



# *In situ* CWR populations in EURISCO – update

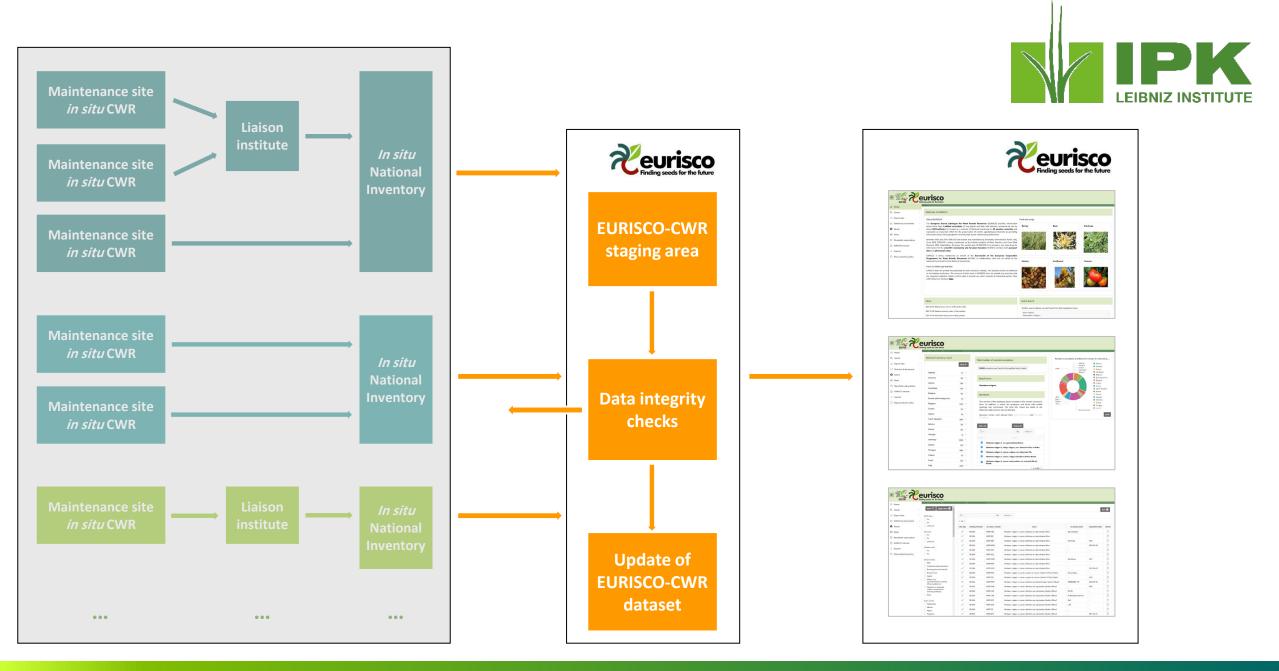
Project meeting, 12<sup>th</sup> December 2023, online





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## Data flow from CWR-NI to EURISCO



- Actively conserved populations
  - Focus on populations that can be made available to users in principle
  - Probably those that are "actively conserved"
    - Likely to exist
    - Location is known
    - Management institution/person that can be approached to access the material
- Access to in situ material
  - There should be a designated pathway to approach managing/liaison institute
    - Get information about how to obtain material
    - Get information about terms and conditions
- What information can be shared with EURISCO?
  - Local decision
    - Which populations should be made visible?
    - Which data should be shared?

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## Steps to integrate data into EURISCO



- Descriptors for uploading *in situ* CWR passport data
- Upload to EURISCO
  - By an authorised CWR Focal Point (can be the *ex situ* NFP or another)
  - In situ CWR data separated from ex situ data
- Database schema extension
- Development of import tool for *in situ* CWR data
- Development of procedures for data integrity checks and data integration
- Web interface extension

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- Compilation of EURISCO *in situ* CWR passport data standard
  - Mapping of CWR information on current EURISCO structure
  - CWR population considered similar to an *ex situ* accession
  - 28 descriptors
  - Standard description + Excel template available
  - After user feedback some small adaptations done (SITEPROT, CONSACTION)





2022-11-02

#### 1 Introduction

This descriptor list describes the data exchange format for uploading passport data from the National Inventories for *in situ* CWR to EURISCO.

The descriptors in this list are a selection from those of the *ex situ* format for upload, with the addition of a few. In case the descriptor name or description is deviating from the *ex situ* upload format, this is indicated in the description.

A significant departure from the *ex situ* data exchange format is the concept of an *in situ* CWR population being an accession. As a result, the population identifiers becomes the ACCENUMB in EURISCO, and the managing institute code and name the INSTCODE/INSTNAME, respectively.

The mandatory fields are, similarly to the *ex situ* upload format, NICODE, INSTCODE, ACCENUMB and GENUS. The combination of these fields has to be unique.

#### 2 General formatting rules

The general formatting rules that apply to the ex situ data also apply to the in situ data:

- If a field allows multiple values, these values should be separated by a semicolon (;) without space (e.g. Accession name: Symphony;Emma;Songino).
- A field for which no value is available should be left empty (e.g. Elevation). If data are exchanged in ASCII format, a field with a missing numeric value should be left empty. If data are exchanged in a database format, missing numeric values should be represented by generic NULL values.
- Dates are recorded as YYYYMMDD. If the month or day is missing, this should be indicated with hyphens or '00' [double zero]. If both (month and day) are missing, two double zeros are needed (e.g. 19750000; 197506--, 19750600).
- Country names: Three-letter ISO codes are used for countries. The ISO 3166-1 standard country or area codes are available online at: <u>https://unstats.un.org/unsd/methodology/m49/</u>.
   Note: The list of obsolete codes can be found at: <u>http://en.wikipedia.org/wiki/ISO 3166-1 alpha-3#Reserved code elements</u>.
- For institutes, the codes from FAO WIEWS should be used. The current set of institute codes is available from the FAO WIEWS site (<u>http://www.fao.org/wiews)</u>.
- If new institute codes are required, they can be generated online by FAO National Focal Points (http://www.fao.org/agriculture/crops/thematic-sitemap/theme/seedspgr/gpa/national-focal-points/en/) or they can be requested from: WIEWs@fao.org.
- In case no FAO WIEWS code of the institution responsible for, and/or organization that manages the CWR population is available and cannot be generated, the code ('DUMMY') can be used.
- For institutes that no longer exist, or that were not assigned a FAO WIEWS institute code, please
  provide full details in the descriptors INSTNAME and LIAISONNAME, respectively.

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- Database schema extension done
- Development of PL/SQL packages for...
  - ...data upload
  - ...data integrity checks
  - ...data integration
  - $\rightarrow$  Done. Last tests of integration package still running.



- Development of upload mechanism
  - Preparation of MS Excel file using the EURISCO *in situ* CWR data standard
  - Upload via the EURISCO intranet
  - Upload by CWR Focal Point
  - Pure web-based upload of data
    - No third-party software needed
    - No specific firewall settings needed

ECP GR		Urisco ing seeds for the future			
€ <sub>q</sub> Search	>	Welcome to EURISCO			
🖳 Export data	>	About EURISCO	Featured crops		
└─ <sup>3</sup> Statistics & documents	>	The European Search Catalogue for Plant Genetic Resources (EURISCO) provides information about more	Barley	Bean	Chickpea
Q About	>	than 2 million accessions of crop plants and their wild relatives, preserved ex situ by about 400 institutes. It is			
DE News		based on a network of National Inventories of 43 member countries and represents an important effort	10 Spec		
□ Newsletter subscription		for the preservation of world's agrobiological diversity by providing information about the large genetic diversity	DUZ K		
🕀 EURISCO intranet		kept by the collaborating institutions.			
i Imprint		Between 2003 and 2014, EURISCO was hosted and maintained by Bioversity International, Rome, Italy, Since	Potato	Sunflower	Tomato
<ul> <li>Data protection policy</li> </ul>		2014, EURISCO is being maintained at the Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), Gatersieben, Germany, The central goal of EURISCO is to provide a one-stop-shop for information for the scientific community and for plant breeders. EURISCO contains both passport data and phenotypic data.			

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- Interface separated from *ex situ* data upload, but same design
- As simple as possible

• Done, but not yet publicly available

	Upload file		Integrity Checks	Integrity Checks Fin.	
Third Step : Integrity	· Checks				
		fied data into EURISCO is to perform es, all errors will be listed (grouped by	data integrity checks. In the report below, you can see the descriptor).	he current import status of your dat	a (setup finished, in
		-,,			
Qv	Go R	ows 50 V Actions V		🔶 Upload Another	File Final Decision
					1 - 1
File Uploaded	National Inventory	FileName	Notification Email	Import Finished	Import Statu
08-DEC-2022 12:45:39	DEU	Example data for testing2.xlsx	weise@ipk-gatersleben.de	08-DEC-2022 12:45:39	Setup Finished
06-DEC-2022 16:18:14	DEU	Example data for testing5.xlsx	weise@ipk-gatersleben.de	06-DEC-2022 16:18:14	Setup Finished
06-DEC-2022 11:01:33	DEU	Example data for testing5.xlsx	weise@ipk-gatersleben.de	06-DEC-2022 11:01:33	Setup Finishee
06-DEC-2022 11:01:23	DEU	Example data for testing4.xlsx	weise@ipk-gatersleben.de	06-DEC-2022 11:01:23	Setup Finished
06-DEC-2022 10:59:17	DEU	Example data for testing2.xlsx	weise@ipk-gatersleben.de	06-DEC-2022 10:59:17	Setup Finished
	DEU	Example data for testing.xlsx	weise@ipk-gatersleben.de	06-DEC-2022 10:58:29	Setup Finished
06-DEC-2022 10:58:29			weise@ipk-gatersleben.de	17-NOV-2022 10:03:17	Setup Finished
06-DEC-2022 10:58:29 17-NOV-2022 10:03:17	DEU	Example data for testing5.xlsx	·······		

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# **Still ongoing**

• Web interface extension

- Training of country Focal Points in charge of *in situ* CWR data
  - Online workshops/webinars
  - Helpdesk function

• Public awareness products  $\rightarrow$  ECPGR Secretariat

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### **Production data**

- Datasets provided so far:
  - NLD
  - BGR
  - DEU
  - ESP
- Used for final tests
- Will be available online in EURISCO soon