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Enhancing the central ECPGR information system for *in situ* CWR data

Ad hoc Crop Wild Relatives Working Group Meeting
13–15 December 2022, Thessaloniki, Greece

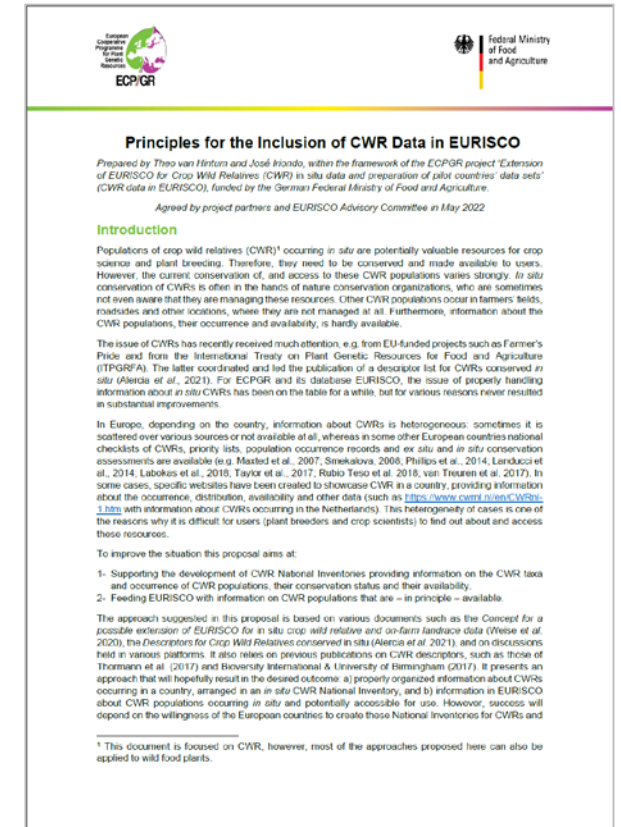


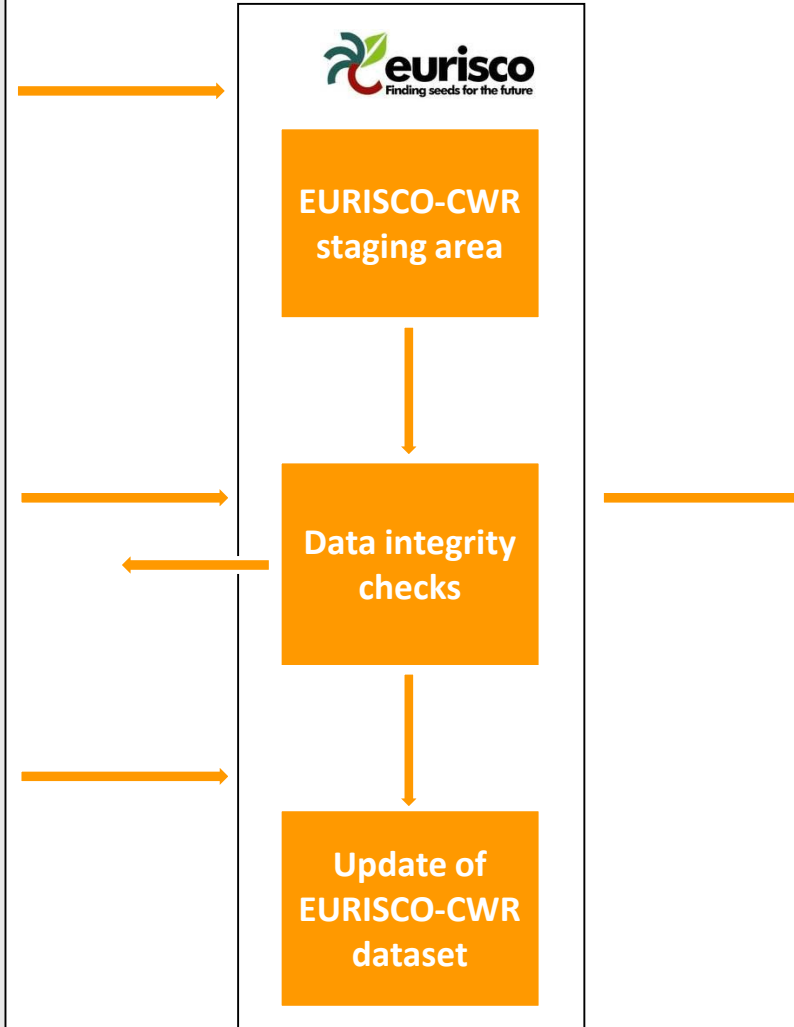
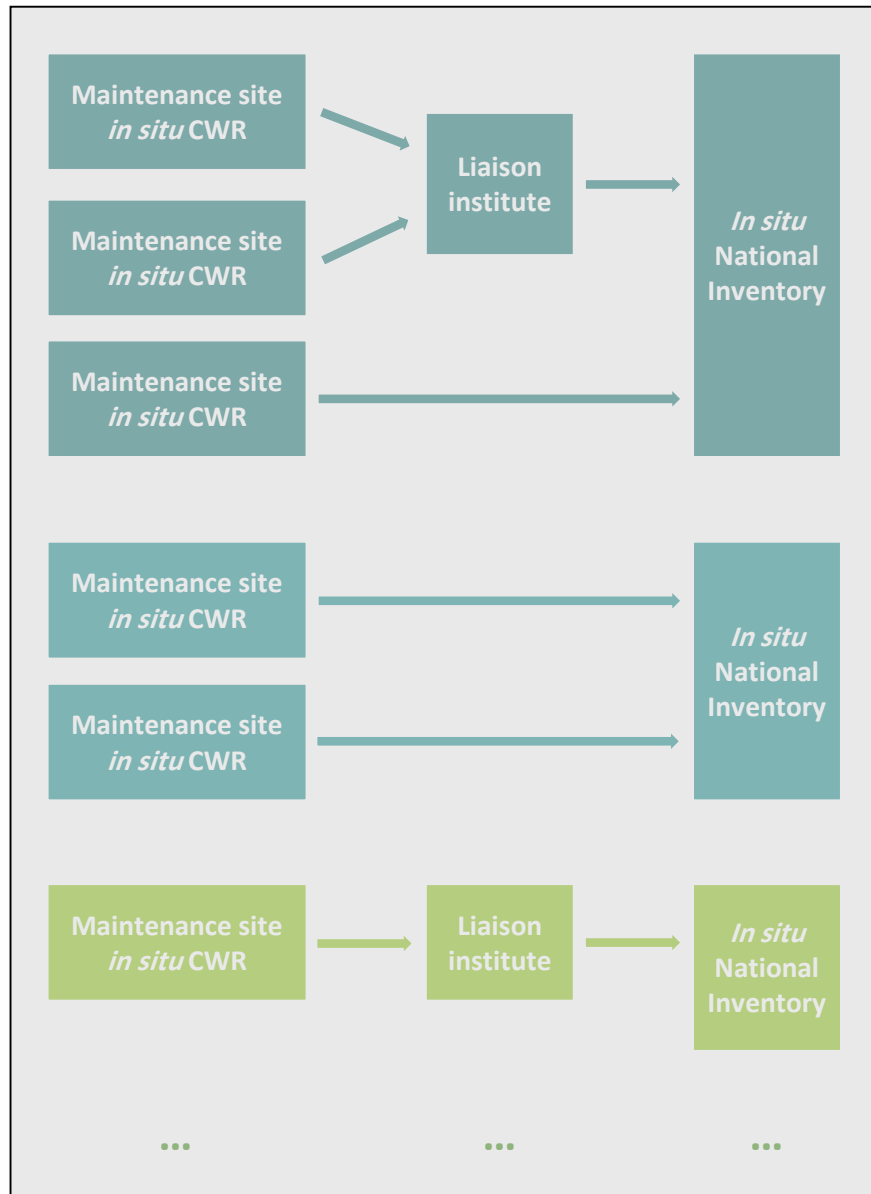
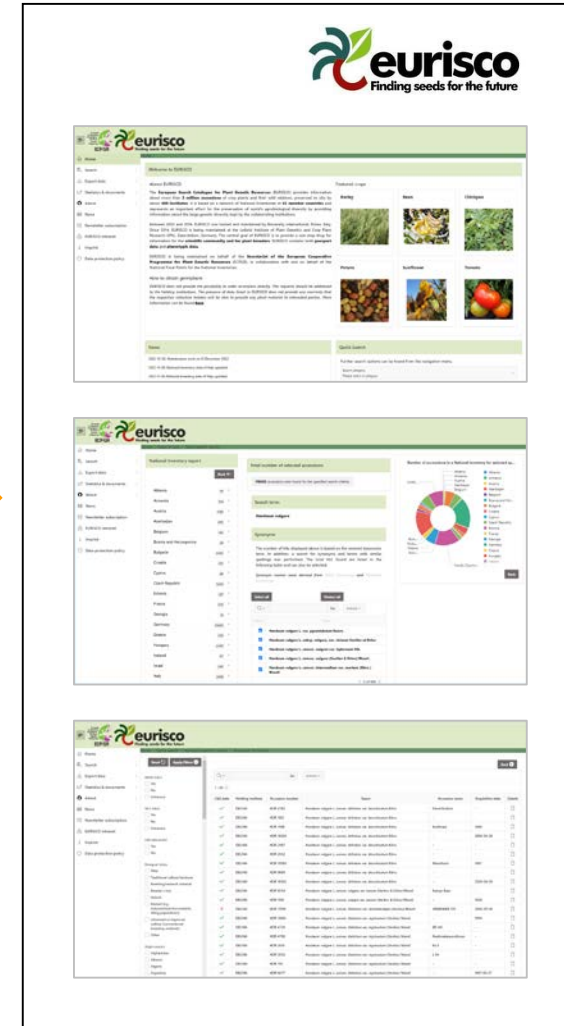
Background

- Definition of principles of data inclusion in EURISCO (T. van Hintum/J. Iriondo)

→ approved by project partners + EURISCO AC

- To do:
Implementation of data integration + extension of public web interface → 10/2022 – 12/2023



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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 according to user requirements

Recent developments

- 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
 - Population ID like the accession number
 - New concept: institute for liaison between potential user and managing organisation
 - Other EURISCO descriptors can be used for *in situ* CWR data
→ slightly wider interpretation
 - Additional status terms for some of the descriptors
- 28 descriptors
- Standard description + Excel template available



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Descriptors for uploading *in situ* CWR passport data to EURISCO

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.

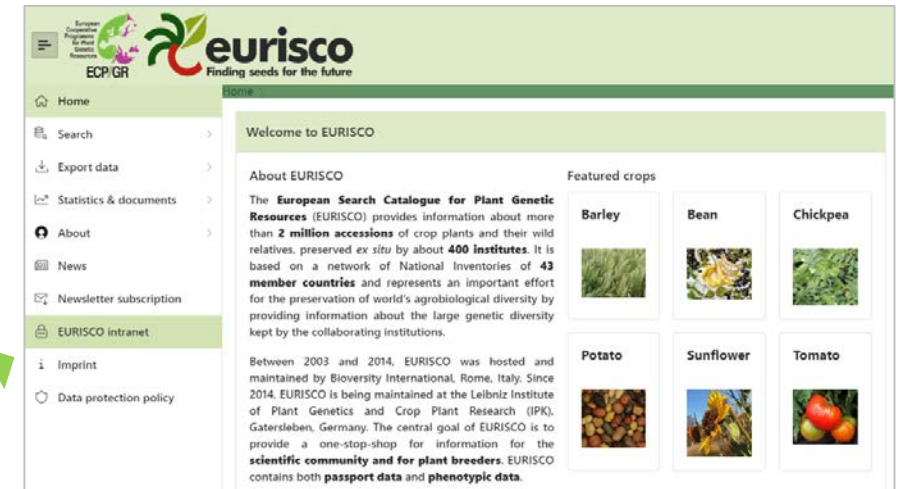
2 General formatting rules

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: <https://unstats.un.org/unsd/methodology/m49/>.
Note: The list of obsolete codes can be found at: http://en.wikipedia.org/wiki/ISO_3166-1_alpha-3#Reserved_code_elements.
- For institutes, the codes from FAO WIEWS should be used. The current set of institute codes is available from the FAO WIEWS site (<http://www.fao.org/wIEWS>).
 - 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/seed-pgr/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.

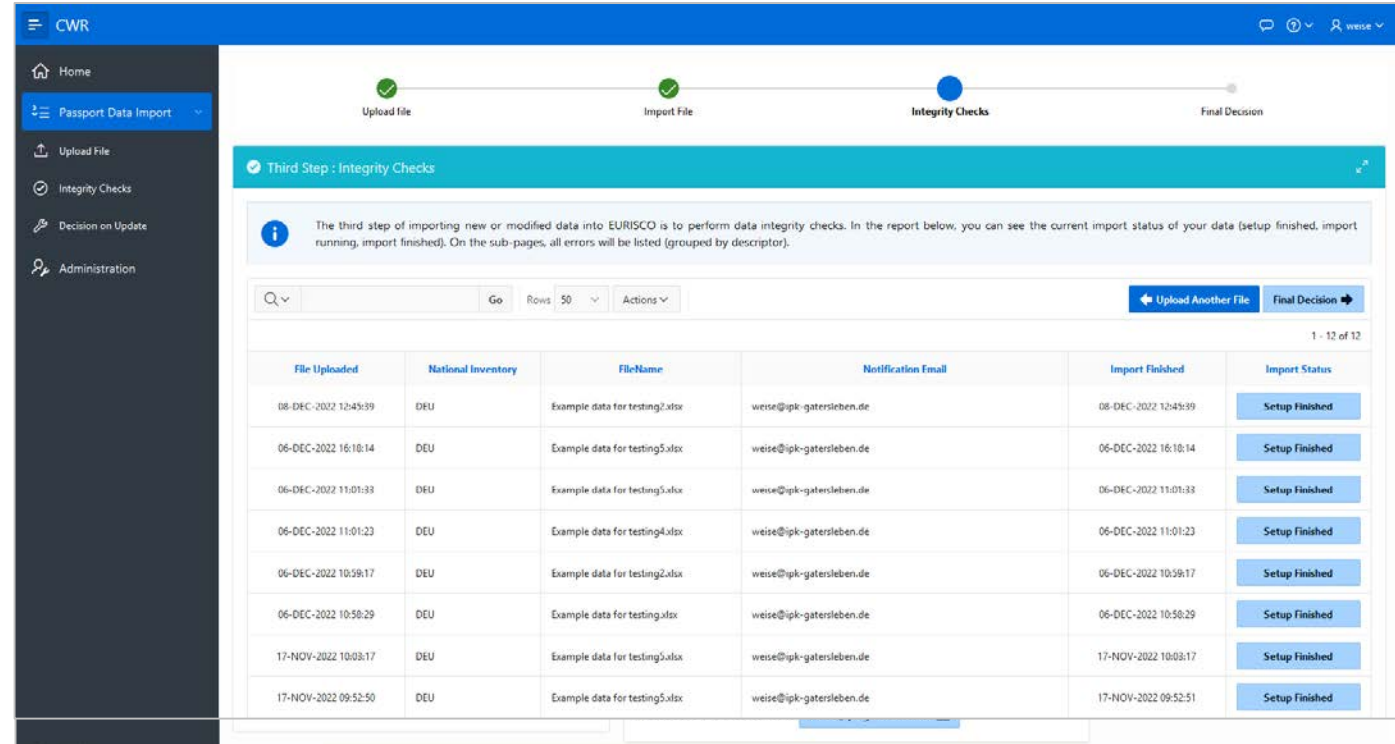
Recent developments

- 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



Recent developments

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



The screenshot displays the 'CWR Passport Data Import' interface. A progress bar at the top shows four steps: 'Upload file' (completed), 'Import File' (completed), 'Integrity Checks' (current step), and 'Final Decision' (pending). The main content area is titled 'Third Step : Integrity Checks' and contains an information message: 'The third step of importing new or modified data into EURISCO is to perform data integrity checks. In the report below, you can see the current import status of your data (setup finished, import running, import finished). On the sub-pages, all errors will be listed (grouped by descriptor).' Below the message is a table with columns: 'File Uploaded', 'National Inventory', 'FileName', 'Notification Email', 'Import Finished', and 'Import Status'. The table lists eight data import records, all with a 'Setup Finished' status.

File Uploaded	National Inventory	FileName	Notification Email	Import Finished	Import Status
08-DEC-2022 12:43:39	DEU	Example data for testing2.xlsx	weise@ipk-gatersleben.de	08-DEC-2022 12:43:39	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 Finished
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
06-DEC-2022 10:58:29	DEU	Example data for testing.xlsx	weise@ipk-gatersleben.de	06-DEC-2022 10:58:29	Setup Finished
17-NOV-2022 10:03:17	DEU	Example data for testing5.xlsx	weise@ipk-gatersleben.de	17-NOV-2022 10:03:17	Setup Finished
17-NOV-2022 09:52:50	DEU	Example data for testing5.xlsx	weise@ipk-gatersleben.de	17-NOV-2022 09:52:51	Setup Finished

What's next?

- Database schema extension
- Development of procedures for data integrity checks and data integration
- Web interface extension according to user requirements

- Training of country Focal Points in charge of *in situ* CWR data
 - Online workshops/webinars
 - Helpdesk function
- Public awareness products → ECPGR Secretariat



M. Grau / IPK

Thank you for your attention