



# EURISCO Training Workshop 2017

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## Albanian National Inventory Status

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# National Inventory (Albania)

Albanian National Inventory in EURISCO = 4252 acc.

- Source of germplasm:
- 2600 acc. from ex-Research Agricultural Stations (1990-1998).  
(collected material and Breeder's line).
- 186 acc repatriated from other countries (most part from Germany).
- 32 acc. were accepted from private breeders.
- 1434 acc. Were accepted from different collecting missions.

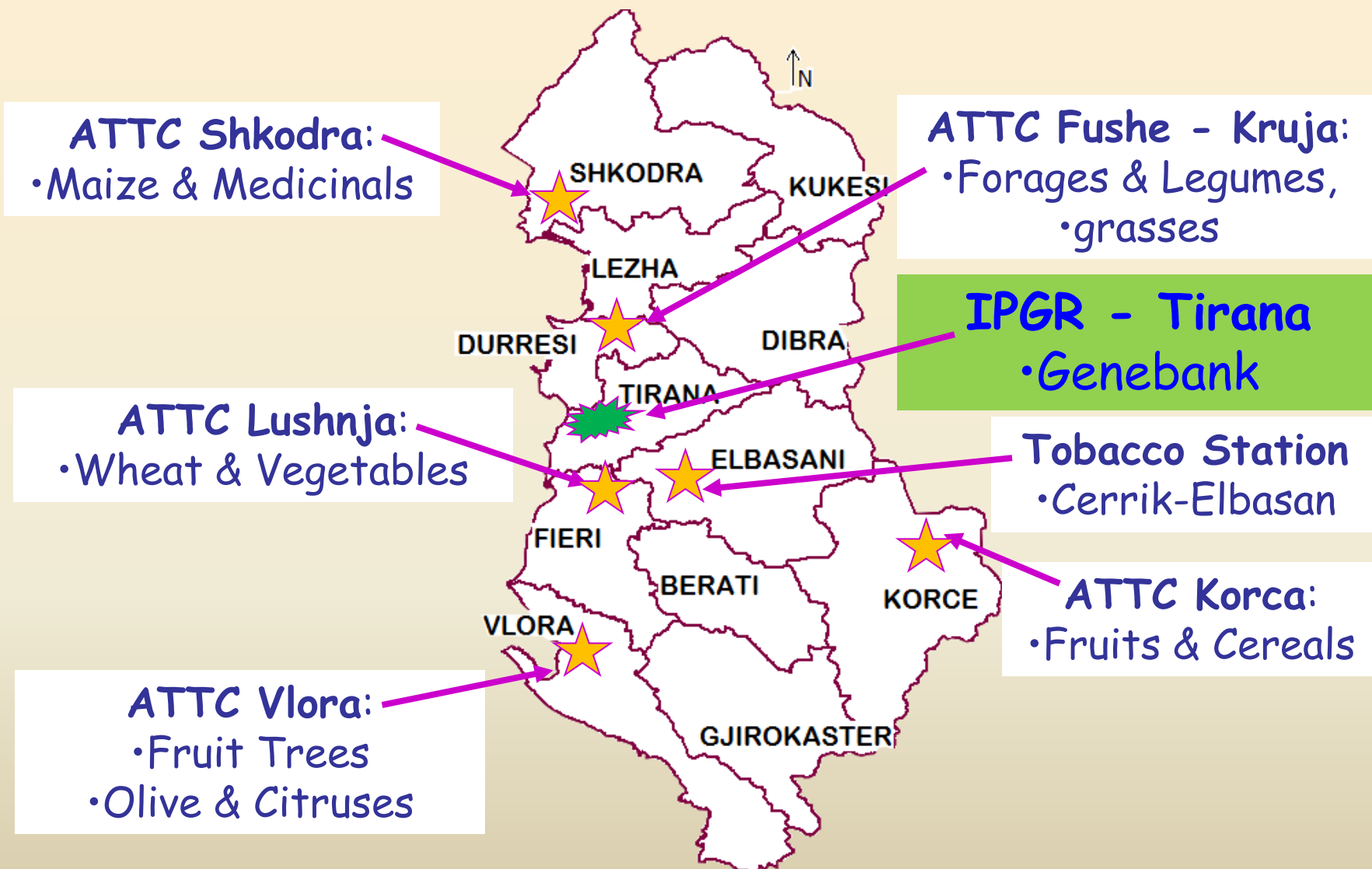
# Documentation of Albanian National Inventory

## Germplasm accepted from

### **ex-Research Agricultural Stations:**

- All accessions accepted from ex-Research Agricultural Stations (1990-1998) were:
  - All accessions were with only some small data (institution code, name of acc; and for some collecting date).
  - Breeder's line = 976 accessions.
  - 689 accessions with YES geo-data.
  - 446 accessions with NO geo-data.
  - Other accessions with NO or only with some data.

# Data sources: Research Agricultural Stations



# ALB NI in Genebank

## ■ ALB NI includes:

- 4252 accessions
  - 96 genera.
  - 144 species.

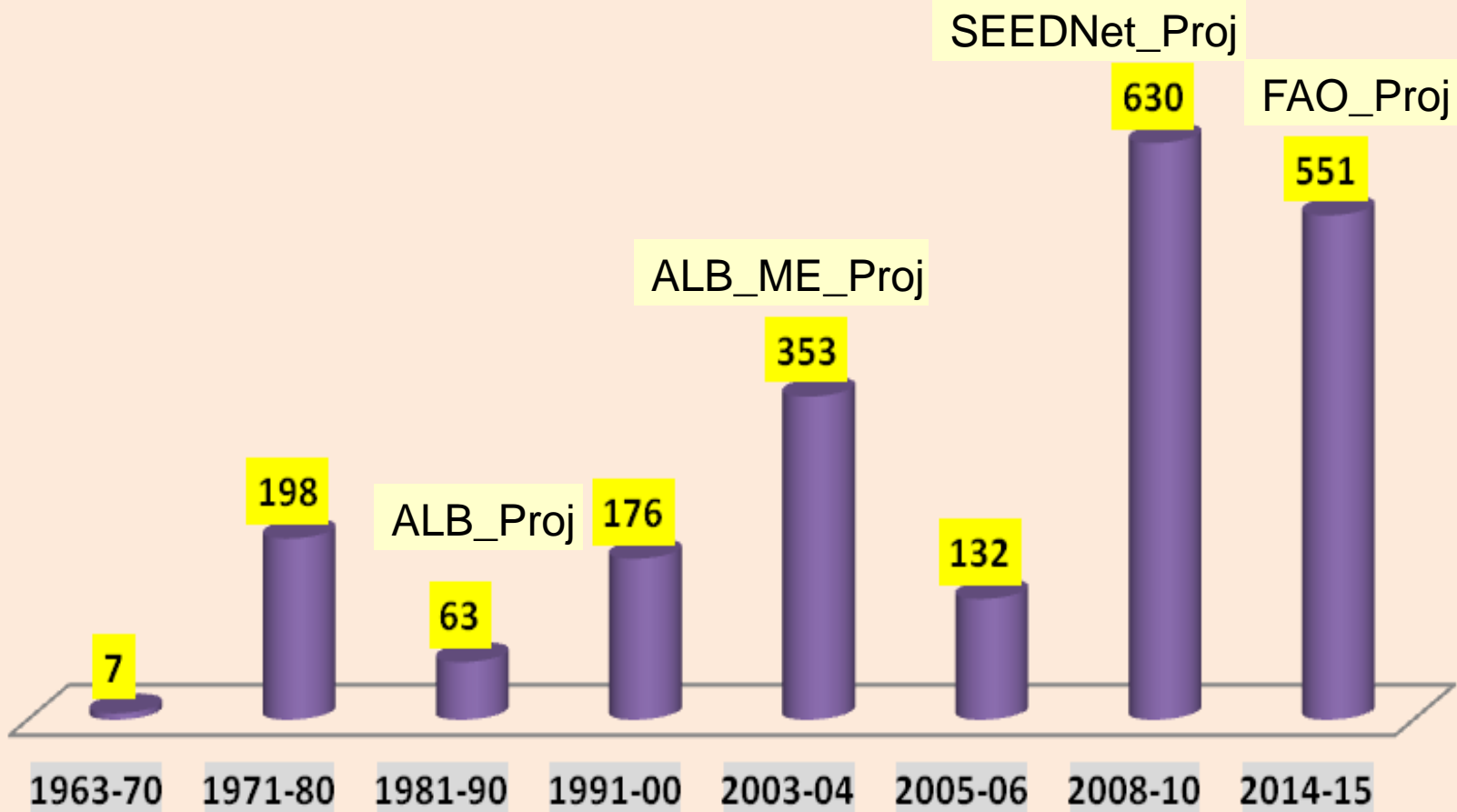
- Gene-bank accessions are stored (**ex-situ**) in 18 standard equipments (freezers), at -18°C (3–7 % seed moisture content) = **base collection.**

- 4252 accessions (3317 acc. ex situ seed coll.)
  - (935 acc. ex situ field coll.)



# Albania National Inventory

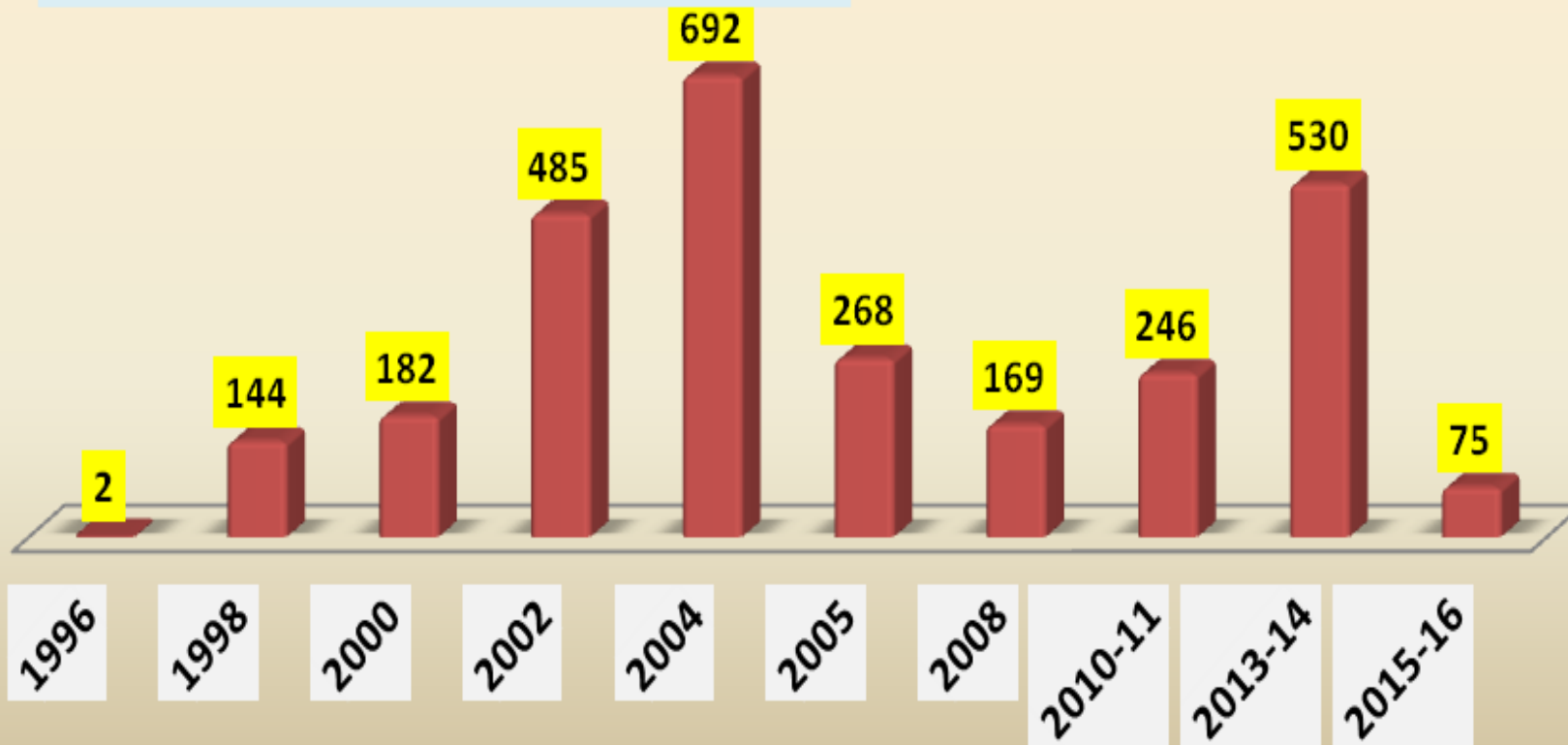
## Accessions summary by collecting date



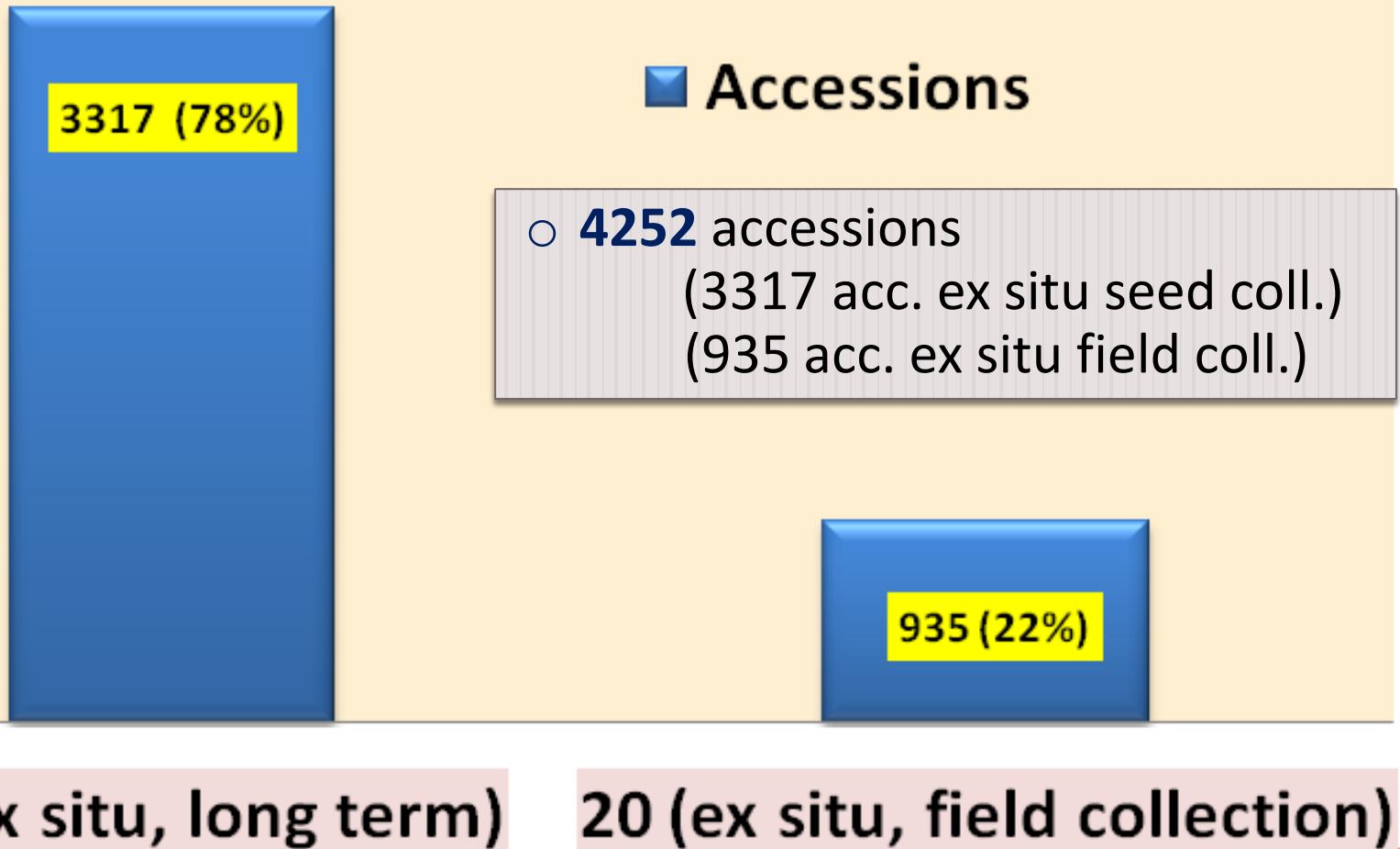
# Albania National Inventory

## Acquisition date of accessions in genebank

■ Accessions (Total acc. = 2793)



## Accessions summary by storage type





## Accession Summary by Crops/ Species

<b>Cereals</b>	acc	<b>Vegetables</b>	acc	<b>MAP</b>	acc
Aegilops ssp.	34	Cucumis ssp.	79	Origanum vulgare	128
Hordeum ssp.	76	Capsicum	58	Salvia officinalis	157
Triticum aestivum	594	Phaseolus vulgaris	303	Thymus vulgaris	50
Secale cereale	34	Daucus carota	12	Vaccin. myrtillus	39
		Solanum			
Zea mays	689	lycopersicum	88	Satureja montana	115
Other	18	Other	112	Other	57
<b><u>Total</u></b>	<b><u>1445</u></b>		<b><u>652</u></b>		<b><u>546</u></b>
<b>Species/group</b>	<b>14</b>		<b>33</b>		<b>21</b>

## Accession Summary by Crops/ Species (continue)

<b>Fruit-Trees</b>	<b>acc</b>	<b>Forages</b>	<b>acc</b>	<b>Industrials</b>	<b>acc</b>
Ficus	67	Lathyrus	21	Glycine	29
Malus	83	Lolium	10	Beta	25
Olea	80	Medicago	40	Gossypium	25
Prunus	213	Pisum	31	Helianthus	22
Pyrus	116	Trifolium	18	Nicotiana	206
Vitis	249	Vicia	64	Sorghum	22
Other **	166	Other	15	Other	107
<b>Total</b>	<b>974</b>		<b>199</b>		<b>436</b>
Species /group	35		20		13
** (ex situ = seed)	39				

# Albania National Inventory (NI)

## Accessions by country of origin

Country of origin	Accessions	%	Country of origin	Accessions	%
Albania	3758	88.4%	Czeck...	17	0.4%
Italy	70	1.6%	Nederland	12	0.3%
Germany	58	1.4%	Austria	11	0.3%
USA	40	0.9%	China	11	0.3%
French	30	0.7%	Russia	10	0.2%
North Korea	25	0.6%	Romania	10	0.2%
Lituania	24	0.6%	unknown	87	2.0%
Greece	22	0.5%	Other 15 countries	67	1.6%

# Documentation-Type of data

## Actual source for germplasm data

- ☞ Exploring and Collecting data.
- ☞ Acquisition and Registration data.
- ☞ Sample Processing and Germplasm testing data.
- ☞ Conservation type data.
- ☞ Storage and Monitoring data.
- ☞ Characterization & Evaluation data/Experimental data.
- ☞ Regeneration data.
- ☞ **Some Molecular Markers data .**
- ☞ Documentation and Information data.
- ☞ Distribution data.
- ☞ Equipment's and Collection Security data.
- ☞ etc

# Source of data - ex situ seed collection



## Albania NI in EURISCO

= 4252 accessions (= 96 genera, 144 species),

Genebank = 3980 accessions.

ATTC Vlora = 272 accessions.

Collected Materials = 2412 accessions.

Collected acc. with **YES** geo-data = 2063 accessions.

Collected acc. with **NO** geo-data = 446 accessions.

96% of NI in EURISCO is represented by Albanian accessions.

## Actual status of Documentation of ALB NI

- **Actually the ALB NI database includes:**
- **Recorded data in Excel format, in Word, photo, etc.,**
- **All 4252 accessions have passport data.**
- **Passport data are consistent to the International Standards and Descriptors.**
  
- **During 1999-2008 period some regenerations were carried out and regeneration data in Excel sheets were recorded.**
  
- **There are some characterization data (morphologic and molecular data).**
- **These data are recorded in Excel sheets but not yet according to International Standards.**

# Main databases

= according to Research Groups and Crops.

1. Arable crops (cereals, forages, industrials, medicinal & aromatic plants) and germplasm management database.
2. Horticulture crops (vegetables, fruit trees, grapevine, subtropicals, olive & citrus) database.
3. Documentation (database, documentation, information, publication) data.



# Sources of Documentation data

- **Sample Seed Processing and Storage.**
  - Seed cleaning = YES
  - Seed drying = YES
  - Seed moisture content = YES
  - Seed package = YES
- **Germplasm testing.**
  - Viability Testing = YES
  - Health diagnosis (Purity + Health Testing) = YES (partially)
  - Trans-gene detection (OMG testing). = NO
- **Use of Molecular Markers (=Realized only in some crops)**
- **Conservation Types.**
  - Seed bank conservation. = YES
  - Field bank conservation. = YES
  - In vitro bank conservation. = NO
  - Cryo-bank conservation. = NO
  - Vegetative bank conservation = YES (Some crops)
  - DNA bank conservation. = NO

## ALB NI in EURISCO

- **4252 accession data, recorded in Excel format using Passport Descriptors List.**
- **There are 4252 acc, 96 genus, 144 species.**
- **ALB NI in EURISCO = 88.4% of accessions with origin = Albania**
- **ALB NI is present on-line in:**  
<http://eurisco.ipk-gatersleben.de>

# Problems: Albania NI

## ■ ALB NI

- Not yet an approved National Strategy for PGR.
- Not a specific law for protection and conservation of PGR (ex situ, in situ, on farm).
- Not suitable financial support for protection and conservation of PGR.
- There are no regular relationships between actors for PGR.
- Actually only Albanian genebank (AUT) realise its activities for exploitation, collection, conservation and information on PGR.
- etc

## Actually Albania NI:

database of PGR (standard data) is present on line:

### ALB NI on-line in:

- <http://qrgj.org>
- <http://eurisco.ipk-gatersleben.de>;
- <http://www.fao.org/wiews/>;
- <http://www.genesys-pgr.org/>;

Thank you