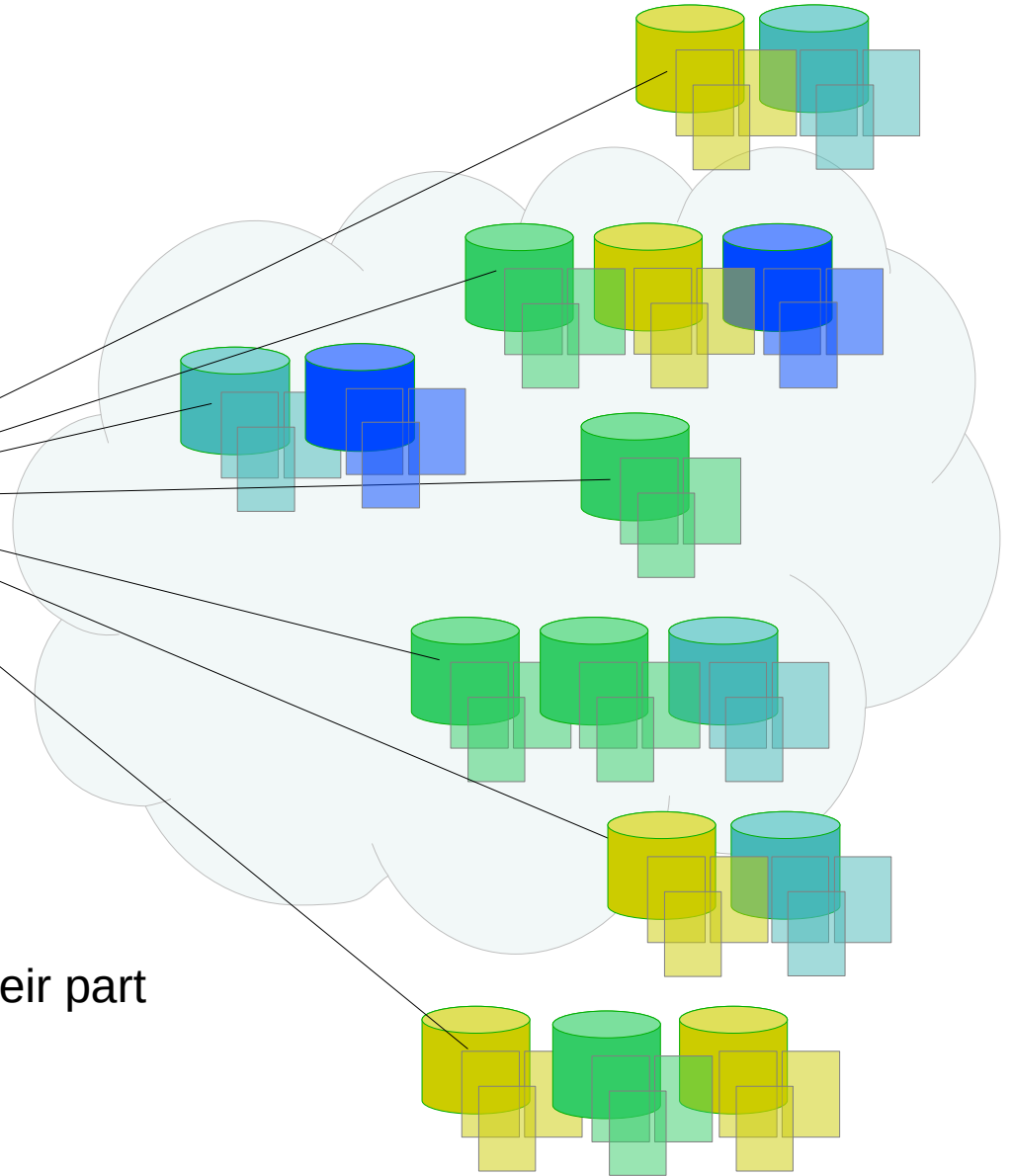
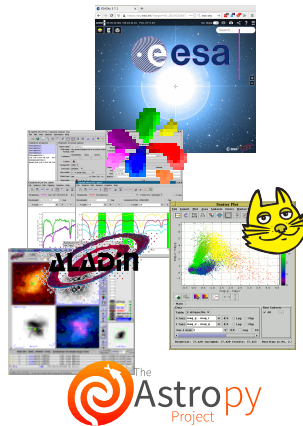


The Virtual Observatory

All the data from all the world in the cloud

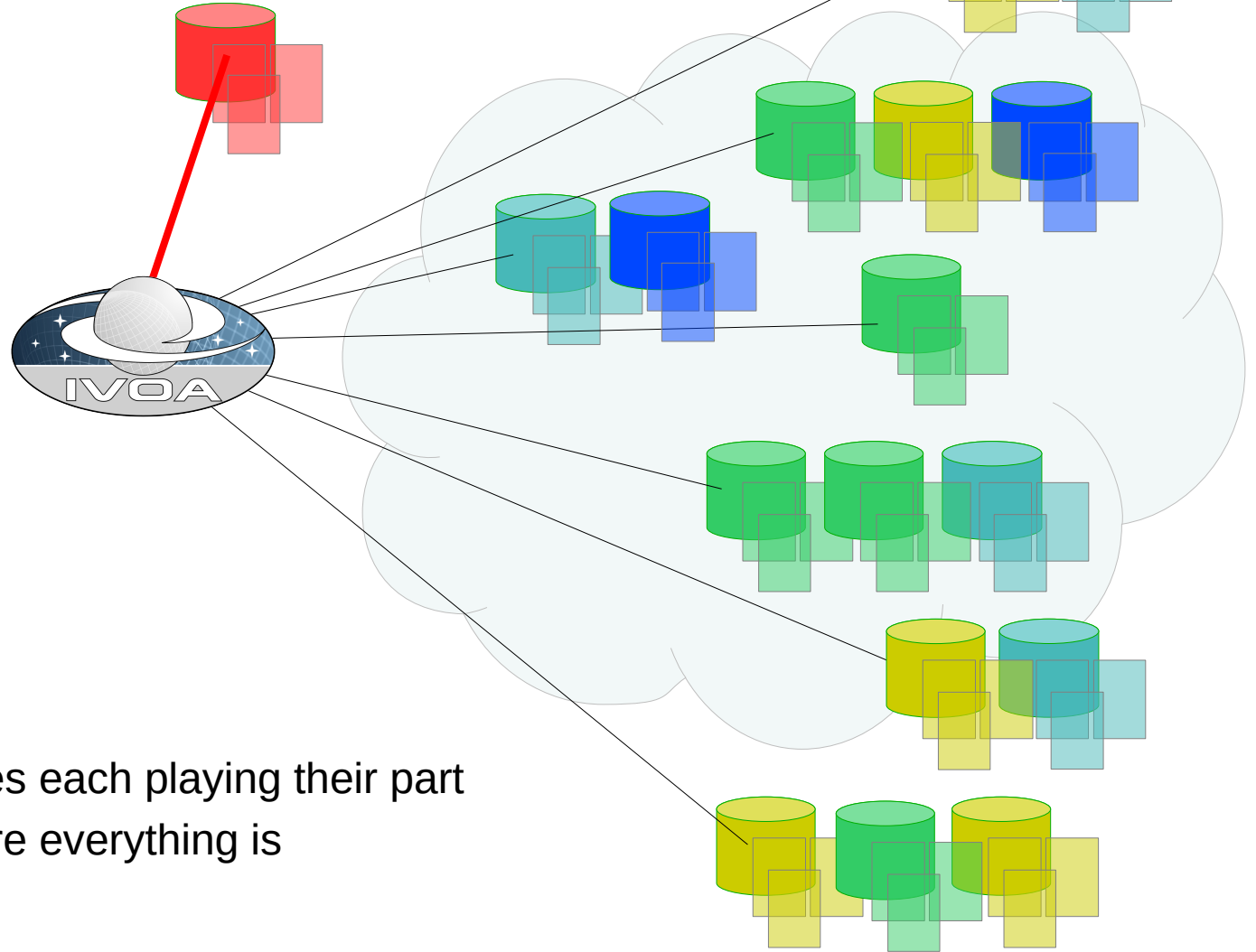
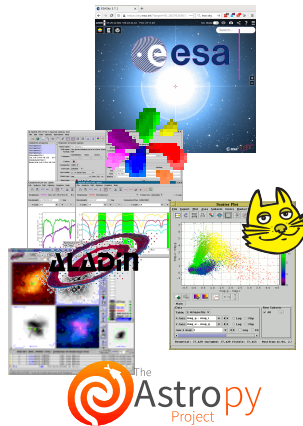




The Virtual Observatory

Lots of individual services each playing their part



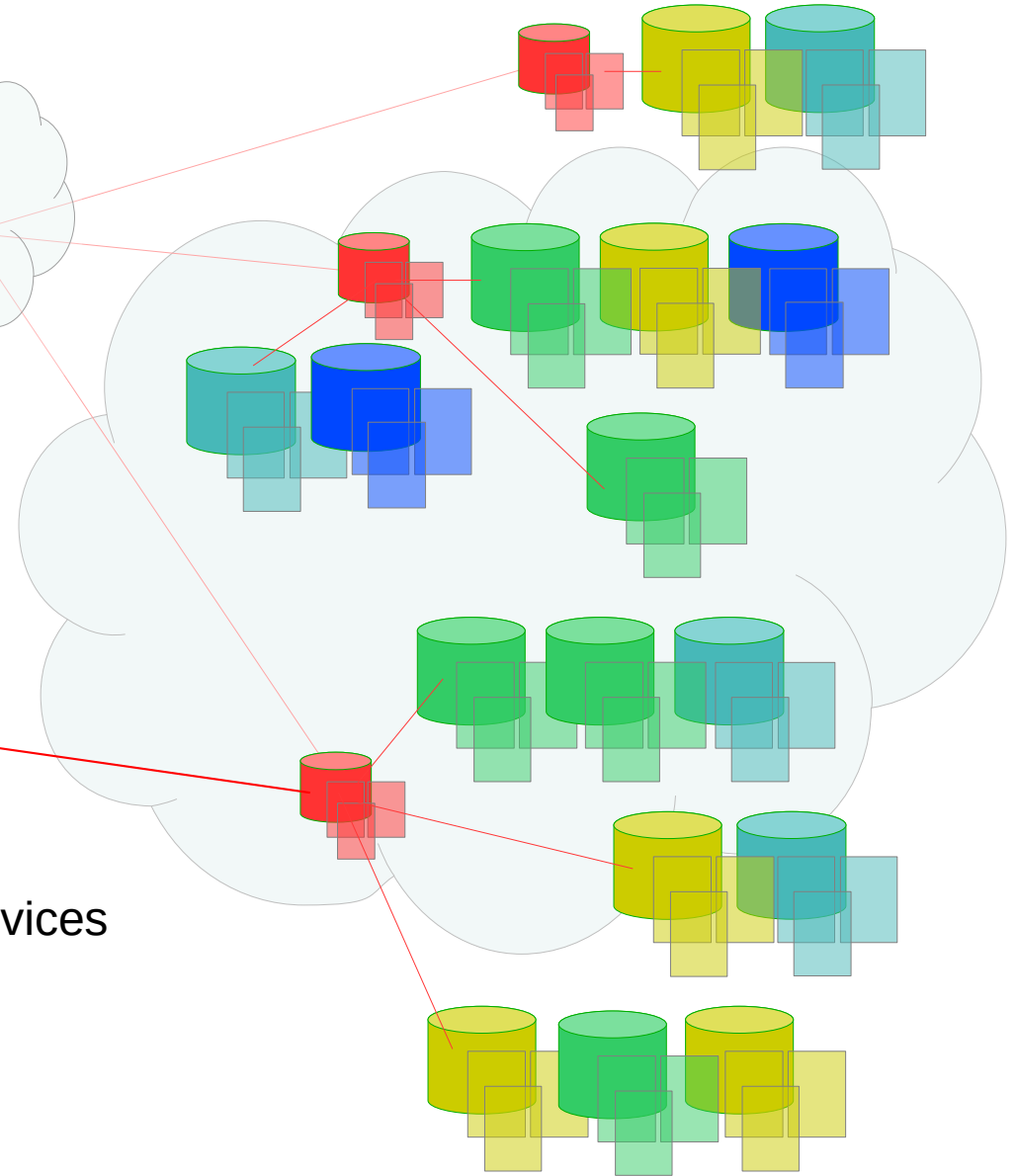
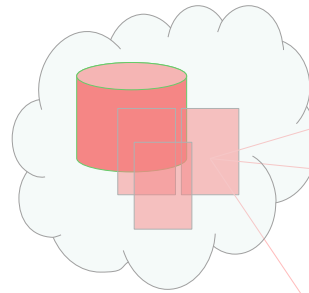
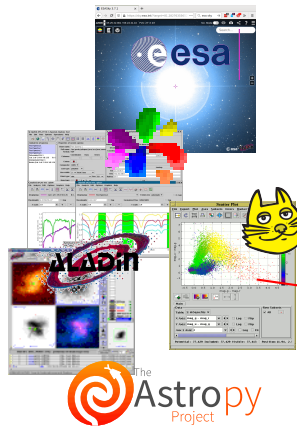


The Virtual Observatory

Lots of individual services each playing their part

The registry knows where everything is





The registry itself is made up of many services
Data is replicated between the nodes
Query any leaf to get the same result

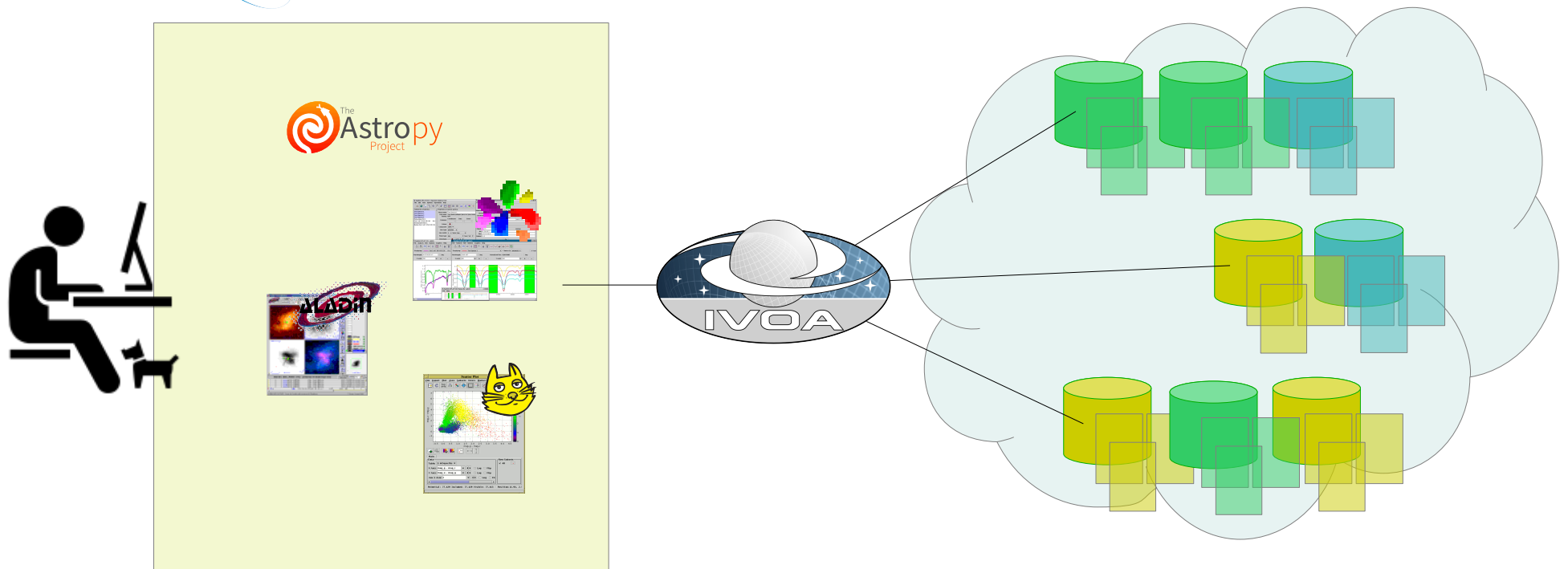




D.Morris
Institute for Astronomy,
Edinburgh University



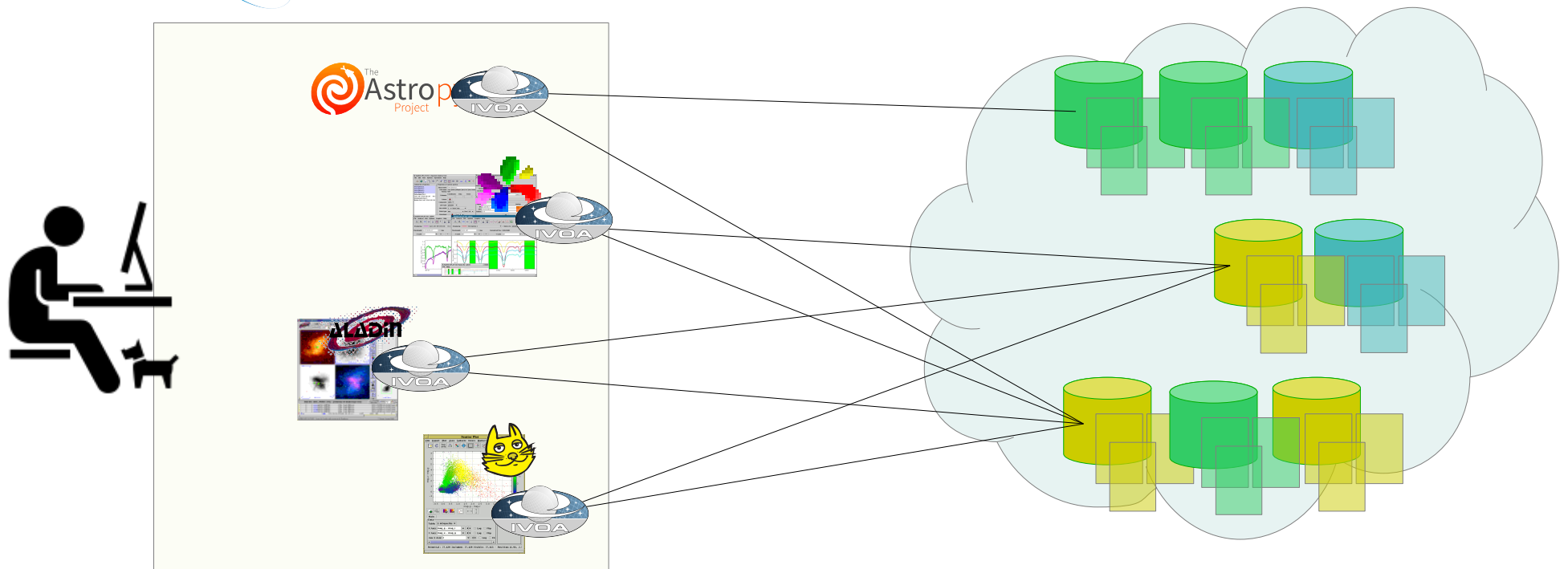
Introduction to the VO
IVOA interop meeting
May 2021



The Virtual Observatory

All the data from the cloud available on your desktop



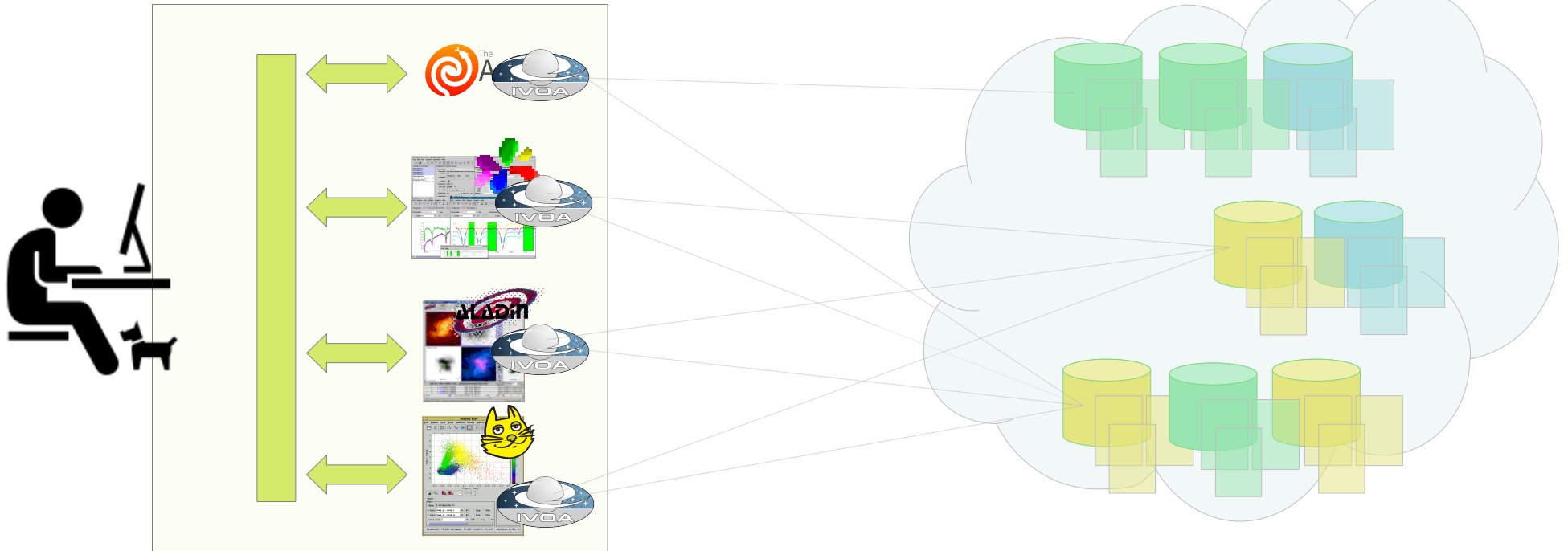


The Virtual Observatory

All the data from the cloud to each desktop app

Each application maintains its own connections to the VO





SAMP is a message bus within your local computer

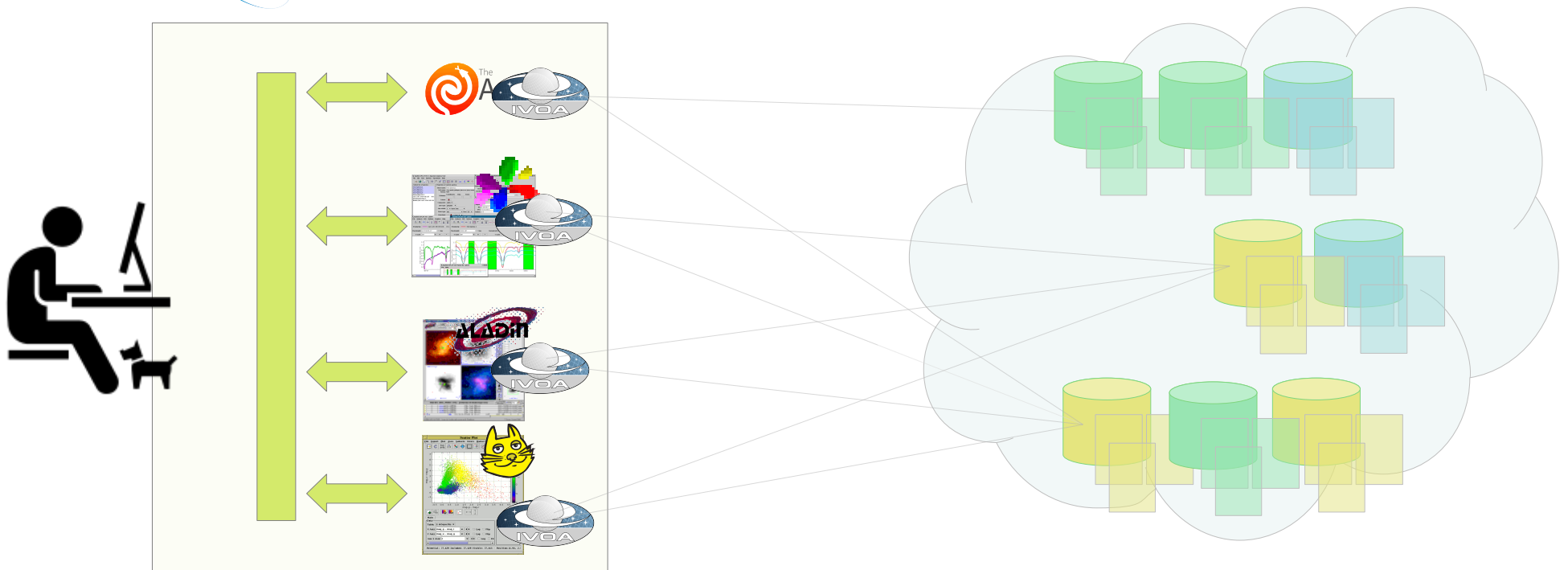
Applications can use SAMP to send messages to each other

`table.load.votable <http://example.org/.../table.vot>`

`image.load.fits <http://example.org/.../image.fits>`

`coord.pointAt.sky <ra,dec>`





Messages can be sent to specific applications

Send to Aladin:

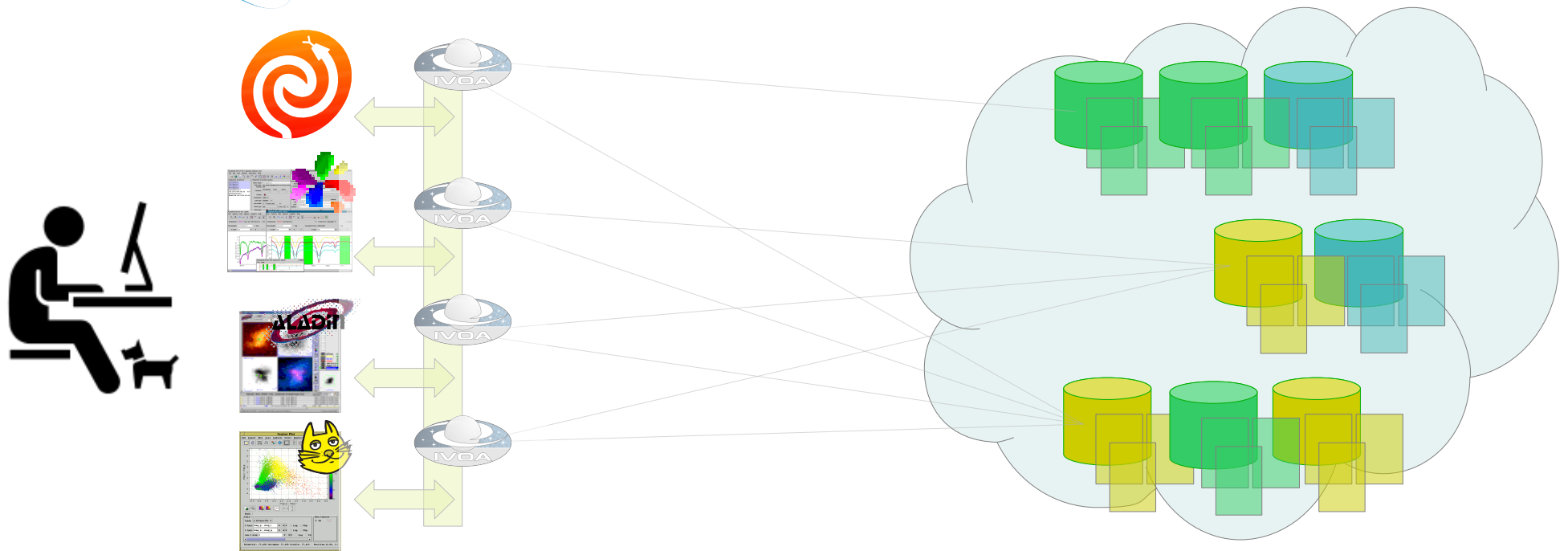
image.load.fits <<http://example.org/.../image.fits>>

Or broadcast to all listeners

Send to all:

coord.pointAt.sky <ra,dec>





The Virtual Observatory

If we have done our job right, all the details disappear

All the data from the cloud available on your desktop

