

Science VOTECH mid-term update

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The VOTECH Science Picture

- Astronomical situation in Europe
- Science Advisory structure
 - Euro-VO Wide
 - Euro-VO VOTECH
- Dissemination of results
- Exploitation and deployment of results in Euro-VO

VO/ Science Situation in Europe

- ESO supporting ambitious large public surveys – e.g. VISTA, VST
 - commitment to provide VO access to survey data products
- ESA – new and legacy data available via VO protocols
- Several national VO projects now moving to operational status, each with key science priorities
 - AstroGrid, F-VO, ESA-VO

Euro-VO Science Advisory Committee

- Euro-VO SAC formed to give science input across the main activities of the Euro-VO, scope includes:
 - Definition of high-level science requirements for the EURO-VO
 - Promotion of VO science in Europe
 - Prioritisation of VO tools and their astronomical applications
 - Engagement with European astronomical archives with suggestions for improvements
 - EURO-VO Science Operation concepts;
 - Progress review of the Euro-VO
- Composition reflects key science stakeholders in the Euro-VO
 - Chaired by Timo Prusti (ESA)
 - PS's from the DCA, Euro-VO FC and Euro-VO TC attend
 - 1st meeting April 2006
 - see: <http://www.euro-vo.org/pub/fc/sac.html>

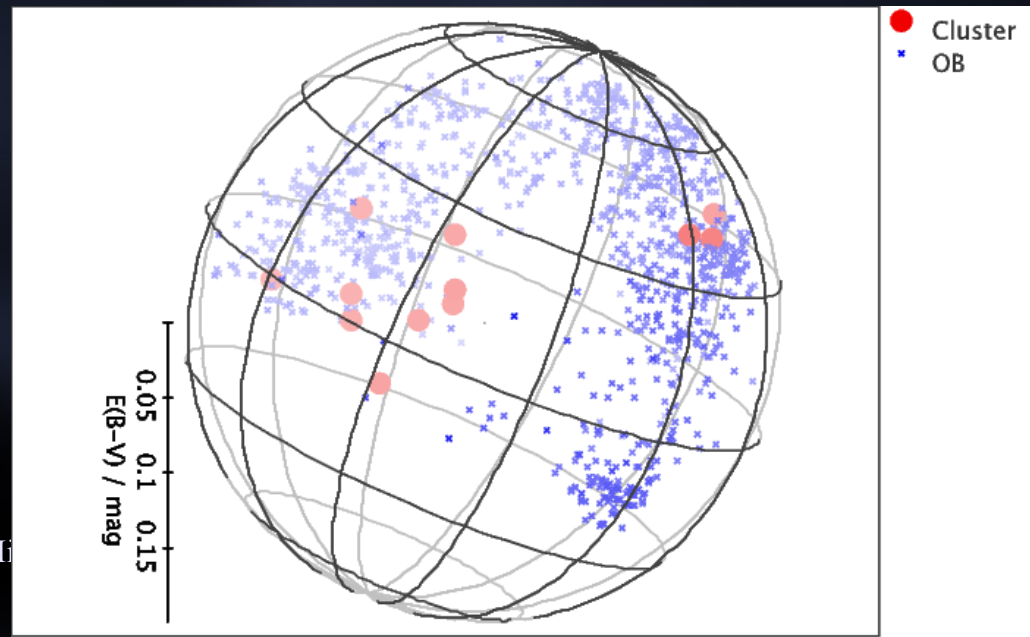
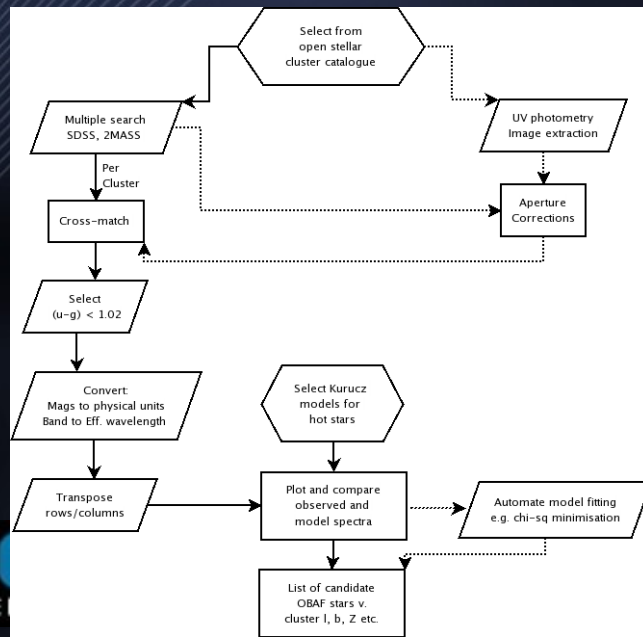
Euro-VO TC Science Team

see: <http://wiki.eurovotech.org/twiki/bin/view/VOtech/ScienceTeam>

- Technology Centre Science Team gives science input to the VOTECH project
- Composition: VO-TC PS + science leads from each VOTECH DS area plus representative from ESA-VO
- Science Framework Document construction and release
- Scientist support for Euro-VO demonstrations

Science Framework Document

- Defines science capabilities required by VO systems
 - across range of examples e.g. stellar, galaxy, large, small
 - builds on pre-cursor AVO Science Reference Mission
- Shows examples of current VO capabilities in meetings science needs
- SFD issued 'mid-term' to allow for consideration by the Euro-VO Science Advisory Committee



Dissemination of Results

- Internally:
 - Update of technical usage internally at each VOTECH stage planning meeting
 - Report to Euro-VO Science Advisory Committee
- Externally:
 - <http://wiki.eurovotech.org/twiki/bin/view/VOTech/VotcSciConfs>
 - dissemination carried out by VOTECH project partners
 - AstroGrid (UK), CDS (F), ESO (D), INAF (I)
 - conference presentations (e.g. ADASS 2006)
- VOTECH products used in partner Euro-VO events
 - Conferences: e.g. IAU (Prague 2006), JENAM 2007 (Armenia)
 - Euro-VO Workshops: e.g. @ESA June 2006
 - Euro-VO DCA activities: e.g. India-VO/ Euro-VO workshop (Oct 2007)

Partner Dissemination Activities

- AstroGrid have organised a wide range of workshops, with an audience of several hundred scientists – see list at: <http://wiki.astrogrid.org/bin/view/Astrogrid/AgWorkshops>
 - VOTECH supported prototypes demonstrated/ discussed
- CDS/ F-VO are active in the French community
 - see <http://www.france-vo.org/twiki/bin/view/>
- INAF have organised a number of workshops for the Italian community
 - see <http://vobs.astro.it/>

Exploitation of Results in the Euro-VO

- Long-term goal: VOTECH design studies form the technical basis for roll out of a pan-european VO infrastructure
- Mid-term: VOTECH prototypes, infrastructural and applications, being 'hardened' and deployed in national VO initiatives
- Highlights in DS_n presentations to follow
 - DS3: VOSpace and UWS prototypes supporting recent development of IVOA approved standards
 - DS4: Topcat widely used across VO projects
 - DS5: ontologies
 - DS6: Plastic for client side application interoperability