

<b>Project:</b>	EURISCO	<b>Date:</b>	2023-02-13
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This document describes the work packages to be processed in 2023 for hosting and maintaining the European Search Catalogue for Plant Genetic Resources (EURISCO), and for coordinating the EURISCO network.

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## 1 Work plan for the EURISCO development

### 1.1 WP1: Extension of the intranet support mechanisms for data providers (permanent activity)

#### 1.1.1 EURISCO update mechanism for *ex situ* passport data

The upload/update mechanism for *ex situ* passport data will be continuously maintained and further developed. In particular, the reports for data providers (errors that occurred, deletion candidates, taxonomy mapping) will be made clearer and more intuitive.

#### 1.1.2 EURISCO update mechanism for phenotypic data

The same applies to the upload/update mechanism for phenotypic data. This was revised only last year. The expected feedback will be taken up and incorporated into the continuous further development.

#### 1.1.3 Extension of EURISCO backend for *in situ* CWR passport data

The extension of EURISCO to include *in situ* CWR passport data was started in October 2022. In addition to the development of the mechanism for the web-based upload of data into the EURISCO staging area, the data integrity checks based on this have already been partially implemented. This implementation will be completed and extensively tested in 2023.

The next step will be the necessary extension of the EURISCO database schema. This is particularly relevant with regard to extended/new concepts such as storage type, institution names, liaison institute data, population source and information on site protection and conservation actions.

Subsequently, the update procedures necessary to apply the data checked in the staging area to the actual EURISCO schema will be developed and tested.

#### 1.1.4 Update how-to documents

In connection with the developments described above, the guidelines for data providers will be updated and, in the case of *in situ* CWR data, newly created, respectively.

### 1.2 WP2: Extension of functionality of the public EURISCO application (permanent activity)

#### 1.2.1 Continuous development of the existing public web interface

In addition to necessary bug fixes and performance tuning, the public web interface of EURISCO is continuously being expanded. This is done on the basis of feedback/wishes from the users of the system. The following extensions are planned:

- Provision of a data dictionary to better explain the column headings used in the various reports.
- Development of an additional export mechanism for *ex situ* passport data in CSV format. Currently, a full dump is provided in MS Access format. As the CSV format is widely used in the life sciences, this additional facility will be created.

- Integration of additional charts for better visualisation on different pages.
- Implementation of a search functionality for phenotypic data by cropname. So far, the search is only possible by scientific name. As the search for passport data by cropname implemented in 2022 has proven successful, this will also be implemented for phenotypic data.
- Check whether a search for passport data at genus level can be implemented in a meaningful way. Such a functionality was already implemented in the past, but was deactivated during the development of the automatic taxonomy mapping because the species information was absolutely necessary to achieve the most comprehensive results possible. Due to various requests, it should nevertheless be evaluated whether and to what extent a pure genus-based search can be implemented, e.g. in a simplified form.

In addition, changes and additions will be made on an ongoing basis.

### 1.2.2 Extension of EURISCO frontend for *in situ* CWR passport data

In connection with the extension of EURISCO for *in situ* CWR data already mentioned above, it is necessary to extend the public web interface as well. This includes in particular:

- Search and filtering possibilities
- Visualisation capabilities
- Separate export options for *in situ* CWR data

Furthermore, it is important to carry out performance tuning for these extensions in order to provide users with short response times.

### 1.3 WP3: Documentation and planning of the next steps

In parallel to the implementation processes, all developments will be documented.

Furthermore, the next development steps (WP1-2) will be specified in detail.

## 2 Schedule

	Work package	2022			
		Q1	Q2	Q3	Q4
1	<b>Intranet support mechanisms for data providers</b>				
	Maintenance of the EURISCO update mechanism for <i>ex situ</i> passport data				
	Maintenance of the EURISCO update mechanism for phenotypic data				
	Extension of EURISCO backend for <i>in situ</i> CWR passport data				
	Update how-to documents				
2	<b>Extension of functionality of public application</b>				

	Continuous development of the existing public web interface				
	Extension of EURISCO frontend for <i>in situ</i> CWR passport data				
<b>3</b>	<b>Documentation and planning</b>				

### 3 Coordination tasks

#### 3.1 Coordination task 1: EURISCO network development maintenance

As in previous years, contact with (potential) EURISCO stakeholders will be intensified as a continuous activity in 2023. The aim is to raise awareness of EURISCO among breeders, researchers and also at the political level by demonstrating the potential of this common European approach. In this context, public awareness materials will be continuously updated. Opportunities to present EURISCO (posters, lectures) will be exploited.

The EURISCO fact sheets are outdated and will be updated.

In addition, feedback to EURISCO users will be provided through the regular publication of the EURISCO newsletter (e-bulletin). We intend to again publish a newsletter twice a year (June/December).

This will be complemented by direct, personal communication with users, e.g. for supporting updates, providing specific database queries and special data export formats, discussing future developments, etc. An important task in this context is to provide data sets that have been missing or incomplete in EURISCO so far. We will work on identifying gaps and developing ideas on how to close them.

In addition, an update of the existing passport data is aimed for at least once a year. Those National Inventory Focal Points whose last update was longer ago will therefore be specifically approached and supported in a targeted manner.

Training workshops for data providers take place every two years, so another training will be organised in 2023. Preliminary discussions have already been held with partners for the local organisation. In addition to a general training for new National Inventory Focal Points, one main topic of the training will be the new upload/update mechanism for phenotypic data that was implemented in 2022. Another focus will be on the subject of data quality. Corresponding training materials will be updated or newly created in parts.

After the completion of the EURISCO extension for *in situ* CWR data (see above), another training will be organised on this topic probably in the second half of the year. This will take the form of an online workshop only.

#### 3.2 Coordination task 2: Coordination of the EURISCO development

The coordination of the future EURISCO development mainly comprises (i) the definition of new services, (ii) the advancement of current standards and (iii) the discussion and definition of new standards.

For reaching common goals, the EURISCO coordination will explore all possibilities for coordination with initiatives such as Genesys and the GLIS under the International Treaty, respectively.

In order to improve the coverage of EURISCO, we will focus on bilateral communication with the respective National Focal Points / National Coordinators. This will be a permanent activity. In this context, the EURISCO coordination will participate in activities under the ECPGR Grant Scheme.

To plan the further development of EURISCO, we will specifically collect user requirements. On the one hand, this will be done through a standardised survey. On the other hand, we will conduct one or two structured interviews with power users.

### **3.3 Coordination task 3: Participation in project proposals**

An indispensable task of the EURISCO coordination is to participate in the preparation of project proposals in order to acquire additional funding for the future development of EURISCO.

Support/supervision will be provided for ongoing projects. Currently, the EURISCO coordination participates in the Horizon 2020 project “AGENT” (deputy work package lead, task lead).

In addition, the EURISCO coordination is involved in the Horizon Europe project “Promoting a Plant Genetic Resource Community for Europe” (PRO-GRACE) from January 2023 (work package lead). This project aims to develop a concept and proof-of-concept actions for the establishment of a large European Research Infrastructure for plant genetic resources. In this context, the EURISCO coordination will focus on information standards.

For the extension of EURISCO to include *in situ* CWR passport data (see above), the EURISCO coordination has a number of tasks, in particular coordinating the exchange of data between EURISCO and the national authorities (data standard, training, general support), the extension of the EURISCO infrastructure and the adaptation of the public user interface.

A considerable amount of time will be involved in the management and supervision of the activities within the context of the third-party funds raised.