DATA CENTRE COMMUNITY

A brief overview of CoSADIE activities

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CoSADIE Project

ACTIVITIES

- Update of Census of European Data Centres
- Discussion with LOFAR project on VO integration
- * Data Centre Forum *
- Engagement with Data Centres at IVOA focus sessions
- SVO, GAVO, CDS, VObs.It +... activities toward data centres

EURO VO CoSADIE Coordinative and Sustainable Astronomical Data Infrastructure for Europe

CoSADIE Astronomical Data Center Forum 2013

Heidelberg, Germany, June, 10 + 11, 2013

GERMAN ASTROPHYSICAL GAVO VIRTUAL OBSERVATORY

Important dates

- First announcement : February 28, 2013
- Registration open until: May 31, 2013
- Astronomical Data Center Forum: June, 10 + 11, 2013

Purpose & Goals

The CoSADIE project is organising the European Data Centre Forum at the Zentrum für Astronomie der Universität Heidelberg, Heidelberg, Germany.

Technologies and software developed within the Virtual Observatory (VO) can help data center operators in many ways -- from reusing server-side software to providing ready-made client software for their users' desktops, from help in properly and interoperably describing their data holdings to discoverability of their offerings in the central registry.

The CoSADIE data center forum will bring together VO engineers and data providers to foster an interchange of ideas and requirements. Data providers are cordially invited to give talks on their perspective, while VO staff will introduce key technologies and software to make data publishing in astronomy easier, more effective, more sustainable and more user-friendly.

Call for papers

We invite contributions from data providers detailing the kind of data they publish or plan to publish and the particular problems they are facing, as well as their experiences when adopting VO standards. We also invite contributions by VO experts that could explain their work to end users on the server side.

We are open as to format and size of your contribution. Please talk to us, and we will see what we can accomodate.

Financial Support

Some travel support is available for this workshop. For details, please contact Gabriel Stoeckle (gst at ari.uni-heidelberg.de).

Scientific and Technical Organizing Committee

- Mark Allen, CDS, Strassbourg, France
- Christophe Arviset, ESAC, Madrid, Spain
- Markus Demleitner, GAVO, Heidelberg, Germany
- Marco Molinaro, INAF-OATs, Trieste, Italy
- Enrique Solano, ESAC, Madrid, Spain
- Joachim Wambsganss, GAVO, Heidelberg, Germany
- Keith Noddle, WFAU, Edinburgh, Scotland
- Mark Holliman, WFAU, Edinburgh, Scotland

Local Organizing Committee

- Gabriel Stoeckle
- Janine Fohlmeister

Contact

For any further information about the Data Center Forum, contact us at (dcforum2013@g-vo.org)

CoSADIE Data Center Forum

http://g-vo.org/cosadie-dcforum/program.php

CoSADIE Data Center Forum

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Home Program Register Venue Accomodation Photos

Program

See also: iCal, Calendar

Monday, June 10

9:00 - 10:00	**Registration and Get-Together**
10:00 - 12:00	**Introduction** Talks on VO infrastructure (see PDF), the VO as a tool for science (PDF), and a snapshot of first results from the CoSADIE data center census (PDF).
12:00 - 13:00	**Lunch at the IWH**
13:00-15:00	**Inputs from Data Centers Ia** Short contributions by data providers on what they did or need to do to get their data out. • S. Erard - A Planetary Science VO prototype (13:00), PDF Abstract • C. Espinosa - The IAC80 telescope data to the Virtual Observatory (13:20), PDF Show Abstract • J. Retzlaff - Releasing ESO public survey data through the Phase 3 (13:40), PDF Show Abstract • A. Micol - ESO science archive: 1D spectra publishing process (14:00), PDF Show Abstract • P. Le Sidaner - VOParis Data Centre as a VO Archive (14:20), PDF Show Abstract

15:30-16:50 **Inputs from Data Centers Ib**

Short contributions by data providers on what they did or need to do to get their data out.

- C. Boisson - Data from the Cherenkov Teleskope Array (15:30)
- O. Fors - The integration of the data from Telescope Fabra RDA Montsec to the Virtual Observatory (16:00), PDF
  Show Abstract
- R. Henderson - Easing the Pain of Astronomical Database Access (16:20), PDF
  Show Abstract
- A. Ederoclite - The Processing and Archiving Unit of the Javalambre Astrophysical Observatory. (16:40), PDF
  Show Abstract

16:50-18:00 **Publishing to the VO**

This session will feature talks on: what means publishing to the VO, what do you get when you do and how to publish data to the VO.

- What is Publishing to the VO? [Markus Demleitner], PDF
  Show Abstract
- Why Publish to the VO? [Séverin Gaudet], PDF
  Show Abstract
- How to Publish to the VO. [Marco Molinaro], PDF
  Show Abstract

8:50-11:10 **Inputs from Data Centers II**

Short contributions by data providers on what they did or need to do to get their data out.

- L. Paioro - Vipers (8:50), PDF
- E. Solano - The GranTeCan and Calar Alto data centres (9:10), PDF
- E. Michel - The SpaceInn project: Exploitation of Space Data for Innovative Helio- and Asteroseismology (9:30), PDF
  Show Abstract
- S. Jordan - The Gaia archive (9:50), PDF
- K. Riebe - Data at the Leibnitz Institute for Astrophysics (10:10), PDF
- K. Dassas - SITools2 as VO service provider: an example with Herschel SAG-4 at IDOC (10:30), PDF
  Show Abstract
- P. Skoda - Employing VO standards in handling proprietary stellar data (10:50), PDF
  Show Abstract

11:10 - 11:40 **Coffee Break**

11:40 - 13:00 **Panel Discussion**

This will focus on requirements and feedback. There will be about four panelists, and you are invited to apply.

13:00 - 14:00 **Lunch at the IWH**

14:00 - 15:30 **Concluding discussion (PDF)**

- Participation

39 people from 6 different nations (Czech Republic, France, Germany, Italy, Spain, Great Britain) participated in the Forum. See Table 1 and Figure 1 for details.

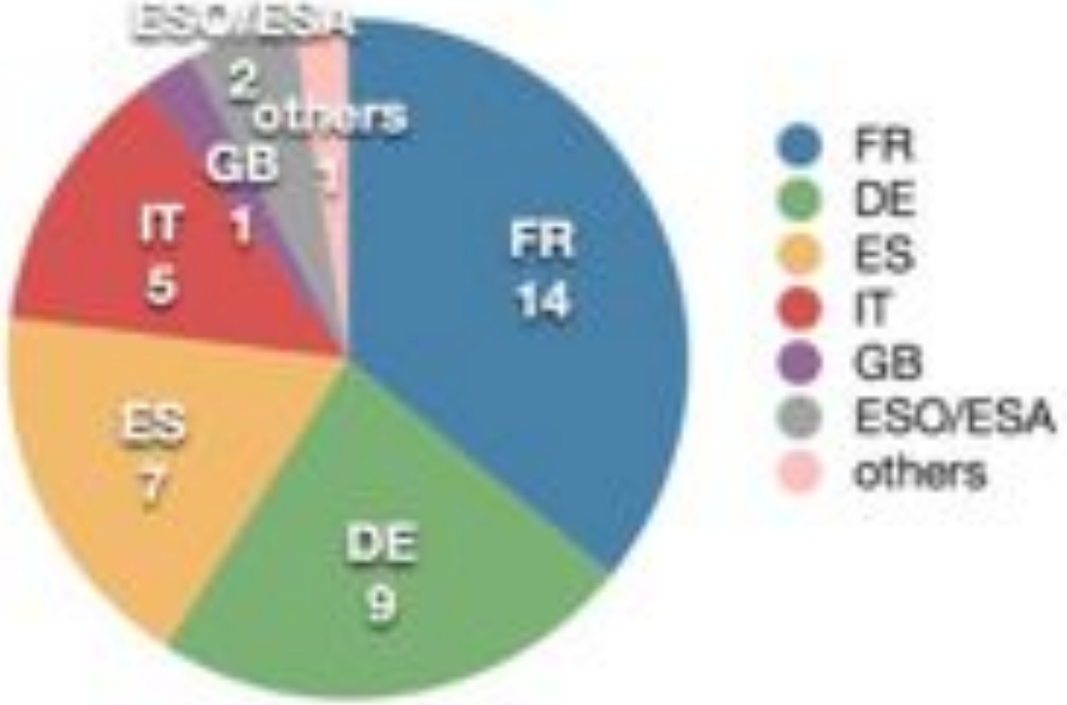

Figure 1, Participants distribution

FR	DE	ES	IT	GB	ESO/ ESA	Others	Total
14	9	7	5	1	2	1	39

Table 1: Participants distribution

- Diverse community of participants
- International agencies (ESO), large national/international projects, smaller telescopes, Institutes, Surveys and topical projects, interdisciplinary areas: planetary, solar, Cherenkov science

- Extracts of concluding discussions

- **The elements for the system to work**
  - **The will of the data centres to show up in the VO – their own will or VO compulsory for some projects**
  - **A political decision to open data from a telescope/an instrument**
  - **IVOA to get the standards**
  - **Usable and useful standards**
  - **Top class clients – "Common tools" avoid developing your own tools**
  - **Support of knowledgeable teams is very useful/indispensible**
  - **It helps to have a national VO project which can provide help**

Diversity of expectations, approaches and uses of the system

- Two important motivations for astronomy users and other disciplines
  - Take advantage of the huge amount of intellectual investment on the IVOA standards
  - Take advantage of the clients, which can be complementary of the discipline specific tools

- "Political" aspects – wrt. European astronomy
  - *Networking* of European telescopes within a common strategic frame is one of Astronet strands of work - VO role in that respect has to be pointed at to them
  - *Integration* into a common framework – integration is also a strong keyword for EC
  - World-wide dissemination of European data
  - Top class clients give access to the data as well as to the data of any other telescope
  - In particular integration of smaller telescopes in the European/international framework and world-wide dissemination of their results

- Technical aspects
  - Registry is a critical element – has to be fully maintained and easily usable
  - Different level of VO support are possible (the iceberg metaphor) – think first about what you want to expose and about the context in which you work
  - Can be useful to have the VO in mind when building a new system or re-engineering an existing one (cf the “intellectual investment” put in the VO)

- Difficulties
  - The IVOA has its own schedule which may not match the development schedule of large organisations – specific surveys may have more flexibility.
  - IVOA has to publish its own schedule, split large standards into more easily manageable pieces and provide foreseen completion dates
  - Adjust your strategy towards the VO to the available local expertise
  - Convincing communities: develop compelling examples can help
  - DMs aiming at fitting everything versus building blocks for data models to allow community specific extensions?

HOW TO HELP DATA CENTRES

- Hands-on publishing workshops - strong demand
- Explain components rather than end-to-end publishing
- Maintain coordination in community
- Maintain Infrastructure
- Foster connection to code repository projects