

WP9 - Work package description

Work package number	WP9
Type of activity	RTD
Work package title	IUCN Red-Lists Pipeline, Cross-map and GSD-Piping
Start month	1
End month	36
Lead beneficiary number	8

Objectives:

To prototype, make available for test, and implement certain components for ongoing usage, in collaboration with WP 2. In WP2 these components will be designed in collaboration and integration with the rest of the project, scoped, tested and accepted for service. They are:

- 1) a pipeline for pulling the Catalogue of Life synonymic species checklist and its taxonomic hierarchy into the IUCN SIS informatics platform at an agreed frequency, and with structure and functionality as close as is practicable to the IUCN organisation's own requirements.
- 2) a service to transmit batches of species or infraspecies name- or taxon-records that are presently available to SIS but not in the Catalogue of Life, to the Catalogue of Life reception buffer, for subsequent processing. The input to the CoL reception buffer will harmonise with the input requirements for the CoL GSD-piping tool being created in WP12, using protocols agreed and tested in WP2. Those 'successfully' processed by the Sp2000 GSD Taxonomic Expert Array will appear within later instances of the Catalogue of Life.
- 3) a protocol and service for supplying a particular instance of the SIS taxonomy to the CoL cross-mapping tool, running a cross-map in comparison with a particular instance of the CoL.
- 4) a pipeline for pulling the SIS – CoL cross-map back into the SIS platform, and integrate the CoL information (taxonomy and common names) into the search facility on the Red List website operated as a front end to SIS.

This will increase the coverage and usefulness of the Red List website as a tool to find information on species. While the Red List will not have information on species that have not been assessed for conservation threat, the site will show the existence of these other species, and provide links to the CoL and other information sources for them.

Description of work and role of partners:

All tasks in this work package undertaken by Partner 8 in collaboration with WP2.

Task 9.1 Create a pipeline for pulling the CoL synonymic species checklist and taxonomic hierarchy into the SIS informatics platform; make it available to WP2 for test; respond to improvement requests; and establish it in the ongoing service software of the SIS informatics platform:

- using agreed refreshment cycles,
- using specified CoL services,
- meeting CoL standard credit requirements,
- meeting IUCN functional requirements as far as practicable.

Task 9.2

Create a service to transmit name- and taxon-record batches from SIS to the CoL reception buffer. This is for use by the GSD-Piping Tool created by WP12. Make it available to WP2 for test; respond to improvement requests; and establish it in the ongoing service software of the SIS informatics platform:

- using protocols and procedures agreed in WP12.
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Task 9.3

Create a service to supply instances of the SIS Taxonomy to the CoL Cross-mapping tool for cross-mapping against instances of the CoL Taxonomy. Create a function to collect the SIS-CoL Cross-map as a data instance from the CoL Cross-mapper. Make it available to WP2 for test; respond to improvement requests; and establish it with new functions in the ongoing service software of the SIS platform.

Task 9.4

Create a pipeline for pulling the cross-map from the CoL Cross-mapper into the SIS platform, and use this and the CoL to integrate the search facility on the Red List website, with link backs to the CoL and other sources.

Person-Months per Participant:

Participant number	Participant short name	Person-months per participant
8	UICN	13.00
	Total	13.00

List of deliverables:

Deliverable Number	Deliverable Title	Lead Beneficiary number	Estimated indicative person-months	Nature	Dissemination level	Delivery date
D9.1	Red List web site version with integration to CoL	8	13.00	D	PU	30
		Total	13.00			

Description of deliverables:

D9.1) Red List web site version with integration to CoL: Release the Red List web site version that shows the CoL integrated with the SIS taxonomy, and using a cross-map pulled back from the CoL Cross-mapper.
[month 30]

Schedule of relevant Milestones:

Milestone number	Milestone name	Lead Beneficiary number	Delivery date from Annex I	Comments
MS13	Make the CoL available and regularly refreshed within the SIS platform	8	12	
MS19	Delivery of first batch of names to the CoL reception buffer	8	16	
MS30	Initial implementations linking CoL services reported to WP2	8	20	
MS33	Delivery of the SIS Taxonomy to the CoL Cross-mapper tool	8	22	