

# □ What is your idea of a "science platform"?

Context: [data center providing services](#) (Simbad, Sesame, VizieR, Aladin, X-Match, ...) through user interfaces, protocols like TAP, ... => [core activity](#)

- A [science platform](#) could provide an [access](#) to Simbad and VizieR through APIs, [visualisation](#) through Aladin Lite (ipyaladin) and python tools for HiPS and MOC, [computational](#) facilities to X-Match catalogues
- It means [resources](#) (human, computing, storage), [security](#), ...
- [It must be done with scientists for scientists](#), well shaped, done step by step (templates, ...) and [evaluated](#) => [Best effort](#)

□ How can our platforms work together or interoperate? How do we provide user workspaces, how do we mount local data volumes in the container?

- An **important point for us**, given the volumes (... in case of a keen interest in it) it is difficult to allocate **large storage space** to all the users (and flexible storage like clouds has a “flexible” cost)
- A space allocated to the user for processing near the data, a temporary result storage space, user own space storage linking (through VOSpace ?) => **a balance to find**
- Accepting docker containers (D. Morris) ?

How are we approaching HPC or cloud resources (public or private) ? ...

# The role of IVOA standards. Are we using IVOA standards in building our platforms? Do we need them?

- **De facto**, with DAL protocols like TAP, .., the Registry through astroquery, pyvo
- For the **storage** space part, a **common protocol** like VOSpace seems **essential**
- Do we need dedicated IVOA standards for the SP building ?

# □ Let make our platform sustainable. What is the best approach to sustainability?

- It must be well framed and sized, complementary to the services and developed with scientists for scientists => **scientific sustainability**
- Based on perennial technologies (at least for a lifetime that justifies the effort) and exploiting the protocols of the VO => **technological sustainability**