Euro-VO AIDA WP5

Service activities for higher education and outreach

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Objectives

- Provide a way for students, teachers, amateur astronomers, courious people to benefit from the VO enterprise
- Produce educational material in order to attract students and teachers to the VO
- Offer to students a glimpse of the professional world of astronomy

Key characteristics: multi-lingual, multi-platform, documented



The work plan

Phase A

Select tools and implement an initial set of requirements for educational and outreach purposes. Produce use cases.

Phase B

Test tools and use cases in schools. Collect feed-back and use it for a first revision of tools and use cases.

Phase C

Advertise our products and diffuse them widely also via a dedicated web-site. Perform a second cycle of testing and production of final tools and use cases.



Our tools

- Aladin (CDS)
- Stellarium (ESO) (Stellarium/VirGO (ESO))
- SimPlay (CDS)



Use cases

- the sky (celestial sphere, constellations, light pollution)
- the stars (stellar observables, H.-R. diagram)
- the Pleyades (stellar parallaxes, stellar evolution, H.-R. diagram)
- <u>the Barnard's star</u> (proper motions)
- confirmation of a candidate Supernova (astrometry, SN)
- the Hubble diagram and galaxy morphologies (galaxies)
- <u>distance to the Andromeda galaxy</u> (galaxies, distances)



Tests in schools (2008-2009)

Full classroom support of our team to teachers and students in selected schools

Goal: debugging and improvement of first generation software and educational material based on the response of students.

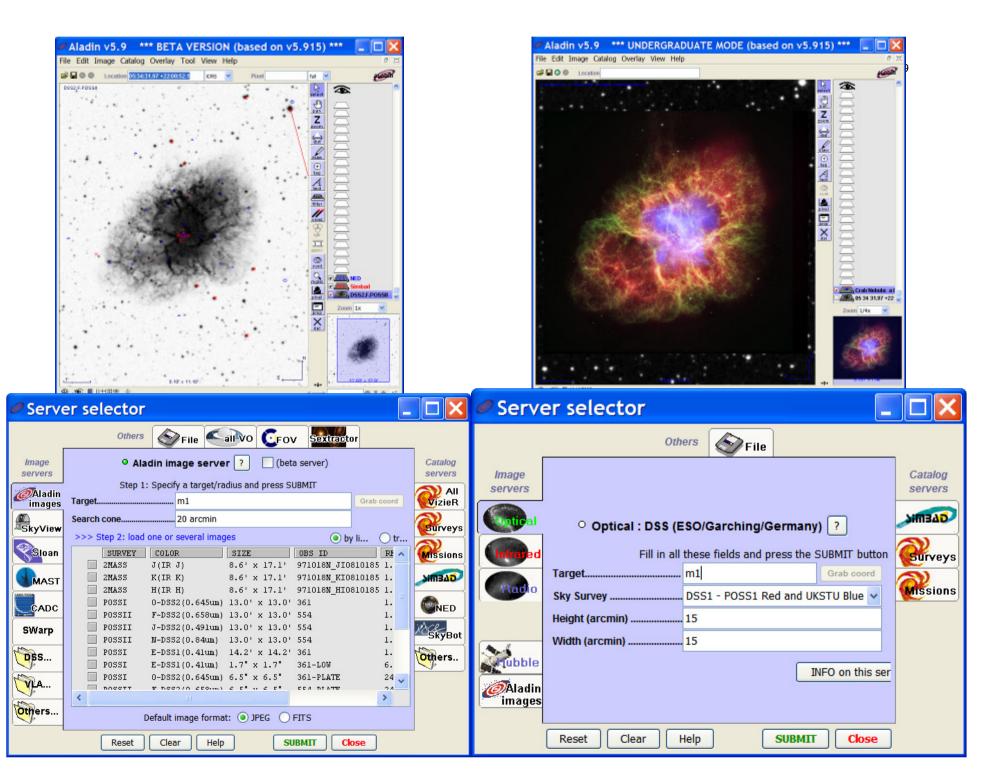


Tests in schools (2009-2010)

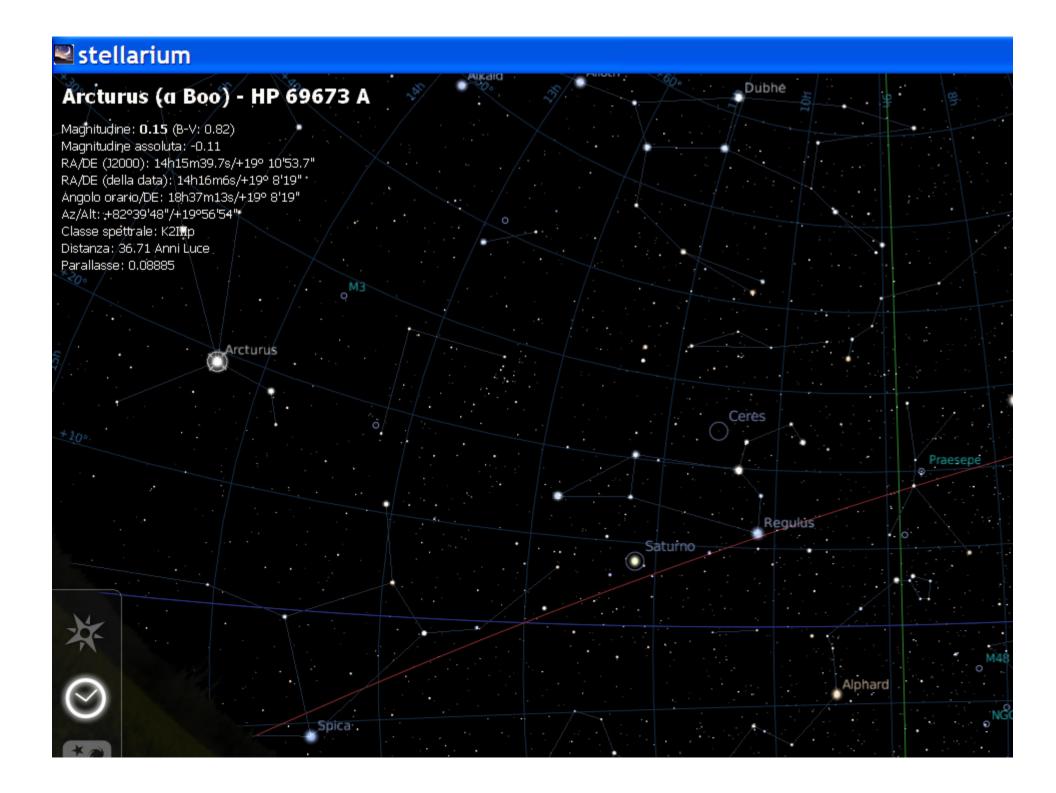
Large number of highschool classes plus Trieste University. Only limited inclassroom support from our team.

Goal: Test user friendliness toward teachers of second generation software and educational material. Collect feedback for final revisions.

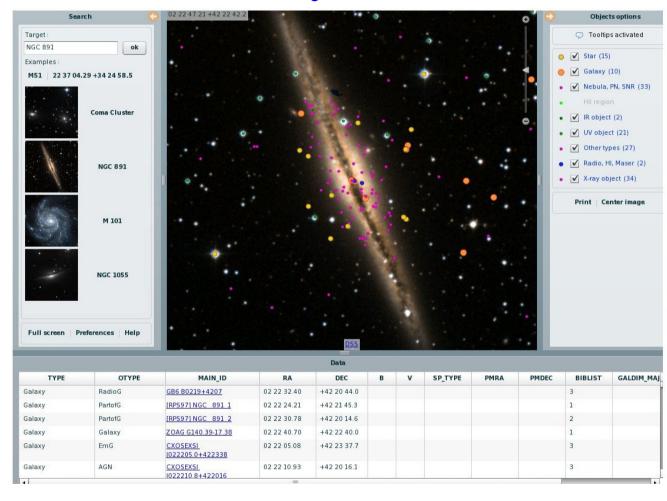




Aladin v5.9 *** BETA VERSION (based on v5.915) *** Euro-VO File Edit Image Catalog Overlay Tool View Help ☑ ☐ ○ Location 04:16:49.13 -02:54:32.6 full 🗡 Pixel IRAS-IRIS100MU # B B II Cont Simbad query IRAS-IRIS100MU pixel Zoom 1/32x prop 1.5° x 1.5° 180° x 180° +4+ ⊕ ⑤ ■川北掛鵲 申 grid allsky multiview match Data are being downloaded... look at the "stack" Search FLUX ERROR RA DEC PMRA PLX VALUE RV VALUE GA... GA... G... G. FLUX ERROR 6361 63.565675 -12.739453 -1.4 11.6 -21.05194 4162.0 2.... 1.... 10 12.31 6736 62.07925 -6.67742 12.32 11233 39.63625 1485.0 2.57 1.... 92 11234 41.5 -7.57694 1397.0 2.... 1.... 115 11.61 11232 40.09833 -8.43306 12.11 1371.0 4.... 2.... 15 □ 11232 40.26999379 -8.25576436 1474.0 2.... 2.... 120 11.63 TIP: Enable/disable a plane (click on its logo) 33 sel / 1203 src 132Mb

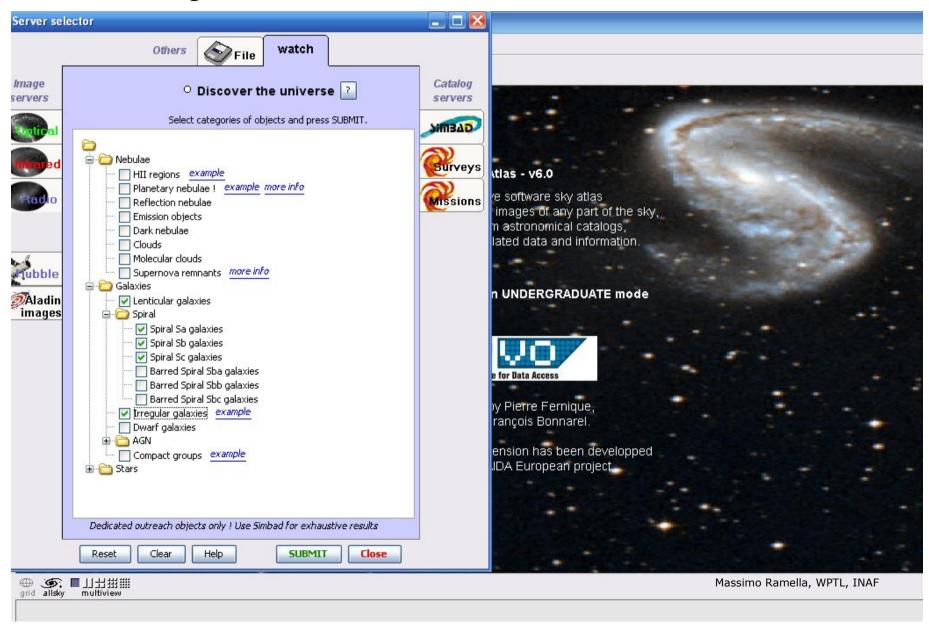


SimPlay (CDS)





Latest accomplishments:



Latest accomplishments:

The new AIDA/WP5 site

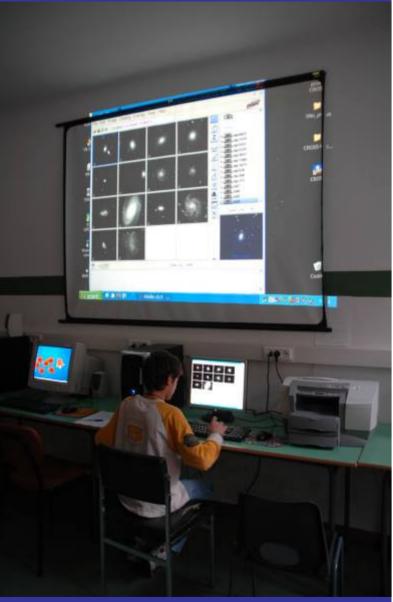


Latest accomplishments

Improved use cases







Massimo Ramella, WPTL, INAF