



Tailoring the Documentation of Plant Genetic Resources in Europe to the Needs of the User

Workshop of the Documentation and Information Working Group
20-22 May 2014, Prague, Czech Republic

National Inventory in Albania **Belul GIXHARI**

Thanks to **ECPGR** and **CRI - Prague** for organizing this workshop, and a great thanks to **Bioversity International** that support my presence in this workshop.

Albania National Inventory (NI)

Albania PGR database includes two Inventories

1. **Home Inventory /or Genebank database of PGR**
(standard & raw data)

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2. **ALB National Inventory (NI) in EURISCO**
(standard data)

- **ALB NI is present on-line in: <http://eurisco.ecpgr.org/>**

Albania National Inventory (NI)

- Home Inventory include:
 - **Old Inventory/database of PGR with data before 1998.**
 - +
 - **New Inventory** (= accessions of different sources registered in genebank after **1998**).
- **Data are recorded in Excel format, Word, photo, etc., according to International Standards and Descriptors.**
- **There are some characterization data for a small number of acc.**
- **During transition period (1990-1998) most of the ex-Research Agricultural Institution sent to genebank genetic materials without information, or non standard data.**

Gene Bank **Old Inventory**

- **Old Inventory collection include:**
 - **2687** accessions.
 - **48** genius.
 - **76** species.
- Gene-bank accessions are stored (**ex-situ**) in 12 standard equipments (freezers), at -18°C (3–7 % seed moisture content) = **base collection.**

Germplasm is stored ex situ = (13)

long term seed collection



Albania National Inventory (NI)

- Albania NI in EURISCO include:
- 2111 accession data, recorded in Excel format using Passport Descriptors List.
- There are 2111 acc, 33 genus, 62 species.
- ALB NI in EURISCO represent 79% of Old Inventory, and 96% of accessions with origin = Albania
- ALB NI is present on-line in: <http://eurisco.ecpgr.org/>

Albania National Inventory (NI)

Accessions by **Genus and species** (**Old Inventory** = 2687 acc.)

	accessions	Genus	Species
Old Inventory (ALB)	2687	46	76
Abania	2193	41	68
Other origin	494	5	41
In EURISCO	2111	33	62
Eurisco/Old Inventory	79%	72%	82%
Eurisco/Albania NI	96%	80%	91%

Albania National Inventory (NI)

Accessions **by country of origin** (**Old Inventory** = 2687 acc.)

Country of origin	Accessions	%	Country of origin	Accessions	%
Albania	2193	81.6%	Czech...	17	0.6%
Italy	70	2.6%	Nederland	12	0.4%
Germany	58	2.2%	Austria	11	0.4%
USA	40	1.5%	China	11	0.4%
French	30	1.1%	Russia	10	0.4%
North Korea	25	0.9%	Romania	10	0.4%
Lituania	24	0.9%	unknown	87	3.2%
Greece	22	0.8%	Other 15 countries	67	2.5%

Albania National Inventory (NI)

Accessions by country of origin (**Old Inventory** = 2687 acc.)

NI in EURISCO: 2111 accessions



"ex-situ" conservation:

- ✓ Seed collection = 1800 acc.
- ✓ Wood plants "ex-situ" field-collection = 311 acc.

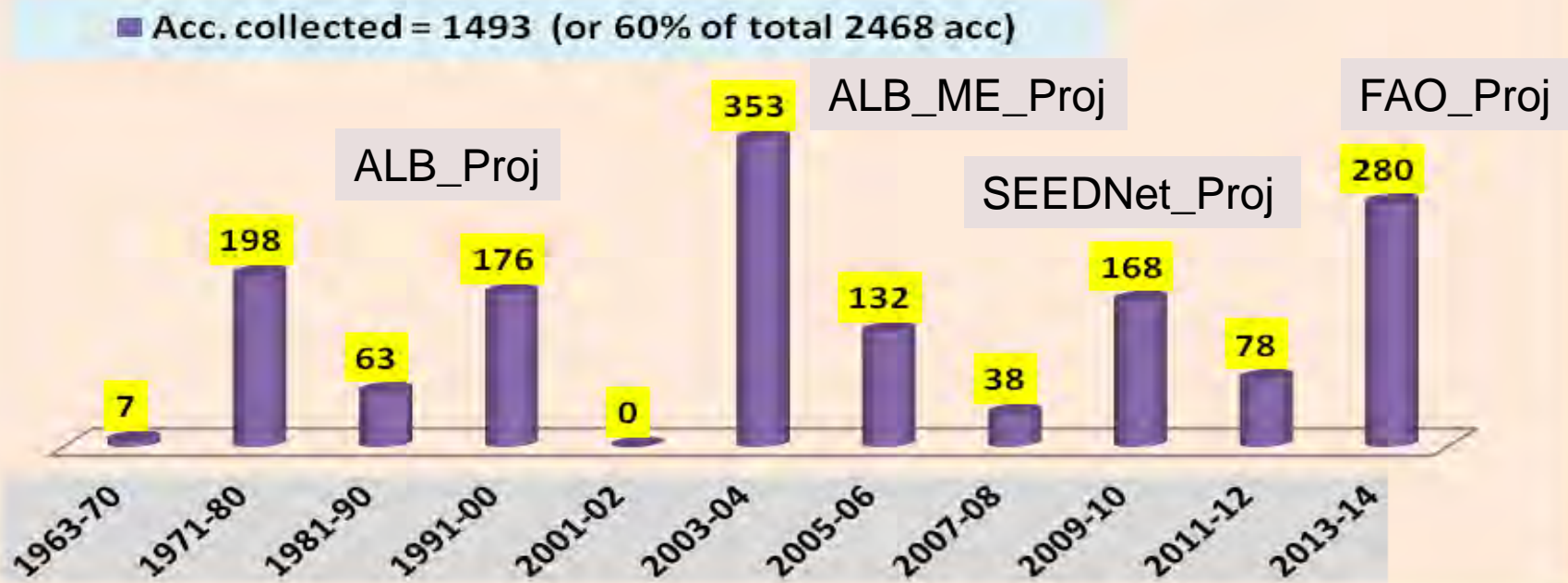


ACTUAL STATUS OF ALBANIA NATIONAL INVENTORY (NI)

ACTUAL STATUS OF ALBANIA NATIONAL INVENTORY (NI)

Accessions summary by collecting date (= 2468 acc)

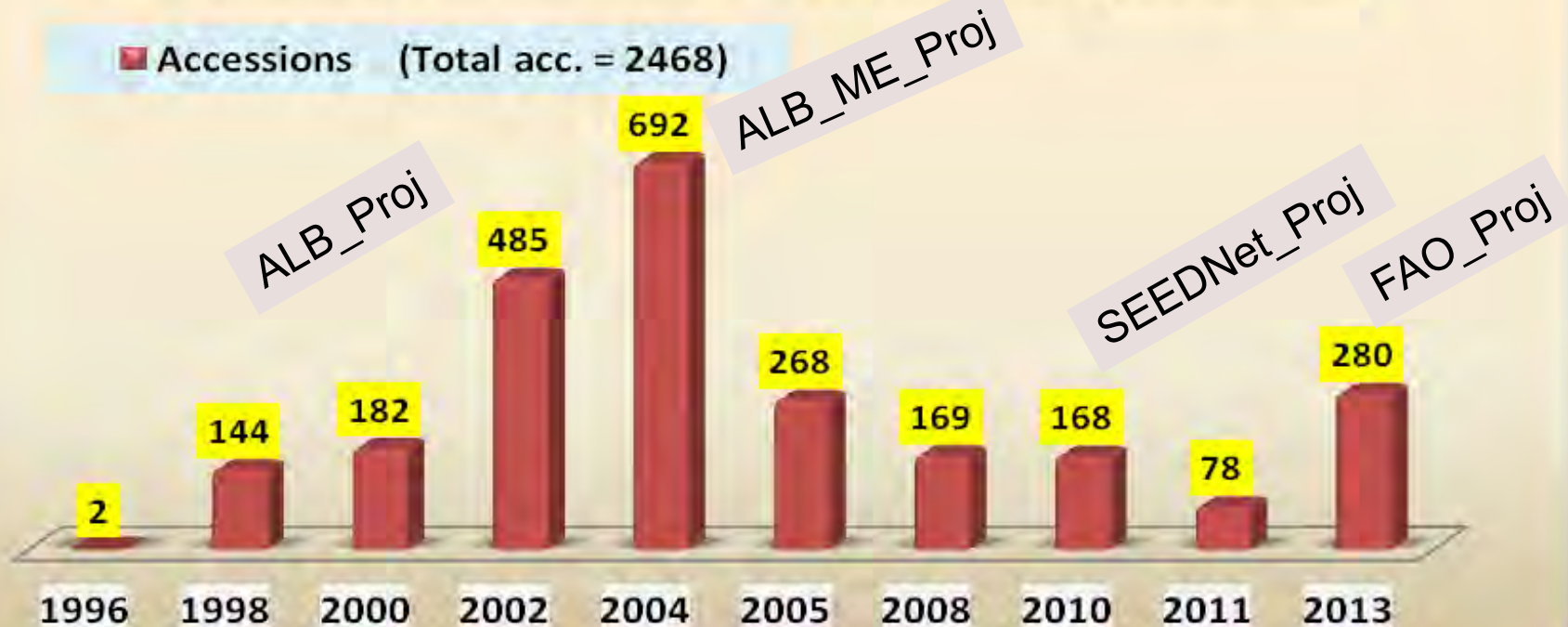
Accessions summary by collecting date



ACTUAL STATUS OF ALBANIA NATIONAL INVENTORY (NI)

Accessions summary by acquisition date (= 2468 acc)
= outputs of some Projects

Acquisition date of accessions in genebank



ACTUAL STATUS OF ALBANIA NATIONAL INVENTORY (NI)

Accessions summary by collector institute number

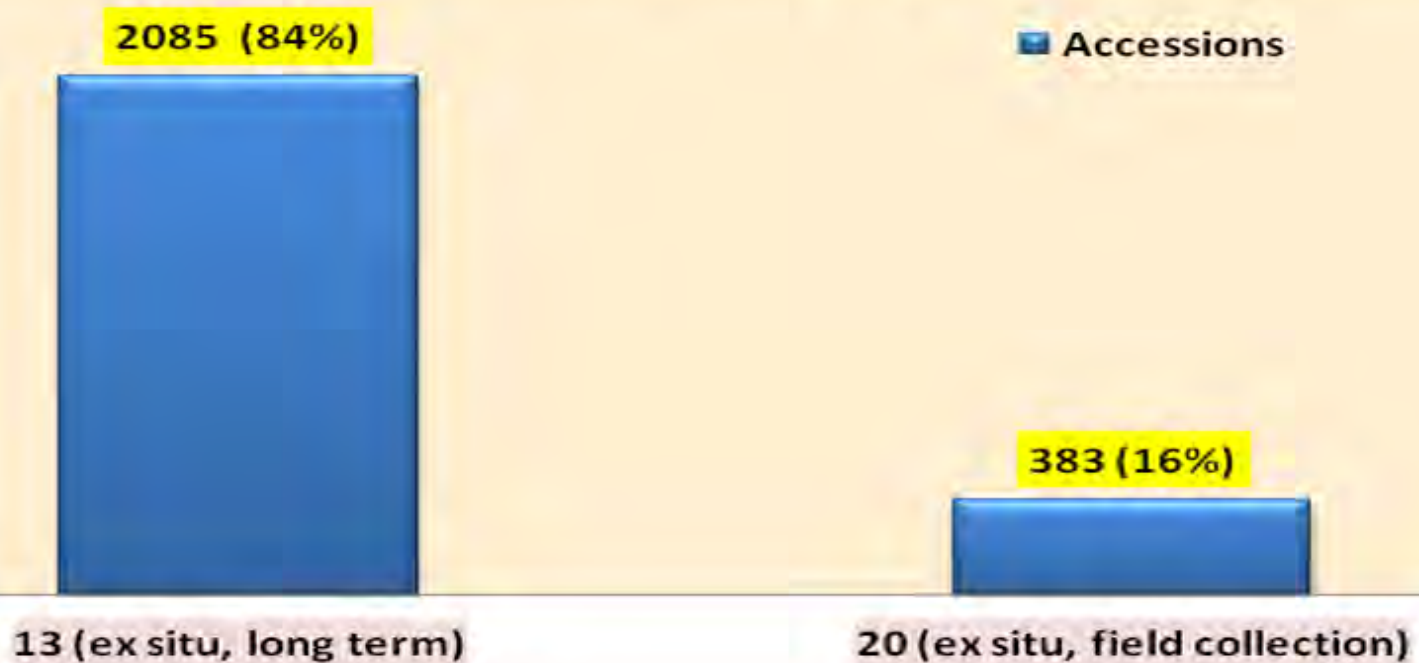
Accessions by collector Institute



ACTUAL STATUS OF ALBANIA NATIONAL INVENTORY (NI)

Accessions summary by storage type

Accessions summary by storage type



ACTUAL STATUS OF ALBANIA NATIONAL INVENTORY (NI)

National Inventory Status (new accessions were added)

National Inventory Status	Accession	percent
Total accession	2468	100%
Adv. cv/Br. lines/Hyb	975	40%
Collecting accession.	1493	60%
Collecting acc.	1493	100%
Collecting acc with geo-cordinates	1012	68%
Collecting acc with no geo-cordinates	481	32%

ACTUAL STATUS OF ALBANIA NATIONAL INVENTORY (NI)

National Inventory Status In situ/On farm

Crops / Accession	In Situ	On farm	In Situ/On Farm
Fruit Trees (landraces listed 633 acc.)	163	130	293
Vitis sp.	2	44	46
Olive trees (1000-3000 years old)	116	40	156
Citrus	12	11	23
Medicinal (wild species)	403	0	403
Phaseolus (landraces)	0	5	5
Zea mays (landraces)	0	3	3
Total (accession)			1269
Genus			63
Species			76
Farmers engaged with PGR (on farm)			13
Farmers (listed as potential in the future)			45

ACTUAL STATUS OF ALBANIA NATIONAL INVENTORY (NI)

National Inventory Status: FAO-TCP/ALB/3401

‘Conservation and management of endangered locally adapted crop varieties’ (1st year Project outputs)

	Accession	Genus	Species
TCP/ALB/3401_HOR-1	75	10	13
TCP/ALB/3401_MAP_1	76	16	20
TCP/ALB/3401_FRU_1/4	76	6	9
TOTAL	227	32	42

It is the second time (after SEEDNet) where a **Project related to PGR has a concrete output** (**not only a written report**)

ALB NI Status: **Problems identified**

Information in Excel format is not very useful for users.

Albania has a big Server +accessories (FAO support) **but not** a Home-Database easy to be used by users.

Users (and genebank) want to know for what purpose an accession/individual was selected/collected.

EURISCO Descriptors describe (**CV**) **passport** for an acc. but there is no **any information why ones has been selected/or collected.**

Characterization data (in Excel) are less useful to users

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ALB NI Status: **other Problems**

Geo-coordinates recorded using GPS are not all time correct (several samples have not precise geographic coordinates)(**for different reasons, GPS knowledge, battery charge, clouds, etc**)

To check geo-data we have **added** near COLLSITE other descriptors in Administrative levels (ALB.adm1, ALB.adm2, ALB.adm3) (**County, District, Commune**) (**the name of a village can be the same of different areas of collection = this is real**) (my native village German, or Germenj, is 8 times).

What kind of software can we used to check geo-data??

ALB NI Status: **other Problems**

Different activities

= different outputs

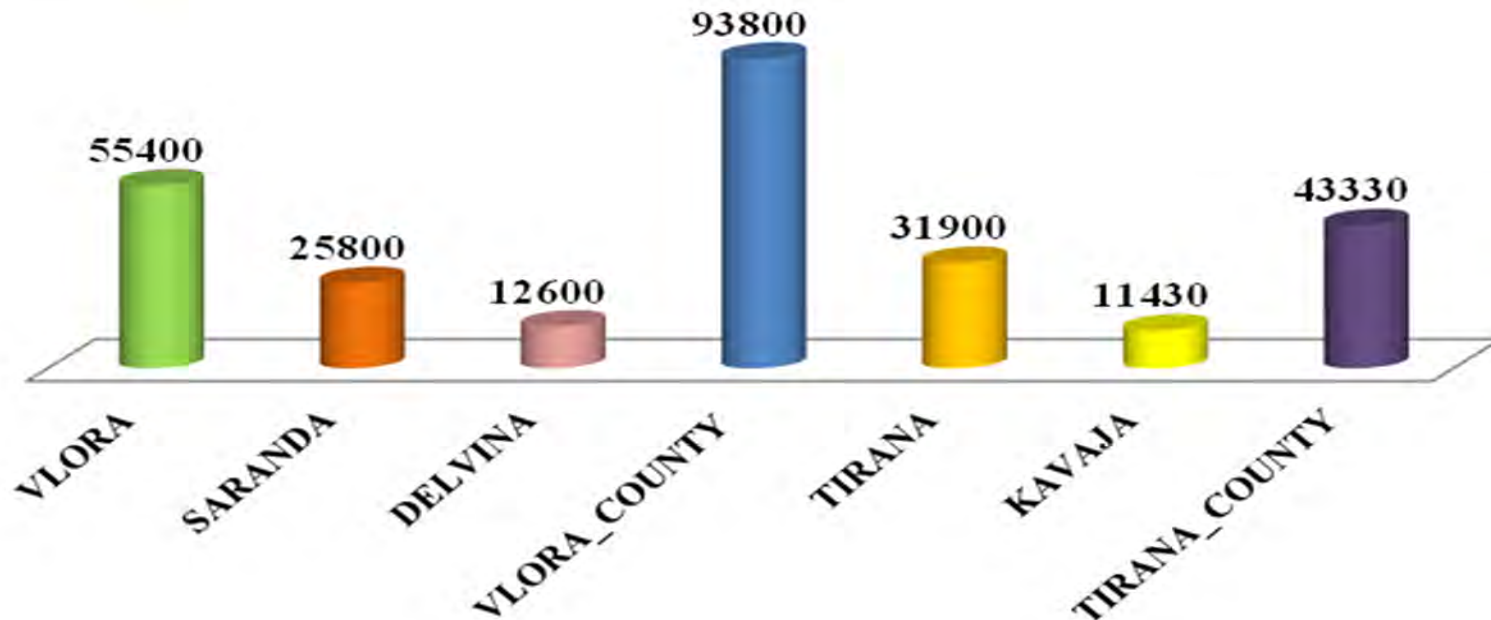
In Albania Olive tree tells the Illyrian people story as a Castle in Prague, in Berlin, London, Vienna, etc.

Old Olive trees inventoried only in two Counties (Vlora and Tirana)

STATUS OF OLD OLIVE TREES IN ALBANIA

Old olive trees (~ 1000-3000 years old)

■ VLORA ■ SARANDA ■ DELVINA ■ VLORA_COUNTY ■ TIRANA ■ KAVAJA ■ TIRANA_COUNTY



OLIVE TREE IN THE LANDSCAPE DECORATION



Madre Tereza Airport (Tirana)



What is happening??



Decorative objects from Trunk of Olive tree by artist **Muhamet Trepci** .
Source: National Museum, Tirana, Albania

LANDSCAPE DECORATION = DAMAGING ACTIVITY=GENETIC EROSION



What is happening??



&=Documentation Erosion

**What we have today,
will not be any more
tomorrow**

**Decorative activities
are damaging the
antique story of the
multi-century Olive
Trees, and
it is a pure Genetic
Erosion of Old Olive
Trees**

Thank you