

Committee for Science Priorities

Opening Plenary, October 29, 2015

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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

Priority Areas

- Convergence of 1st set of Multi-d standards
 - Finalising stds will allow moving to the next steps
 - Implementations being presented here
 - Feedback is precious
- Time Domain
 - Re-focusing required
 - Time series area needs to be re-motivated
 - Looking for ‘champions’ of the cause
 - Please participate in TD IG

CSP renewal

- Terms of Reference proposed to Exec
 - Motivation
 - Tasks
 - Composition
- New members proposed
 - Greatly needed
 - Connections to LSST and ESA
 - Further considerations in progress

Terms of Reference *(summary)*

Motivation and Objectives

- High level scientific requirements for the VO of major astronomy projects and of the wider astronomy community as input to the setting of priorities for IVOA

Tasks

- Consult as widely as needed
- Gather of use cases and requirements of major astro. projects
- Develop plans to vigorously encourage the creation and implementation of infrastructure, services and tools
- Champion priority topics

Composition

- Defined by Exec, 3 year terms, involvement of projects

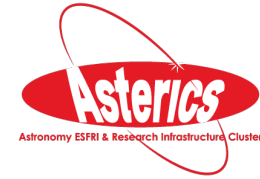
Engagement with community

- Mechanisms for making major astronomy projects ‘participants in’ (not ‘customers of’) IVOA
 - Focus session/event – Cape Town 2016
 - Discussion here at the CSP session (Sunday 9-10h30)
- Need input on how to really gather use cases and requirements – at the right level for IVOA
- Realistic resourcing of activities

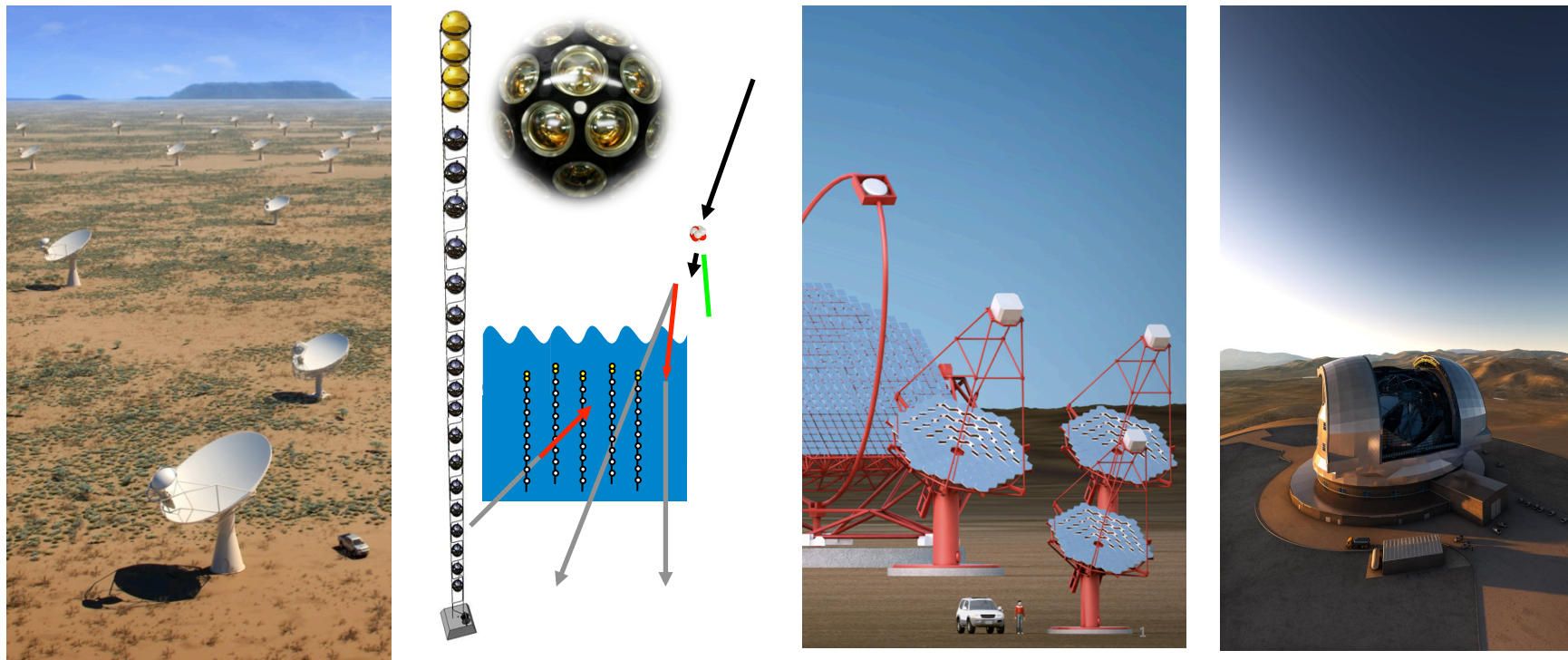
Process

- Process of use cases & requirements to guide standards development
 - Worked fairly well for Multi-d
 - Discussion of best way to organise this
 - Very important for greater engagement with big projects
 - Realistic resourcing in context of state of current IVOA member projects and involvement of major astronomy projects

Going further with project input:



Make the big projects '**Participants**' in the development of the VO, e.g. ASTERICS



Cluster of ESFRI projects and their pathfinders, and relevant research infrastructures



Emerging Priorities

- 'Big data'
- 'Run the code next to the data'
- But also...
 - Addressing issues of spectra in the VO
 - Connections to well used packages (Astropy etc.)
 - VO usage metrics (service usage etc.)
 - VO awareness/branding
 - Renewal of training materials – for VO schools etc.
 - Embracing operational community solutions
 - +...