

New information products to  
support the Global System

# Why?

- National genebank managers
  - International genebank managers
  - Users
  - Decision/policy-makers
- What are the accessions I really need to look at?
  - Where else is similar material conserved?
  - Where can I order them from?
  - Is there enough high-quality seed available?
  - Are they properly duplicated?
  - What are the results of previous research on them?
  - How much use is being made of my collection?
  - How good am I at fulfilling requests?

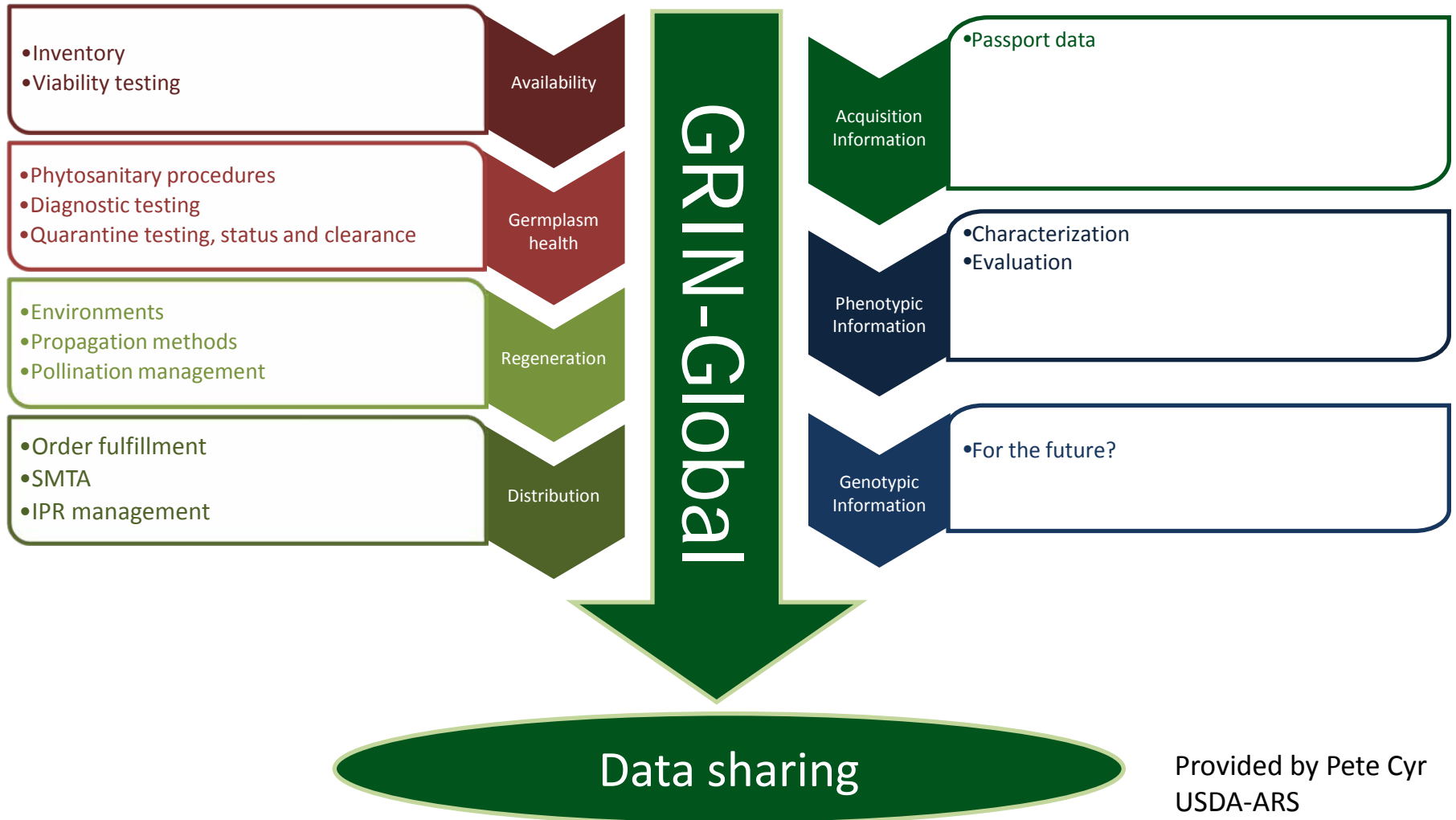
# Contents

- GRIN-Global
- Genesys
  
- What the above are NOT
- What they might be...

# GRIN-Global

- An information management system for genebanks
- The new incarnation of USDA's Genetic Resources Information System (GRIN)
- Support to adoption by national genebanks has been provided by Bioversity
- Some interest from CGIAR Centres too
- "Open source" software for continued development and maintenance by the user community

# Germplasm accession



Provided by Pete Cyr  
USDA-ARS



## Main Page

### GRIN-Global Version 1.0 Released

14 Dec. 2011

The USDA/ARS, Bioversity International, and the Global Crop Diversity Trust announced the release of GRIN-Global System version 1.0. Please click here for the complete announcement: [GRIN-Global 1.0 Announcement\(.pdf\)](#)

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## The GRIN-Global Project

The GRIN-Global project's mission is to create a new scalable, version of the Germplasm Resource Information Network (GRIN), used by the USDA/ARS National Plant Germplasm System. The GRIN-Global database platform will be suitable for use by any interested genebank in the world. It is being developed in a joint effort with the [Global Crop Diversity Trust](#), [Bioversity International](#), and the Agricultural Research Service of the USDA (read the [ARS press release](#)). (For information on the Germplasm Resource Information Network (GRIN) system, see [\[1\]](#).)



## Goal of the GRIN-Global Project

This project's goal is to provide the world's crop genebanks with a powerful, flexible, easy-to-use global plant genetic resource information management system that will constitute the keystone for an efficient and effective global network of genebanks to permanently safeguard plant genetic resources vital to global food security, and to encourage the use of these resources by researchers, breeders, and farmer-producers. By improving the capability of genebanks to provide data to a global accession-level information system under the leadership of Bioversity International, it will be possible to more accurately assess the "State of the World" for plant genetic resources, and to identify priority global needs for plant genetic resource conservation.

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[http://www.grin-global.org/index.php/Main Page](http://www.grin-global.org/index.php/Main_Page)

# Genesisys

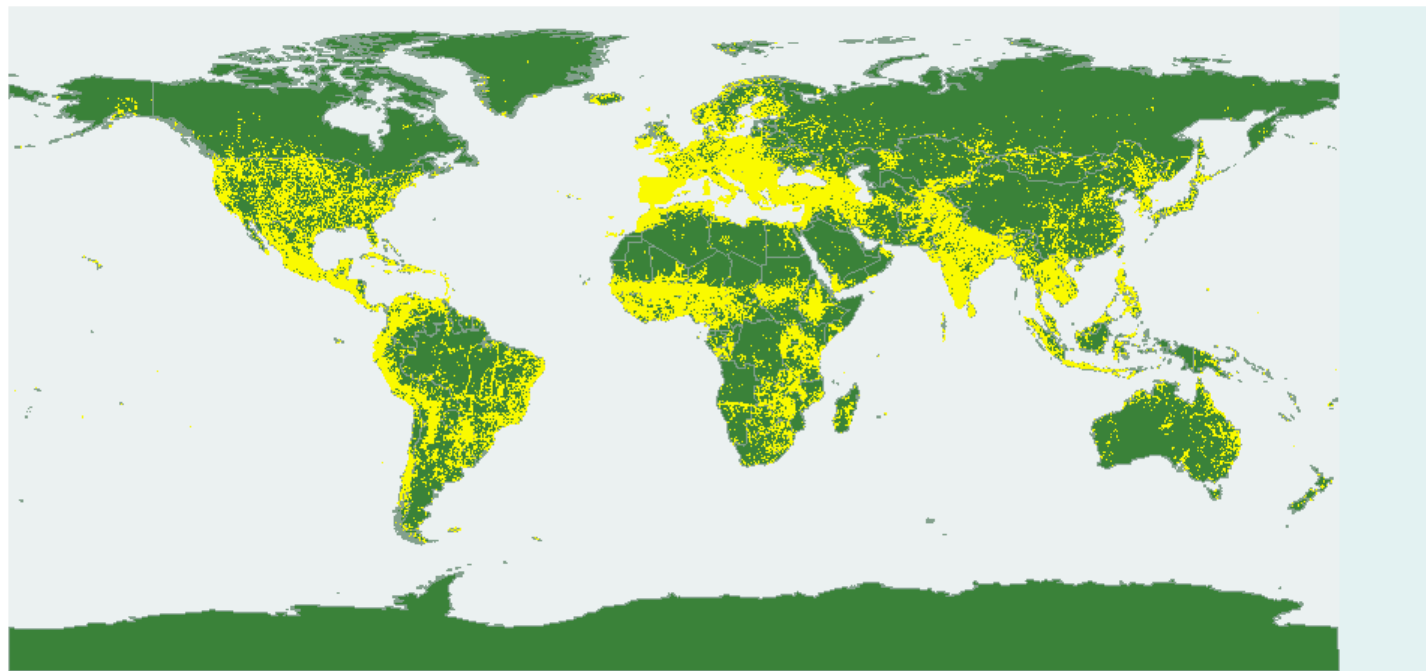
- Online portal to accession-level information on the world's genebank holdings
- Developed by SGRP/Bioversity as successor to, and expansion of, SINGER
- Also contribution from ITPGRFA-Secretariat
- Initially encompasses International Collections, Eurisco and USDA
- Searchable on passport, characterization, evaluation and ecogeographic descriptors
- Ordering system
- Plans for further development and improvement
- Expandable to include **your** genebank!



**CROP LIST**

- Banana
- Barley
- Beans
- Breadfruit
- Cassava
- Chickpea
- Coconut
- Cowpea
- Potato
- Faba bean
- Finger millet
- Grass pea
- Lentil
- Maize
- Pearl millet
- Pigeonpea
- Rice
- Sorghum
- Sweet potato
- Taro
- Wheat
- Yam

**Accession Level**  
 2,333,733



625290 accessions from 136586 sites

My results (2333733)

My selection (0)

About GENESYS

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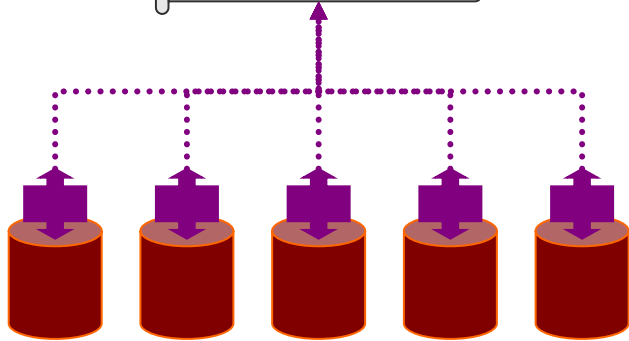
**Latest news**

**GENESYS 1.0**  
 GENESYS 1.0 was launched on 13 May 2011. At the time it contained [...more](#)

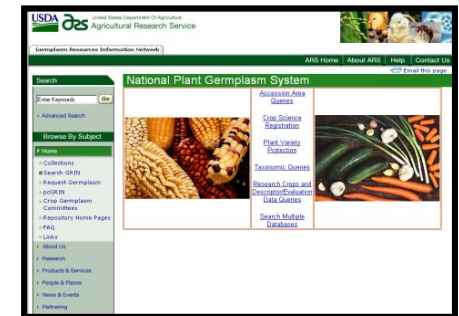
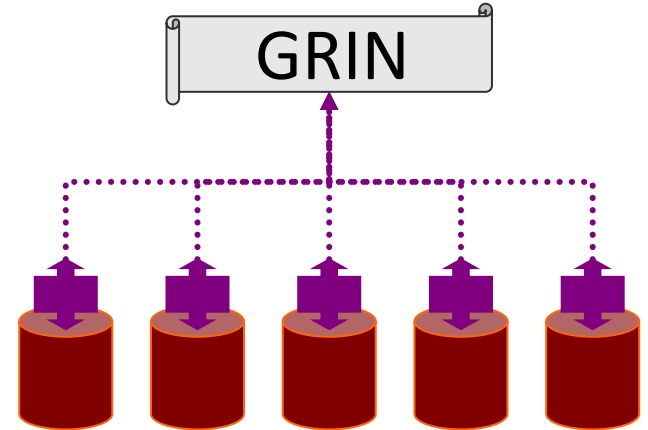
**GRIN Update**  
 GRIN-Global pre-release version 0.9 became available on 13 July. [...more](#)

**GENESYS Helpdesk**  
 If you have any questions about GENESYS or suggestions of how it [...more](#)

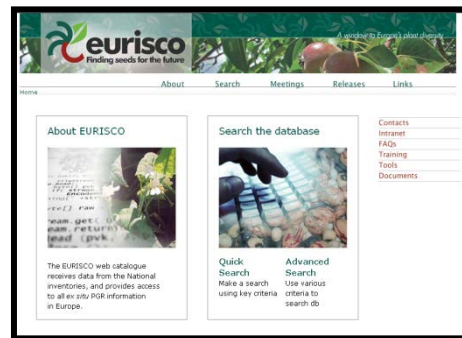
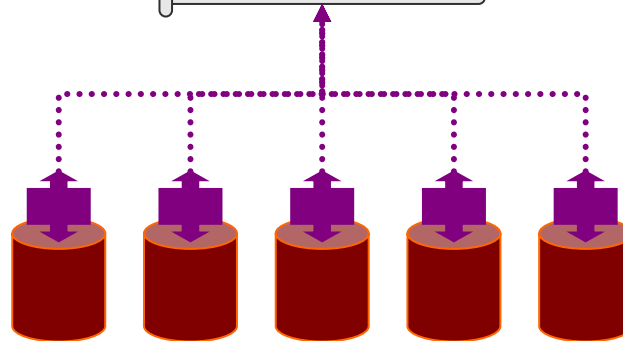
# SINGER



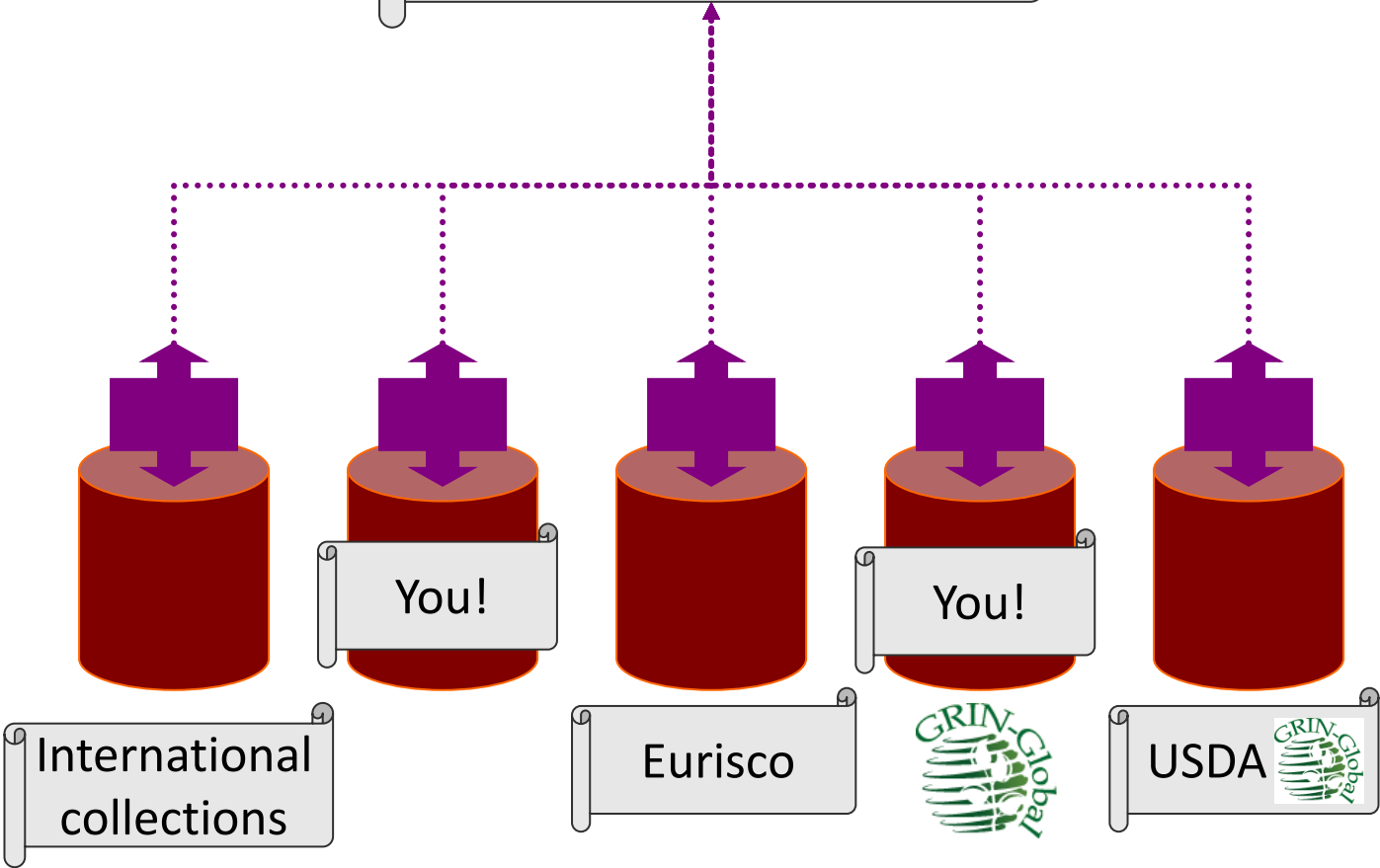
# GRIN



# Eurisco



# Genesys



CROP LIST
Banana
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Chickpea
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Lentil
Maize
Pearl millet
Pigeonpea
Rice
Sorghum
Sweet potato
Taro
Wheat
Yam

Total number of Countries: 52

Angola	2	Argentina	108	Australia	1
Benin	342	Bolivia	5	Brazil	1,356
Burkina Faso	6	Cameroon	197	Cape Verde	13
Central African Republic	2	Chad	3	China	2
Colombia	2,322	Congo	67	Costa Rica	80
Côte d'Ivoire	22	Cuba	82	Dominican Republic	5
Ecuador	116	El Salvador	8	Fiji	6
Gambia	4	Ghana	296	Guatemala	88
Guinea	138	Honduras	26	Indonesia	123
Jamaica	19	Kenya	19	Liberia	6
Madagascar	3	Malawi	5	Malaysia	59
Mali	1	Mexico	112	Nicaragua	3
Niger	9	Nigeria	1,541	Panama	45
Paraguay	202	Peru	416	Philippines	6
Puerto Rico	17	Rwanda	2	Sierra Leone	93
Thailand	29	Togo	155	Uganda	14
United Republic of Tanzania	3	United States	10	Venezuela	243
Viet Nam	4				

Accession Level  
2,333,733

My results (8449)

My selection (0)

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<http://www.genesys-pgr.org/>

# Not to be confused with...

- **WIEWS** World Information and Early Warning System on PGRFA  
[http://apps3.fao.org/wiews/germplasm\\_query.htm?i l=EN](http://apps3.fao.org/wiews/germplasm_query.htm?i l=EN)

The screenshot shows the 'Germplasm - Search Criteria' form in the WIEWS application. The interface has a green header with navigation tabs: 'WIEWS', 'Institutes', 'Germplasm' (selected), 'Crop Activities', 'Contacts', and 'Legal Aspects'. Below the header, there are sub-tabs for 'PGR', 'Seeds', and 'Early Warnings'. The main form area contains several search criteria fields: 'Region' (a dropdown menu with a search icon), 'Country' (a dropdown menu), 'Institute Code' (a text input field), 'Species' (a text input field with a checkbox labeled 'starts with'), and 'Status of Sample' (a text input field). At the bottom right of the form, there are three buttons: 'Report', 'Search', and 'Reset'. A copyright notice '© Copyright FAO 1990-2011' is visible at the bottom left of the page.

# Not to be confused with...

- WISM

World Information Sharing Mechanism on the implementation of the GPA for PGRFA

<http://www.pgrfa.org/gpa/selectcountry.jsp>

WORLD INFORMATION SHARING MECHANISM  
on the IMPLEMENTATION of the GLOBAL PLAN of ACTION  
for the CONSERVATION and SUSTAINABLE USE of PGRFA

Welcome to **WISM-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)*. **WISM-GPA** provides access to **National Mechanisms' portals and databases on conservation and sustainable use of PGRFA**, established by **73 countries** worldwide with the participation and contribution of more than 1,150 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 **WISM-GPA** and its contents...

To access a National Mechanism's portal click on the corresponding flag above or here. 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 **26 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.

To the advanced text search page:  
Country: all countries  
Language: English  
Submit

Customized text search:  
Organizations: Language: English Search  
Contact persons: Language: English Search  
Projects: Crop: all crops Language: English Search  
Publications: Crop: all crops Language: English Search  
Cultivars: Crop: all crops Language: English Search

Version 4.01  
with the collaboration of  
FAO  
WIEWS  
Bioversity International

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# All contributing to...

- ITPGRFA Article 17 – The Global Information System on Plant Genetic Resources for Food and Agriculture

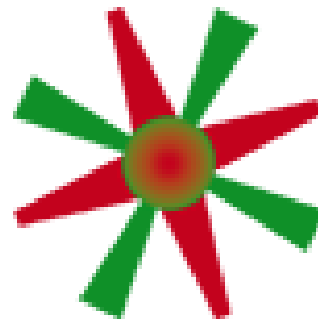
17.1 The Contracting Parties shall cooperate to develop and strengthen a **global information system to facilitate the exchange of information**, based on existing information systems, on scientific, technical and environmental matters related to plant genetic resources for food and agriculture, with the expectation that such exchange of information will contribute to the sharing of benefits by making information on plant genetic resources for food and agriculture available to all Contracting Parties. In developing the Global Information System, cooperation will be sought with the Clearing House Mechanism of the Convention on Biological Diversity.



# In conclusion

- Together, we are building the information infrastructure of the Global System
- Much is still missing, though...
- What can you genebank do?

# Thanks!



**GENESYS**  
Gateway to Genetic Resources