



Federal Agency for
Agriculture and Food

Passport data quality and management in the framework of national and international reporting requirements

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- Introduction
- Reporting requirements
- Management aspects
- Data quality (completeness & correctness)
- Points for discussion



Introduction - PGR Scenery in Germany

National level

- PGR activities coordinated at national level
- National Programme established (March 2002)
- Genebanks with national responsibilities defined
- National Inventory for PGR
- Common standards for data exchange
- Agreement on cooperation
- National Focal Points



Introduction - PGR Scenery in Germany

Institution	Town	Collection
Institute for Plant Genetics and Crop Plant Research (IPK) (incl. branch stations for potato, oil and fodder plants, forages)	Gatersleben Groß-Lüsewitz Malchow	Miscellaneous; 148,000 accessions 3,000 species
Federal Centre for Breeding Research on Cultivated Plants (BAZ) – Institute of Fruit Breeding (IOZ)	Dresden-Pillnitz	Fruits 3,000 accessions 18 species
BAZ – Institute of Grapevine Breeding (IRZ)	Siebeldingen	Vine (<i>Vitis</i>) 3,800 accessions 32 species
Agricultural Technology Centre Augustenberg (LTZ) (branch station for tobacco)	Forcheim	Tobacco (<i>Nicotiana</i> sp.) 750 accessions, <i>N. tabacum</i> , <i>N. rustica</i> , 50 wild populations



Introduction - PGR Scenery in Germany

Under development / in implementation

Establishment of networks of collections for

- apple
- strawberry
- cherry

as part of a future Genebank for Fruits

Establishment of networks of collections for

- roses
- rhododendrons

as part of a future Genebank for Ornamentals

Establishment a network of grapevine collections as part of a future
Genebank for Grapevine



Reporting requirements

- National Work Programme on Plant Genetic Resources of Agricultural and Horticultural Crops
- EURISCO (MoU)
- GPA (priority area 17: Constructing comprehensive information systems for PGRFA)
- International Treaty (article 13.2 a “...information exchange...” & article 17 “...Global Information System...”)



National Inventory



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National Inventory on PGR in Germany - PGRDEU



The **National Inventory** on PGR in Germany is maintained and hosted at the Information and Coordination Centre for Biological Diversity (IBV)

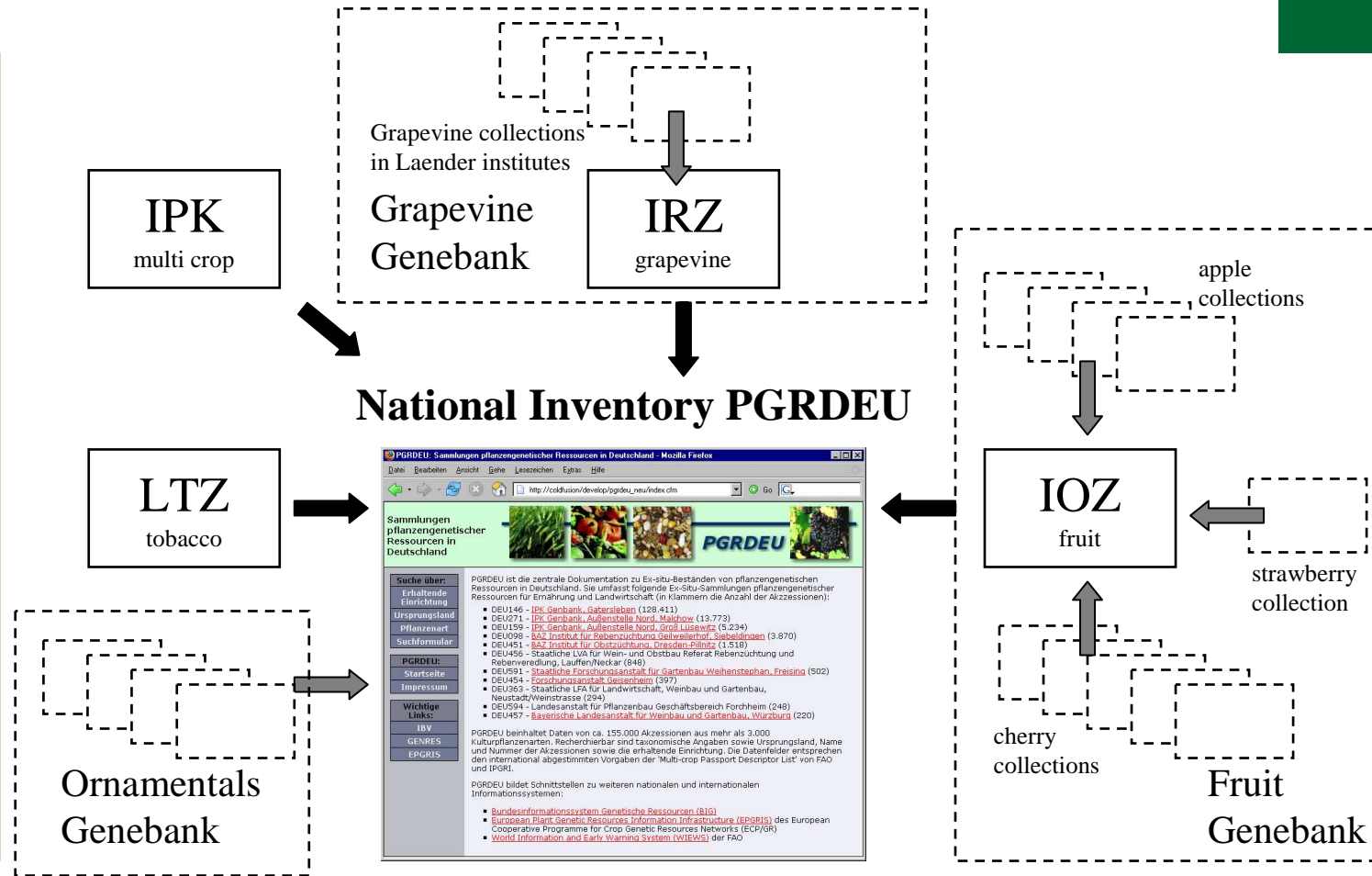
PGRDEU contains passport data for approximately more than 150.000 accessions in German *Ex situ* Collections (Genebanks)

For the future it is foreseen to enlarge PGRDEU also with data for *in situ* and on-farm PGR.

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Management of passport data flow at national level



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Management of passport data flow at national level

- Task sharing
- Agreements for Cooperation
 - ⇒ scope/ goals
 - ⇒ right and obligations (data provider and data recipient)
 - ⇒ update period
 - ⇒ data standards



Standards for data exchange

- Multi-crop Passport Descriptors (FAO/IPGRI 1997)
⇒ 19 descriptors
- Multi-crop Passport Descriptors (FAO/IPGRI 2001)
⇒ 28 descriptors
- **EURISCO Descriptors (2006)**
⇒ **33 descriptor**
↓
- *Draft German exchange standard for genebank networks (2006)*
⇒ *57 descriptor*



Data management

Microsoft Excel - DEU Rebsortimente2004 für ZADI 23 April 2004

File Edit View Insert Format Extras Data Window Help

Arial 10

	C	D	E	F	G	H	I	J	K	L	M
1				Sammlungsinst.							
2		Sammlungsnr	als Code		VITIS_ART				Verwendung	Eingangsname	PFLANZJAHR
3	2	3	4	5	6	7	8	9	10	11	12
4	ACCNUMB	COLLNUMB	COLLCODE	GENUS	SPECIES	SPAUTHOR	SUBTAXA	SUBTAUTHOR	CROPNAME	ACCENAME	ACGDATE
5	DEU98-1980-117			Vitis	vinifera	L.	var.			ABENDROETE	1985
6	DEU98-1980-118			Vitis	vinifera	L.	var.		wine grape;table grape	ABJOSH	1985
7	DEU98-1980-706			Vitis	vinifera	L.	var.		wine grape;table grape	ABLA AGANYN ISYUM	1995
8	DEU98-1980-448			Vitis	vinifera	L.	var.		wine grape	ABONDANT	1985
9	DEU98-1980-119			Vitis	vinifera	L.	var.		wine grape	ABOURIOU	1985
10	DEU98-1990-125			Vitis	vinifera	L.	var.		table grape	ADAKALKA	1990
11	DEU98-1988-014			Vitis	vinifera	L.	var.		table grape	ADMIRABLE DE COURTILLER	1988
12	DEU98-1991-095			Vitis	longii		var.			ADOBE	1991
13	DEU98-1992-074			Vitis	vinifera	L.	var.		wine grape	AFFENTHALER	1992
14	DEU98-2001-004			Vitis	vinifera	L.	var.		wine grape;table grape	AFUS ALI	2001
15	DEU98-1980-312			Vitis	vinifera	L.	var.		wine grape;table grape	AFUS ALI	1985
16	DEU98-1980-349			Vitis	vinifera	L.	var.		wine grape;table grape	AFUS ALI	1999
17	DEU98-1991-111			Vitis	vinifera	L.	var.		wine grape;table grape	AFUS ALI	1992
18	DEU98-1980-120			Vitis	vinifera	L.	var.		wine grape;table grape	AGADAI	1985
19	DEU98-1993-083			Vitis	I.C.		var.			AGARAKI	1993
20	DEU98-1980-883			Vitis	I.C.		var.		wine grape;table grape	AGAWAM	2003
21	DEU98-1980-493			Vitis	I.C.		var.		wine grape;table grape	AGAWAM	1985
22	DEU98-1994-074			Vitis	vinifera	L.	var.		wine grape	AGIORGITIKO	1994
23	DEU98-1998-106			Vitis	vinifera	L.	var.		wine grape;table grape	GRUENE SEIDENTRAUBE	1998
24	DEU98-2002-002			Vitis	vinifera	L.	var.		wine grape;table grape	AGOSTENGA	2002
25	DEU98-1980-328			Vitis	vinifera	L.	var.		wine grape;table grape	AGOSTENGA	1985
26	DEU98-1997-033			Vitis	vinifera	L.	var.		wine grape;table grape	SEIDENTRAUBE GRUEN 10/6	1997
27	DEU98-1980-071			Vitis	vinifera	L.	var.		wine grape;table grape	AGOSTENGA ROSA	1989
28	DEU98-1991-193			Vitis	vinifera	L.	var.		wine grape	AHELOI	1994
29	DEU98-1980-242			Vitis	vinifera	L.	var.		wine grape;table grape	AHMEUR BOU AHMEUR	1989
30	DEU98-1994-060			Vitis	vinifera	L.	var.		wine grape;table grape	AIREN	1994
31	DEU98-1993-218			Vitis	vinifera	L.	var.		table grape	AITONYCHI ASPRO	1993
32	DEU98-1988-062			Vitis	I.C.		var.		wine grape	ALB DE YALOVEN	1988
33	DEU98-1980-001			Vitis	vinifera	L.	var.		wine grape	ALBALONGA	1985
34	DEU98-1988-001			Vitis	vinifera	L.	var.		wine grape	ALBANA	1988
35	DEU98-1989-129			Vitis	I.C.		var.		wine grape	ALBANIA	1989
36	DEU98-2003-167			Vitis	I.C.		var.		wine grape	ALBENC	2003
37	DEU98-2003-163			Vitis	I.C.		var.		wine grape	ALBIGNAC	2003
38	DEU98-1994-061			Vitis	vinifera	L.	var.		wine grape;table grape	ALBILLO	1994
39	DEU98-1980-710			Vitis	vinifera	L.	var.		wine grape;table grape	ALBOURLA	1995
40	DEU98-1980-884			Vitis	I.C.		var.		wine grape;table grape;raisin	ALDEN	2003
41	DEU98-1980-494			Vitis	I.C.		var.		wine grape;table grape;raisin	ALDEN	1985



Data management - compilation of data

The diagram illustrates the data compilation process. On the left, three data sources are shown: IPK (Inventar der Produktion in der Landwirtschaft), IOZ (Inventar der Ökologischen Landwirtschaft), and an ellipsis representing other sources. Arrows point from these sources to a central Microsoft Access database window titled 'Microsoft Access - [PGRDEU_ACCESSION]'. The database window displays a table with the following columns: NICODE, INSTCODE, ACCEN, CROPNAME, ACCENAME, and ACCDA. The table contains a list of entries for various crop varieties, including Aegilops geniculata, Aegilops neglecta, Aegilops cylindrica, Aegilops speltoides, Aegilops tauschii, and Aegilops triuncialis. The table is divided into three horizontal sections: a green section (top), a blue section (middle), and a yellow section (bottom), corresponding to the data sources on the left.

NICODE	INSTCODE	ACCEN	CROPNAME	ACCENAME	ACCDA			
DEU	DEU146	AE 1006	Aegilops	geniculata	1990			
DEU	DEU146	AE 1007	Aegilops	geniculata	1990			
DEU	DEU146	AE 1010	Aegilops	geniculata	Roth	1990		
DEU	DEU146	AE 1011	Aegilops	geniculata	Roth	1990		
DEU	DEU146	AE 1012	Aegilops	geniculata	Roth	1990		
DEU	DEU146	AE 1013	Aegilops	geniculata	Roth	1990		
DEU	DEU146	AE 1014	Aegilops	geniculata	Roth	1990		
DEU	DEU146	AE 1016	Aegilops	neglecta	Req. ex Bertol. ssp. recta	(Zhuk.) K. Ham	1990	
DEU	DEU146	AE 1017	Aegilops	neglecta	Req. ex Bertol. ssp. recta	(Zhuk.) K. Ham	1990	
DEU	DEU146	AE 1018	Aegilops	neglecta	Req. ex Bertol. ssp. neglecta	(Zhuk.) K. Ham	1990	
DEU	DEU146	AE 1020	Aegilops	neglecta	Req. ex Bertol. ssp. recta	(Zhuk.) K. Ham	1990	
DEU	DEU146	AE 1021	Aegilops	neglecta	Req. ex Bertol. ssp. recta	(Zhuk.) K. Ham	1990	
DEU	DEU146	AE 1022	Aegilops	neglecta	Req. ex Bertol. ssp. recta	(Zhuk.) K. Ham	1990	
DEU	DEU146	AE 1023	Aegilops	neglecta	Req. ex Bertol. ssp. recta	(Zhuk.) K. Ham	1990	
DEU	DEU146	AE 1024	Aegilops	cylindrica	Host	Aegilops	1990	
DEU	DEU146	AE 1025	Aegilops	cylindrica	Host	Aegilops	1990	
DEU	DEU146	AE 1026	Aegilops	speltoides	Tausch	Aegilops	1990	
DEU	DEU146	AE 1027	Aegilops	neglecta	Req. ex Bertol.	Aegilops	1990	
DEU	DEU146	AE 1029	Aegilops	geniculata	Roth	Aegilops	1990	
DEU	DEU146	AE 1030	Aegilops	ventricosa	Tausch	Aegilops	1990	
DEU	DEU146	AE 1031	Aegilops	geniculata	Roth	Aegilops	1991	
DEU	DEU146	AE 1032	Aegilops	geniculata	Roth	Aegilops	1990	
DEU	DEU146	AE 1033	Aegilops	geniculata	Roth	Aegilops	1990	
DEU	DEU146	AE 1034	Aegilops	geniculata	Roth	Aegilops	1990	
DEU	DEU146	AE 1035	Aegilops	cylindrica	Host	Aegilops	1990	
DEU	DEU146	AE 1036	Aegilops	geniculata	Roth	Aegilops	1990	
DEU	DEU146	AE 1037	Aegilops	tauschii	Coss.	Aegilops	1990	
DEU	DEU146	AE 1038	Aegilops	tauschii	Coss.	Aegilops	1990	
DEU	DEU146	AE 1039	Aegilops	tauschii	Coss.	Aegilops	1990	
DEU	DEU146	AE 1040	Aegilops	tauschii	Coss.	Aegilops	1990	
DEU	DEU146	AE 1041	Aegilops	truncialis	L.	Aegilops	1990	
DEU	DEU146	AE 1042	Aegilops	cylindrica	Host	Aegilops	1991	
DEU	DEU146	AE 1043	Aegilops	geniculata	Roth	Aegilops	1991	
DEU	DEU146	AE 1045	Aegilops	lorentii	Hochst.	Aegilops	1991	
DEU	DEU146	AE 1046	Aegilops	truncialis	L.	Aegilops	1991	
DEU	DEU146	AE 1047	Aegilops	geniculata	Roth	ssp. geniculata	Aegilops	1991
DEU	DEU146	AE 1048	Aegilops	geniculata	Roth	Aegilops	1991	
DEU	DEU146	AE 1049	Aegilops	geniculata	Roth	Aegilops	1991	
DEU	DEU146	AE 1050	Aegilops	cylindrica	Host	Aegilops	1991	
DEU	DEU146	AE 1051	Aegilops	truncialis	L.	Aegilops	1991	
DEU	DEU146	AE 1052	Aegilops	geniculata	Roth	Aegilops	1991	
DEU	DEU146	AE 1053	Aegilops	truncialis	L.	Aegilops	1991	
DEU	DEU146	AE 1054	Aegilops	ventricosa	Tausch	Aegilops	1991	
DEU	DEU146	AE 1055	Aegilops	tauschii	Coss.	ssp. tauschii	Aegilops	1991
DEU	DEU146	AE 1056	Aegilops	neglecta	Req. ex Bertol.	Aegilops	1991	
DEU	DEU146	AE 1057	Aegilops	truncialis	L.	Aegilops	1991	
DEU	DEU146	AE 1058	Aegilops	geniculata	Roth	Aegilops	1991	
DEU	DEU146	AE 1059	Aegilops	geniculata	Roth	Aegilops	1991	
DEU	DEU146	AE 1060	Aegilops	geniculata	Roth	Aegilops	1991	
DEU	DEU146	AE 1061	Aegilops	neglecta	Req. ex Bertol.	Aegilops	1991	

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Data quality

The screenshot shows the PGRDEU web application interface. The browser title is "PGRDEU: Sammlungen pflanzengenetischer Ressourcen in Deutschland - Mozilla Firefox". The address bar shows the URL "http://coldfusion/develop/pgredeu_neu/index.cfm?menu=suchform&". The main content area has a header "Sammlungen pflanzengenetischer Ressourcen in Deutschland" with the PGRDEU logo. Below the header is a search form with the following fields:

- Einrichtung (MPDL:instcode):
- Ursprungsland (MPDL:origcty):
- Taxonomie:
 - Gattung (MPDL:genus):
 - Art (MPDL:species):
 - Infraspez.Name (MPDL:subtaxa):
- Akzessionsnummer (MPDL:accenumb):
- Akzessionsname (MPDL:accename):
- Andere Nummer (MPDL:othernumb):

There is a "Suchen" button at the bottom of the search form. On the left side, there is a sidebar with navigation options: "Suche über:", "Erhaltende Einrichtung", "Ursprungsland", "Pflanzenart", "Suchformular", "PGRDEU:", "Startseite", "Impressum", "Wichtige Links:", "IBV", "GENRES", "EPGRIS".

155,315 records
last update March 2007

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Descriptor	Percentage filled
ACCENUMB	100
GENUS	100
INSTCODE	100
STORAGE	99
SPECIES	99
ACQDATE	98
SAMPSTAT	98
CROPNAME	98
ACCEURL	95
NICODE	95
ORIGCTY	74
SPAUTHOR	72
ACCENAME	47
DONORCODE	44
SUBTAUTHOR	34
OTHERNUMB	32
DONORNUMB	31
COLLSITE	31
COLLDESCR	22
COLLNUMB	21
COLLDATE	15
ELEVATION	12
LATITUDE	5
LONGITUDE	5
COLLSRC	4
BREDDDESCR	2
ANCEST	2
DONORDESCR	1
BREDCODE	0
REMARKS	0
COLLCODE	0
DUPLDESCR	0
DUPLSITE	0

EURISCO
1,067,000 records

62 %

7 %
8 %
8 %



Data quality

eurisco
Finding seeds for the future

Welcome, dear colleague Germany, to the EURISCO UPLOAD Web site

This web site will allow you to import your national inventory file, view detailed reports (errors and warnings) and upload EURISCO web site with your imported data. You will be able to see only the information concerning the datasets you have submitted.

The left frame (menu) gives you the possibility to do the following:

- **User Profile:** change your password, your name and e-mail and your error profile setting (see explanations of each option below)
- **1. Import file:** import your national inventory file to this EURISCO upload web site. By clicking that link a new window will open with instructions on how to send the file. If the file was successfully received, an import session will be queued. At regular intervals, approximately every hour, all queued import jobs are run and the data is imported. Each time you send a new file it will replace the previous import.
- **2. View file transfer reports:** check if the import was successful
- **3. View file import reports:** consult all the generated errors and warnings and take appropriate action to correct them (by importing a corrected file). See below, details about the errors and warning status report.
- **4. View data before uploading to EURISCO:** consult the data that has passed correctly all the tests
- **5. Upload to EURISCO:** once you are satisfied with the results of your import session, you can upload to EURISCO web site and update with your latest upload. Note that updates will replace all previous data. The data will be in the public domain, according to the Terms and Conditions agreed by the Institute responsible for the national inventory in your country and IPGRI on behalf of ECP/GR in the Memorandum of Understanding (MoU). If you have not signed this MoU, IPGRI is not responsible for publishing your national inventory data.
- **Logout:** logout of the EURISCO upload intranet and go back to the home page.

A **status report** on errors and warnings is generated with the following definitions:

- **Warning:** an error occurred, but was not critical (e.g. an unknown descriptor is ignored).
- **Error:** an error occurred and action is taken according to your user profile (explained below).
- **Fatal error:** an internal error occurred and the session had to be aborted (e.g. the database crashed).

Error profiles are as follows:

- **Errors abort session:** any error will stop the import session, you will have to correct your dataset and submit it again.
- **Records with errors are skipped:** an error will prevent the import of the record, but the session will continue. This is the default profile.
- **Descriptors with errors are skipped:** if an error occurs, only the descriptor (field) where the error is found will be skipped. The record will still be imported and the session will continue.

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Please send any comments to the [ECP/GR Secretariat](#)

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Data quality

Mozilla Firefox

http://intranet.eurisco.ecpgr.org/index.php

ECPGR Homepage

http://intranet.eu...pgr.org/index.php



List of file import sessions

Germany

User	Session ID	Session start	Session end	Error management profile	Session status	Info	Processed records	Successful imports	Rejected records	Rejected records	Statistics
Germany	1224	Fri 20, Apr 2007, 02:00:00	Fri 20, Apr 2007, 03:13:50	Records with errors are skipped	Session has completed	Successful import	155313	153796	1517	by institute	show

Page 1/1

User profile

1. Import file
2. View file transfer reports
3. View file import reports
4. View data before uploading to EURISCO
5. Upload to EURISCO
6. View EURISCO updates report

Logout




Data quality

Mozilla Firefox

Datei Bearbeiten Ansicht Gehe Lesezeichen Extras Hilfe

http://intranet.eurisco.ecpgr.org/index.php

ECPGR Homepage http://intranet.eu...pgr.org/index.php



Download rejected records by institute

Germany

Session ID: 1224

By pressing the link under "Rejected records" a tab-delimited file of all rejected records will be downloaded. Look in the downloaded file for text such as {Error: Some message} under the descriptor columns for details on all errors and warnings.

Institute code	Download rejected records
DEU098	978
DEU146	32
DEU271	15
DEU363	11
DEU451	5
DEU456	120
DEU533	347
DEU594	9

Page 1/1

User profile

1. Import file
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Logout



Data quality

Mozilla Firefox

http://intranet.eurisco.ecpgr.org/index.php

ECPGR Homepage

Summary of file import errors by descriptor

Germany

Session ID: 1224

Descriptor	Errors	Warnings
ACQDATE	0	14726
DONORCODE	882	0
LATITUDE	1	0
LONGITUDE	7	0
ORIGCTY	21	0
OTHERNUMB	11	0
No descriptor	603	0

Page 1/1

- User profile
- 1. Import file
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- 3. View file import reports
- 4. View data before uploading to EURISCO
- 5. Upload to EURISCO
- 6. View EURISCO updates report
- Logout

Microsoft Excel - Deu098

E1	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
4	COLLSRC	DONORCODE	DONORNUMB	OTHERNUMB	DUPLSITE	STORAGE	REMARKS	COLLDESCR	BREDESCF	DONORDESC	DUPLDESCR	ACCEURL
5	40	USA02 (Error: Unknown DONORCODE code)				20						
6	40	USA02 (Error: Unknown DONORCODE code)				20						
7	40	YUG01 (Error: Unknown DONORCODE code)				20				Rességuier, France		
8	40	CAND2 (Error: Unknown DONORCODE code)				20				E. S. Rogers, Salem, Massachusetts		
9	40	CAND2 (Error: Unknown DONORCODE code)				20				New York State Agricultural Experiment Station, Geneva		
10	40	CAND2 (Error: Unknown DONORCODE code)				20				Albert Seibel, Aubenas, Ardèche		
11	40	FRA139				20				Francois Baco, France		
12	40					20				Francois Bac Universität Hohenheim		
13	40	CAND2 (Error: Unknown DONORCODE code)				20				D. H. Scott, USDA, Agr. Exp. Sta. Beltsville, Maryland		
14	40	CAND2 (Error: Unknown DONORCODE code)				20				J. Einset, New York State Agricultural Experiment Station,		
15	40	CAND2 (Error: Unknown DONORCODE code)				20				G. D. Oberle, Virginia Polytech Inst., Blacksburg, Virginia		
16	40	CAND2 (Error: Unknown DONORCODE code)				20				Albert Seibel, Aubenas, Ardèche		
17	40	CAND2 (Error: Unknown DONORCODE code)				20				H. G. Cook, Shrewsbury, Massachusetts		
18	40	CAND2 (Error: Unknown DONORCODE code)				20				New York State Agricultural Experiment Station, Geneva		
19	40	CAND2 (Error: Unknown DONORCODE code)				20				A. J. Caywood, Malboro, New York		
20	40	CAND2 (Error: Unknown DONORCODE code)				20				J. Rommel, Morrison, Missouri		
21	40	CAND2 (Error: Unknown DONORCODE code)				20				W. Saunders, Ottawa		
22	40	FRA038				20				Joanny Burdin, France		



Points for discussion

- Increasing number of descriptors
- Heterogeneity of stakeholders interest
- Quality (completeness & correctness)
- exchange format / descriptor standards



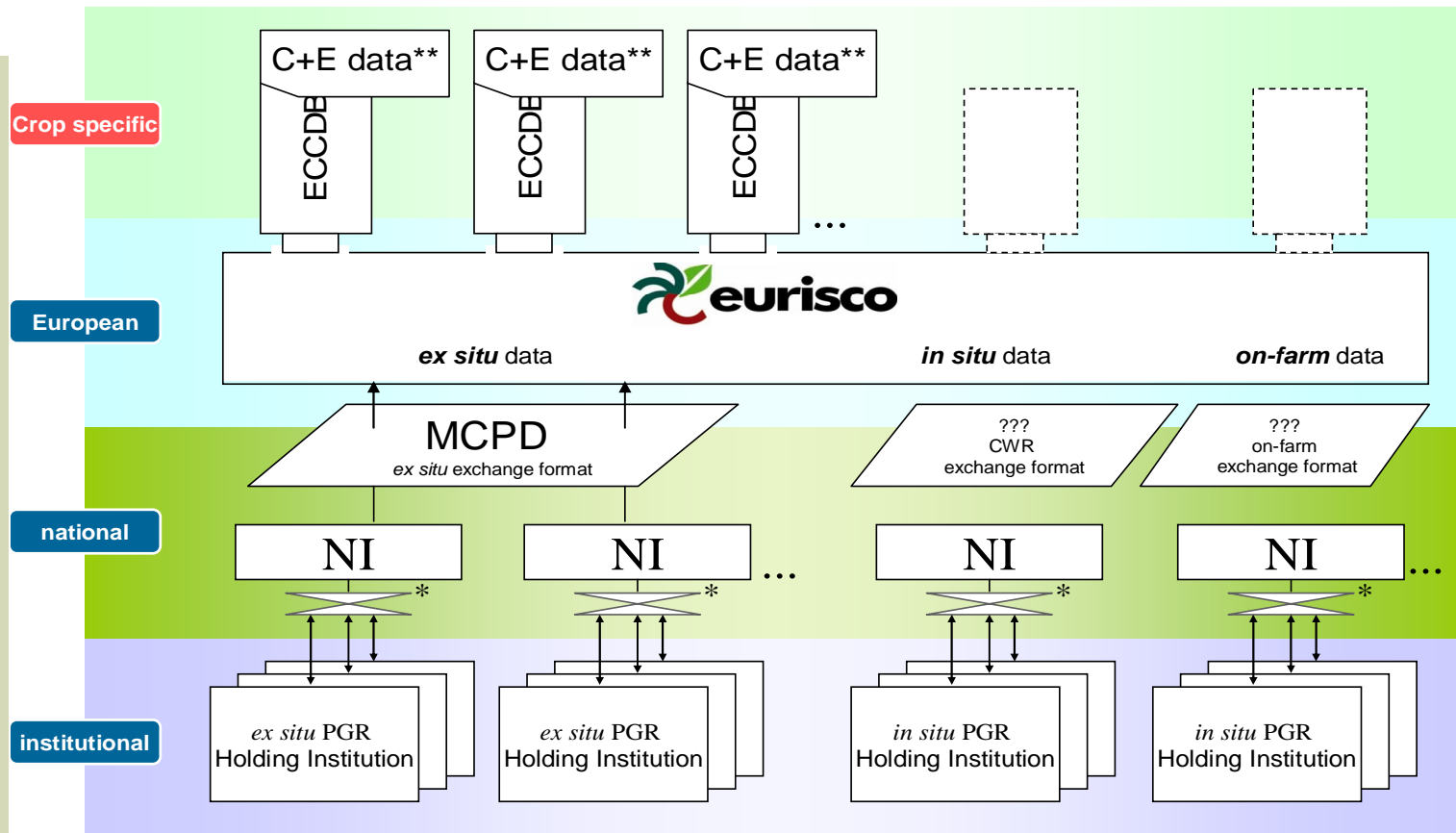
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Thank you.....

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PGR data flow in Europe



*At the discretion of the National Focal Point ** data flow for char. & evaluation data to be discussed

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