WP4 Status
DADI Data Access, Discovery and Interoperability

Françoise Genova and the WP4 team

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)

Activities since the beginning

- 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 9 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 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

- One deliverable/task during the period
- Deliverables are Workshops, the « text deliverable» is provided several weeks afterwards

#	Title	Lead partner	Due date	Actual date and location
D4.1	First DADI Technology Forum	CNRS/CDS (Task 4.3)	September 2015	Held 17-18 Sept. Strasbourg Del. 3 Nov.
D4.2	FIRST ASTERICS European School	INTA (Task 4.2)	November 2015	Held 15-17 Dec. Madrid Del. being finalized
D4.3	First ESFRI Forum & Training Event	INAF (Task 4.1)	November 2015	Held 3-4 Dec. Trieste Del. Being finalized

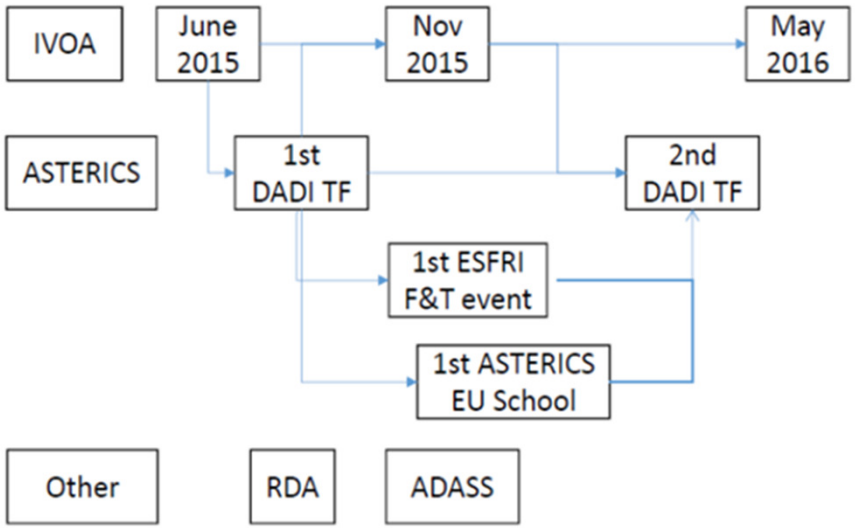
Milestones and other relevant meetings

- The IVOA Interoperability meetings are milestones

M2	IVOA Sesto (Italy)	14-19 June 2015
M5	IVOA Sydney (Australia)	30 October-1 November 2015

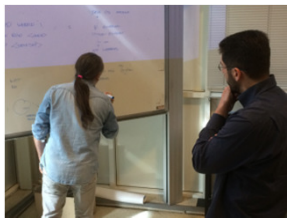
- Other relevant meetings
  - ADASS XXVth Meeting, Sydney, 25-29 November 2015
  - RDA Sixth Plenary, Paris (France), 23-25 October 2015

DADI events in a nutshell



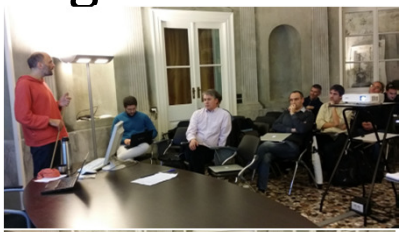
D4.1 First Technology Forum

- 17-18 September 2015
- 34 participants (except KM3Net-VLVvT), including ESO and ESA
- DADI kick-off
  - Information about ASTERICS and DADI
  - Presentation of the VO Framework by the IVOA Chair (C. Arviset, ESA)
  - Presentation of partners' expertise and on-going work
  - « Hack-a-thon » i.e. discussions by small groups on topics identified on the spot
- Outcomes
  - List of topics of interest for the ESFRI Forum D4.3
  - Preparation of Sydney IVOA meeting
  - Status of multi-D standards
  - HiPS strategy



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



D4.2 First DADI School

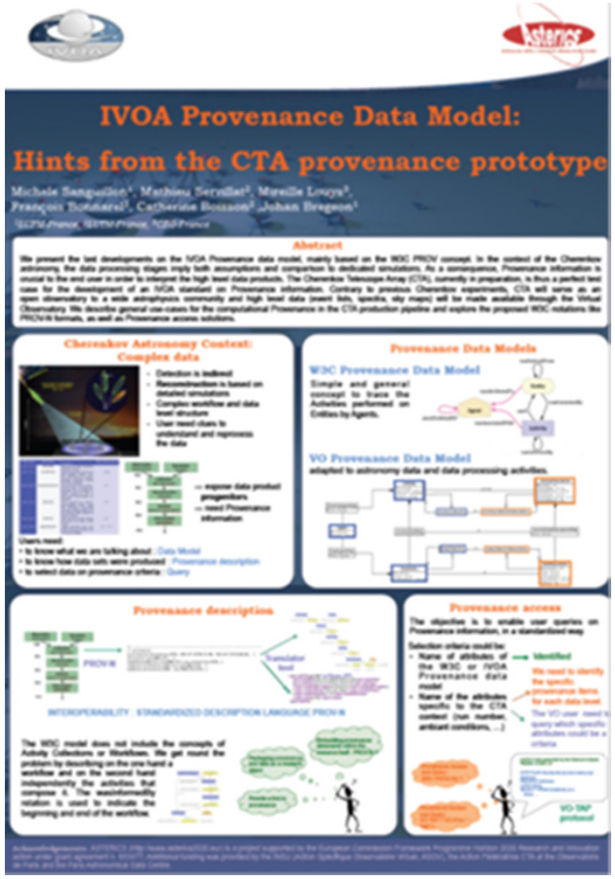
- 15-17 December 2015
- Specific talk tomorrow morning

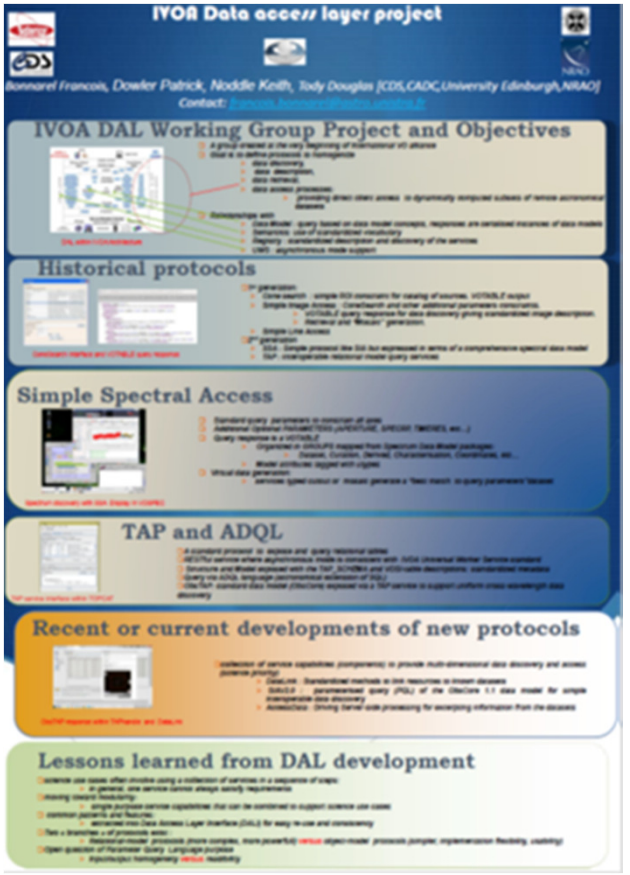
IVOA

- DADI technological activities (Task 4.3) are performed in the IVOA context
- IVOA priorities well aligned with ASTERICS's
  - Get NOW the first set of multi-D standards as defined by the IVOA Standing Committee on Science Priorities
  - Time domain: no ASTERICS requirement on time domain for the moment (WP5 involved)
- Sesto (June 2015): presentation of DADI and work on multi-d standards
- Sydney (October 2015)
  - Many meeting highlights relevant to DADI
  - Well prepared by the Tech Forum
  - Significant impact of participants linked to DADI
    - At least one chair or co-chair of all the Groups present at the meeting except one
    - Significant participation in the Groups

ADASS XXVth

- The place to be to discuss with large projects about their data
- ASTERICS talk (F. Pasian)
- IVOA talk (C. Arviset)
- VO ubiquitous in the talks and posters, very positively mentioned in B. Schmidt keynote address
- Two ASTERICS posters


IVOA Provenance Data Model:
Hints from the CTA provenance prototype
Abstract
Cherenkov Astronomy Context: Complex data
Provenance Data Models
W3C Provenance Data Model
VO Provenance Data Model
Provenance description
Provenance access


IVOA Data access layer project
IVOA DAL Working Group Project and Objectives
Historical protocols
Simple Spectral Access
TAP and ADQL
Recent or current developments of new protocols
Lessons learned from DAL development

Among the other activities

- Technical work on Provenance (VO/CTA)
- Collaboration between CDS and EGO on Aladin customization
- Publication of ANTARES data by GAVO
- Autorisation&Authentication
- Collaboration with EUDAT (i.e. with the « generic » data infrastructure)

Next steps

- Discussion on specific support actions with the ESFRIs
- Cape Town IVOA meeting (May 2016)
  - Focus sessions on large projects, organised by M. Allen
  - VO standards and tools including multi-D and time domain – Convergence on multi-d mandatory
- RDA Plenaries March (Tokyo) and September (International Data Week, Denver)

Next Deliverables

#	Title	Lead partner	Due date	Actual date and location
D4.4	Second ASTERICS DADI Technology Forum	UEDIN (Task 4.3)	March 2016	7-8 March Edinburgh **Us, here, now!**
D4.5	Second ASTERICS European School	CNRS-CDS (Task 4.2)	November 2016	Date TBC Strasbourg
D4.6	First European Data Provider Forum & Training Event	UHEI (Task 4.1)	November 2016	15-16 **June** Heidelberg + training 17 June

Next Tech Forum : March 2016 (D4.7)

An additional Tech Forum before Trieste Interop?

we need to liaise regularly on technological activities

Paths for support to ESFRIs/pathfinders

- Work to do for all the tasks
- Task 4.2: Strong interest in science training
- Specific information & training events for scientists in addition to participation of a few individuals into Schools
  - Collaboration needed to define and develop relevant tutoriels
  - Can be coupled with project meetings, disciplinary schools, etc

Paths for support to ESFRIs/pathfinders

- Tasks 4.1/4.3
  - Cubes
  - Time domain: transients & time information in data
  - Provenance
  - A&A (with WP3)
  - HiPS
  - Implementation CharDM, ObsDM
  - At some point: Visibility data
  - Important to provide (if possible) ranked list of topics and concrete examples to define the actions
  - Tech Forums (Hack-A-Thon), ESFRI Forum & Training
  - Specific focus working meetings can also be organised (e.g. Provenance)