



Asterics

Astronomy ESFRI & Research Infrastructure Cluster

ASTERICS: The Virtual Observatory and the ESFRI Infrastructures

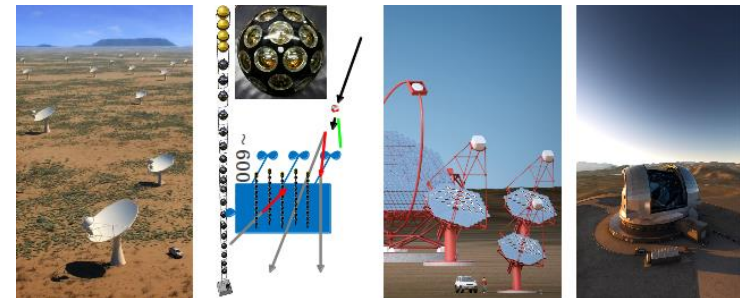
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Strasbourg (CDS)

Basic Data (I)

- “ **Title: Astronomy ESFRI & Research Infrastructure Cluster**
- “ **Coordinator:** Michael Garrett (ASTRON)
- “ Awarded 14.991 M€ from EC (H2020-INFRADEV-1-2014-1)
- “ Duration: 48 months (T0: May 1st, 2015)
- “ **22 partners from 7 different countries**
- “ Brings together for the first time astronomy and astroparticle physics: SKA, CTA, KM3NeT, E-ELT.
- “ Goal: Establish a single collaborative cluster
 - . Identification and solution of key challenges of common interest



(Very short) description of tasks

” **WP1 Management (ASTRON)**

” **WP2 (DECS). Leader: Stephen Serjeant (OU).**

É Web interfaces, outreach material. Citizen science.

É **WP3 (OBELICS). Leader: Giovanni Lamanna (CNRS-LAPP).**

É Data streaming, data integration (databases), Data Mining.

É **WP4 (DADI). Leader: Françoise Genova (CDS).**

É Virtual Observatory.

É **WP5 (CLEOPATRA). Leader: H.J. van Langevelde (JIVE).**

É Synchronization, multi-messenger methods, scheduling.

WP4: Data access, discovery and interoperability.



- **Objectives:**

- É **Make ESFRI data VO-compliant.**

- ó Easy and efficient discovery, access and analysis.

- **Tasks:**

- É Support to **implementation of ESFRI data** in the VO framework.

- É Support to **scientific exploitation of ESFRI data** using VO tools.

- É **Update of VO framework** from feedback and requirements.

ÉVO & ESFRI teams **will work together on ALL tasks**

Sustainability

WP4: Who is 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
 - 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

Task4.1: Support to implementation

- **Activities:**

- É Annual Forum and training event.

- ó Put in the same room data providers and VO staff.

- ó Teach on how to use the publishing tools to make ESFRI datasets VO-compliant.

- É Direct support (technical visits).

- É On-line tutorials and materials.



Task4.2: Support to astronomical community



- **Activities:**

- É **Training.**

- ó VO schools

- ó On-line science tutorials

- É **Collaboration with science projects (VO-science+).**



Task4.3: Updates of the VO framework

- **Activities:**

- É Identification of priorities

- ó Initial priorities: multi-d, time domain.

- É Update or definition of standards and tools

- ó ASTERICS Technology Forum

- ó Participation in IVOA WG $\$$ and IG $\$$.

- É Liaison with Research Data Alliance and other initiatives dealing with interoperability.

More on ASTERICS?

Special Meeting 7
 ASTRONET 2015 - 2025: The Next Decade

Wednesday, June 24th

Time	Paper	
1115 - 1130	1617	Ronald Stark Taking the Vision from one Decade into the Next
1130 - 1150	200	Michael Garrett Cross-cutting Needs and Actions - Tapping into H2020 via ASTERICS
1150 - 1210	1633	Jason Hessels Radio Astronomy in Europe: Up to, and beyond, 2025
1210 - 1230	951	Bruno Leibundgut Future Strategy for OIR Astronomy
1230 - 1250	838	Xavier Barcons Space and ground synergy
1250 - 1300		Discussion Discussion on morning session

11.15
-
13.00

