

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.



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
- EST is participating in the activities



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)
- Repository of products (Deliverable)
- Specific meetings are organised when useful



Workshops to date

- Towards data providers
 - Two ESFRI Forum & Training Events (Trieste, Dec. 2015 & 2017)
 - Two European Data Providers Forum & Training Event (Heidelberg, June 2016 & this event)
- Towards the science community
 - One school/year for early career & ESFRI staff (Madrid, Dec. 2015 & Nov 2017, Strasbourg, Nov. 2016 & 20-22 Nov 2018)
- Technology Forums
 - Four to date (Strasbourg, Sept. 2015 & March 2017; Edinburgh, March 2016 & April 2018)
 - One to come (Strasbourg, March 2019)



Specific events

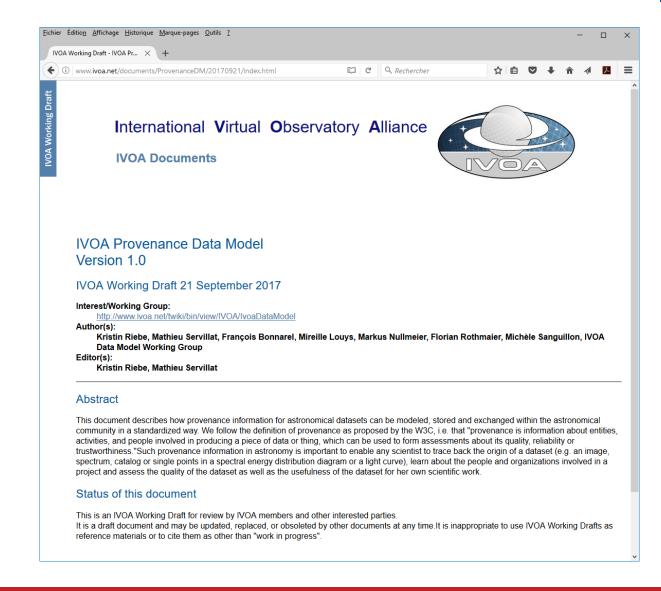
- Provenance meetings
 - 5 Provenance Days (co-organised with VO France)
 - 2 other meetings
- Time domain
 - DADI/CLEOPATRA (Strasbourg, March 2017), GAPS (Padova, June 2017), Time Series (Dec. 2017)
- A&A (Meudon, organised by CTA, Dec 2015)
- Gravitational waves (Strasbourg, June 2016)
- LOFAR/VO (Strasbourg, Nov. 2016)



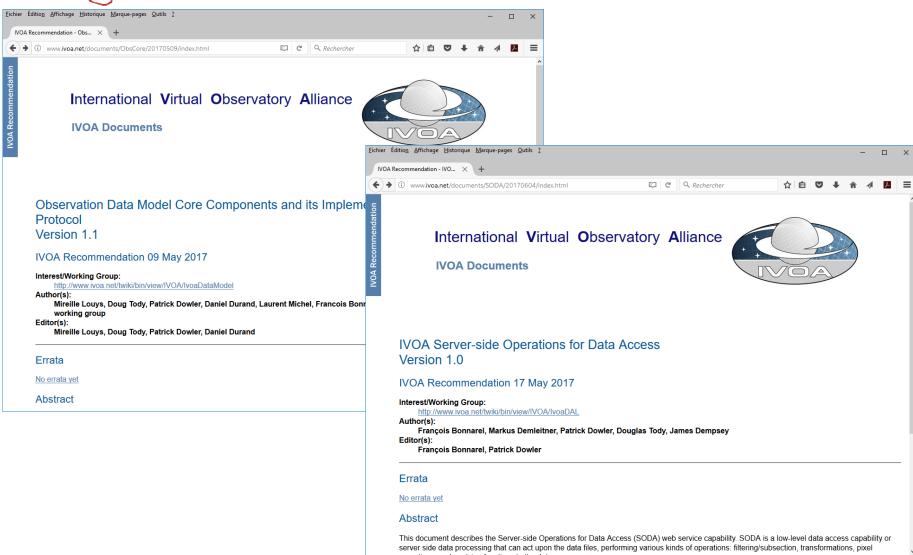
IVOA

- DADI technological activities (Task 4.3) are performed in the IVOA context
- Significant participation in all the IVOA meetings and WGs/Igs, including leadership of groups and on standards
- CTA actively participating in the Provenance Data Model definition – adopted by CTA
- Significant progress in DADI/IVOA priorities
 - Multi-dimensional data
 - « Standard caravan » completed in May 2017
 - Implementation and feedback
 - Strong focus on Time Domain
 - Started again in IVOA thanks to DADI momentum
 - Intense activity in DADI & IVOA











ADASS

- Many invited/contributed talks and posters from DADI staff
- Also CLEOPATRA
- Lots of reference to the VO in general in the ADASS meetings

THE RESEARCH DATA ALLIANCE

www.rd-alliance.org

building the social and technical bridges that enable open sharing of data



of which 4 ICT Technical Specifications

75 ADOPTION CASES

across multiple disciplines, organisations & countries

93 GROUPS WORKING ON GLOBAL DATA INTEROPERABILITY CHALLENGES

of which 32 WORKING GROUPS

& 61 INTEREST GROUPS

7,017 INDIVIDUAL MEMBERS FROM 137 COUNTRIES

67% Academia & Research
15% Public Administration
11% Enterprise & Industry

43 ORGANISATIONAL MEMBERS & 8 AFFILIATE MEMBERS



Vision

Researchers and innovators openly share data across technologies, disciplines, and countries to address the grand challenges of society.

Mission

RDA builds the social and technical bridges that enable open sharing of data.





RDA

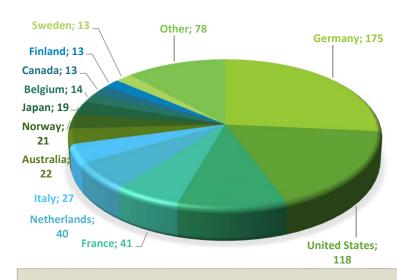
- No astronomy Group in RDA
 - Interoperability discussion in IVOA
 - An overarching Disciplinary Collaboration
 Frameworks IG co-chaired by D. Schade (CADC)
- Active participation in different Groups and adoption of recommendations
 - CM Zwölf's talk
 - Certification of Data Repositories Core Trust Seal



83 Breakout meetings

- 19 Working Groups
- 37 Interest Groups
- 12 Joint Working & Interest Groups
- 15 Birds of a Feather
- 4 Final Recommendations presented
- 3 New Recommendations
- Collaboration projects with AGU and ISO on adoption and impact metrics

74 posters applications



661 participants from 41 countries



https://rd-alliance.org/plenaries/rda-eleventh-plenary-meeting-berlin-germany



International Data Week 2018

will be held on 5-8 November 2018 in Gaborone, Botswana.

Hosted by the Botswana Open Science and Open Data Forum, IDW 2018 will bring together data scientists, researchers, industry leaders, entrepreneurs, policymakers and data stewards from all disciplines and geographies across the globe.

Co-organized by the ICSU World Data System (WDS), the ICSU Committee on Data for Science and Technology (CODATA) and the Research Data Alliance (RDA), IDW 2018 combines the 12th RDA Plenary Meeting, the bi-annual meeting of the research data community, and SciDataCon 2018, the scientific conference addressing the frontiers of data in research.

Digital Frontiers of Global Science

















https://www.rd-alliance.org/plenaries/rda-twelfth-plenary-meeting-part-international-data-week-2018-gaborone-botswana





RDA in a Nutshell

WWW.RD-ALLIANCE.ORG/ @RESDATALL



RDA Global

Email - enquiries@rd-alliance.org

Web - www.rd-alliance.org

Twitter - @resdatall

LinkedIn - www.linkedin.com/in/ResearchDataAlliance

Slideshare -

http://www.slideshare.net/ResearchDataAlliance

RDA Europe

Email - info@europe.rd-alliance.org

Twitter - @RDA_Europe

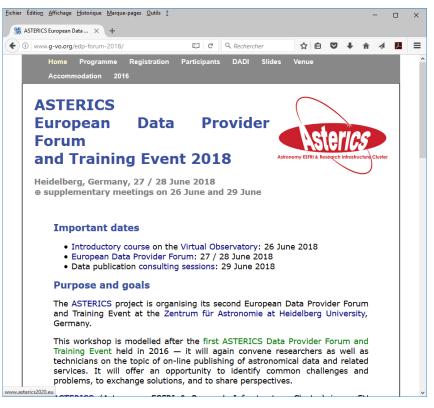
National nodes in 9 countries

RDA US

Twitter - @RDA_US



This meeting (D4.13)



- Open to European data providers beyond the project partners
- Newcomer session: yesterday (feedback from the first F&T Event)
- Forum: Share methods and lessons learnt, identify needs
- Training on Friday

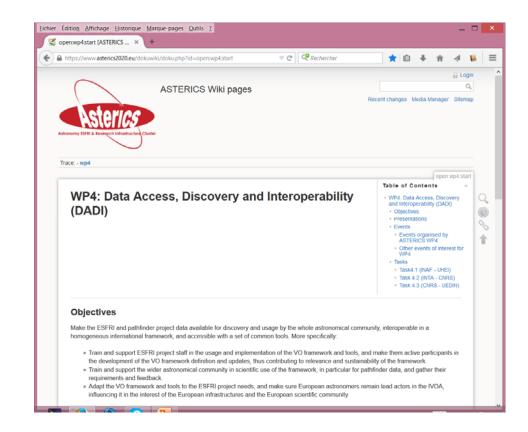


DADI web site

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





Repository of products

« Products » produced by DADI or essential for VO implementation

- Tutorials from Schools
- VO Tools
- VO Standards
- Tools in support to data publishing in the VO
- Other results
- Talks presented by European participants in IVOA meetings

https://www.asterics2020.eu/dokuwiki/doku.php?id=open:wp4:dadiproductrepository