



Project no. 018340

Project acronym: EDIT

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Instrument: Network of Excellence

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C3.2.9 Progress report on linking Pan-European Species-directories Infrastructure with structures outside Europe

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Dissemination Level ("X" in the relevant box)		
PU	Public	
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	X
CO	Confidential, only for members of the consortium (including the Commission Services)	

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Introduction

Context of the report

The EDIT C3.2.4 roadmap report¹, prepared in collaboration with PESI² and GBIF-ECAT³, provided a roadmap on how the Pan-European Species-directories Infrastructure (PESI) would be linked with structures outside Europe. This follow-up report will evaluate the state of affairs at the end of the EDIT project and also considers some recent developments on cross-linking the PESI (European) Taxonomic Backbone towards other biodiversity information systems as part of some newly funded EC FP7 projects.

Work plan progress

GNA cross-linking progress

At the end of January the last versions of the pan-European checklists have been delivered by the checklists custodians for import into EDIT's Cybertaxonomy Platform⁴ - Common Data Model⁵ store (CDM store) (see ❶ in Fig.1). After import into the CDM store these checklists will be integration into the PESI Data Warehouse (see ❷ in Fig.1). This process will be completed around the mid of March and deliver the final version of the PESI European Taxonomic Backbone, as a formal output of the PESI project, which also will be implemented into the PESI portal (see ❸ in Fig.1). For more details see also EDIT C3.2.4 and EDIT C3.2.8.

As explained in the EDIT C3.2.4 report, the PESI Data Warehouse will be exported as a *Darwin Core Archive* (DwC-A) file⁶ and registered at GBIF's metadata registry (GBRDS)⁷ (see ❹ in Fig.1). The EDIT Platform for Cybertaxonomy will install the appropriate services to allow harvesting. Also an extended meta-data document, describing the respective checklists meta-data profile, will be included in the package with the DwC-A file for incorporation into GBIF's meta-data repositories.

So far the only deviation from the described process is that the integration of the projected AlgaeBase⁸ contribution will be postponed until later this year, because the provisioned checklist of European Desmids could not be finished on time. In addition, it was decided during the last SMEBD council and PESI SC meetings in Paris that a separate MoU between GBIF and PESI on sharing the integrated PESI data set should be drafted.

¹ <http://www.e-taxonomy.eu/node/728>

² <http://www.eu-nomen.eu/pesi>

³ <http://code.google.com/p/gbif-ecat> & <http://www.gbif.org/informatics/name-services>

⁴ <http://wp5.e-taxonomy.eu>

⁵ <http://dev.e-taxonomy.eu/trac/wiki/CommonDataModel>

⁶ <http://code.google.com/p/gbif-ecat/wiki/DwCArchive>

⁷ <http://www.gbif.org/informatics/infrastructure/discovering>

⁸ <http://www.algaebase.org>

Individual internationalisation of checklists

Apart from the above described cross-linking of the PESI Taxonomic Backbone, also the individual pan-European checklists continue their own dissemination services with information infrastructures of which some are outside Europe. Fauna Europaea -for instance- issued around 70 licences for use and shares data with outer European information services like iBol⁹ and uBio¹⁰ (see ⑤ in Fig.1). Similarly ERMS issued around 30 licences for use and has a significant international outreach via WoRMS.

In addition, for their international outreach, both WoRMS and Index Fungorum are also partners within the Catalogue of Life¹¹ / 4D4Life¹² initiatives (not shown in Fig.1). In this context Fauna Europaea will contribute to the EC FP7 freshwater monitoring project BioFresh¹³ by providing the taxonomic reference list for animals (not shown in Fig.1).

Dissemination of PESI into new FP7 projects

PESI provides key contributions to the recently started EC FP7 projects ViBRANT¹⁴ and i4Life¹⁵ on sharing and cross-linking the PESI Taxonomic Backbone to the Ontology Platform (see ⑥ in Fig.1) and Catalogue of Life (see ⑦ in Fig.1) infrastructures respectively. More extended integration of the PESI Taxonomic Backbone into the European scientific e-domain developments is scheduled when the BioVel project will approved for funding (see ⑧ in Fig.1).

As a contribution to the OpenUp!¹⁶ project, *Opening up the Natural History Heritage for Europeana*, PESI will provide the vernaculars names of animal species (see ⑨ in Fig.1). The results of OpenUp! will be distributed through the Europeana¹⁷ portal using the BioCASE¹⁸ facilities (wrappers, etc.).

All above-mentioned projects have an (mixed) outreach inside and outside Europe (shown by block arrows in Fig.1).

Advanced PESI portal services

A special case of cross-linking to be established by PESI, advancing the PESI web-portal services, will be the implementation of the Global Names Index (GNI)¹⁹ into the name search routines to optimise the name matching for users and to provide relevant forwarding to other taxonomic information services in case names are absent in PESI (see ⑩ in Fig.1).

⁹ <http://ibol.org>

¹⁰ <http://www.ubio.org>

¹¹ <http://www.catalogueoflife.org>

¹² <http://www.4d4life.eu>

¹³ <http://www.freshwaterbiodiversity.eu>

¹⁴ <http://vbrant.eu>

¹⁵ <http://www.i4life.eu>

¹⁶ <http://open-up.eu>

¹⁷ <http://www.europeana.eu/portal>

¹⁸ <http://www.biocase.org>

¹⁹ <http://gni.globalnames.org>

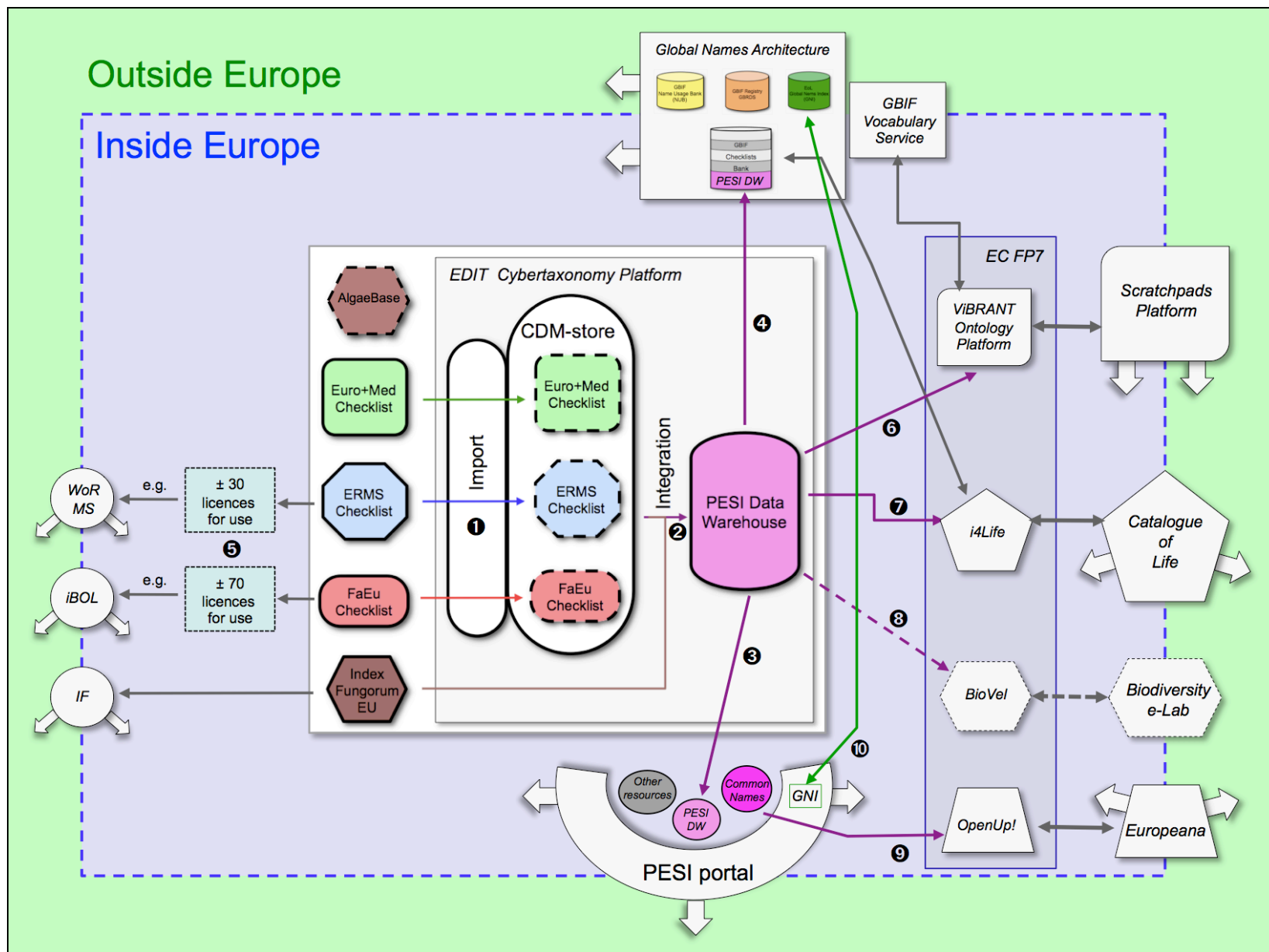


Figure 1: Overview of the PESI cross-linking with major information infrastructures inside and outside Europe.

Configuration History			
Version No.	Date	Changes made	Author
0.9	25 February 2011	Draft sent to WP leader	Ydj
1.0	26 February 2011	Final version submitted	Ydj
1.1	27 February 2011	Minor modification on final version	Ydj
1.2	28 February 2011	Minor modification on final version	Ydj