CSP - Review and Next Steps

Mark Allen

CSP: M. Allen (Chair), J. Lazio, D. Schade (exec), C. Arviset (exec), E. Solano, A. Kembhavi, S. Gaudet (TCG), M. Graham (TCG)

CoSADIE Project

Science Priority Areas

Multi-dimensional Data

Radio astronomy, Integral Field Spectroscopy, high energy, polarization, simulation, data mining datasets + ...

Time Domain Astronomy

Time Series, light curves, transient event reports, +...

- Need to ensure that these are accessible and useable within the VO

Multi-d status

- Stds for Multi-d 1st step — final convergence here, documents ASAP *(s.v.p)*
  - SIA v2.0, DataLink, AccessData, ObsCore v1.0
- Reference Implementations very important
  - Mandatory for standards to go to Recommendation
  - Will be used as ‘references’ by external parties
  - Ref Implementations being sought : CADC (ALMA, +), VAO cube prototype, SAO/Chandra sparse cubes, JVO(?), ASKAP(?), MWA(?)
  - Timing - linked to finalising documents - NOW

Time Domain Status

- Initial Time Domain Focus Session May 2013
  - LSST, Radio Transients (ASKAP, Meerkat,..), CoRoT, Kepler
- Further engagement via VO participation in Time Domain community (Transient Universe etc.)
- TDIG playing leading role

VO role in Time Domain infrastructure

- Time Series representation

  Simple Time Series stop-gap

  - discovery, access, interoperability
    Std data model, std format, std protocol

- Evolution of VOEvent

  VOEvent Registry Extensions

  - discovery, repositories
    ?

- General Time Query (?)

  - Across all types of data as function of time

CSP Activities

- Propose Focus Session on Time Domain
  - Time Series +
    - @ June 2015 Interop meeting
- Review of outcomes from previous priorities
- Increase participation in CSP - asked Exec to address this