



*Astronomy ESFRI & Research Infrastructure Cluster*  
ASTERICS - 653477



# ASTERICS WP4 – DADI Data Access, Discovery and Interoperability

Françoise Genova and the WP4 team

## WP4 high level objectives

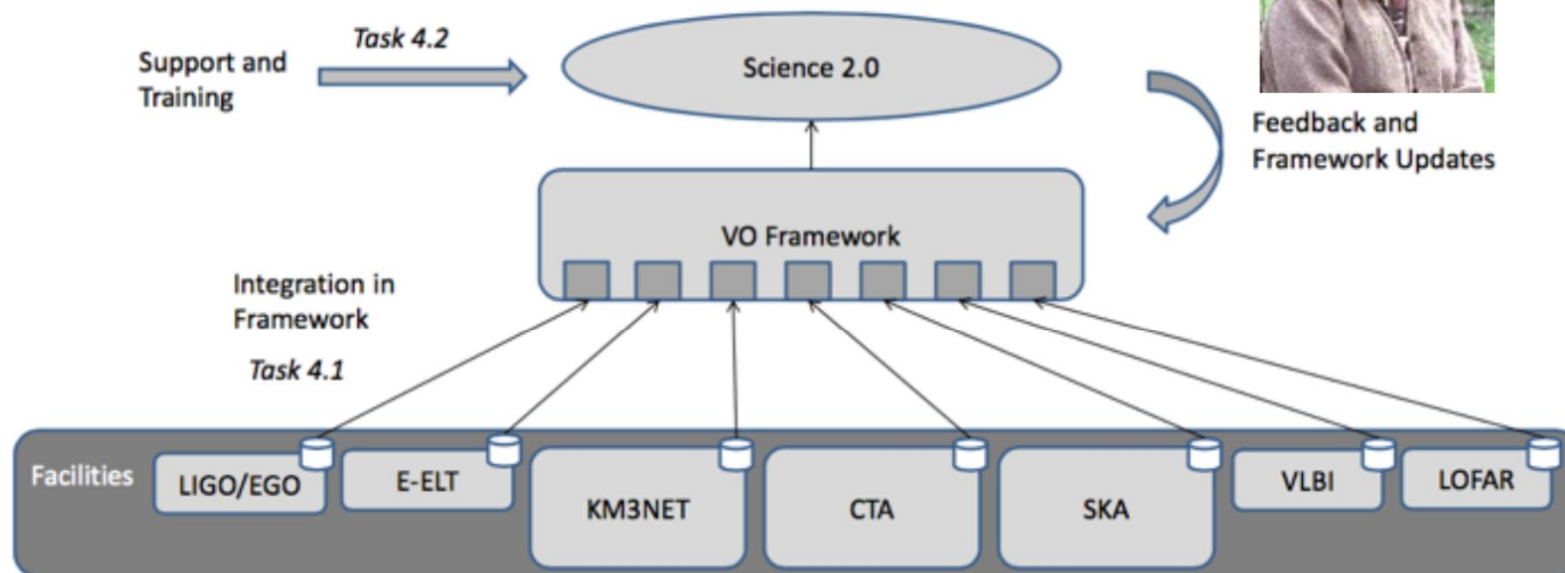
Make the ESFRI and pathfinder project data available for discovery and usage by the whole astronomical community, interoperable in a homogeneous international framework, and accessible with a set of common tools.

European VO teams **AND** ESFRI/pathfinder teams are involved in **ALL** activities.

- DADI (WP4) - Françoise Genova (CNRS-OAS):



### ASTERICS WP4: DADI (Data Access, Discovery and Interoperability)



Feedback and Framework Updates

Figure 6: The ESFRI projects integrated in the VO Framework offers users uniform access.

# Who's involved

- “ Euro-VO partners, i.e. VO initiatives from France (CNRS/OAS- CDS+UNISTRA), Germany (UHEI), Italy (INAF), Spain (INTA),UK (UEDIN)
- “ Representatives of ESFRI and pathfinders, the contact can involve people from other labs
  - . CTA (CNRS/LUTH + OBSPAR)
  - . EGO/VIRGO and ET (CNRS/APC)
  - . KM3Net (CNRS/CPPM)
  - . SKA (ASTRON)
- “ ESO is associated to the project
- “ ESA (ESAC) is working in close collaboration with Euro-VO

# WP4 Targets

Three Tasks in support to three complementary targets

- “ Task 4.1: Support to astronomy ESFRI facilities, their pathfinders and other infrastructures of pan-European interest for implementation of their data in the VO framework (INAF/UHEI)
- “ Task 4.2: Support to the astronomical community (CNRS-CDS/INTA)
- “ Task 4.3: Updates of the VO framework from feedback and requirements (CNRS-CDS/UEDIN)

## WP4 Activities

- “ DADI is structured around the organisation of Workshops (Deliverables) and participation in external events (IVOA meetings, which are Milestones, plus ADASS, RDA)
- “ Intense activity during the first 12 months
  - . to create DADI community
  - . to introduce newcomers to the VO
  - . to share information on the partners' expertise, activities and needs
  - . to begin to identify topics of common interest and set up collaboration paths
  - . to perform technological work on the initial priorities, in particular multi-dimensional data (IVOA standards) – defining standards and agreeing on them takes time!

# Deliverables to date

#	Title	Lead partner	Due date	Actual date and location
D4.1	First DADI Technology Forum	CNRS/CDS (Task 4.3)	September 2015	17-18 Sept. Strasbourg
D4.2	FIRST ASTERICS European School	INTA (Task 4.2)	November 2015	15-17 Dec. Madrid
D4.3	First ESFRI Forum & Training Event	INAF (Task 4.1)	November 2015	3-4 Dec. Trieste
D4.4	Second DADI Technology Forum	UEDIN (Task 4.3)	March 2016	7-8 March Edinburgh

## Milestones and other relevant meetings

### “ IVOA Interoperability meetings are milestones

M2	IVOA Sesto (Italy)	14-19 June 2015
M5	IVOA Sydney (Australia)	30 October-1 November 2015
M7	IVOA Cape Town (SA)	8-13 May 2016

### “ Other relevant meetings

- . ADASS XXVth Meeting, Sydney, 25-29 November 2015
- . RDA Plenary Meetings, Paris, 23-25 October 2015 & Tokyo, 1-3 March 2016



## D4.2 First DADI School

- ” 15-17 December 2015
- ” 43 participants from France, Germany, Italy, Spain, UK, and from Belgium, Greece, Lithuania, Poland, Portugal and Slovakia, also CTA, LOFAR, ESO
- ” 11 tutors
- ” Learn enough about the VO to be able to use it in one’s own research
  - . Short presentation of the IVOA and ASTERICS
  - . “Hands-on” tutorials & “Treasure Hunt”
  - . Participants’ own projects
  - . Presentation of some of the projects and feedback session
- ” Significant preparatory work
  - . Update of the tutorials
  - . Discussion with the participants about their scientific interests
- ” Follow-up
  - . Two seminars in Athens in 2016
  - . The participants will be polled each year to follow the School impact and monitor their usage of the VO





# D4.1 & D4.4 Technology Forums

- “ Reports and discussion of technological work and collaborations among partners
- “ Preparation of the IVOA meetings and « hack-a-thon », i.e. splinter discussions of technical topics
- “ First Tech Forum: DADI kick-off
  - . Information about ASTERICS, DADI and IVOA
  - . Presentation of partners' expertise and on-going work
  - . Identification of topics of interest for DADI
- “ Second Tech Forum
  - . Technical discussions on many topics



## D4.3 First ESFRI Forum & Training Event

- “ 3-4 December 2015
- “ 25 participants, all DADI partners and ESO
- “ Centered on the ESFRI and pathfinder requirements
- “ Organised around the topics identified during the Tech Forum
  - . Multi-dimensional data access
  - . Time domain data access (<> WP5)
  - . VO registry of resources
  - . Authentication & Autorisation (WP3)
- “ VO standards and tools already in use
- “ Discussion on specific support activities initiated with the ESFRIs and pathfinders



# IVOA

- “ DADI technological activities (Task 4.3) are performed in the IVOA context
- “ Sesto (June 2015): presentation of DADI and work on multi-d standards
- “ Sydney (October 2015) & Cape Town (May 2016)
  - . Many meeting highlights relevant to DADI
  - . Well prepared by the Tech Forums
  - . Significant impact of participants linked to DADI
  - . Cape Town: Focus Sessions on large projects incl. ASTERICS CTA and EGO/VIRGO/ET representatives

## Among the other activities

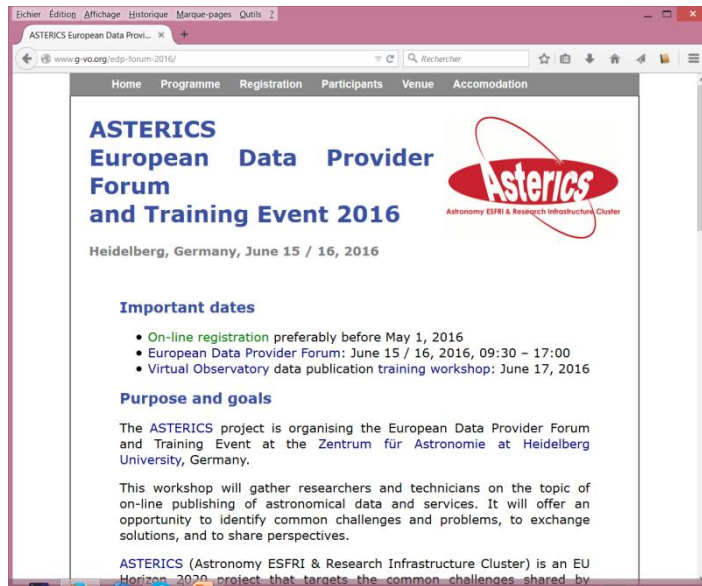
- “ Technical work on Provenance (VO/CTA)
- “ Collaboration between CDS and EGO on Aladin customization
- “ Autorisation&Authentication
- “ Collaboration with EUDAT (i.e. with the « generic » data infrastructure)
- “ Specific meetings can be organised (e.g. Provenance, gravitational waves)

# Next Deliverables

#	Title	Lead partner	Due date	Actual date and location
D4.5	Second ASTERICS European School	CNRS-CDS (Task 4.2)	November 2016	15-17 Nov 2016 Strasbourg
D4.6	First European Data Provider Forum & Training Event	UHEI (Task 4.1)	November 2016	15-16 <b>June</b> Heidelberg



# This meeting (D4.6)



- “ Open to European data providers beyond the project partners
- “ Successful precursor in 2013 (CoSADIE project)
- “ A diverse community of large/medium size/smaller projects
- “ Topics proposed by the participants
- “ Forum: Share methods and lessons learnt, identify needs
- “ Training on Friday



## In 2017 and 2018

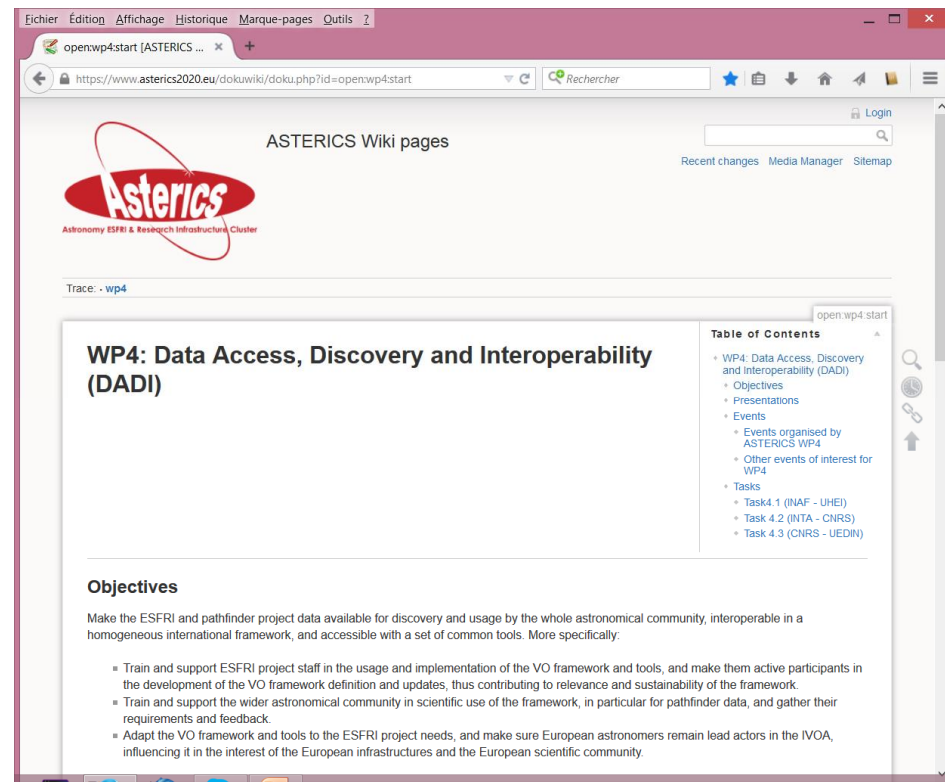
- “ One School/year Madrid 2017 – Strasbourg 2018
- “ One Technology Forum /year Strasbourg 2017 then Edinburgh 2018
- “ One ESFRI Forum & Training Event in Trieste in 2018
- “ One Data provider Forum & Training Event in Heidelberg in 2019

# DADI web site

<https://www.asterics2020.eu/dokuwiki/doku.php?id=open:wp4:start>

The site contains information about the Work Package activities and a link to all the meeting sites, which include all the slides and additional information

*try ASTERICS wiki page  
WP4 DADI*



The screenshot shows a web browser window displaying the ASTERICS Wiki page for WP4: Data Access, Discovery and Interoperability (DADI). The page features the ASTERICS logo and navigation links. The main content area is titled "WP4: Data Access, Discovery and Interoperability (DADI)" and includes a "Table of Contents" sidebar with links to "Objectives", "Presentations", "Events", "Tasks", and "Other events of interest for WP4". The "Objectives" section is expanded, showing a list of goals for the work package.

**WP4: Data Access, Discovery and Interoperability (DADI)**

**Table of Contents**

- WP4: Data Access, Discovery and Interoperability (DADI)
- Objectives
- Presentations
- Events
  - Events organised by ASTERICS WP4
  - Other events of interest for WP4
- Tasks
  - Task4.1 (INAF - UHEI)
  - Task 4.2 (INTA - CNRS)
  - Task 4.3 (CNRS - UEDIN)

**Objectives**

Make the ESFRI and pathfinder project data available for discovery and usage by the whole astronomical community, interoperable in a homogeneous international framework, and accessible with a set of common tools. More specifically:

- Train and support ESFRI project staff in the usage and implementation of the VO framework and tools, and make them active participants in the development of the VO framework definition and updates, thus contributing to relevance and sustainability of the framework.
- Train and support the wider astronomical community in scientific use of the framework, in particular for pathfinder data, and gather their requirements and feedback.
- Adapt the VO framework and tools to the ESFRI project needs, and make sure European astronomers remain lead actors in the IVOA, influencing it in the interest of the European infrastructures and the European scientific community.