

Situation de l'OV astronomique

Réunion annuelle de l'Action Spécifique Observatoires Virtuels France



Réunion annuelle de l'AS OV, 11 octobre 2010, F. Genova

<http://www.ivoa.net>



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L'IVOA évolue

- Passage progressif en phase opérationnelle
- Evaluation du fonctionnement depuis sa création (mi-2002)
- Travail sur l'architecture
- Evolutions
 - Nouveaux projets partenaires
 - Priorités scientifiques
 - « Liaisons »
 - Evolution des groupes de travail et 'Interest Groups'



Evolutions de l'Exécutif et des partenariats

- Exécutif
 - Président/Vice Président: Paolo Padovani (ESO), Ajit Kembhavi (IUCAA)
 - TCG: Christophe Arviset (ESA), Séverin Gaudet (CADDC)
 - Secrétaire: Mark Allen (CDS)
- Arrivée du Brésil en 2009 (premier pays d'Amérique du Sud)
- Officialisation de la participation de l'ESA et de l'ESO (jusque là partenaires via Euro-VO)



Architecture

- Reprise complète de la description de l'architecture
- Réunion (la première, 2 jours) du TCG à Victoria



Point de départ

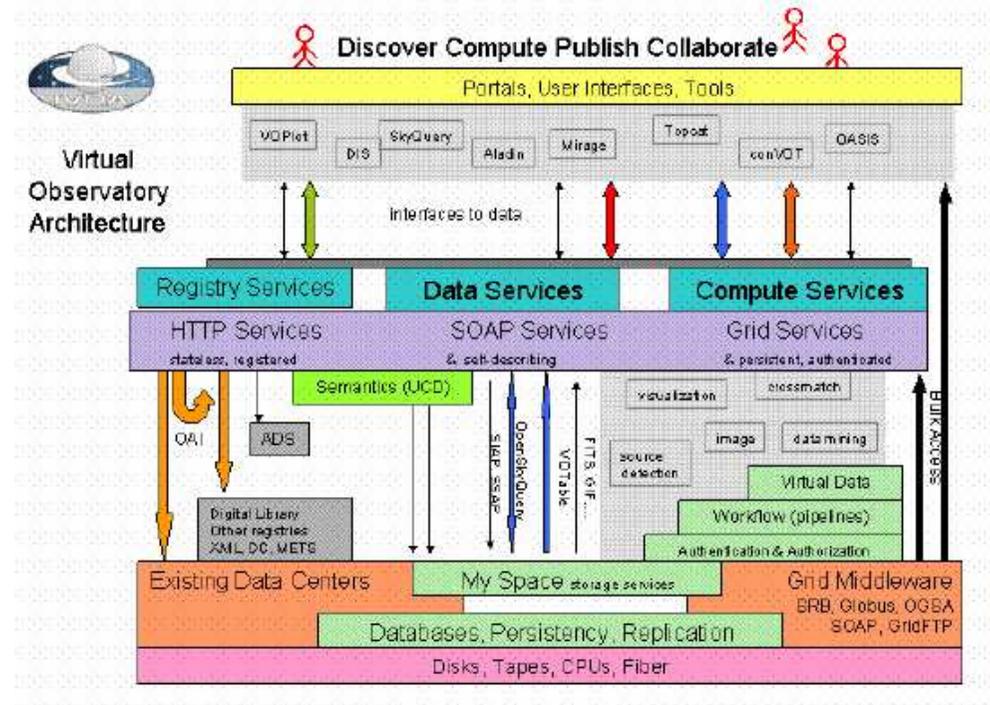


Schéma 2004



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TCG F2F#1 Participants



TCG

- TCG - Christophe and Severin
- Apps WG – Tom and Mark
- DAL WG – Keith and Jesus
- DM WG - Mireille
- GWS WG – Matthew
- Registry WG - Ray
- Semantics WG – Sebastien
- VOEvent WG - Rob
- VOTable WG – Francois
- Std & Proc Ctte– Francoise
- Theory IG – Herve
- IVOA – Fabio and Paolo



IVOA Architecture

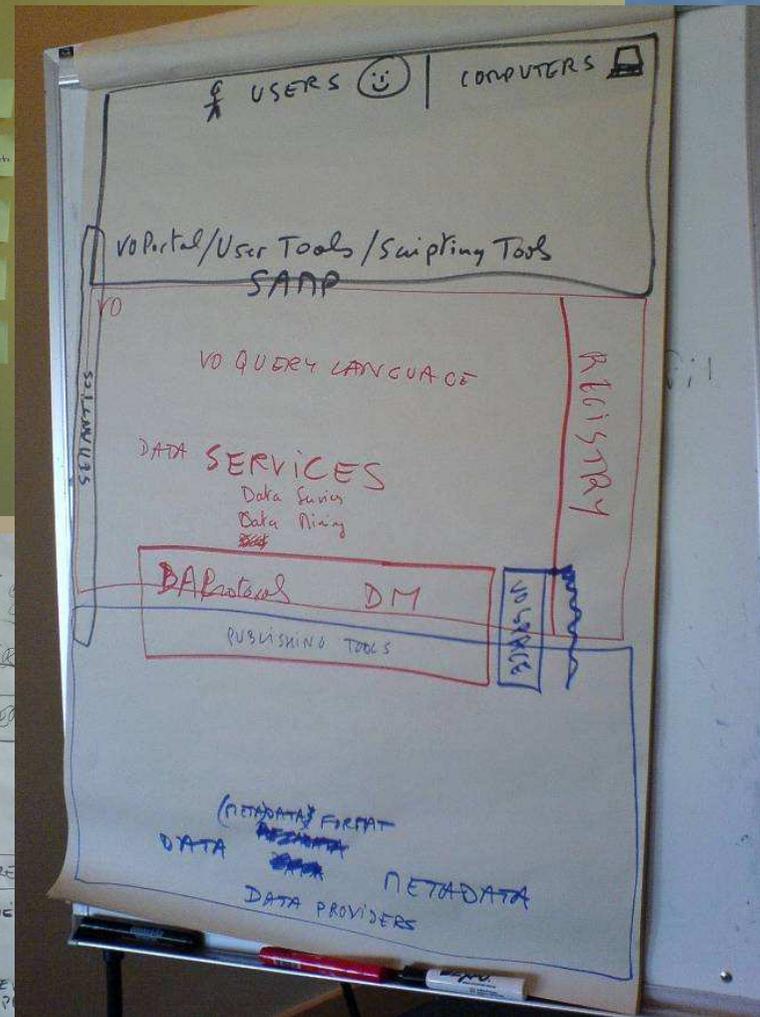
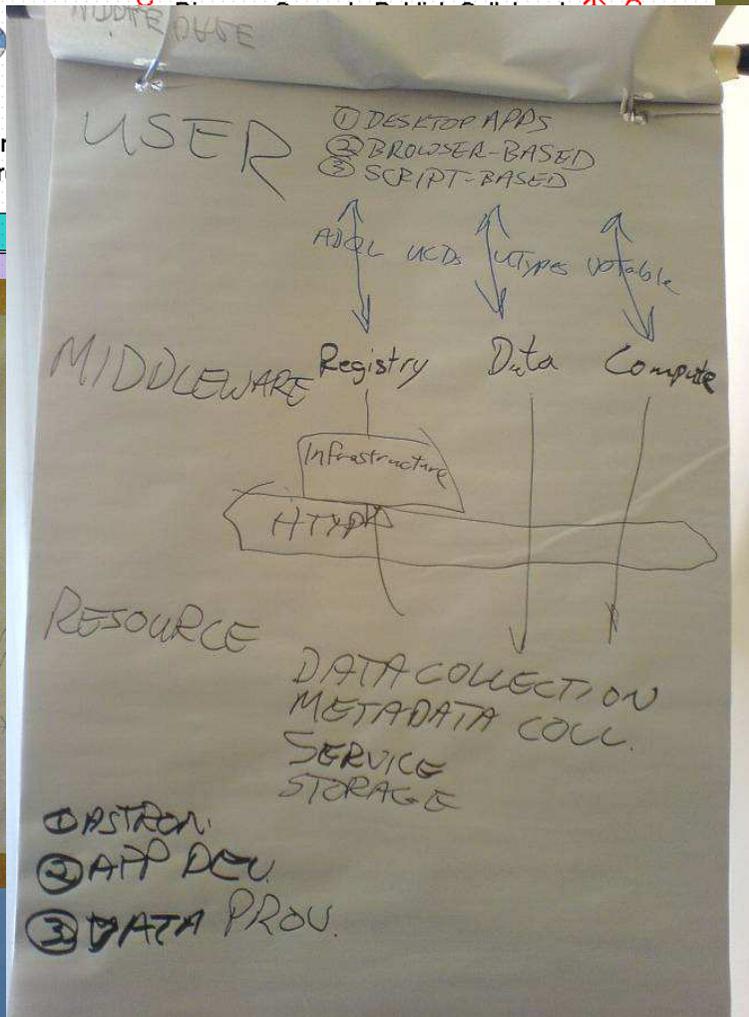
In progress



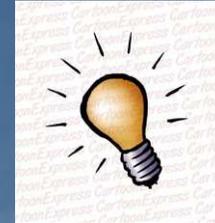
TCG



Virtual
Observator
Architectur



IVOA Architecture Getting there



TCG

level 0

USER / COMP		
G E I T I N G	USING	1-2A-2B
	CORE	
	SHARING	
RESOURCE LAYER		

→

USER / COMP		
D A L T P O R T	APPS.	APP-SOCIETY
	DME	
	Q. LANGUAGES	
	SEMANTICS	
PUBLISHING		
R. LAYER		

level 1

Introduction to
IVOA
high level
architecture

USER LAYERS		
D A L T P O R T	USING	R. SOCIETY
	DBS	
	PQL	
	SEM. Vocab	
SHARING		
RESOURCE LAYER		

PROVIDERS

1 OR 2 documents?

USER LAYER

Apps:

- SSAP
- SLAP *
- TAP
- SEAP
- SimDAP
- SIAP
- SCS

PROVIDERS:

- SAMP
- SSO
- SSL
- VOEvent
- SimDM
- Pipe *
- VOspace
- UWS *
- CDP
- WS BP *
- ObsCoord *
- ObsProv DM *
- Phot DM *
- VOspace

RESOURCE LAYER

PROVIDERS:

- Resource Meta
- Registry Interf.
- VOSI *
- VO Resource *
- VOApplications *
- RepSimple DAL *
- VOStandard *
- VODataService *

PROVIDERS

EXAMPLES OF DATA

- incl. obs. data.
- theoretical models
- journal

CORE

- ADQL *
- PQL *
- DM
- Units *
- Types DM *
- SIC

Semantics

- Formats
- UCD / +
- Vocabularies
- VOtable
- Resource Identifiers

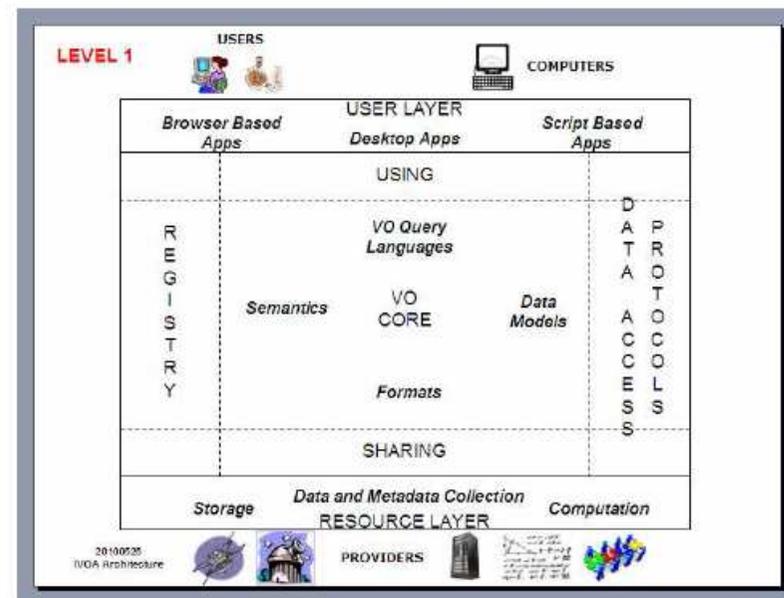
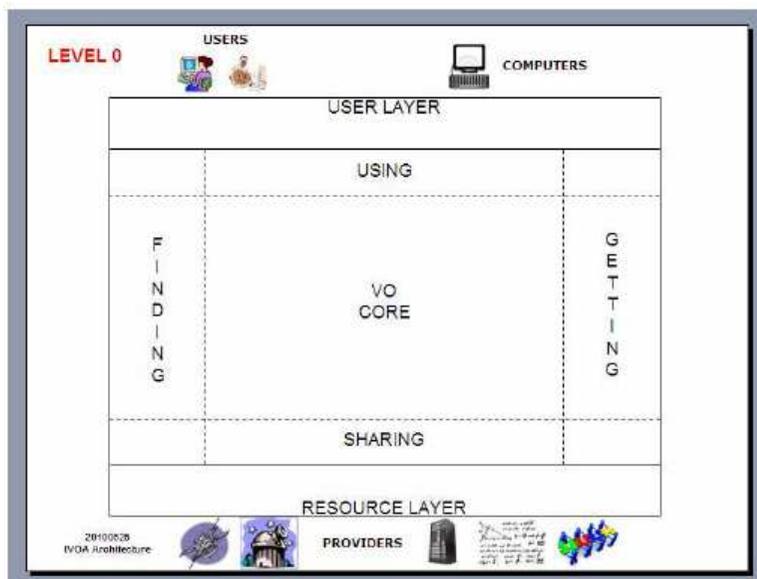


Schéma 2010



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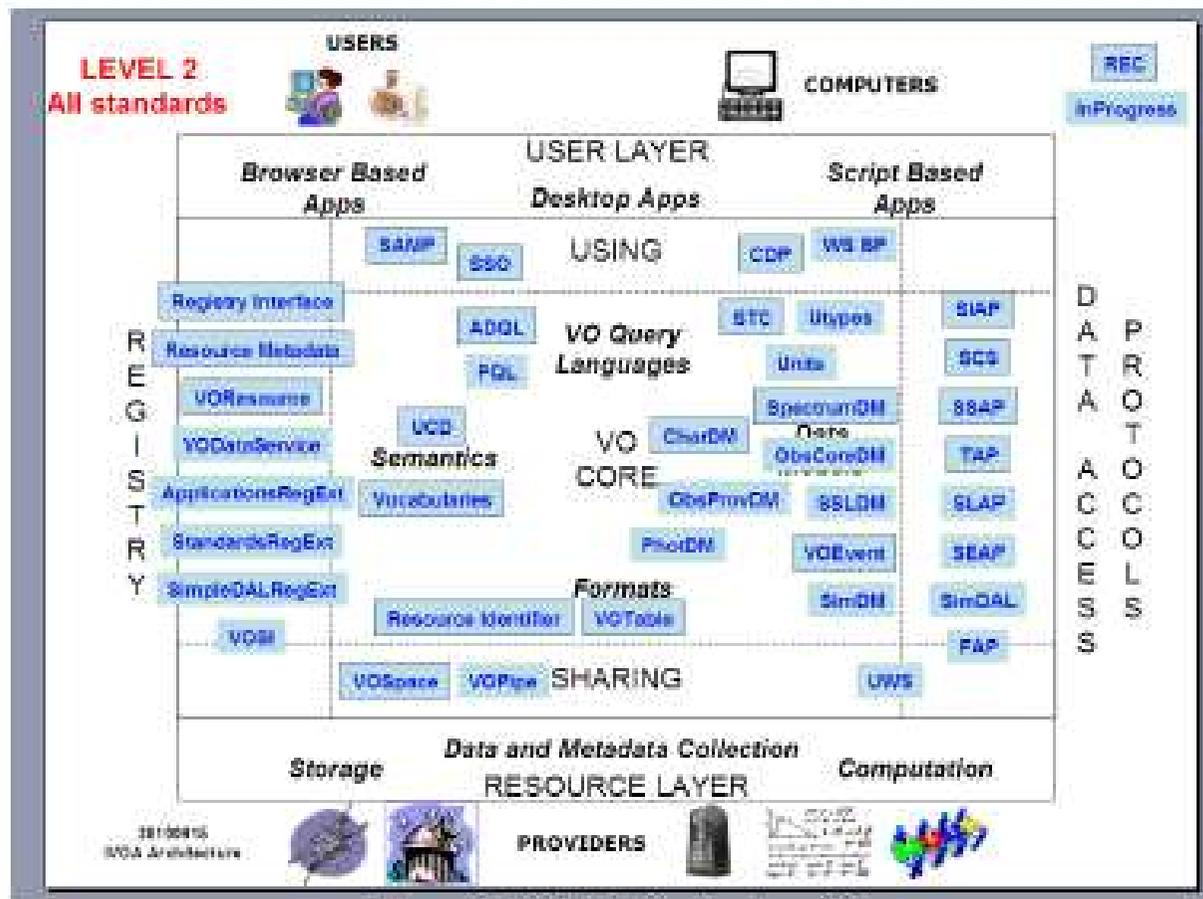


Figure 3: IVOA Architecture Level 2



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Standards	WG	Date	Comments
2003			
IVOA Document Standards v1.0	Standards & Process Committee	October. 2003	IVOA Doc Std v1.2 in 2010
2004			
VOTable v1.10 VOTable Format Definition	VOTable	August 2004	VOTable v1.2 in 2009
2005			
UCD v1.10 An IVOA Standard for Unified Content Descriptors	Semantics	August 2005	
2006			
Maintenance of the list of UCD words v1.20	Semantics	May 2006	
VOEvent v1.11 Sky Event Reporting Metadata	VOEvent	November 2006	
2007			
Standards	WG	Date	Comments
IVOA Identifiers v1.12	Registry	March 2007	
Resource Metadata for the Virtual Observatory v1.12	Registry	March 2007	
UCD 1+ v1.23 The UCD1+ controlled vocabulary	Semantics	April 2007	UCD 1+ v1.3 expected in 2009
STC v1.33 Space-Time Coordinate Metadata for the VO	DM	October 2007	
SpectraDM v1.01 Spectral Data Model	DM	October 2007	



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2008			
Standards	WG	Date	Comments
SSO v1.03 Single-Sign-On Profile: Authentication Mechanisms	GWS	January 2008	
VOSpace v1.02 VOSpace service specification	GWS	January 2008	VOSpace v1.15 in September 2009
VOResource v1.03 VOResource: an XML Encoding Schema for Resource Metadata	Registry	February 2008	
SCS v1.03 Simple Cone Search	DAL	February 2008	
SSAP v1.04 Simple Spectra Access Protocol	DAL	February 2008	
CharDM v1.13 Data Model for Astronomical DataSet Characterization	DM	March 2008	
ADQL v2.0 Astronomical Data Query Language	VOQL	October 2008	
2009			
Standards	WG	Date	Comments
SAMP 1.11 Simple Application Messaging Protocol	Apps	April 2009	
Vocabularies 1.16	Semantics	September 2009	
VOSpace 1.5	GWS	September 2009	Update from VOSpace 1.0
Registry Interface 1.01	Registry	September 2009	
SIAP 1.0 Simple Image Access Protocol	DAL	November 2009	
VOTable v1.2 VOTable Format Definition	VOTABLE	November 2009	Update from VOTable 1.10
CDP 1.0 Credential Delegation Protocol	GWS	November 2009	
2010			
Standards	WG	Date	Comments
TAP 1.0 Table Access Protocol	DAL	February 2010	
IVOA Document Standards v1.2	Standards & Process Committee	March 2010	Update from IVOA Document Standards v1.0



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IVOA Standards in progress

Standards	WG	Date	Comments
2010 (RFC started and later)			
UWS 1.0 Universal Worker Service	GWS		TCG Review completed
VODataService 1.1	Registry		TCG Review completed
SSLDM 1.0 Simple Spectra Line DM	DM		TCG Review
SLAP 1.0 Simple Line Access Protocol	DAL		TCG Review
VOSI 1.0 IVOA Support Interface	GWS		Updates required after RFC
WS BP 1.0 Web Service Basic Profile	GWS		Updates required after RFC
SAMP 1.2 Simple Application Messaging Protocol	Apps		Minor updates from SAMP 1.11

2011 (in progress)			
SIAP 2.0 Simple Image Access Protocol	DAL		Update from SIAP 1.0
SSAP 1.1 Simple Spectra Access Protocol	DAL		Update from SSAP 1.04
Footprint Access Protocol	DAL		
PQL 1.0 Parameter Query Language	DAL / VOQL ?		
ObsCoreDM Observation Core DM	DM		
ObsProvDM Observation and Provenance DM	DM		
SpectrumDM 1.1	DM		Update from SpectrumDM 1.03
CharDM 2.0 Characterization DM			Update from CharDM 1.0
PhotDM Photometry DM	DM		
UTYPES DM	DM		
UNITS	DM		
VOSpace 2.0	GWS		Update from VOSpace 1.15
VOPipe	GWS		
StandardRegExt	Registry		
SimpleDALRegExt	Registry		
UCD 1+ 1.3	Semantics		Update from UCD 1+ 1.23
Ontology	Semantics		
VOEvent 2.0	VOEvent		
SEAP 1.0 Simple Event Access Protocol	VOEvent / DAL ?		
SimDM Simulation DM	Theory / DM ?		
SimDAL Simulation Data Access Layer	Theory / DAL ?		



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Priorités scientifiques

- Discussions depuis mai 2009: ‘Take-up’ Group
- Mise en place d’un ‘Standing Committee’ en mai 2010
- Proposition de priorités, discussion TCG et Exécutif
- Depuis mai 2009: ObsTAP

Les éléments nécessaires pour décrire les observations (‘fast track’)

- Photométrie/construction de SED



Evolution des groupes de travail

- VO Query Language est fusionné dans Data Access Layer
- Astro-RG IG transféré dans G&WS
- Création d'un IG Data Mining



Evolution des projets

- Problèmes de pérennité
 - VOA (NVO) mis en place et sélectionné mais retards > en cours de redémarrage
 - Souvent des difficultés à assurer des financements récurrents
 - Europe: EuroVO-AIDA est terminé, un tout petit projet de transition : EuroVO-ICE
 - EuroVO-AIDA a d'excellents résultats mais pas facile de trouver un cadre de soutien européen pour la suite



EuroVO-AIDA

- Workshops: astronomes, centres de données
- Registry
- Tutoriels utilisateurs
- Dissémination en milieu scolaire
- Participation au développement des standards, avec un WP particulier pour Data Access Layer et Data Model
- Etude de l'utilisation de nouvelles technologies (Web 2.0, Sémantique, Fouille de Données)



The last annotations
received as of 4 Oct. 2010
mid-morning



<http://cdsannotations.u-strasbg.fr/annotations/last?nb=100>

Expected results

- A change in paradigm for the data centre: allowing users to provide input and include it in the services AND maintain quality standards
- To be very closely monitored
- Internal procedures to be adapted to deal with the annotations

Assessment after 7 months

- Users are interested, and it brings new interesting information
- Power users/regular users
- The technical system is robust, a few updates to improve the user interface
- CDS staff VERY interested
- Most annotations require an action from us, internal procedures adapted
- Content improved (annotations + error correction)
- All annotations received are bona fide – but we continue to check closely
- On going: implementation in Vizier

WebHome < EuroVOICE < TWiki - Mozilla Firefox

Eichier Édition Affichage Historique Marque-pages Outils ?

http://www.eurovo-ice.eu/twiki/bin/view/EuroVOICE/WebHome

WebHome < EuroVOICE < TWiki

Home EuroVOICE Web View Edit Account

EURO VO
ICE International
Cooperation Empowerment Inc.

Jump Search Edit Attach

Tags: [create new tag](#) , [view all tags](#)

Welcome to the Euro-VO ICE International Cooperation Empowerment

This is the web-based collaboration area of the Euro-VO International Cooperation Empowerment project. This [project](#) is a Coordination Action supported by EU in the framework of the FP7 initiative (INFRA-2010-2.3.3 Research Infrastructures, project 261541). It started on 1 September 2010, for a duration of 12 months.

EuroVO-ICE succeeds the Integrated Infrastructure Initiative [Euro-VO Astronomical Infrastructure for Data Access \(EuroVO-AIDA\)](#), which ended on 1 September 2010.

Highlights

- [Euro-VO Technology Forum: 19-21 October 2010, Edinburgh](#)
- **Project start: 1 September 2010**

General information

- [Project Overview](#)
- [Project Partners](#)
- [Who is Who](#)
- [Schedule](#)
- [Euro-VO](#)
- [International Virtual Observatory Alliance](#)
- [IVOA Standards](#)
- [IVOA Working Groups](#)

Recent changes in EuroVOICE web:

- [ICETech Forum 1](#)
- [ICESchedule](#)
- [WP2 Strategy](#)
- [WP3 Coordination](#)
- [WP4 Technology](#)
- [Web Home](#)
- [ICEEvents](#)
- [WP5 Outreach](#)
- [WP1 Management](#)
- [Who Is Who](#)
- [ICEBoard](#)
- [ICEPartners](#)
- [ICEOverview](#)
- [Web Preferences](#)
- [ICEWPMT](#)
- [ICEIST](#)
- [more...](#)



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Comment mettre en œuvre les recommandations d'Astronet?



Les autres projets européens

- HELIO – soleil et héliosphère
- VAMDC – atomic and molecular data centre
- Et aussi: Europlanet II (activités ‘VO’ incluses dans un I3 du programme Infrastructures)



Welcome to the IPDA — IPDA - Mozilla Firefox

Fichier Édition Affichage Historique Marque-pages Outils ?

http://planetarydata.org/

ational planetary data alliance

Les plus visités Mail :: Bienvenue sur l... WebHome < EuroVOD... WebHome < EuroVOA... https://section17.oca... WebHome < Main < P...



Search Site Search
only in current sector

Home Members Projects IPDA System Architecture Documents Meetings

Log in

You are here: Home

QUICK LINKS

- Technical Experts Group
- Useful Links

UPCOMING EVENTS

PV 2009 Conference
Madrid, Spain,
Dec 01, 2009

Upcoming events...

NEWS

Website Redesign and Relaunch

IPDA Members: [Log in](#)

WELCOME TO THE IPDA



The IPDA's main emphasis is to ease discovery, access and use of planetary data by world-wide scientists regardless of which agency is collecting and distributing the data. Ensuring proper capture, accessibility and availability of the data is the task of the individual space agencies. The IPDA is focusing on developing an international standard which allows the following capabilities: query, access and usage of data across international planetary data archive systems. While, trends in other areas of space science are concentrating on the sharing of science data from diverse standards and collection methods, the IPDA shall concentrate on promoting standards which drive common methods for collecting and describing planetary science data across the international community. Such an approach will better support the long term goal of easing data sharing across system and agency boundaries. An initial starting point for developing such a standard will be



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En France



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Les « équipes OV » françaises

- Les activités des équipes OV continuent
 - Développement de standards
 - Développements d'outils
 - Centres de données et services
- Participation significative à l'IVOA



Activités de l'AS OV

- Support à des réunions (groupes de travail, réunions thématiques, *réunions régionales*)
- Support à la participation aux réunions de l'IVOA
- Colloque annuel
- Expertises pour la CSA
- *Participation à l'expertise sur les tâches de service SO5*



Evolution

- Développer le rôle de support aux astronomes (cf Ecole OV et déclinaison locale OP) – très orienté utilisation interdisciplinaire
- *Commentaires sur les besoins vis-à-vis de l'ASOV?*
- *Après la première phase d'exploration tous azimuths, carte de France des réalisations tangibles et objectifs des projets locaux/régionaux?*

