



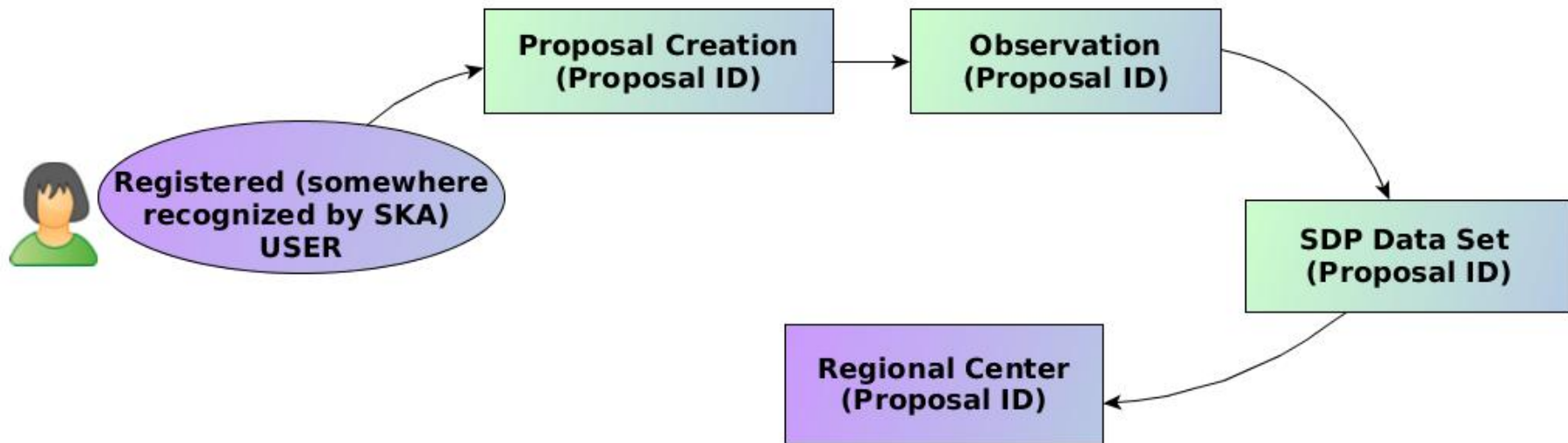
A possible model for SKA Regional Centers interoperability

S. Bertocco

on behalf of
C. Knapic, F. Tinarelli, G.Taffoni, E.Londero, N.F.Calabria

Trieste, 29 - 30 January 2019

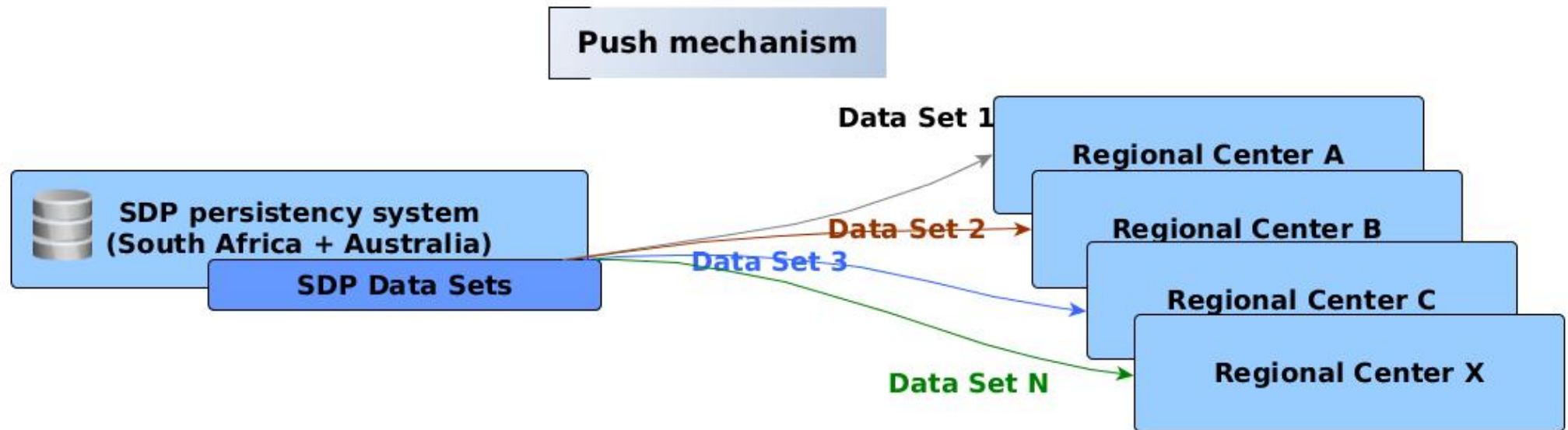
- To develop a prototype to test a feasible architecture for sharing geographically distributed data and computation resources in the context of SKA Regional Centers
- The prototype is based on requirements provided by the AENEAS project
- Use the new IVOA recommendations on A&A
- The technological environment is provided by interoperability studies carried on in the ASTERICS environment



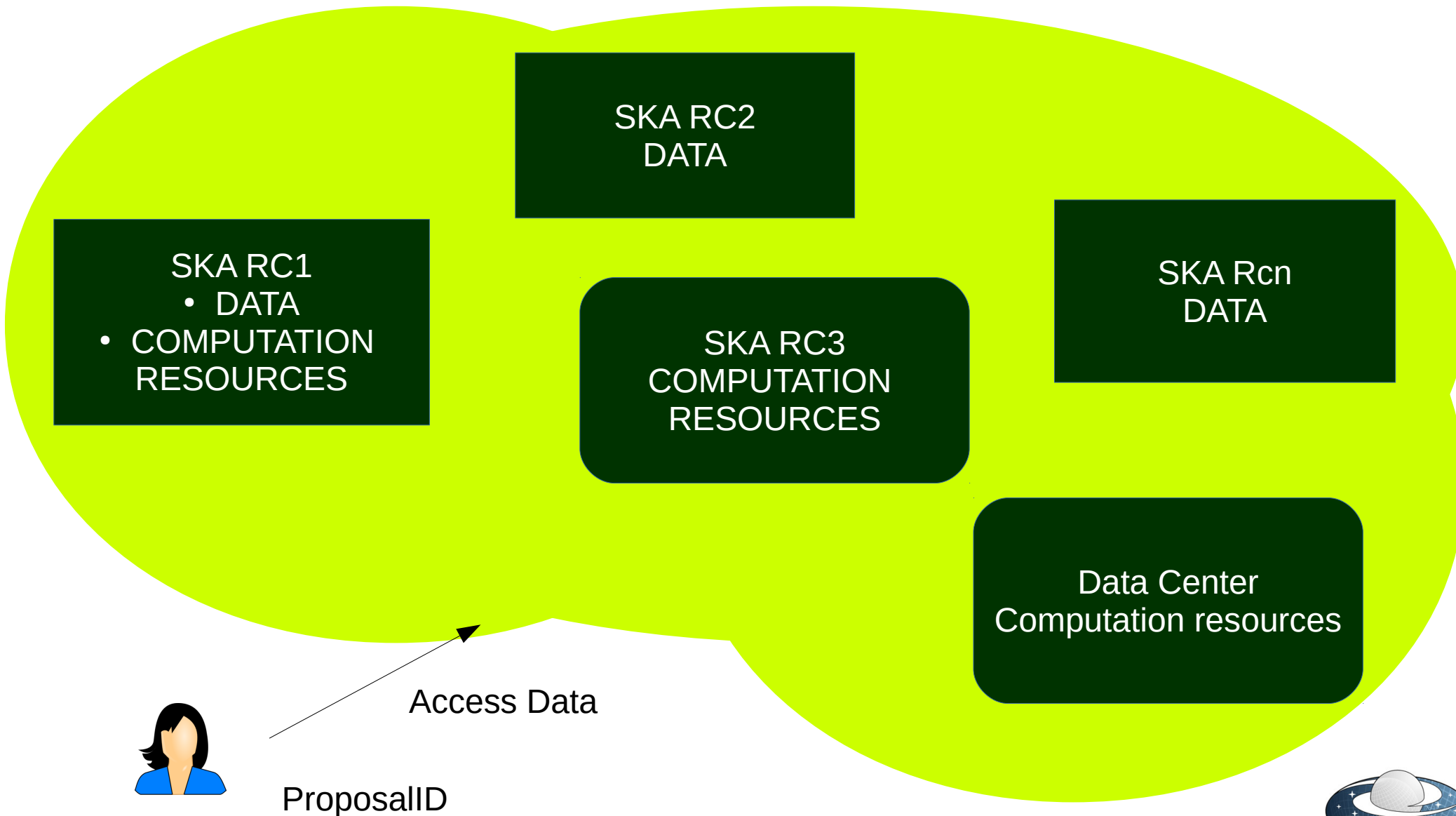
Keywords:

- Proposal-ID
- Data Set
- User/User Credentials

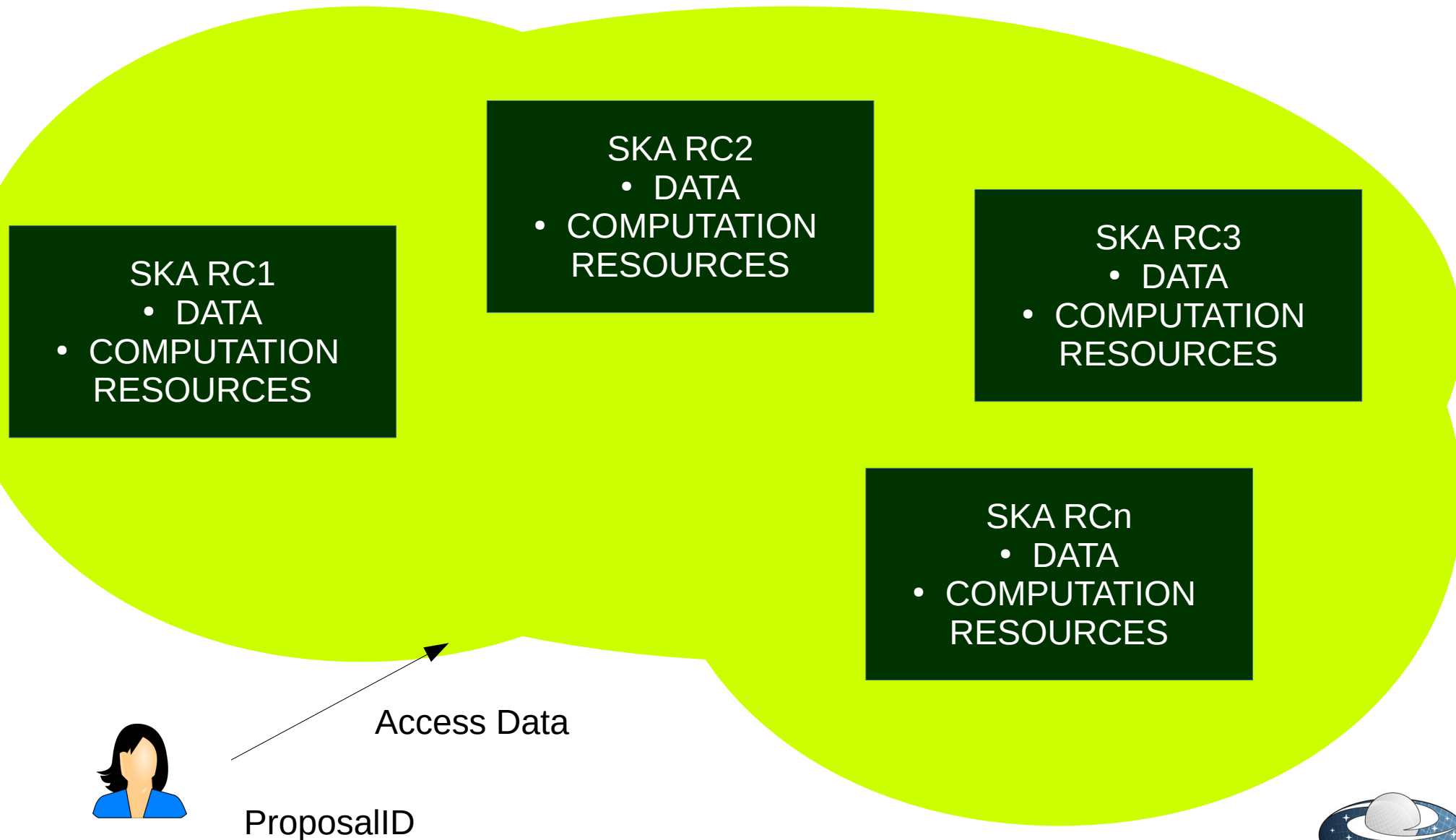
- After the observations (labelled with a proposal-ID), the Data Sets will be pushed to SKA-RC based on a to be defined policy.

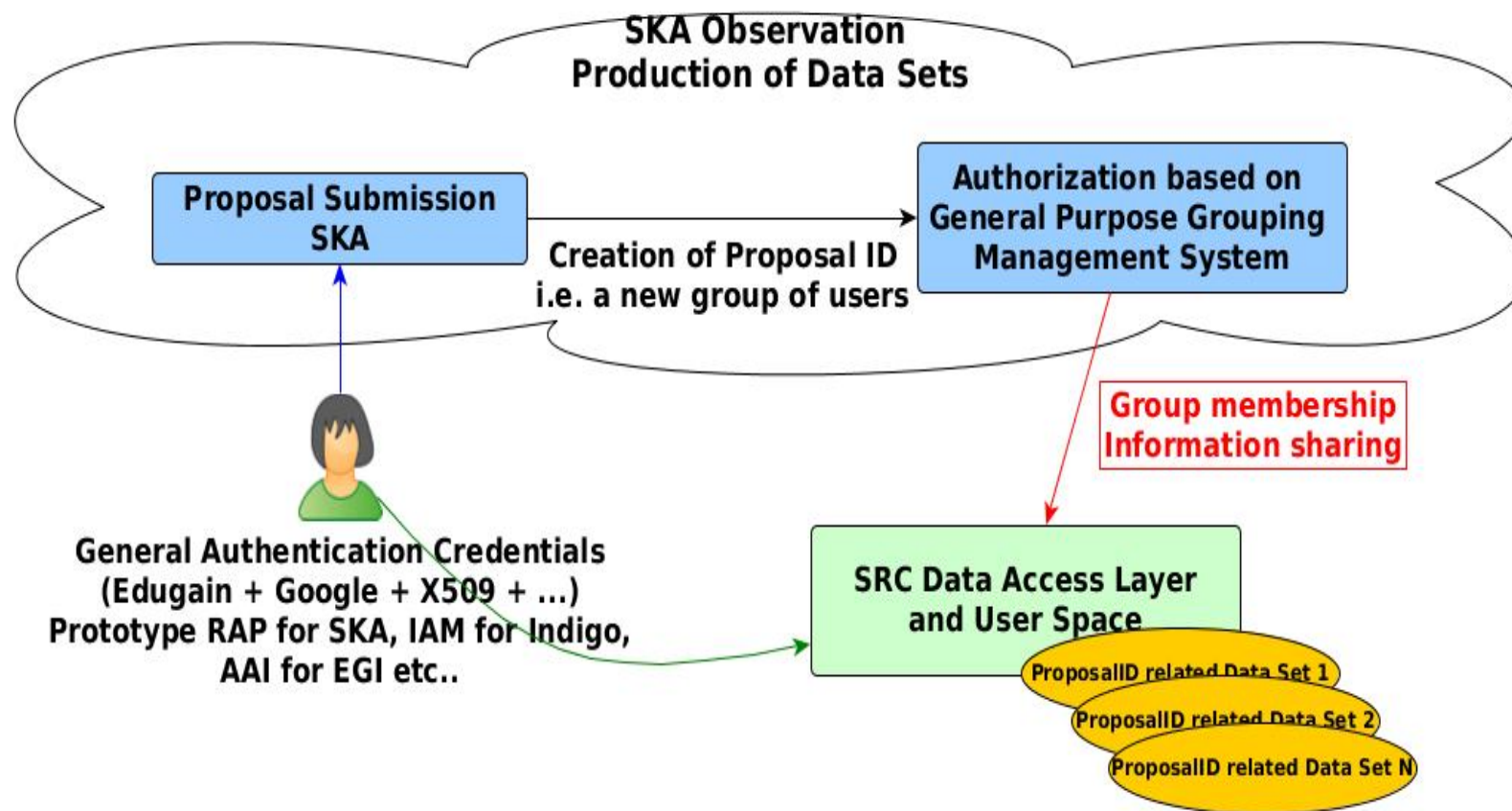


The use case in general

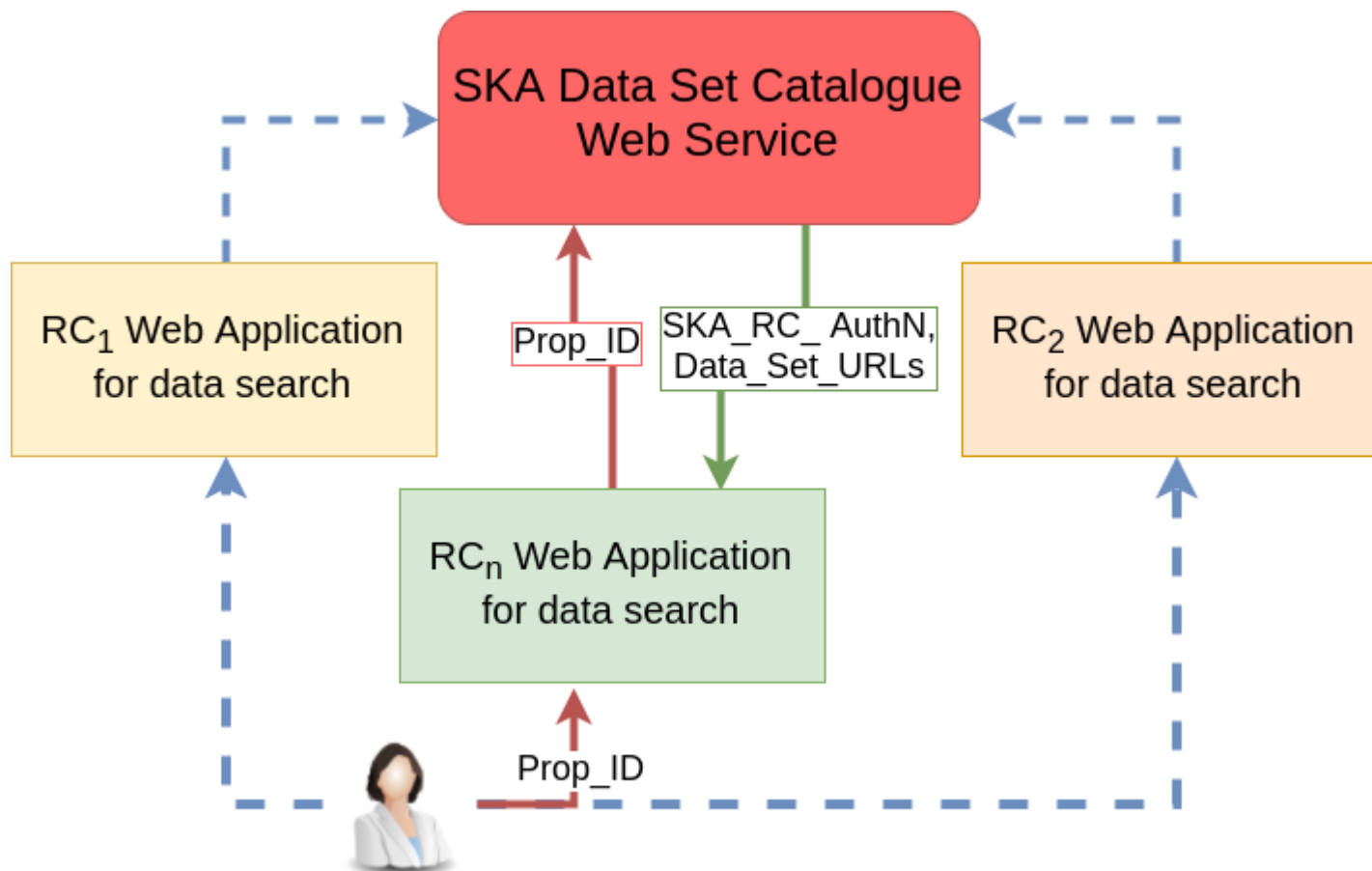


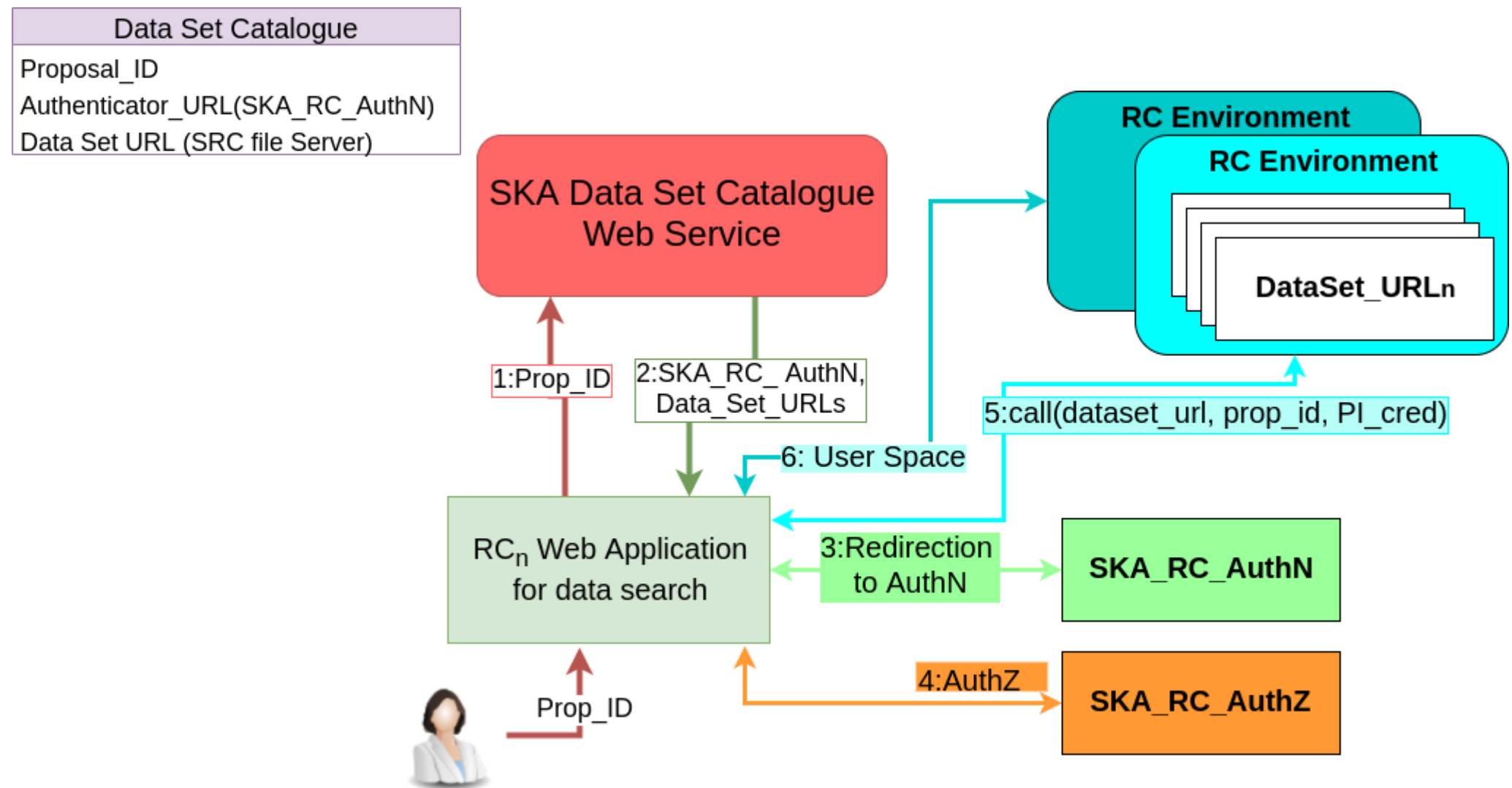
The use case in general





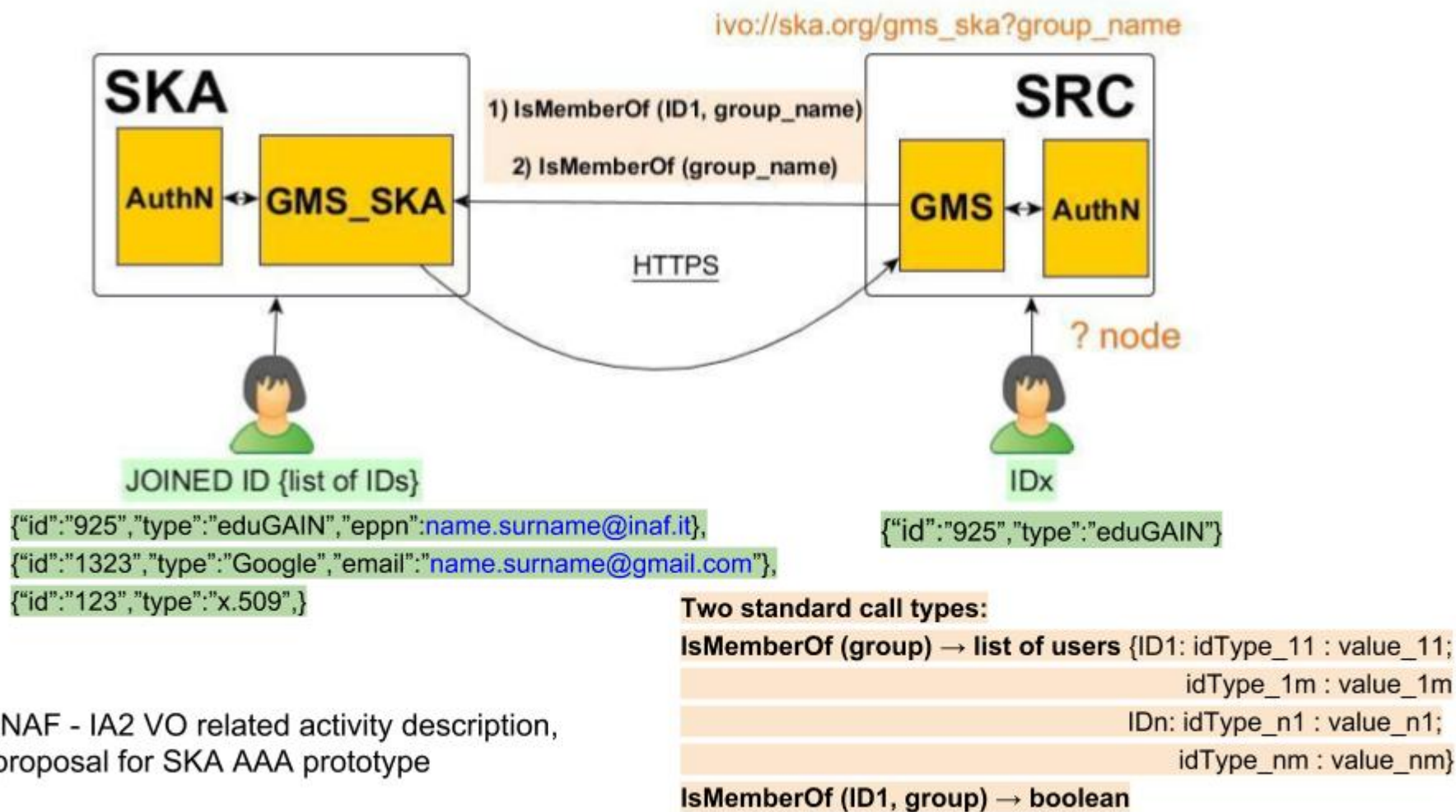
The prototype use case





1. Multi-protocol AuthN - 2) Account Linking

Courtesy of C. Knapic - G. Jerse -- INAF - OATs




The prototype

SKA_RC Demo - Mozilla Firefox

SKA_RC Demo

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INAF SKA Regional Centre

SKA REGIONAL CENTRE DEMO

This is a prototype to demonstrate the use of a SKA Regional Centre which uses an external authentication and authorization service.

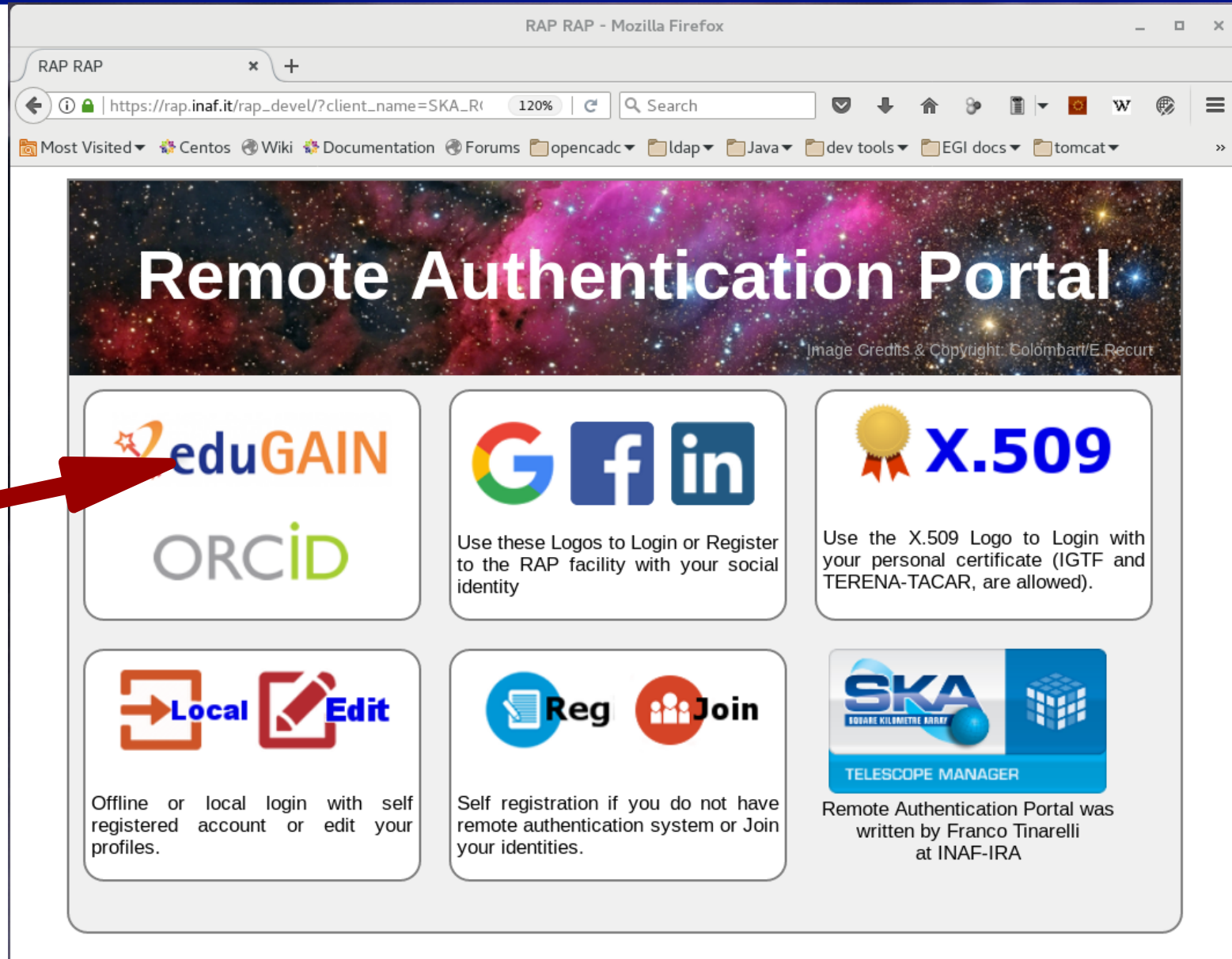
To use the Regional Centre Facilities enter the code of the observation proposal.

Proposal Code:

To use the demo you must have enabled the use of **cookies**

This branch of SKA_RC is in development. If you find errors try again after a few minutes.

The prototype



The prototype

IA2 - IdP Selection - Mozilla Firefox

IA2 - IdP Selection


https://sso.ia2.inaf.it/shibboleth-ds

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IA2 - Italian Center for Astronomical Archives



Use a suggested selection:



 National Institute for
 Astrophys...

Or enter your organization's name

☐ Allow me to pick from a list

[Privacy policy](#)

Powered by  **IA2**


The prototype

Web Login Service - Mozilla Firefox

Web Login Service x +

https://idem.ced.inaf.it/idp/profile/SAML2/ Search

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Login to SSO Portal for INAF services

Username

sara.bertocco

Password

.....

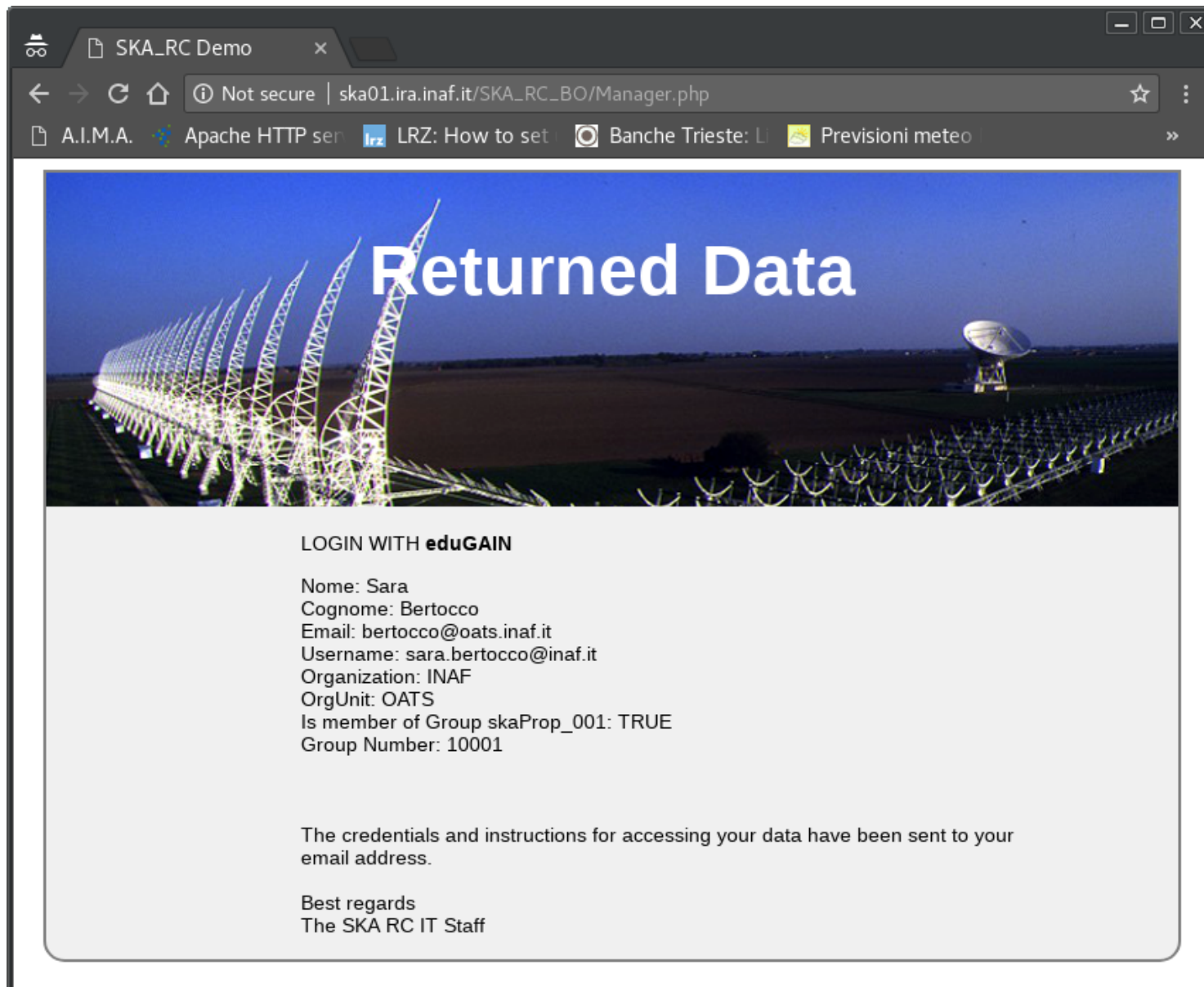
☐ Don't Remember Login

☐ Clear prior granting of permission for release of your information to this service.

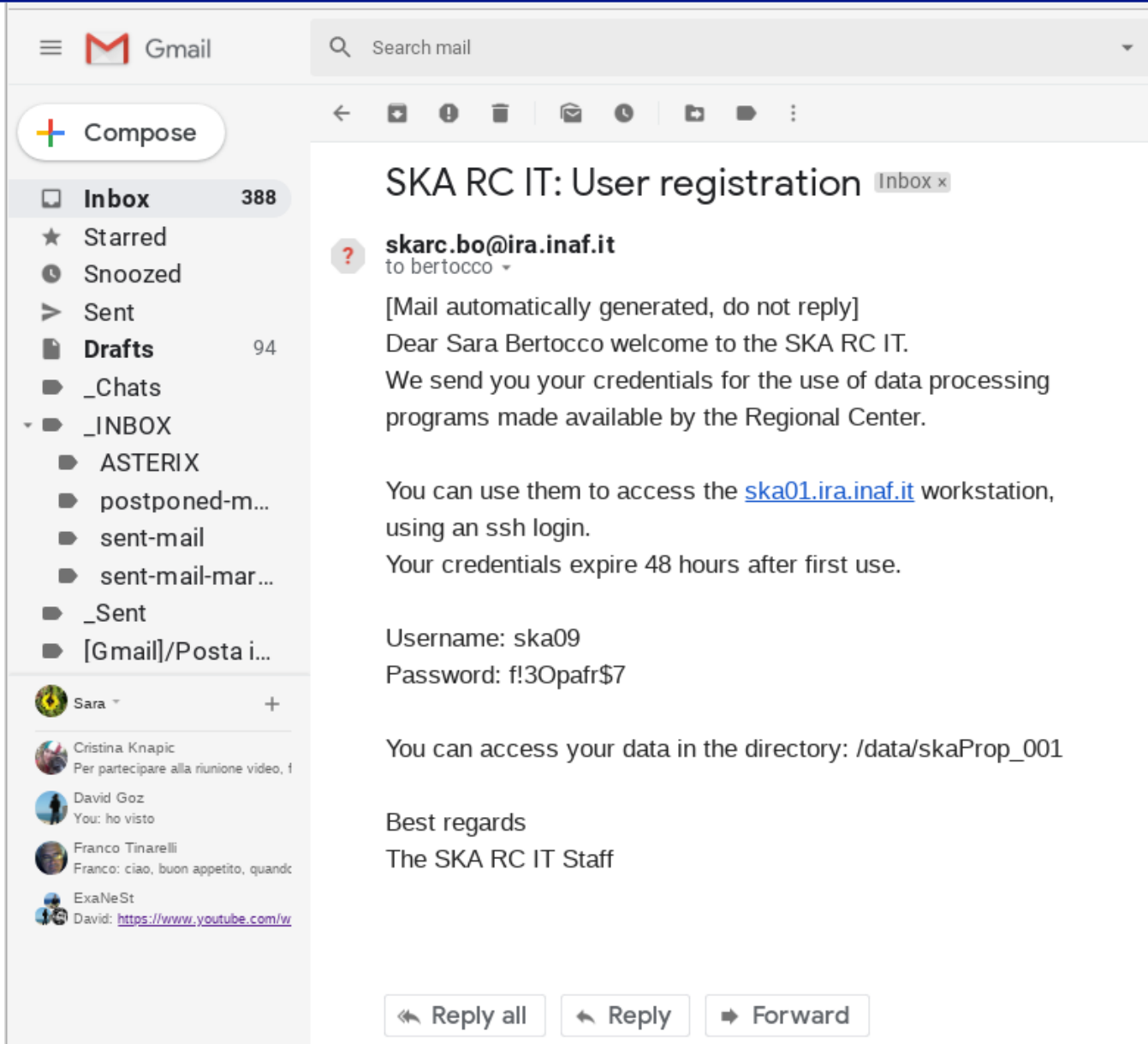
Login

[Forgot your password?](#)
[Need Help?](#)

The prototype



The prototype



Gmail interface showing an email from **skarc.bo@ira.inaf.it** to **bertocco**. The email subject is **SKA RC IT: User registration**. The content includes a welcome message, login credentials (Username: ska09, Password: f!3OpafR\$7), and the directory path `/data/skaProp_001`.



The prototype

```
ska09@ska01:~  
File Edit View Search Terminal Help  
[bertocco@firiell ~]$ ssh ska09@ska01.ira.inaf.it  
The authenticity of host 'ska01.ira.inaf.it (90.147.132.60)' can't be established.  
ECDSA key fingerprint is SHA256:fUr/Gn3oGAvTZfGo3fUO9+HV+02VD7aDnn/slm1ABRA.  
ECDSA key fingerprint is MD5:d8:64:69:94:9c:a6:53:da:07:96:11:7b:f7:6a:fd:7b.  
Are you sure you want to continue connecting (yes/no)? yes  
Warning: Permanently added 'ska01.ira.inaf.it,90.147.132.60' (ECDSA) to the list of known hosts.  
ska09@ska01.ira.inaf.it's password:  
[ska09@ska01 ~]$ ls /data/skaProp_001  
FTIN-1  FTIN-2  
[ska09@ska01 ~]$
```

Thanks!

