



State of the TCG

Waikoloa
2013-09-26

*Séverin Gaudet
For the TCG*



Technical Coordination Group

- ▶ Assures technical coordination amongst WGs/IGs
- ▶ Liaison with IVOA Exec
- ▶ Specific role in Recommendation Process

| | Chair | Vice-Chair |
|--|---|------------------------------------|
| TCG | Séverin Gaudet | Matthew Graham |
| Working Groups | | |
| Applications | Mark Taylor | Pierre Fernique |
| Data Access Layer | Patrick Dowler | François Bonnarel |
| Data Model | Jesus Salgado | Omar Laurino |
| Grid and Web Services | André Schaaff | Andreas Wicenec |
| Registry | Gretchen Greene | Pierre Le Sidaner |
| Semantics | Norman Gray | Mireille Louys |
| Interest Groups | | |
| Data Curation & Preservation | Alberto Accomazzi | Francoise Genova |
| Education | Massimo Ramella | Sudhanshu Barway |
| Knowledge Discovery in Databases | George Djorgovski | n/a |
| Theory | Franck Le Petit | Rick Wagner |
| Time Domain | John Swinbank | Mike Fitzpatrick |
| IVOA Committees | | |
| Exec | David Schade | Christophe Arviset |
| Standard and Processes | Francoise Genova | n/a |
| Science Priorities | Mark Allen | n/a |
| Inactive Working Groups | | |
| VOTable | Dormant | |
| VO Query Language | Merged with DAL in May 2010 | |
| VOEvent | Transformed into Time Domain IG in Oct 2012 | |



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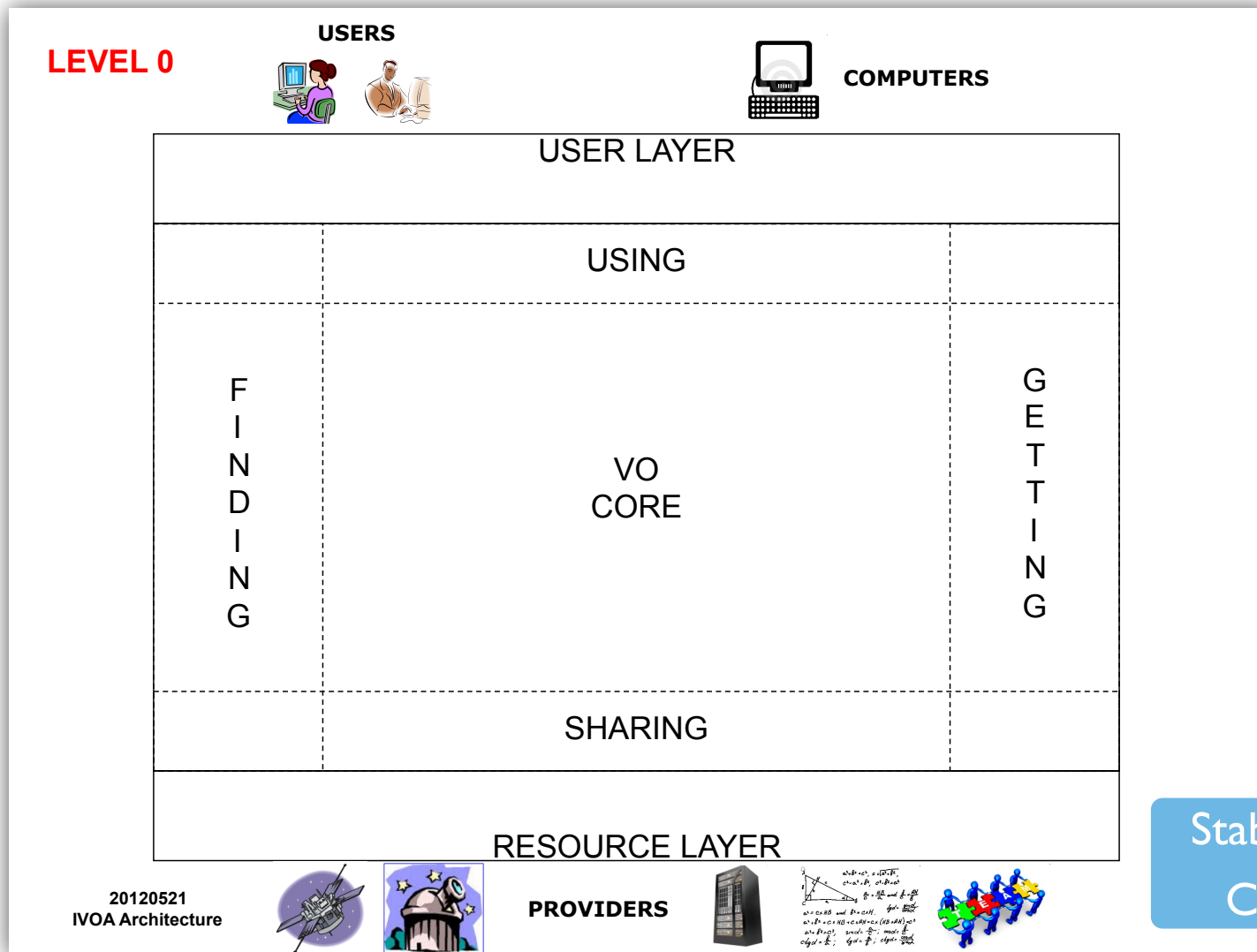
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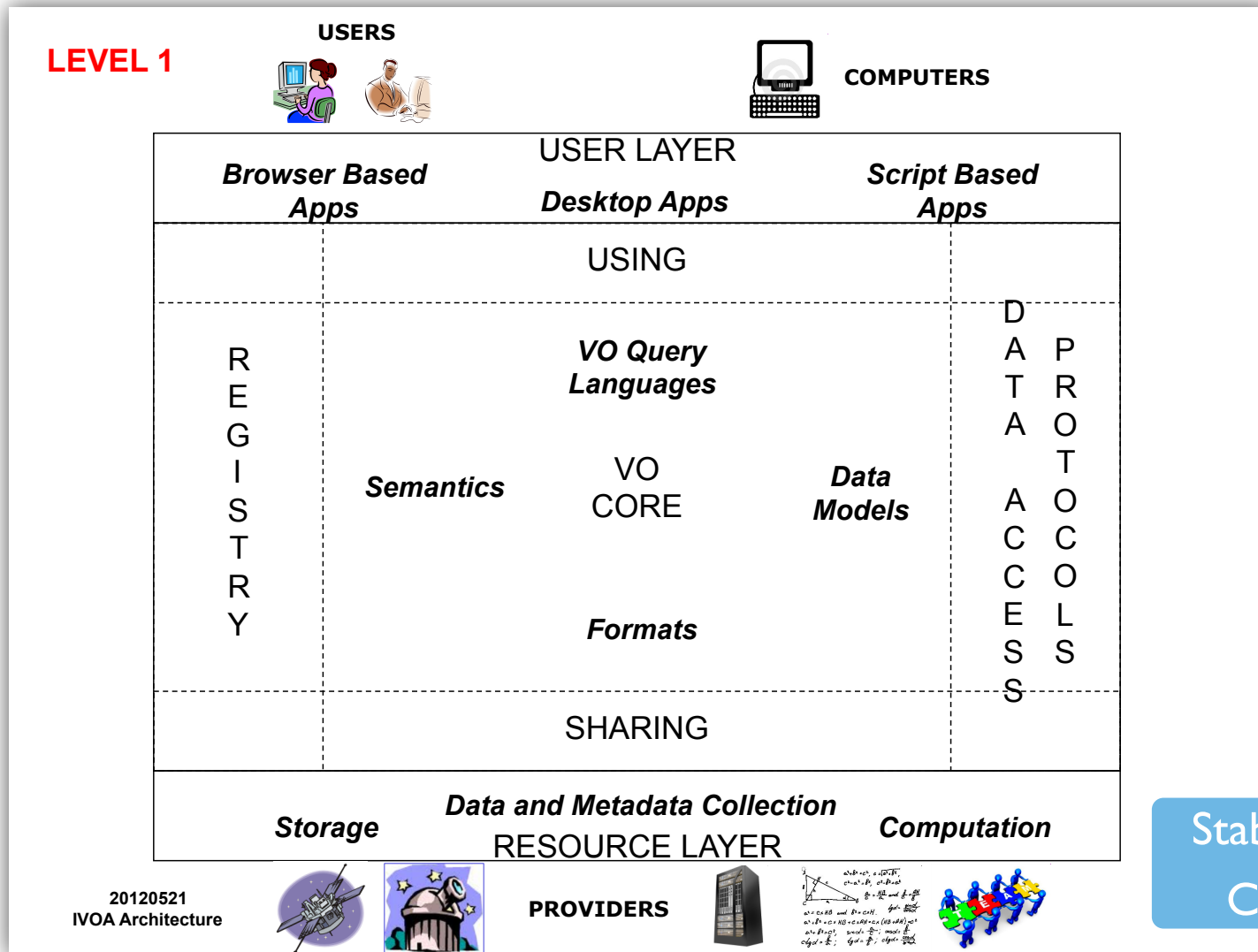


IVOA Architecture Level 0





IVOA Architecture Level I



Stable Since
Creation



IVOA Architecture Level 2

LEVEL 2
All standards

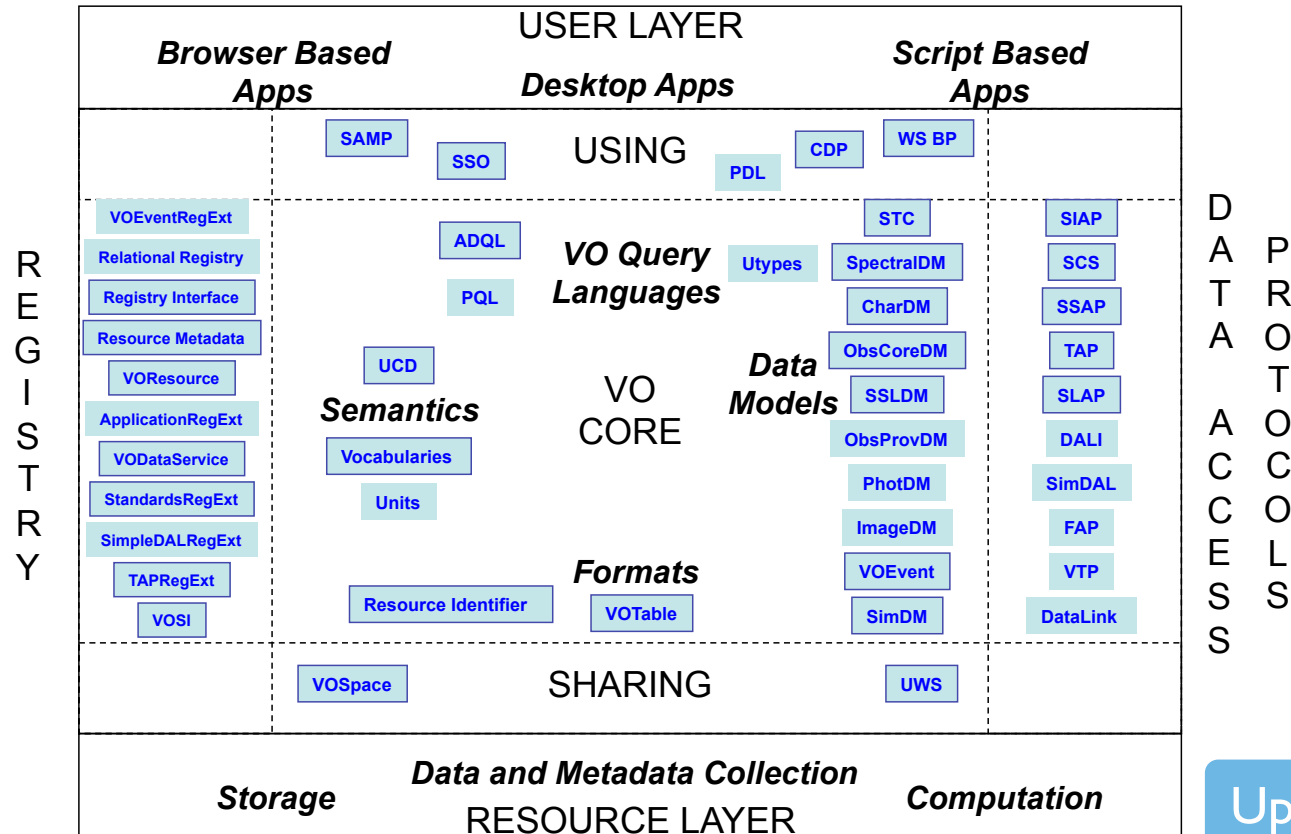
USERS



COMPUTERS

REC

InProgress

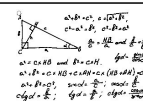


Updated with
new standards

20130516
IVOA Architecture



PROVIDERS





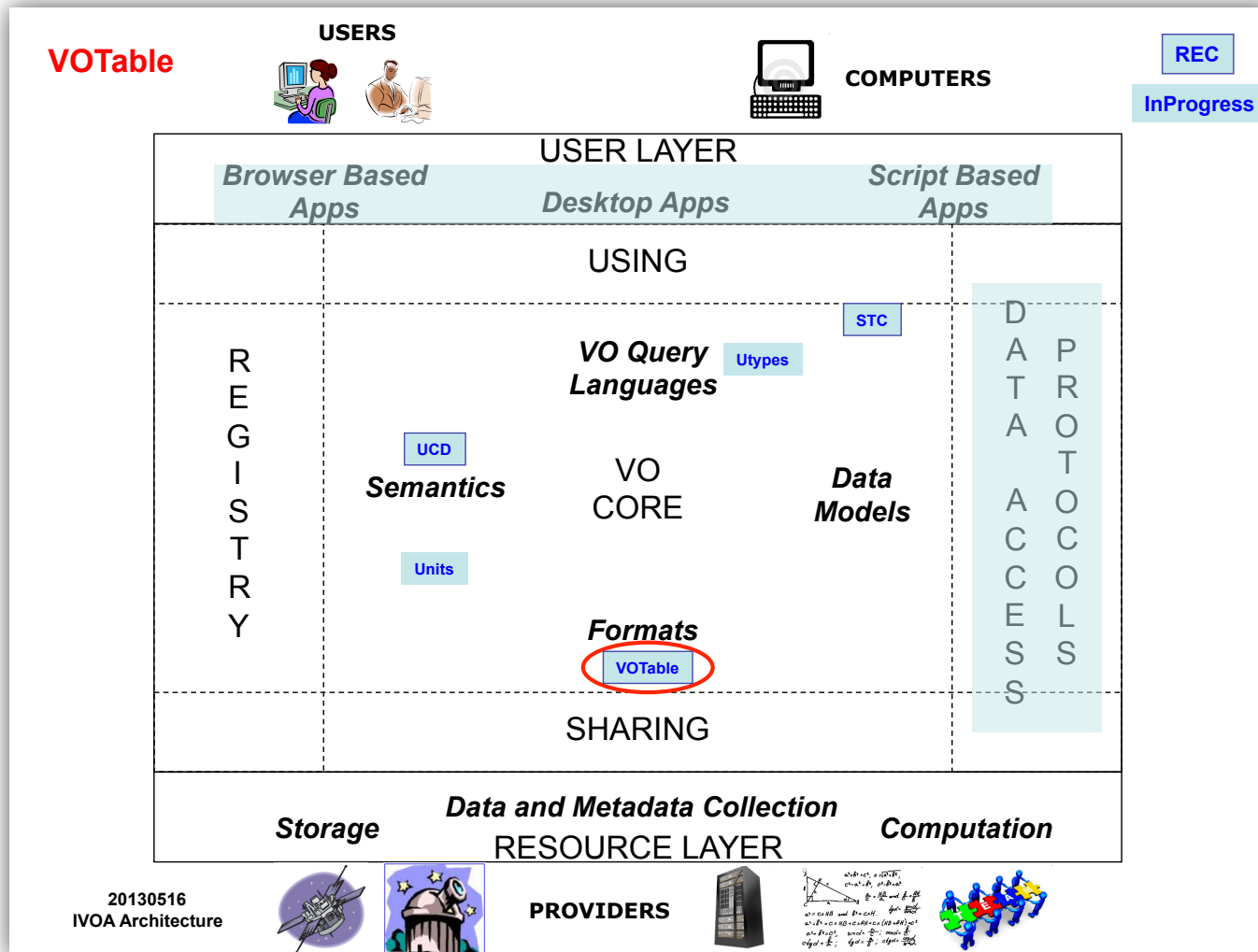
Standards into REC since last Interop

- ▶ Applications WG: VOTable 1.3
 - ▶ September 20, 2013





VOTable 1.3





PR's in the Rec Process

- ▶ SimpleDALRegExt 1.0
 - ▶ TCG complete; Exec recommendation in preparation
- ▶ PhotDM 1.0
 - ▶ Rec process re-started in July
 - ▶ Now in TCG review
- ▶ VOUnits 1.0
 - ▶ A new version last week
 - ▶ Still in TCG review
- ▶ Data Access Layer Interface DALI1.0
 - ▶ Still in TCG review
- ▶ Parameter Description Language PDL 1.0
 - ▶ In RFC period



IVOA Standards – I

| Standards | WG | Date | Comments |
|--|---------------------|----------|-------------------------|
| 2003 | | | |
| IVOA Document Standards v1.0 | Standards & Process | Oct 2003 | Updated to v1.2 in 2010 |
| 2004 | | | |
| VOTable v1.10 VOTable Format Definition | VOTable | Aug 2004 | Updated to v1.2 in 2009 |
| 2005 | | | |
| UCD v1.10 Standard for Unified Content Descriptors | Semantics | Aug 2005 | |
| 2006 | | | |
| Maintenance of the list of UCD words v1.20 | Semantics | May 2006 | Updated from v1.10 |
| VOEvent v1.11 Sky Event Reporting Metadata | VOEvent | Nov 2006 | Updated to v2.0 in 2011 |
| 2007 | | | |
| IVOA Identifiers v1.12 Resource Metadata for the VO | Registry | Mar 2007 | |
| UCD 1+ v1.23 The UCD1+ controlled vocabulary | Semantics | Apr 2007 | |
| STC v1.33 Space-Time Coordinate Metadata Standard | DM | Oct 2007 | |
| SpectraDM v1.01 Spectral Data Model | DM | Oct 2007 | |

More details can be found on the IVOA Document pages at:
<http://www.ivoa.net/Documents/>



IVOA Standards – 2

| Standards | WG | Date | Comments |
|---|-----------|----------|--|
| 2008 | | | |
| SSO v1.03 Single-Sign-On Profile | GWS | Jan 2008 | |
| VOSpace v1.02 VOSpace service specification | GWS | Jan 2008 | |
| VOResource v1.03 Encoding Schema for Resource Metadata | Registry | Feb 2008 | |
| SCS v1.03 Simple Cone Search | DAL | Feb 2008 | |
| SSAP v1.04 Simple Spectra Access Protocol | DAL | Feb 2008 | |
| CharDM v1.13 Dataset Characterization Data Model | DM | Mar 2008 | |
| ADQL v2.0 Astronomical Data Query Language | VOQL | Oct 2008 | |
| 2009 | | | |
| SAMP 1.11 Simple Application Messaging Protocol | Apps | Apr 2009 | |
| Vocabularies 1.16 | Semantics | Sep 2009 | |
| VOSpace 1.5 VOSpace Service Specification | GWS | Sep 2009 | Update from v1.0 Update to v2.0 in 2013 |
| Registry Interface 1.01 | Registry | Sep 2009 | |
| SIAP 1.0 Simple Image Access Protocol | DAL | Nov 2009 | |
| VOTable v1.2 VOTable Format Definition | VOTABLE | Nov 2009 | Update from v1.10 Updated to v1.3 in 2013 |
| CDP 1.0 Credential Delegation Protocol | GWS | Nov 2009 | |

More details can be
found on the
IVOA Document pages at:
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IVOA Standards – 3

| Standards | WG | Date | Comments |
|---|---------------------|----------|--|
| 2010 | | | |
| TAP 1.0 Table Access Protocol | DAL | Feb 2010 | |
| IVOA Document Standards v1.2 | Standards & Process | Mar 2010 | Update from v1.0 |
| UWS 1.0 Universal Worker Service | GWS | Oct 2010 | |
| VODataService 1.1 | Registry | Oct 2010 | |
| SSLDM 1.0 Simple Spectra Line DM | DM | Nov 2010 | |
| SLAP 1.0 Simple Line Access Protocol | DAL | Nov 2010 | |
| WS BP 1.0 Web Service Basic Profile | GWS | Dec 2010 | |
| SAMP 1.2 Simple Application Messaging Protocol | Apps | Dec 2010 | Minor update from v1.11 Updated to v1.3 in 2012 |
| 2011 | | | |
| Standards | WG | Date | Comments |
| VOSI 1.0 IVOA Support Interface | GWS | May 2011 | |
| VOEvent 2.0 | VOEvent | Jul 2011 | |
| ObsCoreDM 1.0 Observation Core Data Model | DM | Oct 2011 | |
| SSAP 1.1 Simple Spectra Access Protocol | DAL | Nov 2011 | Update from v1.04 |
| SpectrumDM 1.1 Spectrum Data Model | DM | Nov 2011 | Update from v1.03 |

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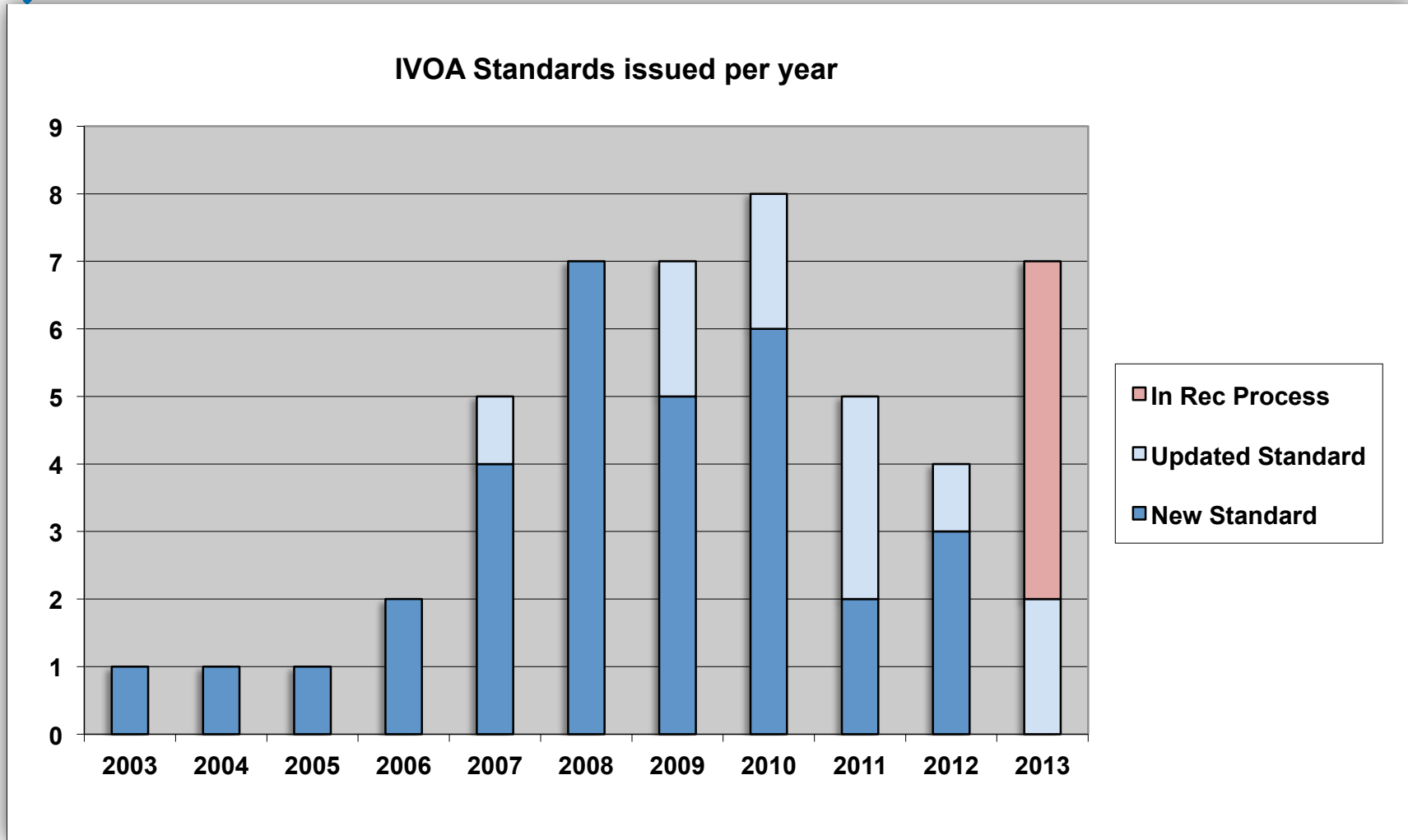
IVOA Standards – 4

| Standards | WG | Date | Comments |
|---|-------------|----------|-------------------|
| 2012 | | | |
| SAMP 1.3 Simple Application Messaging Protocol | Apps | Apr 2012 | Update from v1.2 |
| StandardRegExt 1.0 Standard Registry Extension | Registry | Apr 2012 | |
| SimDM 1.0 Simulation Data Model | Theory / DM | May 2012 | |
| TAPRegExt 1.0 Table Access Protocol Registry Extension | DAL | Jun 2012 | |
| 2013 | | | |
| VOSpace 2.0 VOSpace Service Specification | GWS | May 2013 | Update from v1.15 |
| VOTable 1.3 VOTable Format Definition | Apps | Sep 2013 | Update from v1.2 |

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IVOA Standards per year





May InterOp Review

- ▶ Complete process for PRs in progress
- ▶ Other WDs being readied for PR
- ▶ Parallel development of capabilities for multi-dimensional data in DAL and DM
- ▶ Prototyping: To develop enough implementation knowledge to inform the decisions
 - ▶ Cube access version 1
 - ▶ VO-DML and Utypes
 - ▶



May InterOp Review

- ▶ Complete process for PRs in progress
 - ▶ VOTable, SimpleDALRegExt
- ▶ Other WDs being readied for PR
 - ▶ PDL
- ▶ Parallel development of capabilities for multi-dimensional data in DAL and DM
 - ▶ Yes!
- ▶ Prototyping: To develop enough implementation knowledge to inform the decisions
 - ▶ Cube access version 1
 - ▶ Several prototypes!
 - ▶ VO-DML and Utypes
 - ▶ Several prototypes!



May InterOp Review

- ▶ **ObsCore**
 - ▶ Need to promote a wider take-up of ObsCore
 - ▶ Important to provide clients for ObsTAP
 - ▶ Encourage application developers to consider this
 - ▶ A future focus session for data providers?

- ▶ **IVOA software repository**
 - ▶ Recognized as an important tool for take-up
 - ▶ Further discussions are planned



Publishing Data in the VO

- ▶ All InterOp participants are invited to provide input
- ▶ “Contact Us” link added:
datapub@ivoa.net

The screenshot shows a TWiki page interface. At the top, there is a navigation bar with a 'Jump' dropdown menu and a 'Search' input field. Below this, the breadcrumb trail reads 'TWiki > IVOA Web > PublishingInTheVONew (2013-05-12, MarkTaylor)'. To the right of the breadcrumb are 'Edit' and 'Attach' buttons. The main heading of the page is 'Publishing Data into the VO'. Below the heading is a table of contents with four items, each preceded by a downward arrow: '0. Introduction', '1. Questions & Answers about what type of data to be published into the VO', '2. Registry for VO Data Service Discovery', and '4. Developer's corner : other useful software tools and libraries for VO development'. The page content begins with the section '0. Introduction', which states: 'The purpose of this page is to provide practical information about how to publish you data holdings into the VO. The content of this page is user contributed by members of the IVOA community and its content will evolve as IVOA standards and implementations evolve. Depending of your needs and your technical experience, there are several ways to publish you data into the VO:'. A bulleted list follows, starting with 'if you have very little technical expertise, you might want to contact your national VO projects who might already have the infrastructure to host your data and make it available to the VO. See the [list of national VO projects](#) and the [selection of open data centers](#) offering publication as a service.'

<http://wiki.ivoa.net/twiki/bin/view/IVOA/PublishingInTheVONew>



IVOA Roadmap

- ▶ Roadmap page to be updated by WG/IG chairs after each InterOp.
- ▶ One page per IVOA “semester” – A and B
- ▶ Links to the Roadmap added to website footer

TWiki > IVOA Web > IvoaTCG > 2013Roadmap (2013-05-13, AndreSchaaff) Edit Attach

IVOA Roadmap for 2013

This outlines the roadmap for development activities by the various IVOA working and interest groups in 2013.

- ↓ [IVOA Roadmap for 2013](#)
 - ↓ [Applications](#)
 - ↓ [Data Access Layer](#)
 - ↓ [Data Model](#)
 - ↓ [Grid and Web Services](#)
 - ↓ [Registry](#)
 - ↓ [Semantics](#)
 - ↓ [Data Curation & Preservation](#)
 - ↓ [Knowledge Discovery in Databases](#)
 - ↓ [Theory](#)
 - ↓ [Education](#)
 - ↓ [Time Domain](#)
 - ↓ [Standard and Processes](#)
 - ↓ [Science Priorities](#)

Applications

- **VOTable 1.3:**
 - Mar 2013: PR: [VOTable-1.3-PR-20130315](#)
 - May 2013: TCG review (ends 29 May 2013); no major disagreements at RFC stage
 - Jun 2013: REC?

<http://www.ivoa.net>



This InterOp

- ▶ An experiment
 - ▶ Contiguous with ADASS
 - ▶ Technically focused
- ▶ Important decisions
 - ▶ Multi-dimensional data access
 - ▶ Utypes
 - ▶ And many others
- ▶ I wish you all a productive three days in spite of the distracting surroundings!

