# IVOA Madrid, 19-23 May 2014

Outreach of the European ARCHES project

(Astronomical Resource Cross-matching for High Energy Studies)

André Schaaff, Valentin Ehkirch CDS, Observatoire de Strasbourg

Laurent Michel (in charge of the WP13)
SSC XMM-Newton, Observatoire de Strasbourg

Education session 23 May 2014













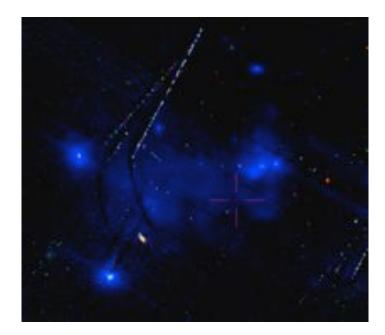
## Outreach of the European project ARCHES (FP7)

#### Coloured image of the X-Ray sky

- Initiated in the frame of the SSC and finalized in the frame of ARCHES
- Visible from the Aladin standalone application or from a Web page (Aladin Lite)

#### False colour Arches Sky

- One colour per energy band
- Restricted to the enhanced catalogue coverage



 ${\it Center of our Galaxy seen the XMM-Newton PN camera}$ 



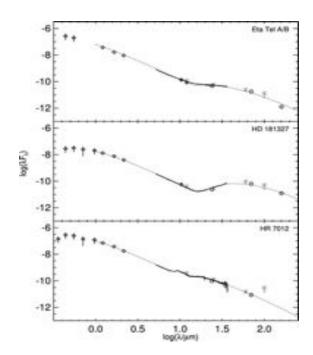
## Outreach of the European project ARCHES (FP7) (2)

#### Goals

- Promoting XMM results for a wide audience
- Making SEDs attractive (challenging)

#### Targets

- 。 Kids
- General audience
- Students

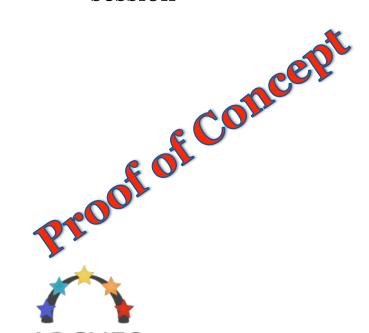


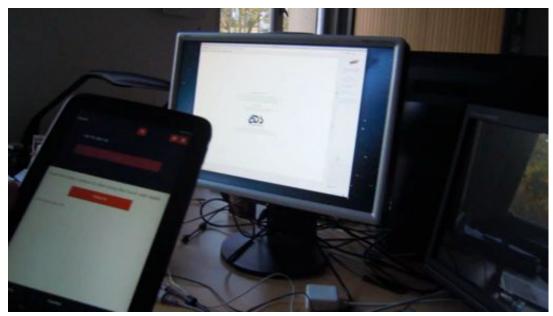
The activities are scoped to fit with available resources and expertise



## Previous work

 SkyTouch, a remote control of Aladin through SAMP shown in CoSADIE TechForum 2 and during the Hawaii interop at the App session





# Making the data corpus available through a demo booth

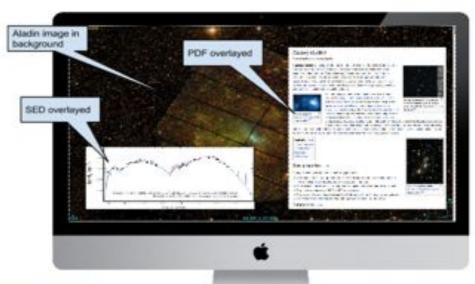
• A wide screen controlled from a mobile device

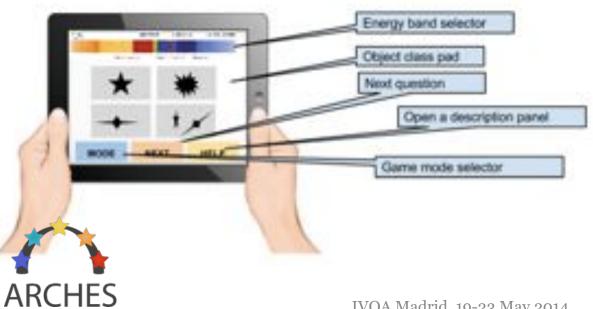
 The user/player can display objects in various
 wavelengths, he/she can ask

for **extra data** 



## Extra data





#### **Arches Walker**

- The mobile device communicates with the display station with a had hoc Wifi
- The display station hosts a local database with the whole data corpus, it can work without network
- It runs a Java application including the Aladin sky atlas and all viewer (images, html....)
- This application is commanded by Java Servlets
- Work in collaboration with students
- Android development
- Data corpus gathering



Will be delivered as a kit for interested partners

















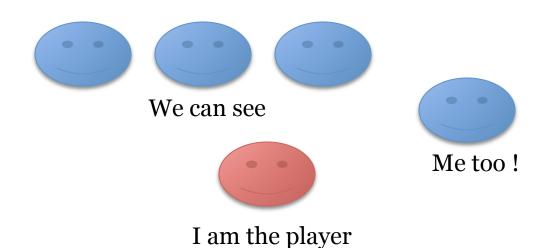






#### Remarks

- The same concept can be easily reused for other domains of the astronomy
- A small investment (a desktop + screen and/or projector + an internet tablet)
- Probably more fun than just a touchscreen, larger field of view !!





# Questions?



http://www.arches-fp7.eu/

## Education R&D around the Oculus Rift

See the presentation done in the frame of the New Technologies session.

Next presentation in Banff!!