Concluding Remarks

Paolo Padovani

Chair, IVOA Executive Committee





- Status of Argentina, Brazil, and Australian VO
 - ✓ South America: ramping up!
 - ✓ Want to publish data in the VO, finding it difficult
 - lack of ONE entry point for data centres on IVOA pages
 - lack of "publishing package"
 - situation should improve with new IVOA Web pages
 - o related to "Large projects and surveys and the IVOA"
 - ✓ Australia: no dedicated VO funding but all new big projects are planning VO compliancy from the start





- Expiring Terms for WG Chairs and vice Chairs
 - ✓ six WGs + TCG affected
 - ✓ thorough discussion on new names and possible extensions
 - ✓ criteria:
 - expertise!
 - geographical
 - political





- **Applications**: *Mark Taylor* (Chair), *Enrique Solano* (vice Chair) [effective July 2011]
- Data Model: Jesus Salgado (Chair), Omar Laurino (vice Chair)
- Grid and Web Services: Andreas Wicenec (Chair), André Schaaf (vice Chair)
- **Semantics**: 1-year extension to current Chair and vice Chair (*Derrier, Gray*)
- Theory: 1-year extension to current Chair (Wozniak), Franck Le Petit (vice Chair)
- **VOEvent**: *Matthew Graham* (Chair)
- TCG: 1-year extension to current Chair and vice Chair (*Arviset*, *Gaudet*)





- Thanks to:
 - ✓ *Tom McGlynn* (Applications)
 - ✓ Mireille Louys (Data Model)
 - ✓ *Matthew Graham* and *Paul Harrison* (GWS)
 - ✓ Claudio Gheller (Theory)
 - ✓ Rob Seaman (VOEvent)
- And a special "Thank you" to Dave De Young!





Astronomical Data

Already many large-area surveys available: e.g., NVSS, FIRST, WENSS (radio); IRAS, 2MASS, DENIS, UKIDSS (IR); SDSS, 2dF (optical); GALEX (UV); ROSAT, XMM (X-ray); EGRET, *Fermi* (gamma-ray).

More to come (an incomplete list!):

- Wide Field Infrared Explorer (WISE): ~ 500 million near-IR sources, all-sky [now]
- <u>Visible and Infrared Survey Telescope for Astronomy (VISTA):</u> ≈ a few billion near-IR sources, half-sky [now]
- <u>Low Frequency Array (LOFAR):</u> ~ 50 million radio sources, half-sky [now]
- Panoramic Survey Telescope and Rapid Response System (PAN-STARRS): ≈ 20 billion optical sources [now]





Astronomical Data

- *e-Rosita:* ~ 2 million X-ray sources, all-sky [2012]
- Square Kilometre Array (SKA) Pathfinders (EVLA, ASKAP, ATA, Meerkat, Apertif, ...): ≈ 100 million radio sources each (half-sky) [2013]
- <u>Large Synoptic Survey Telescope (LSST):</u> ≈ 20 billion optical sources [2018?] (catalogue: 300 Terabytes/year x 10)
- $SKA: \approx 2$ billion (?) radio sources (half-sky) [2020?]

Not yet approved:

- Wide Field X-ray Telescope (WFXT): ~ 10 million X-ray sources, all-sky
- Euclid: ~ 10 million near-IR spectra, all-sky





- Large projects and surveys and the IVOA
- IVOA participation mutually beneficial:
 - ✓ projects have their needs/requests/wishes listened to
 - ✓ IVOA gets "real life", practical cases
 - ✓ IVOA gets feedback on standards
- Is the IVOA doing enough to get all these new projects on board?
- Went through a list of large projects and surveys and assessed situation
- Identified potential contact persons/projects
- Will try to get at least some of these directly involved





- New IVOA Web pages: draft available at http://www.cacr.caltech.edu/~sarah/websites/ivoa/
- Everybody is invited to give comments and feedback (wiki page)





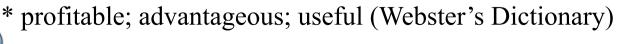
Exec Meeting Lowlights

- ESO and the VO:
 - ✓ increasing pressure on ESO budget:
 - expected approval of the European Extremely Large Telescope (E-ELT) construction
 - o ramping-up of ALMA operations
 - o continued operation of La Silla/Paranal facilities
 - current economic situation
 - ✓ activities to be limited to core business
 - ✓ re-direction of VO resources
- Termination of VO Project at ESO:
 - ✓ ESO out the EuroVO and IVOA at the end of 2011
- ESO remains committed to VO compliancy of its data holdings (from "active" to "passive" VO player)



This meeting

- Very proficuous*
- First ever "VO and outreach" session
- First CSP project (ObsCore) near completion
- Second one (SED builder) getting there (I hope ...)
- Many cross-WG sessions and discussions
- My (personal) feeling:
 - ✓ standards needed for most fundamental needs of astronomical community are *almost* done
 - ✓ next high level goal: get large projects and surveys directly involved in IVOA





A "big picture" perspective

- Global economic situation still "not easy"
- IVOA has gone through some tough times but new members (and more likely to come)
- Current and especially future large surveys need interoperability: "VO publishing" should be made as easy as possible (new IVOA members as "test cases")
- Very important to stay focused and tuned to the needs of the astronomical community at large (researchers and projects)





Next Interop

Pune, India, October 17 - 21, 2011







2012 Interops

• May 2012: USA (location still TBD)

• October/November 2012: Brazil (a beach close to São Paulo ...)





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especially Peppe and Massimo:

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