WP4 'CEVO' activities

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WP4 - in full operation

- WP4 - First Milestone – Paris IVOA meeting report ✓

- WP4 – First Deliverable – **WP4 Project Plan** ✓

- WP4 - Second Milestone – Groningen IVOA meeting report ✓

- WP4 Technology Forum 1 ✓

- WP4 calendar – in Project Plan document

- Progress on all tasks, 4.1, 4.2, 4.3 - *see annual report*

- Challenges / opportunities – diverse partners, evolving EOSC

Person-months per partner in WP4

Table 3.1a.4:   ESCAPE WP4: CEVO (Connecting ESFRI projects to EOSC through VO framework)

WP number	4			Start Date			M1	
WP title	CEVO (Connecting ESFRI projects to EOSC through VO framework)							
Participant Nr	1	1	28	23	5	11	26	22
Short name	CNRS-CPPM	CNRS-ObAS	CTAO	EGO	ESO	INAF	INTA	JIVE
Person months:	12	69	12	12	40	46	15	36
Participant Nr	16	3	17	8	6	20	18	
Short name	KIS	NWO-I-ASTRON	ObsParis	ORB	SKAO	UEDIN	UHEI	
Person months:	12	12	12	24	12	14	20	

WP4 Tasks

Task 4.1 Integration of astronomy VO data and services into the EOSC

Lead: Marco Molinaro (INAF)

Task 4.2 Implementation of FAIR principles for ESFRI data through the Virtual Observatory

Lead: Françoise Genova (CNRS-ObAS)

Task 4.3 Adding value to trusted content in astronomy archives

Co-leads: Mark Allen (CNRS-ObAS) & Martino Romaniello (ESO)

Progress in year 1 – *all tasks active*

First 6 months: ramp-up period setting up the work package…

Interaction with all partners ➔ **WP4 Detailed Project Plan *(D4.1)***

Task 4.1 Integration of astronomy VO data and services into the EOSC

- **Interaction with EOSC bodies, VO registry in B2FIND, tests of service publishing**

Task 4.2 Implementation of FAIR principles for ESFRI data through the Virtual Observatory

- **Milestones – representation of ESCAPE priorities at IVOA level**

- **ESFRI/RI partners requirements defined, results on tools and VO publishing**

Task 4.3 Adding value to trusted content in astronomy archives

- **First results of machine learning applied to archive data sets**

Detailed WP4 Project Plan

- Constructed via many individual meetings with ESFRI/RI partners to understand their needs for VO

- Timelines – controlled by individual partners
  - in particular when number of PM < 15, or spreading resources over multiple work packages

- Work Plan has been set up to track progress

- Technology forum – linking of VO expertise to ESFRI/RI needs

- **We will define test science cases for cross WP interaction** *(in particular with WP5, WP3)*

- *Training event schools – **brings user science cases***

Example of tracking progress using work plan…

Status Mapping on Deliverable Plan

4.1.a - Interfacing the VO framework with the EOSC.

Inclusion of the VO registry into the EOSC service catalogues to allow EOSC users to identify Astronomy-specific services.
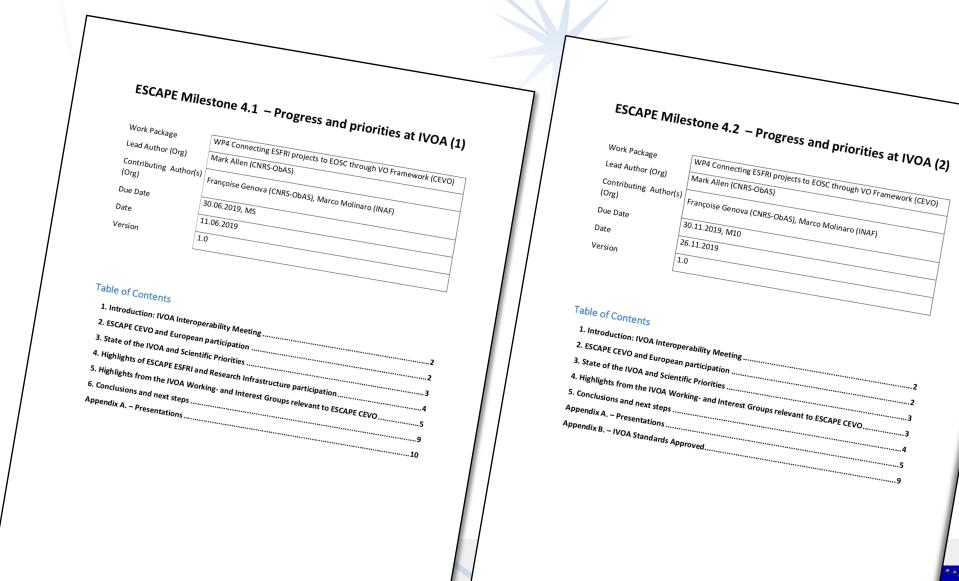
Identify the relevant contacts for EOSC service catalogues and registry related aspects (including B2FIND).	✔
Assess information provided by EOSC to identify the possible pathways for service providers to enter their services into the EOSC service catalogue and determine an approach to include the VO registry.	**ONGOING**
Participate in the IVOA Registry WG to inform the global IVOA community about EOSC catalogues, and to identify technical aspects of IVOA registry operations relevant to their inclusion in EOSC.	**ONGOING**
Identify the VO Registry test-bed systems to be used in preparation for inclusion in EOSC.	✔
Establish a timeline for the inclusion of the VO registry into EOSC.	✔
Assess the use of EOSC vocabulary services for the inclusion of established astronomy vocabularies *(dependent on EOSC development)* for use in cross-disciplinary discovery services.	?
Participate in all relevant EOSC project events (EOSC-Hub, FREYA, OpenAIRE-Advance, FAIRsFAIR)	**ONGOING**

Milestones *– detailed reports in addition to short text cut & paste into EC portal*

ESCAPE Milestone 4.1 – Progress and priorities at IVOA (1)

Work Package	WP4 Connecting ESFRI projects to EOSC through VO Framework (CEVO)
Lead Author (Org)	Mark Allen (CNRS-ObAS)
Contributing Author(s) (Org)	Françoise Genova (CNRS-ObAS), Marco Molinaro (INAF)
Due Date	30.06.2019, M5
Date	11.06.2019
Version	1.0

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ESCAPE Milestone 4.2 – Progress and priorities at IVOA (2)

Work Package	WP4 Connecting ESFRI projects to EOSC through VO Framework (CEVO)
Lead Author (Org)	Mark Allen (CNRS-ObAS)
Contributing Author(s) (Org)	Françoise Genova (CNRS-ObAS), Marco Molinaro (INAF)
Due Date	30.11.2019, M10
Date	26.11.2019
Version	1.0

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27/02/20

Progress toward FAIR principles

- Interaction with RDA: evaluation of core criteria for FAIR data

    ➔ Input to the RDA FAIR Data Maturity Model Working Group.

- FAIRSFAIR Landscape analysis interview *(M. Allen, F. Genova)*

- EGFC - European Group of FAIR Champions *(M. Allen now a member)*

- Highlighted in European astronomy community events:
    - *EWASS, SCIOPS "Addressing common challnges for FAIR data in Astronomy"*
    - *upcoming – LISA Conference (Library and Information Services in Astronomy"*
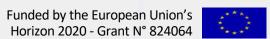
Calendar

Technology Forum – Strasbourg, 4-6 Feb, 2020

ESCAPE Progress Meeting, GA – Brussels, 26-27 Feb, 2020

VO School – ESAC/Madrid, 26-28 May, 2020
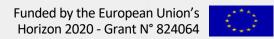
CEVO Project schedule table

Month 1	February **2019**	
Month 2	March	
Month 3	April	
Month 4	May	
Month 5	June	**M4.1** Progress and priorities at IVOA
Month 6	July	**D4.1** Detailed project plan for WP4 *(This document)*
Month 7	August	
Month 8	September	
Month 9	October	
Month 10	November	**M4.2** Progress and priorities at IVOA
Month 11	December	
Month 12	January **2020**	
Month 13	February	
Month 14	March	**D4.2** Intermediate report on use of IVOA standards
Month 15	April	
Month 16	May	**D4.3** 1st Science with interoperable data school
Month 17	June	**M4.3** Progress and priorities at IVOA
Month 18	July	**D4.4** Intermediate analysis report of VO data and service integration into EOSC
Month 19	August	
Month 20	September	
Month 21	October	
Month 22	November	**M4.4** Progress and priorities at IVOA
Month 23	December	
Month 24	January **2021**	

Month 25	February	
Month 26	March	
Month 27	April	
Month 28	May	**M4.5** Hands-on workshop for data providers
Month 29	June	**M4.6** Progress and priorities at IVOA
Month 30	July	**D4.5** Prototype demonstrator for value-added archive services
Month 31	August	
Month 32	September	
Month 33	October	
Month 34	November	**M4.7** Progress and priorities at IVOA
Month 35	December	**D4.6** 2nd Science with interoperable data school
Month 36	January **2022**	
Month 37	February	
Month 38	March	**D4.7** Final analysis report on integration of VO data and services into EOSC
Month 39	April	
Month 40	May	**D4.8** Final analysis report on IVOA standards and stewardship best practices
Month 41	June	
Month 42	July	

Changes and Challenges

Changes

- Requested change of delivery date for D4.3 Month 16 ➜ Month 18
  "Science with interoperable data school" (May 26-28, 2020). Report ➜ Month 18 (July 2020)
- Recruitment and staffing issues
  - KIS – impacted by departure of staff member, work now reallocated
  - JIVE – change of plan due to visa issues of selected candidate ➜use permanent staff, but some delays to the start of the work

Challenges

- Diverse set of ESFRI/RI needs and different levels of development of ESFRI/RI
  - Required an approach of specific meetings
- **Travel budget insufficient for some partners – need to re-balance personnel/travel budget**
- Explaining EOSC to the research community – while EOSC is being formed

WP4 Next Steps

- Technology Forum results – update of the work plan

- Compile first results into Deliverable reports:
  - **D4.2** : **Intermediate report on the use of IVOA standards** – March 2020
  - **D4.4** : **Intermediate analysis report of VO data and service integration into EOSC** July 2020

- IVOA Interoperability meeting – 4-8 May, Sydney – **Milestone**

- 1st Science with Interoperable Data School – May 26-28, 2020, Madrid **(D4.3)**

- Continue to increase interaction with other WPs

- Prepare for mid-term review, and 2021 activities