VO goes to school

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INAF-OATs

Why

- Bring science to students and get them engaged
- Give students an involving glimpse of the professional world of astronomy, including a perception of the infrastructure.
- Make them realize they could become scientists, scientists are not aliens
- Teach some elements of astronomy

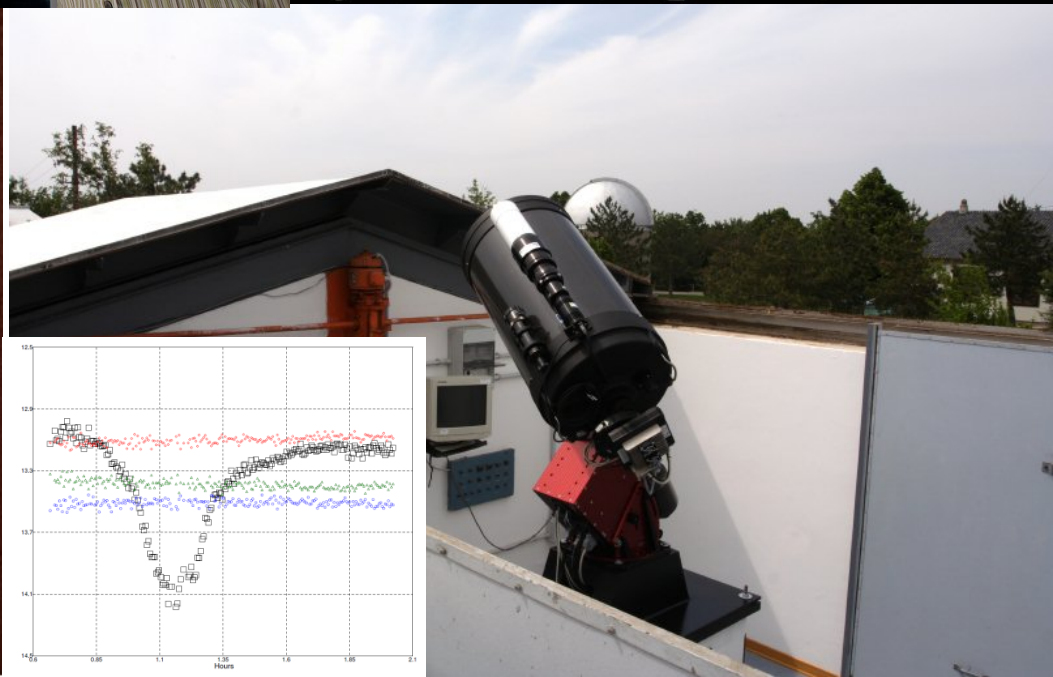
How (Euro-VO)

- Use VO resources
- Adapt/simplify key tools (with user's help)
- Provide a library of Use Cases
- Propose activities that mix "serious work" with "fun"
- Train teachers, engage students

Results

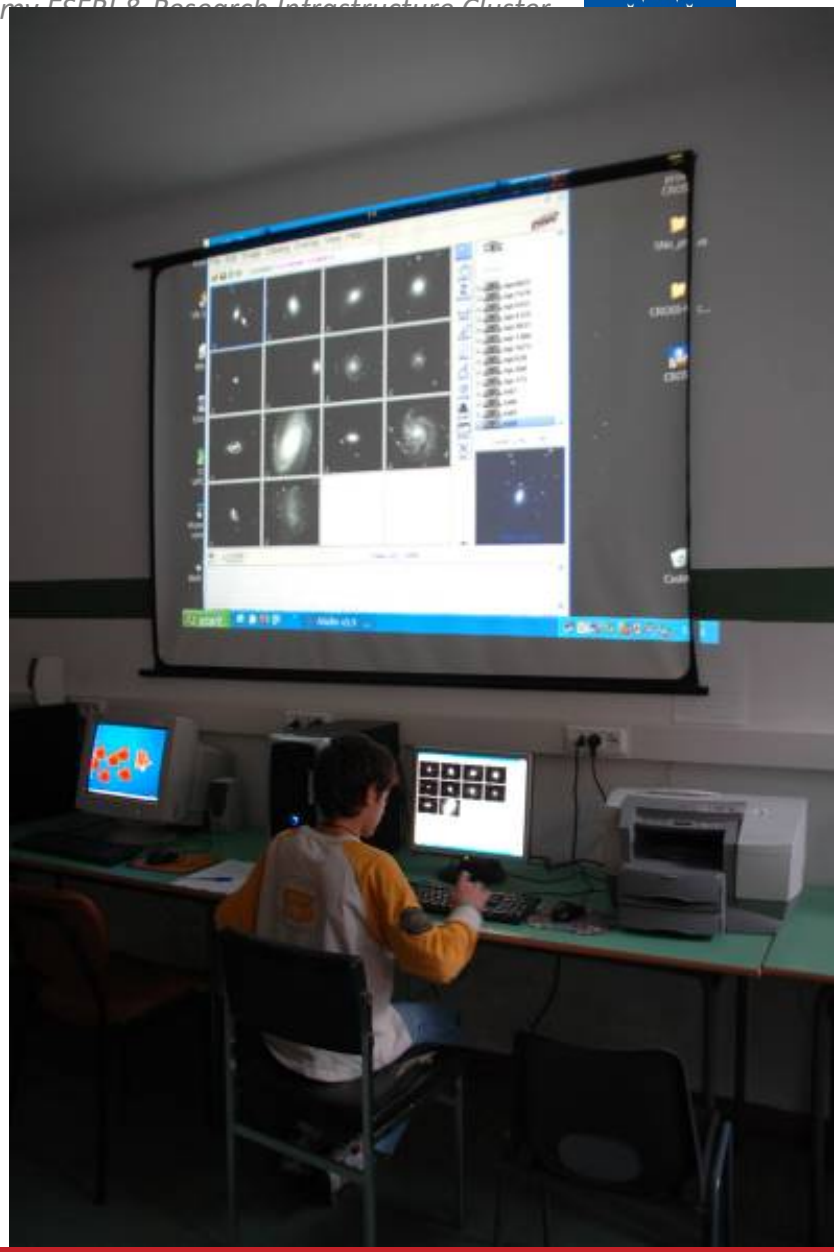
http://vo-for-education.oats.inaf.it/


ASTROTECH



12.5
12.9
13.3
13.7
14.1
14.5
0.8
0.95
1.1
1.35
1.6
1.85
2.1
Hours


EURO-VO



FRI & Research Infrastructure Cluster
ASTERICS - 653477

Challenges

- Languages

- Ratio (astronomers engaged in edu)/(astronomers) <<1
  Ratio (edu astronomers) / (students or teachers) <<<1

  e.g. In Italy, INAF
  ~ 1400 researchers, ~ 50 active in POE
  ~ 1600 highschools offering science curriculum
  => ~ 460,000 students

Asterics: WP2 and citizen science

Def.: scientific work undertaken by members of the general public, often in collaboration with or under the direction of professional scientists and scientific institutions

Martin, K.C. (2014), *New words notes June 2014*

Asterics: WP2 and citizen science

A new adventure:

how to bring an astronomer's instrument in classrooms

IVOA - EduIG

A two-way communication channel between the public and VO

Twiki page and mailing list: tools for sharing practices, materials, information, ideas, for finding or requesting help.

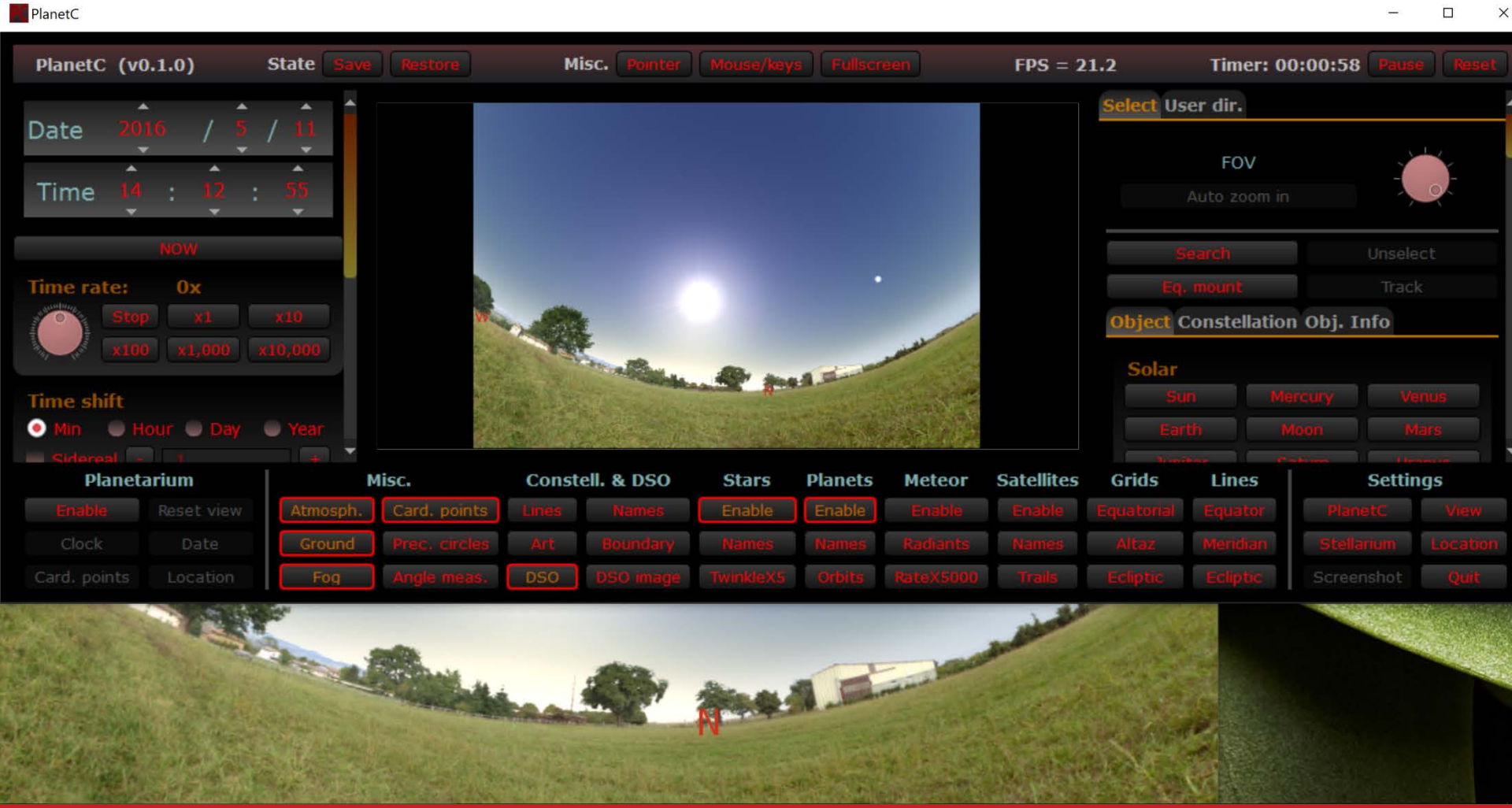
Edu IG activites

- VAPE: easy publication into VO of telescope data of amateur/educational organizations (public ⟹ VO)
- SVN repository for Edu documents

  http://svn.ari.uni-heidelberg.de/svn/edu

  + Registry (VO ⟹ public)
- PlanetC (public ⟹ VO)
  - Giorgio Calderone (post-doc@INAF), Star Freedom Association https://github.com/gcalderone/PlanetC/wiki

The PlanetC plugin



IVOA - EduIG

Is it possible to build a lasting resource?

How can we let educators/public find our resources on their own, not only through VO-schools and VO-days?