

MuFFInS

Multi-Frequency Follow-up Inventory Service



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Why MuFFInS ?

... Overview

A few examples from Planck

A first attempt: LMFAOPS

Towards a more generic tool

Functionalities

The database

Sharing public and private data

Multi-criteria query

Towards the Virtual Observatory (VO)

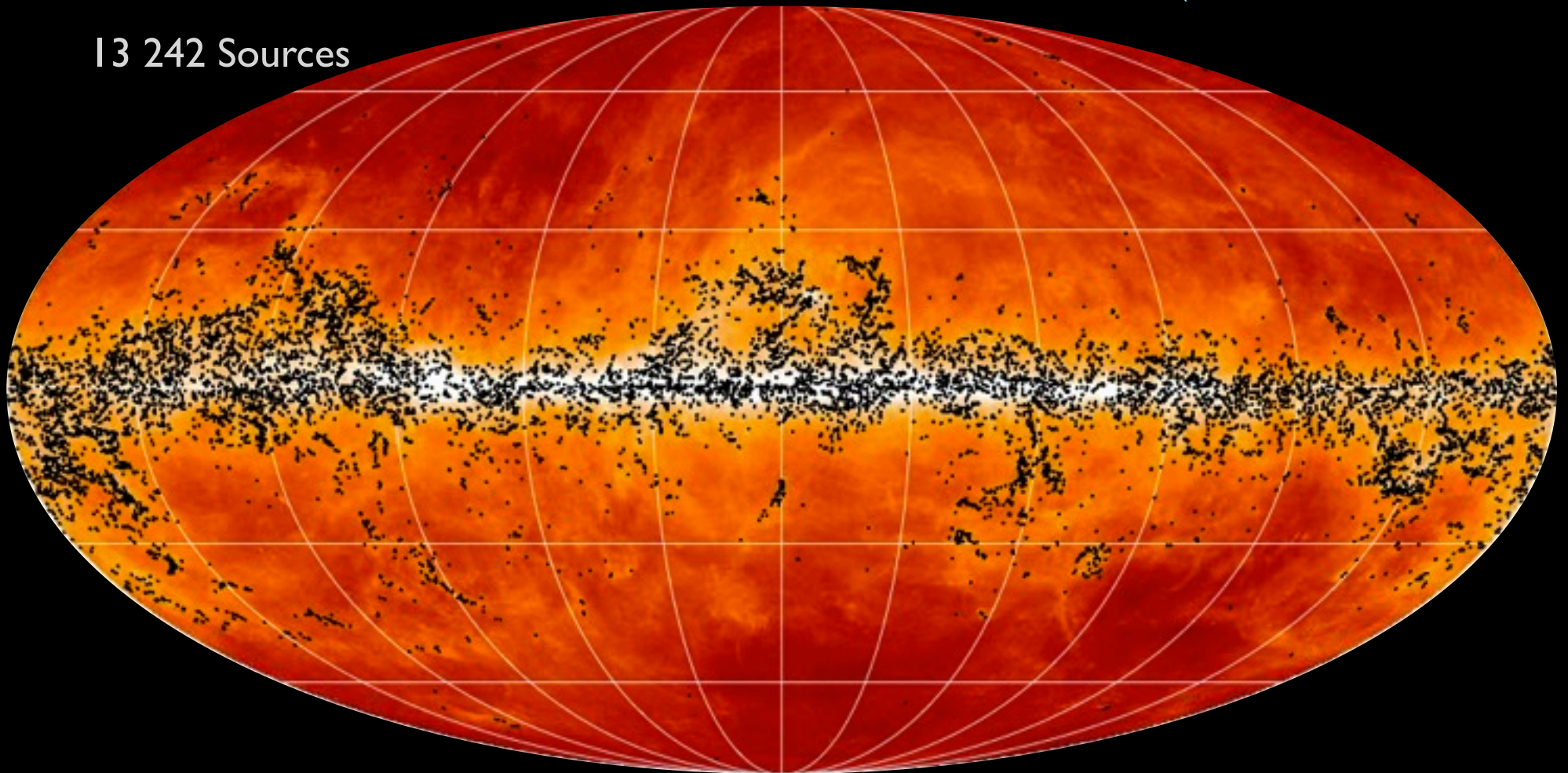


A few examples

The Planck Catalogue of Galactic Cold Clumps

(Planck Collaboration 2015, XXVIII)

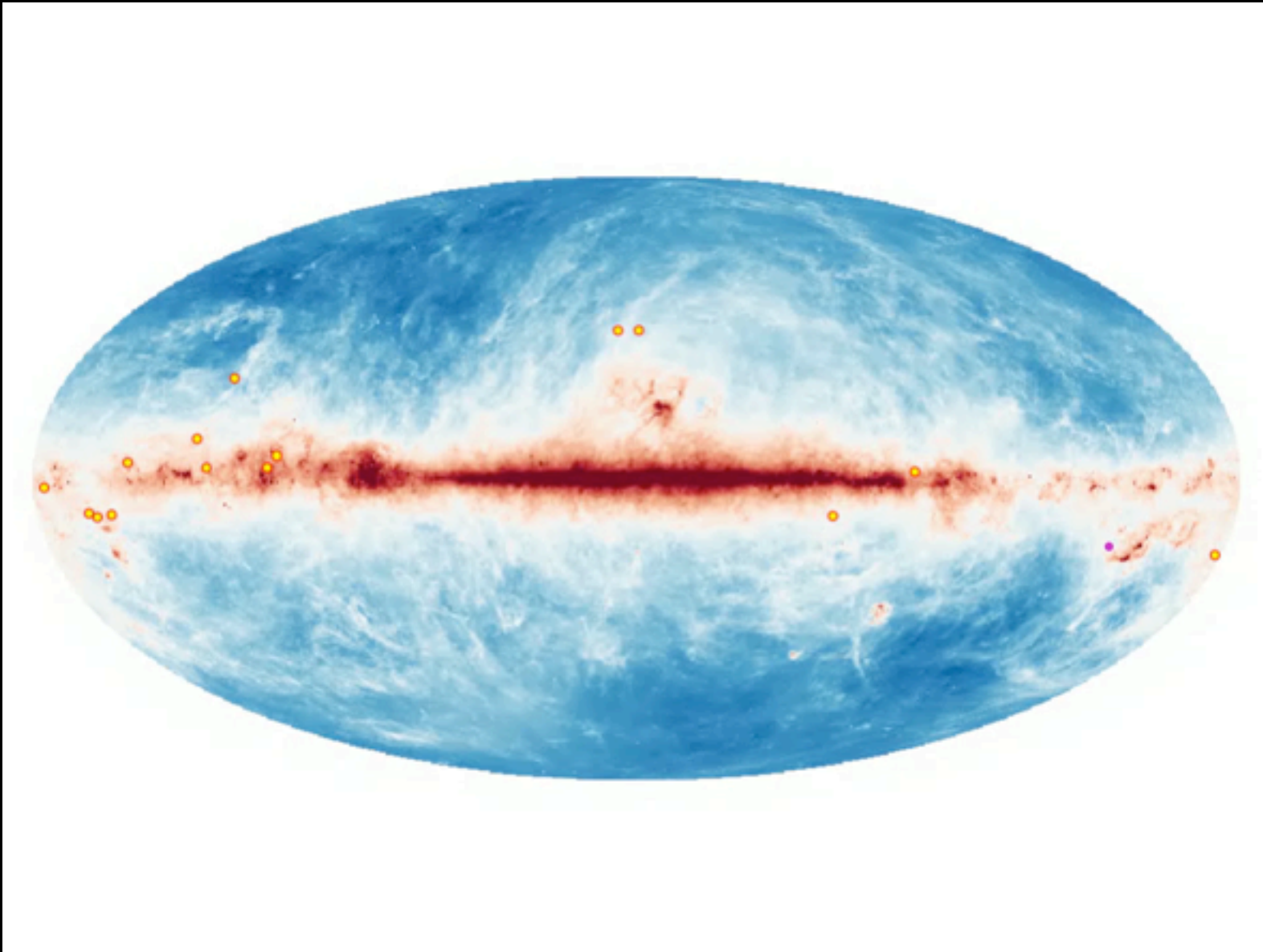
13 242 Sources





A few examples

The Planck Catalogue of Galactic Cold Clumps



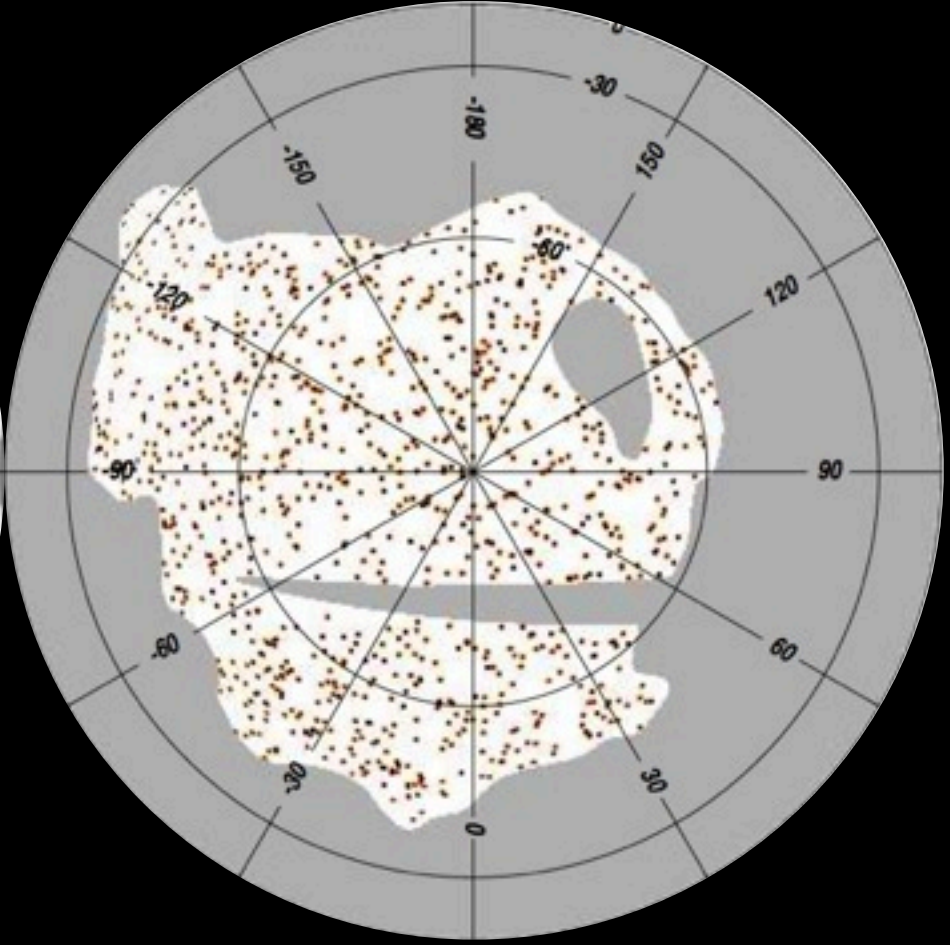
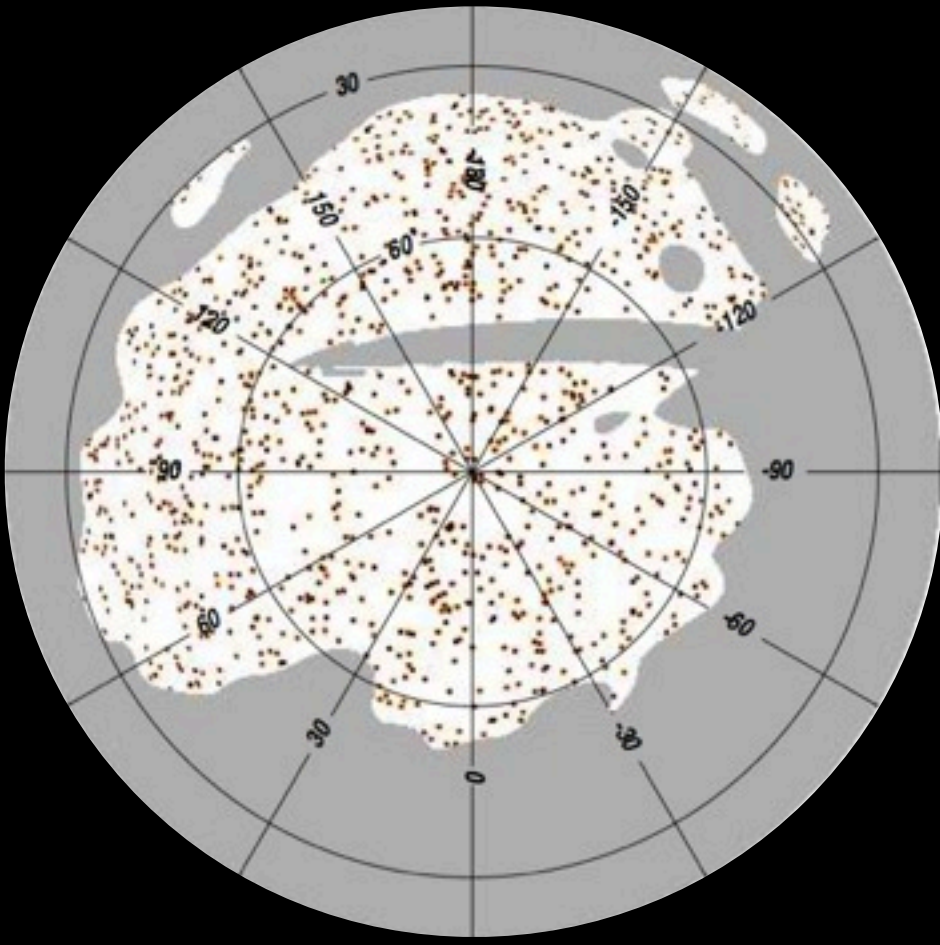


A few examples

The Planck Catalogue of High-z source candidates

2151 sources

(Planck Collaboration 2015, in prep.)





A few examples

The Planck Catalogue of High-z source candidates

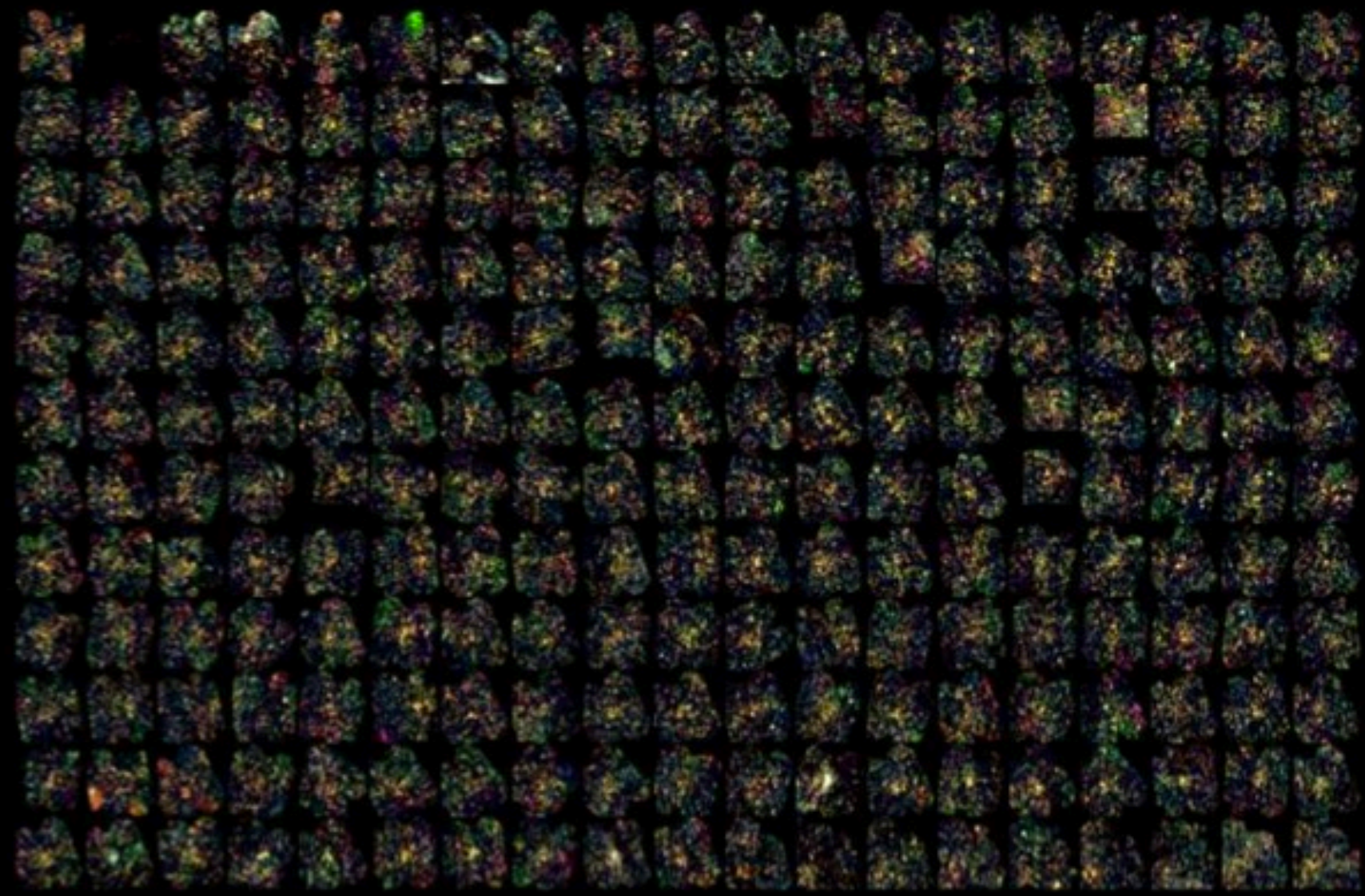
Follow-up
observations

Herschel / SPIRE

OT-1
OT-2 Calls
HPASS



204
sources



(Planck Int. XXVII 2014)



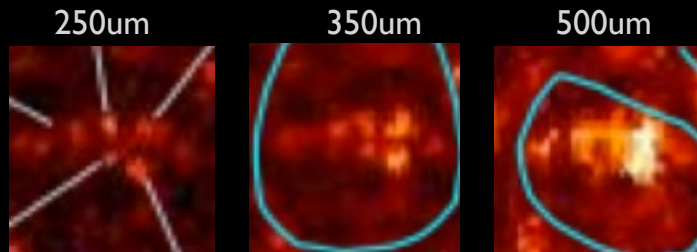
A few examples

The Planck Catalogue of High-z source candidates

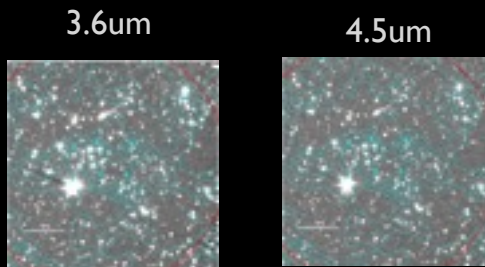
Proto-cluster

(Flores-Cacho et al. 2014, subm)

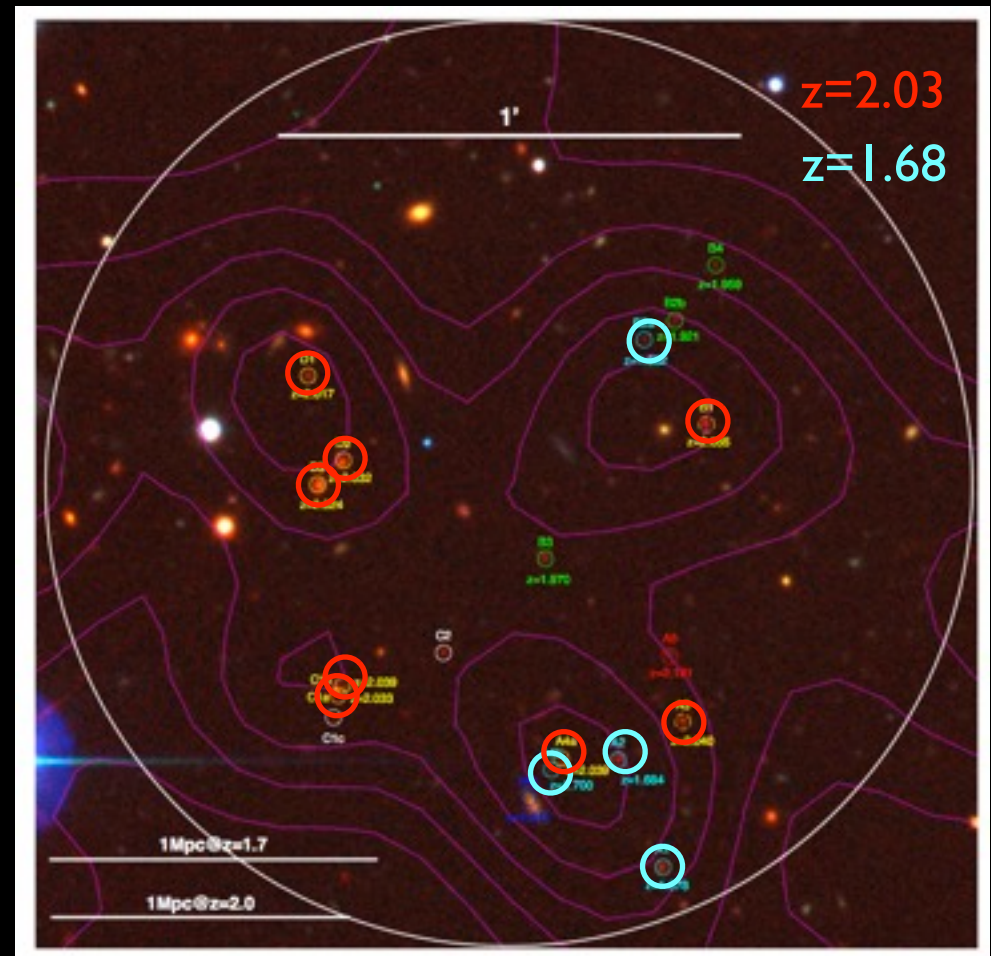
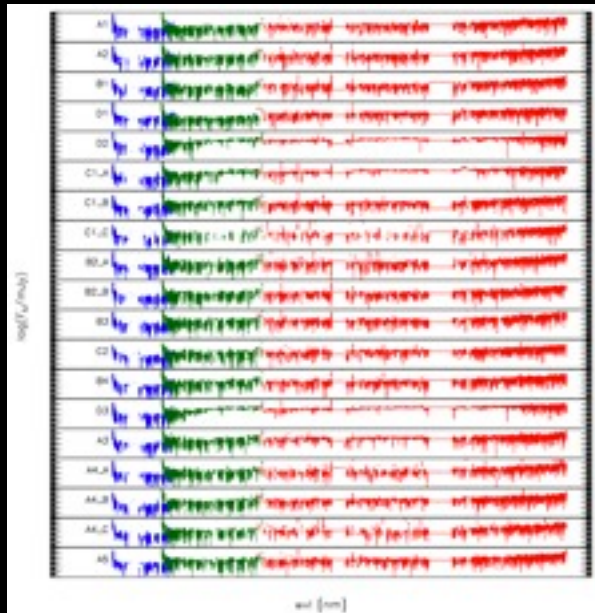
Herschel
SPIRE



Spitzer



VLT
XSHOOTER



CFHT (g, i, J, H, K)



Planck's need

Manage versions of catalogues:

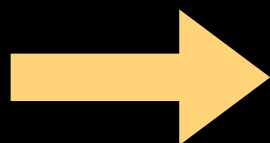
- Versions of original maps (Planck)
- Versions of detection tools
- Versions of point sources metadata
- Various types of catalogues: Planck / Herschel / Optical

Trace Follow-up data:

- Gather data (maps / spectra)
- Organize Follow-up proposals
- Assurer le statut privé de certaines données

Build new Follow-up proposals:

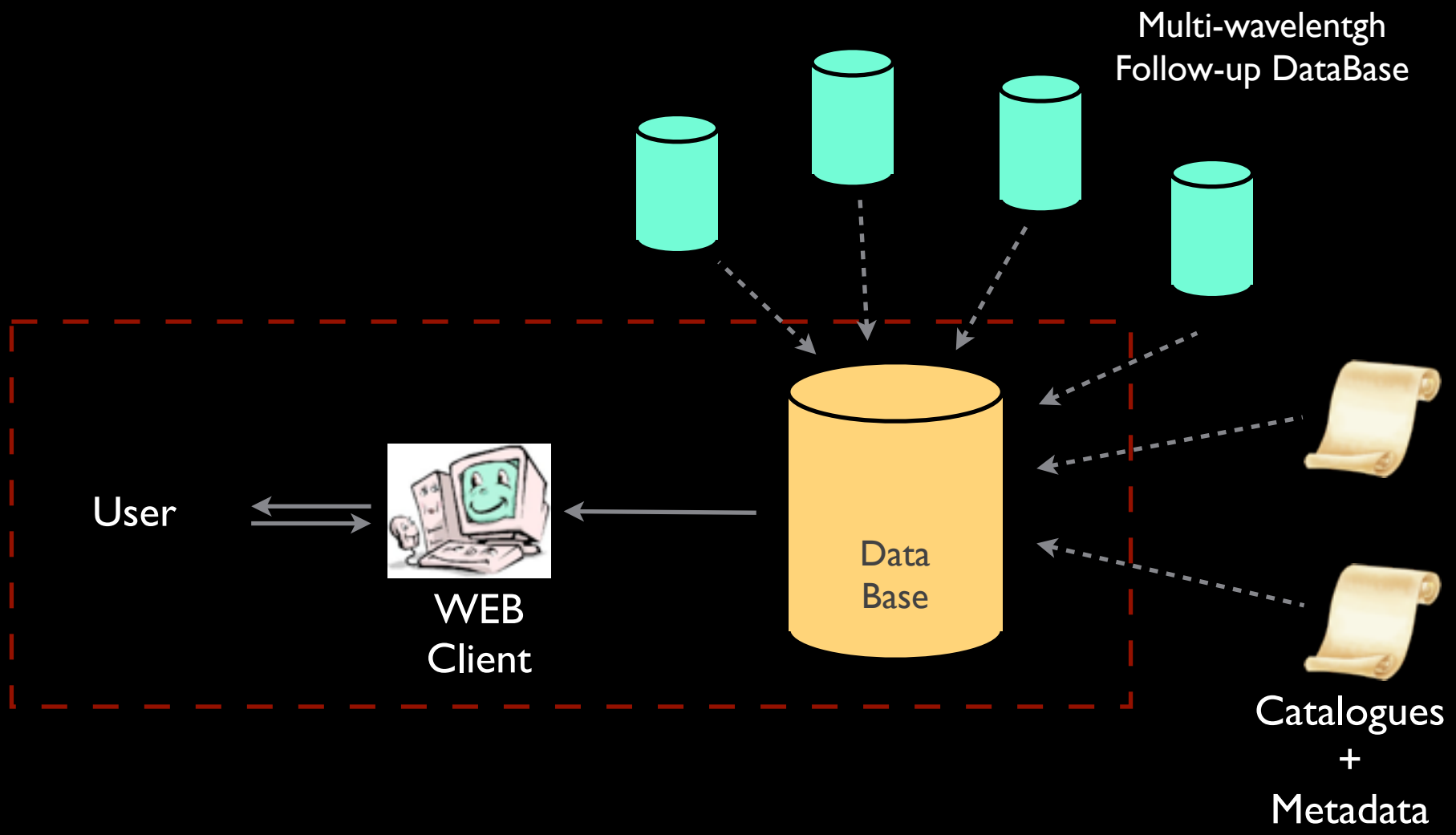
- Multi-criteria query: instrument, sky area
- Complete a follow-up survey



LMFAOPS
(**L**arge **M**ulti **F**requency
Archive
of **P**lanck **S**ources)



Planck's need





Towards a more generic tool?

Planck's needs are generic:

- Multi-frequency Follow-ups on astrophysical sources
- Organize data (catalogues, maps, spectra)
- Share private data within a project
- Deliver data to the community



MuFFInS

**(Multi Frequency Follow-up
Inventory Service)**

PHz



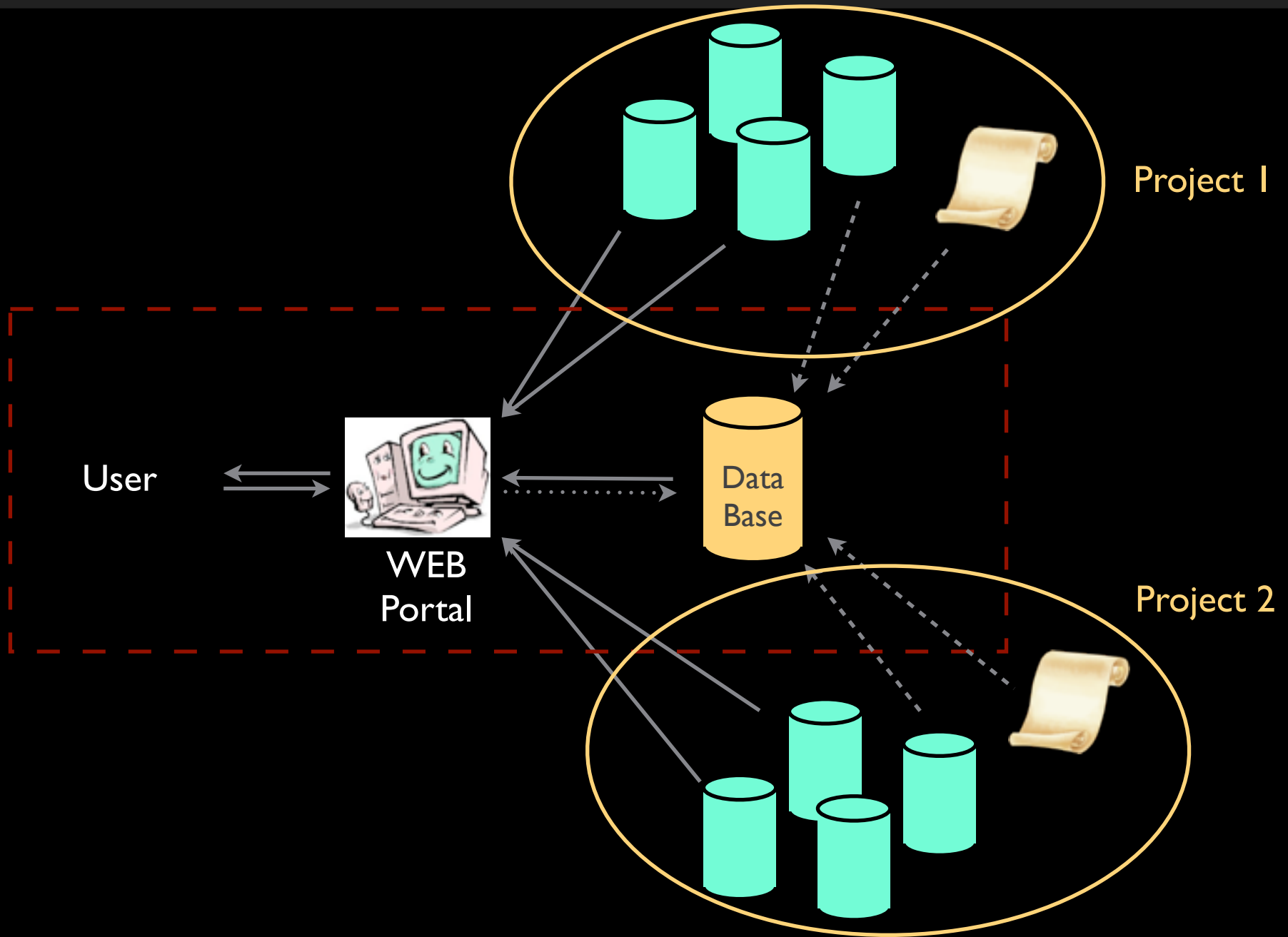
??

PGCC

??



Towards a more generic tool?





Pastry Cooks



Ludo



Bastien



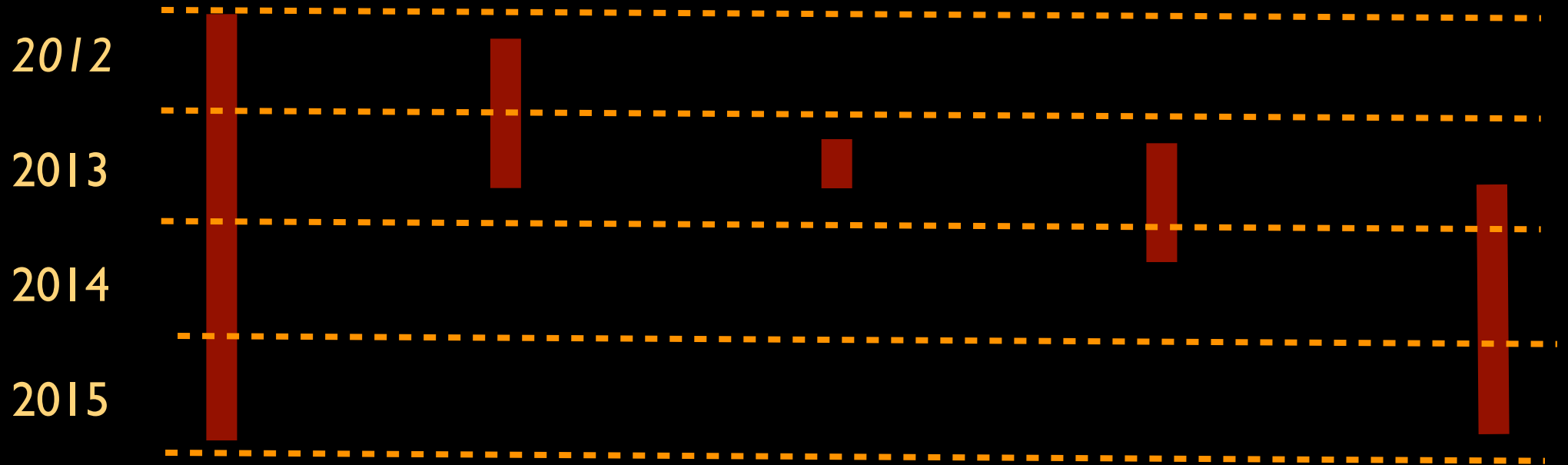
Yaya



Mariane



Salima





MuFFInS' functionalities

The Data Base

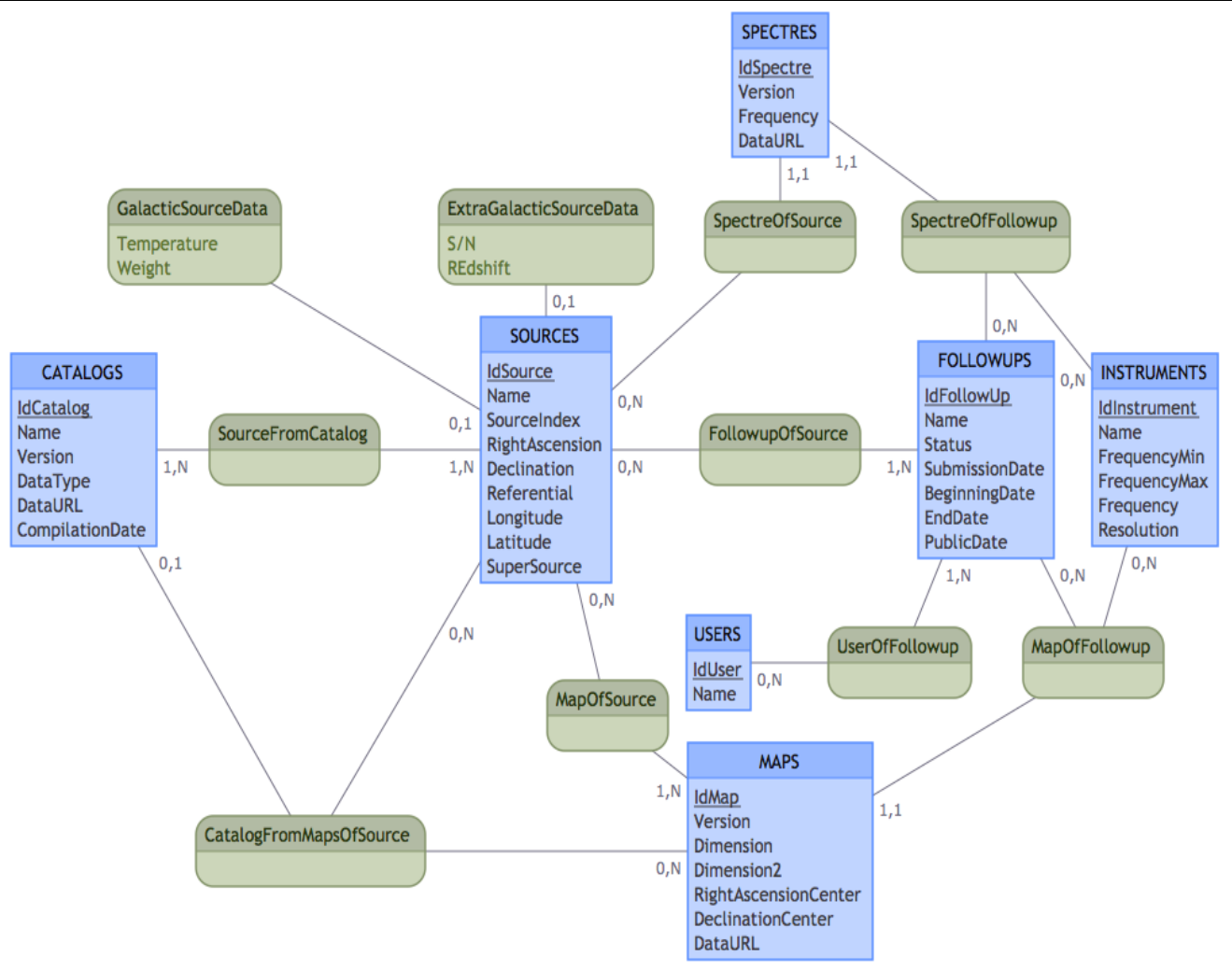
DB:

- Catalogues
- Sources
- Metadata
- Follow-Up
- Data (maps / spectra)
- Users

Access management
Public / Private

Metadata:

- Tag
- IVOA Standards

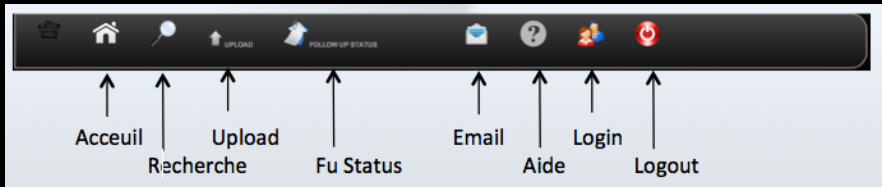




MuFFInS' functionalities

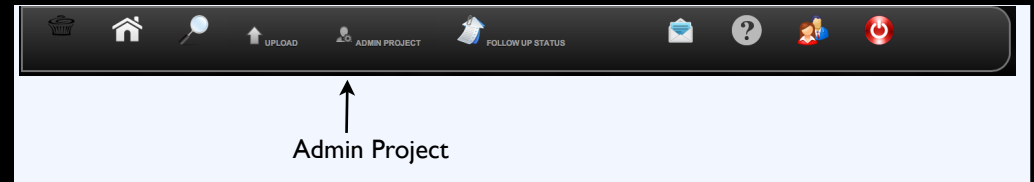
WEB Django Interface

User Interface



- Smart Query
- Download Data
- Visualization Data
- Check Follow-Up Status
- Upload Data

Project Interface

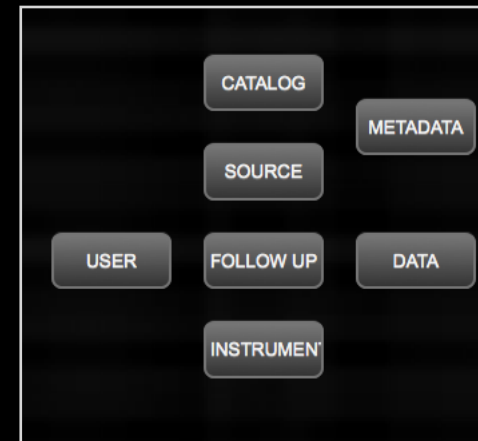
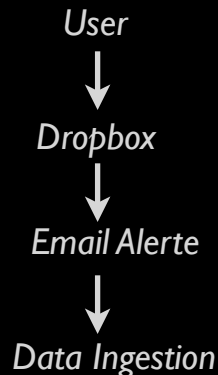
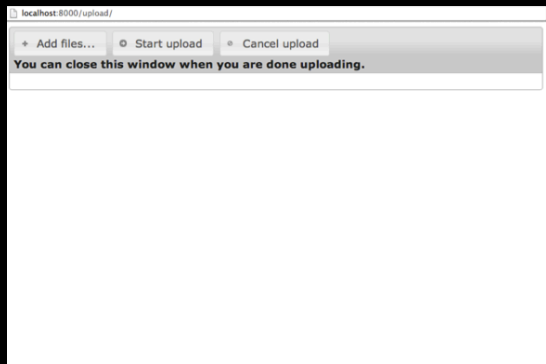


- Loading catalogues / sources / data
- User management
- User Rights controller

Service
SFTP

or

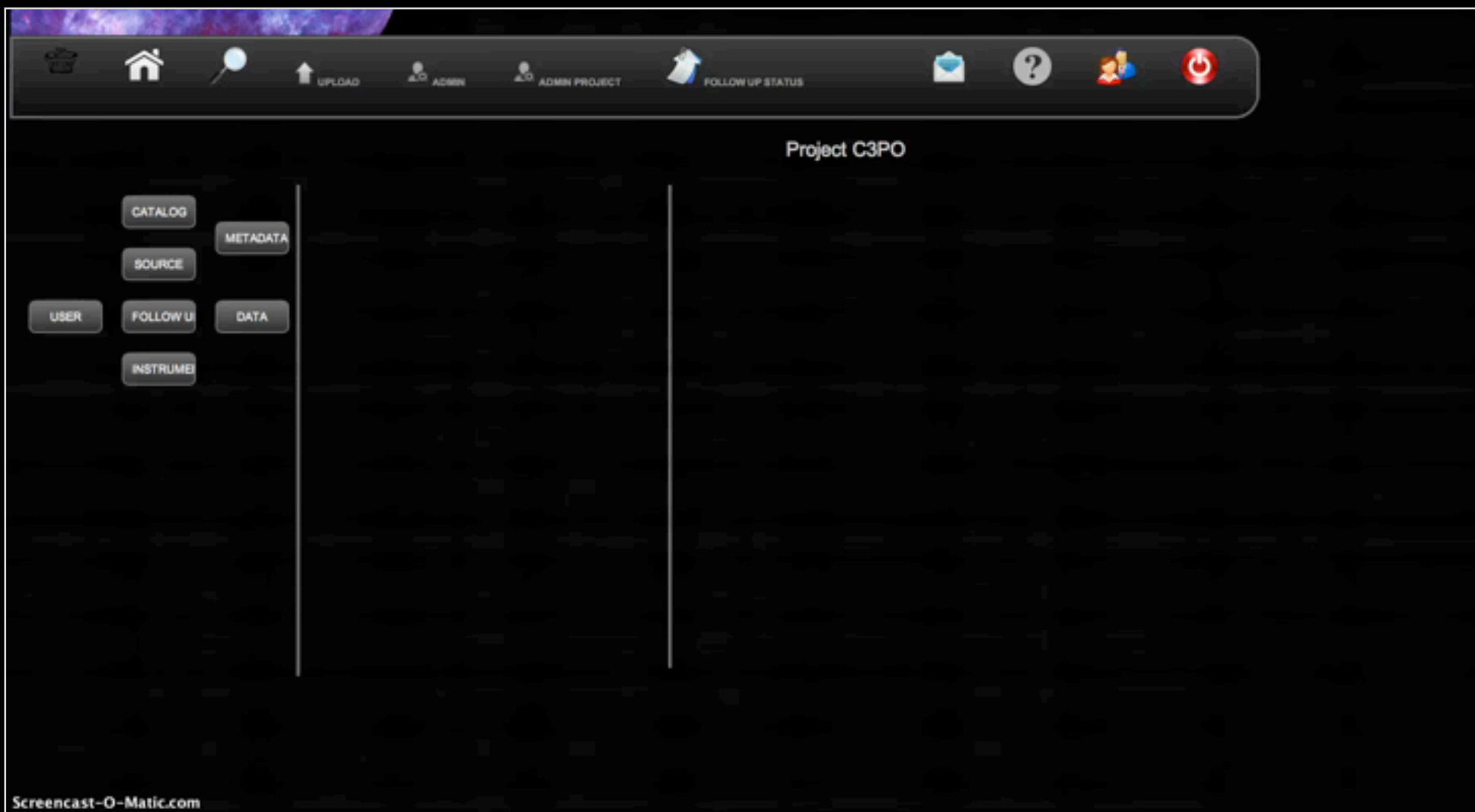
WEB Interface





MuFFInS' functionalities

Project Administrator Interface





MuFFInS' functionalities

User Interface: Query

The screenshot displays the MuFFInS user interface. At the top, there is a header with the text "MuFFInS" and logos for "irap", "eesa", "cifs", and "cnes". Below the header is a navigation bar with icons for home, upload, admin, admin project, and follow up status. The main content area is divided into two sections: "QUERY" and "RESULTS". The "QUERY" section contains a vertical list of buttons: "COORDINATES", "FOLLOWUPS", "CATALOGS", "INSTRUMENTS", and "SUBMIT". The "RESULTS" section displays the text "No Results".

ScreenCast-O-Matic.com



MuFFInS' functionalities

User Interface: Follow-Up

MuFFInS

irap esa
cirs cnes

?

?

?

Welcome to MuFFInS

This platform is intended for all collaborators on the domains of research associated with catalogs sources Planck, C3PO and PHIZ.

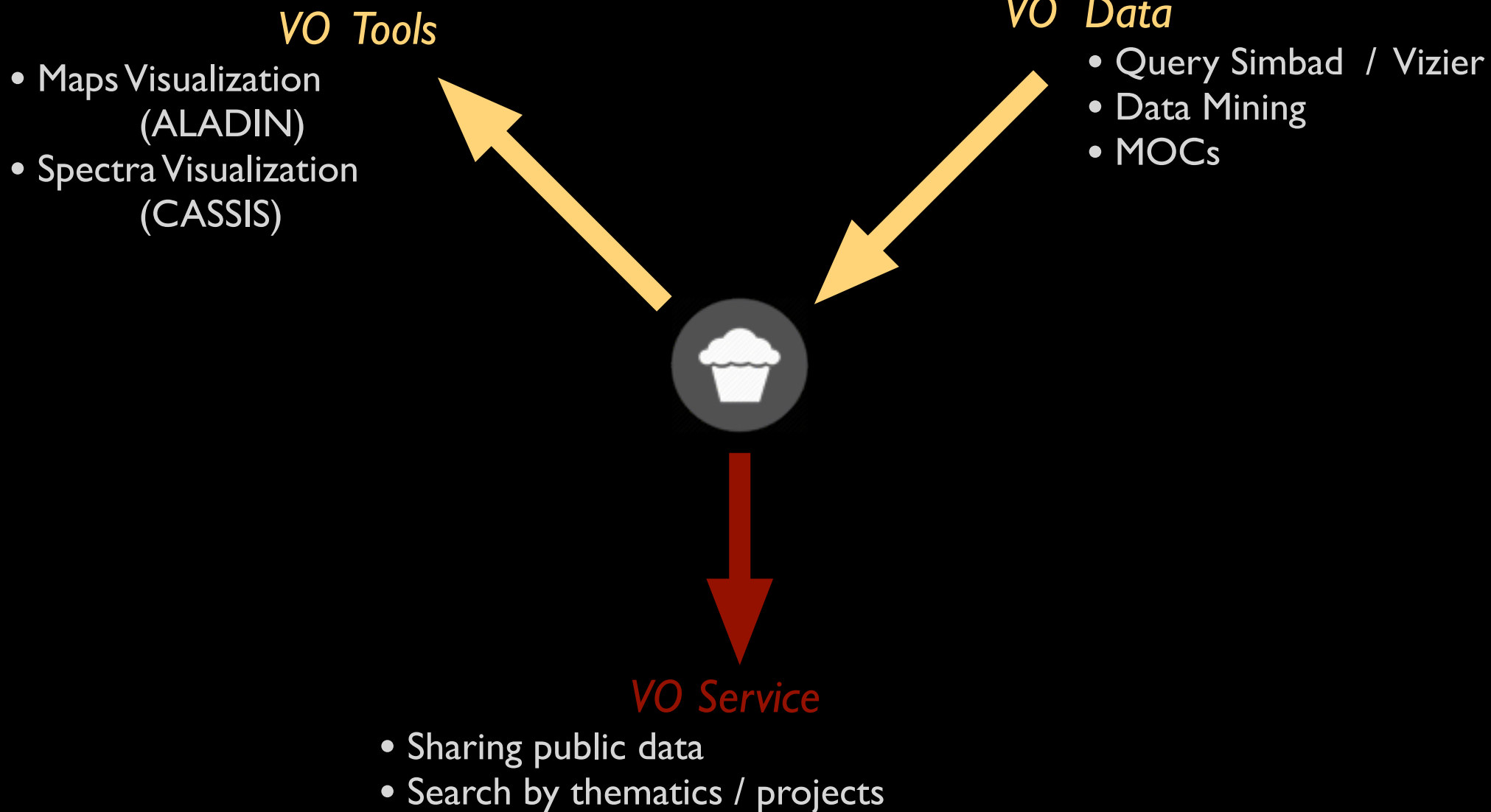
On this site, you can :

- run queries defined according to specific criteria
- download the data from the result of research
- visualize with virtual observatory tools data related to sources from query result
- send data to the platform

Screencast-O-Matic.com



MuFFInS & VO





Conclusion

MuFFInS

Principal functionalities:

- Public / Private data
- Multi-projects
- Mutli-criteria query interface
- Information synthesis to build new Follow-up proposals
- Matching all frequency domains or sources follow-up projects

Development status:

- Validation of the first prototype in progress
- 3 projects ongoing at IRAP

VO functionalities:

- Consistent to IVOA standards
- Use of available VO tools and data
- Deliver data through VOs
- In progress..



Conclusion

MuFFInS for PGCC

Catalogues:

- *Planck* Catalogue: PGCC
- *Herschel* Catalogues (GCC IV paper)
- Others ?

Follow-up data:

- *Herschel*
- Molecular data [...]
- NIKA2
- ...

JCMT follow-up