

## WP4 - Work package description

Work package number	WP4
Type of activity	OTHER
Work package title	Catalogue of Life Software Support Service
Start month	1
End month	36
Lead beneficiary number	10

### Objectives:

To operate a software development service that provides and supports production-quality software for deployment across the Catalogue of Life networks. This service will include middleware and software for internal services between the Catalogue of Life and the global programme partners in i4Life, as well as the software with which the regular external services are provided to the other user communities. Applying this service to the new requirements of the i4Life Virtual Research Community runs from month 7 – 36. Continuing this service for the main Catalogue of Life production is just for months 19 – 36, as the earlier period is already funded by the 4D4Life project.

1) Installation of new or enhanced services in the Catalogue of Life infrastructure.

- Implementation of enhanced CoL Download Service to specification agreed in WP2 using its new e-2 infrastructure.
- Improvement and stabilisation of the CoL GSD-Piping software created in WP12, to make it a robust and sustainable component of the Catalogue of Life using its new e-2 infrastructure.
- Improvement and stabilisation of the CoL Cross-mapping software created in WP11, to make it a robust and sustainable component of the Catalogue of Life using its new e-2 infrastructure.

2) Continued introduction of the new e-2 infrastructure

As part of the existing 4D4Life project, Catalogue of Life is rolling out its new e-2 infrastructure in months 7 – 18 of this project. However, the process of upgrading and wrapping both existing and new supplier GSD databases (of which there are now over 70 around the world) to the Catalogue of Life will continue throughout the present project. Continued support and enhancement for the new e-2 software components will be needed to serve this project from months 19 – 36.

3) Improvement of the existing software.

ETI is already funded by the 4D4Life project (4D4Life WP6) to maintain and enhance the core Catalogue of Life software, with documentation, up to month 18 of this project. Most significantly, this includes the production software for harvesting, integration and serving of the Annual Checklist and Dynamic Checklist versions of the Catalogue. Continued maintenance and enhancement will be needed to serve this project from month 19 – 36.

## Description of work and role of partners:

n.b. “(+doc)” = plus documentation

### 1) Installation of new or enhanced services in the Catalogue of Life infrastructure.

#### Task 4.1

Implementation of enhanced CoL Download Service to specification agreed in WP2 within its new e-2 infrastructure.(+doc)

#### Task 4.2

Improvement and stabilisation of the CoL GSD-Piping software created in WP12, to make it a robust and sustainable component of the Catalogue of Life within its new e-2 infrastructure. (+doc)

#### Task 4.3

Improvement and stabilisation of the CoL Cross-mapping service software created in WP11, to make it a robust and sustainable component of the Catalogue of Life within its new e-2 infrastructure. (+doc)

### 2) Continued introduction of the new e-2 infrastructure

#### Task 4.4

Continued support, enhancement, and documentation for the new e-2 software components will be needed to serve this project from months 19 – 36. (+doc)

### 3) Improvement of the existing software.

#### Task 4.5

Continued maintenance and enhancement of the core Catalogue of Life software to serve this project from month 19 – 36. (+doc)

## Person-Months per Participant:

Participant number	Participant short name	Person-months per participant
10	ETI BIOINFORMATICS	29.65
	Total	29.65

### List of deliverables:

Deliverable Number	Deliverable Title	Lead Beneficiary number	Estimated indicative person-months	Nature	Dissemination level	Delivery date
D4.1	Enhanced CoL Download Service	10	5.00	D	PU	7
D4.2	Production versions of the CoL Piping and Cross-mapping Service & Tools	10	16.80	D	PU	32
D4.3	Release 5 of CoL quality assurance workbench & Col assembly software & Release 2 of e-2 components	10	7.85	D	RE	34
Total			29.65			

### Description of deliverables:

#### D4.1)

Enhanced CoL Download Service: Enhanced and production quality CoL Download Service launched (Service & Demonstrator) with user documentation [month 7]

#### D4.2)

Production versions of the CoL Piping and Cross-mapping Service & Tools: Production versions of the CoL Piping and Cross-mapping service and associated tools (Service & Demonstrator) with user documentation [month 32]

#### D4.3)

Release 5 of CoL quality assurance workbench & Col assembly software & Release 2 of e-2 components: Release 5 of the CoL quality assurance workbench & Col assembly software, previously maintained by the 4D4Life project and release 2 of the e-2 components (Software & Demonstrator) with user documentation [month 34]

**Schedule of relevant Milestones:**

Milestone number	Milestone name	Lead Beneficiary number	Delivery date from Annex I	Comments
MS4	Enhanced CoL Download Service in test with WP2	10	5	For test by partners in WP2 and maintained here in WP4.