areas for in situ conservation identified (core) [R]	1
103	Training and capacity building in taxonomy, population biology, ethnobotany, and eco-regional or agro-ecological surveying carried out [R]	282 ^[19]
104	Surveying/inventorying activities integrated within the national strategy and policy on PGRFA conservation and use [R]	11
105	Adoption and institutionalization of appropriate methods including documentation of indigenous knowledge for surveying and inventorying intra- and inter-specific diversity in agro-ecological systems [R]	1, 282 ^[19]
106	Geographical information Systems (GIS) to support genetic resources surveys used [R]	1
216	Priority areas for surveying and inventorying identified (core) [R]	3
ID	QUESTIONS	INDICATORS
1	Enter in the table below any PGRFA survey and inventory conducted by your organization, including references, area(s) covered and its(their) con-	47, 48, 49, 50, 102,



1 Surveying and Inventorying Plant Genetic Resources for Food and Agriculture

Surveying and inventorying of PGRFA are essential prerequisites for monitoring the implementation of various priority activities in the Global Plan of Action. Inventories are necessary not only for assessing the current status, but also for formulating future conservation strategies. Thus, PGRFA surveys and inventories should be as comprehensive as possible, including both common and rare, threatened and endangered species, and ecotypes and populations of the latter.

- 1.1 Enter in the table below any PGRFA survey and inventory conducted by your organization, including references, area(s) covered and its(their) conservation priority ranking, surveying method(s) used, threatened species/ecotypes/ populations identified, main cause of threat and major findings.** 47
48
49
50
102
105
106
170

[1; SH]

COLUMN DESCRIPTION	
Title of survey/inventory	link:protab
Name of area surveyed/inventoried	link:aretab
Reference	link:reftab
Area priority ranking for in-situ conservation	
<ul style="list-style-type: none"> • Not set/Unknown • Low • Low-Medium • Medium • Medium-High • High 	
Survey details	
<input type="checkbox"/> Indigenous knowledge used during the survey <input type="checkbox"/> Identification of threatened or endangered species relevant to PGRFA <input type="checkbox"/> Assessment of threat to genetic diversity in plants relevant to PGRFA <input type="checkbox"/> Data entered into a Geographical Information System (GIS)	
Description of surveying method(s)	
Threatened species/ecotypes/populations	
Proven causes of threat	
Presumed causes of threat	
Description of major findings	

47 1.5 Rate the adequacy of your efforts to survey and inventory PGRFA in the country. [2; NFP]

- Areas have not been prioritized for survey and inventories
- Priorities have been established but areas have not been adequately surveyed and inventoried
- Surveys and inventories are planned or ongoing for all priority areas of the country
- Surveys and inventories have taken place for all priority areas of the country

47 1.6 Indicate the greatest constraints to surveying and inventorying of PGRFA in the country. [16; NFP]

- It is not clear which organization is responsible to conduct surveys and inventories
- National priorities have not been established
- Insufficient financial support
- Insufficient number of staff
- Staff does not have sufficient skills



6.3 Which management practices does your organization apply to reduce genetic changes or loss of genetic integrity? [280; SH]

- Timely viability testing
- Suitable regeneration environment
- Appropriate sampling strategies
- Adequate isolation
- Adequate population size
- Proper handling of regenerated material
- Others (please specify)

- 10.2 For each crop breeding programme carried out by your institution, please list the taxon/crop addressed, the improvement targets in terms of trait(s) or characteristic(s), agroecological zone(s) and/or farming system(s) the improvement applies to, providing an estimate of the importance of the improvement in terms of food security, and detail germplasm source(s), the type of participatory breeding activities conducted, the number of professional staff involved, output(s) achieved so far and year of achievement. [277; SH]

COLUMN DESCRIPTION	
Name of programme/project/activity	link:protab
Name of taxon²²	link:taxtab
Name of crop²³	
Trait(s)/characteristic(s) addressed	
Agroecological zone(s)/Farming system(s) (the improvement applies to)	
Estimated importance of the improvement in terms of food security for the specified agroecological zone/farming system	
• Limited • Medium • High	
Germplasm source(s)	
<input type="checkbox"/> Local genebank <input type="checkbox"/> National genebank <input type="checkbox"/> Regional/International network <input type="checkbox"/> CGIAR genebank <input type="checkbox"/> Public organization from developed country <input type="checkbox"/> Public organization from developing country <input type="checkbox"/> Private sector	
Participatory breeding involved farmers in:	
<input type="checkbox"/> Setting breeding priorities <input type="checkbox"/> Selecting from fixed lines or finished varieties (participatory varietal selection) <input type="checkbox"/> Selecting from segregating populations <input type="checkbox"/> Making crosses and/or determining parents	
Number of professional staff involved	
Output produced	
Year of output production	





Common Tables

Organizations table (pre-filled with >18,000 records from WIEWS and other established NISMs)

Contact persons table (pre-filled with >20,000 records from WIEWS and other established NISMs)

Projects table

Taxon table (pre-filled with >75,000 records from USDA-GRIN)

Cultivars table

References table (covering both bibliographical ref. and laws..)

Etc.



Tools

- * Indicators and Reporting Format
- * **Computer Application**
- * Implementation Process at country level



New GPA Monitoring Approach

Tools developed:

- Computer-based National Info-Sharing System
(March 2002-May 2009 – 9 major releases)
- 3 versions: NFP; SHs; All (web)

Presently available in:

Arabic, Armenian, Azeri, Chinese, Czech, English, French, Georgian, German, Italian, Lao, Malay, Norwegian, Russian, Spanish, Thai, Turkish and Vietnamese – Indonesian and Mongolian



New GPA Monitoring Approach

Tools developed:

Computer Application

(tool based on Indicators + Reporting Format)

License free

- Multi-user
- Multi-language
- Flexible
- Applicable under low, medium, high infrastructure scenario
- Tested and debugged (1,000 users).



New GPA Monitoring Approach

Computer Application

allows:

- Quality data entry
- Wide scope data coverage
- Easy data import/export
- Easy data analysis

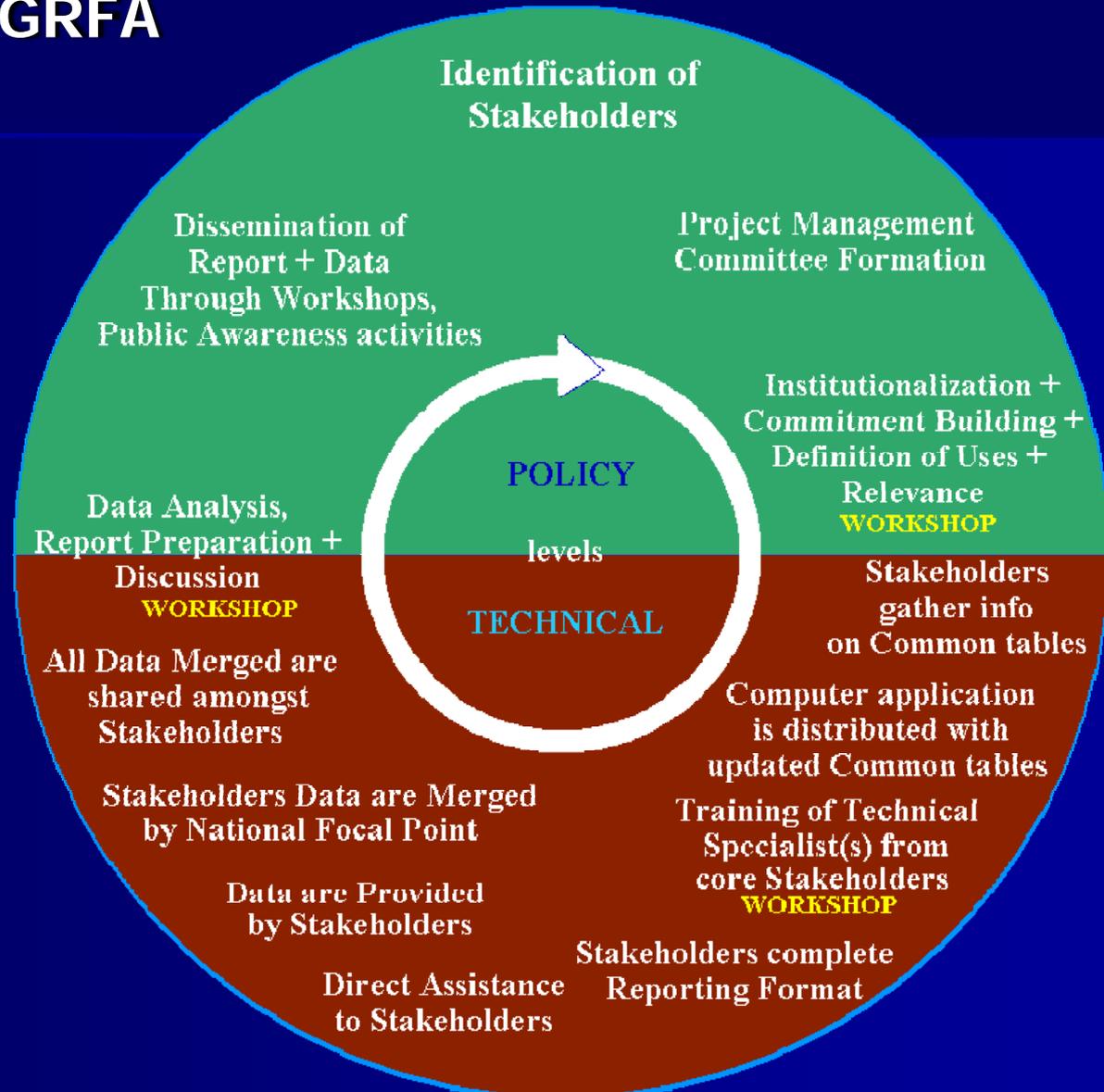


Tools

- └ Indicators and Reporting Format
- Computer Application
- ✓ **Implementation Process at the country level**



Process for the Establishment of the GPA Mechanism and the Preparation of the Country Report on the State of PGRFA





Tools

Guidelines for:

- Managing and coordinating a country-driven participatory process, such as facilitating the involvement of stakeholders (December 2002)

Presently available in:

English and Spanish provided on CD rom



Tools

Guidelines for:

- Establishing a National Info-Sharing Mechanism on GPA implementation, including a user's manual for the computer application

Presently available in:

English, French, Russian, Spanish, Thai and Vietnamese. Provided to trainees on CD rom



Tools

Guidelines for:

- the Preparation of assessment on the state of PGRFA

Presently available in:

English, French, Spanish, Arabic and Chinese

NISM-GPA web front page



The screenshot shows a web browser window titled "GPA - Windows Internet Explorer" with the address bar displaying "http://www.pgrfa.org/gpa/selectcountry.jsp". The page content includes:

- Header:** A green banner with the WISH-GPA logo on the left and the text: "WORLD INFORMATION SHARING MECHANISM on the IMPLEMENTATION of the GLOBAL PLAN of ACTION for the CONSERVATION and SUSTAINABLE USE of PGRFA".
- Navigation:** A row of 62 national flags representing different countries.
- Text:**

Welcome to **WISH-GPA**, the world information sharing mechanism on the implementation of the *Global Plan of Action (GPA) for plant genetic resources for food and agriculture (PGRFA)*.

WISH-GPA provides access to **National Mechanisms' portals and databases on conservation and sustainable use of PGRFA**, established by 62 countries worldwide with the participation and contribution of more than 1,000 public institutions, non-governmental and private organizations, including farmers' associations, from the PGRFA world community that, day by day, conserve, monitor, multiply, improve, exchange and make available these resources essential to our and our planet's life. More information on **WISH-GPA** and its contents...

To access a National Mechanism's portal click on the corresponding flag above. To perform an advanced text search on one country database, please select a country from the pull down list below. If no country is selected, the search will be performed on all countries databases. To search on two or more countries just click on the Submit button below and in the advanced search page that follows select the countries (click on the country names while pressing the **Ctrl** key). By choosing one of the 20 available languages in the pull down list below, the interface and part of the available data will be displayed in the selected language.

For any query or feedback please write to **WIEWS**.
- Search Form:**

To the advanced text search page:

Country: Language:

Customized text search:

Organizations: Language:

Contact persons: Language:

Projects: Crop: Language:

Publications: Crop: Language:

Cultivars: Crop: Language:
- Footer:**

Version 4.0

Logos for **WIEWS** and **Biodiversity International**.

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The browser's taskbar at the bottom shows several open applications, including "PMA FORM - Message...", "FAO Regional Office for...", "Login - FAO Administrat...", "Enter Parameters - Win...", "GPA - Windows Inter...", and "Document1 - Microsoft...". The system tray shows the time as 14:11 and the name "Mandy".