

Taking SRAM into production at DataHub

SURF Research Access Management (SRAM)

Follow-up workshop for data stewards

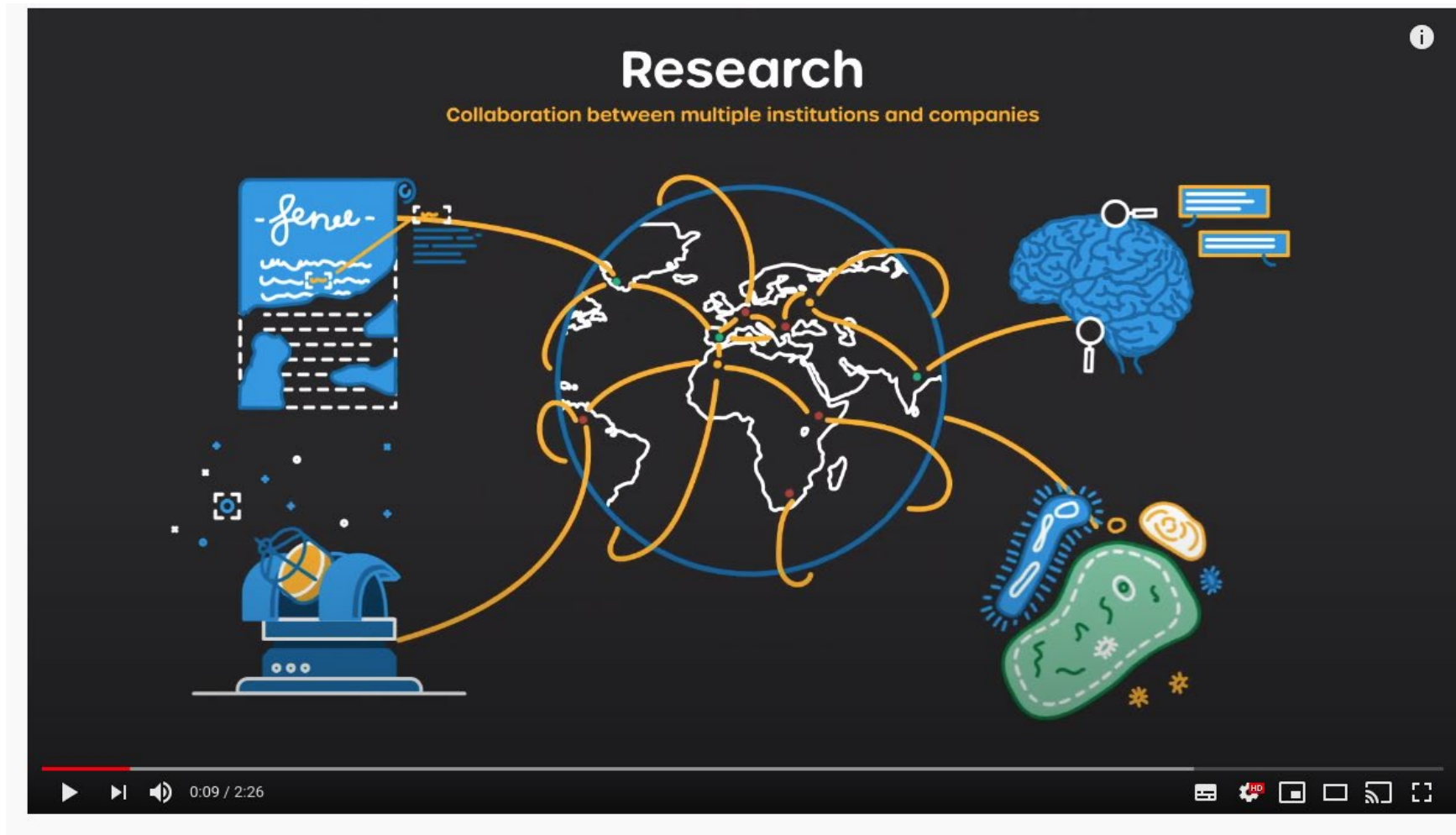
Content

Dates: 23-Mar-2021 and 29-Mar-2021

Topics

- Recap: Introduction to SRAM
- Policies for data sharing
- Steps for allowing external access
- The new SRAM signup process
- The new SRAM look and feel
- Recap: Practical 1
 - Learn the relation between COs and iRODS permissions
 - Learn how to add/remove users to/from a CO
- Practical 2
 - Design your department's CO(s)
 - Best-practices in organising your CO(s)
- Mutual SRAM expectations DataHub vs. data stewards
- Homework
- Q&A and feedback on the workshop

Recap: Introduction video SRAM

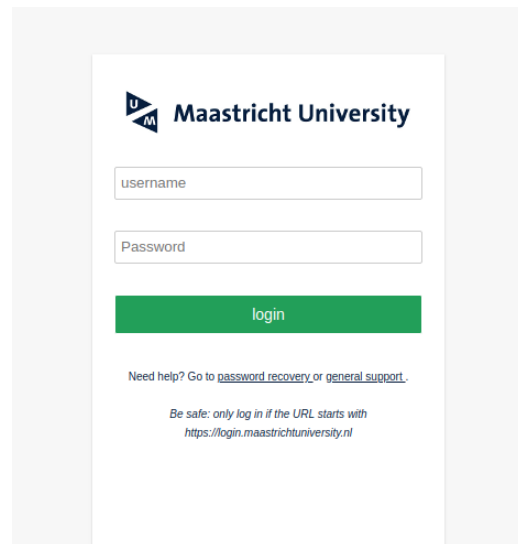


Recap: DataHub's goals with implementing SRAM

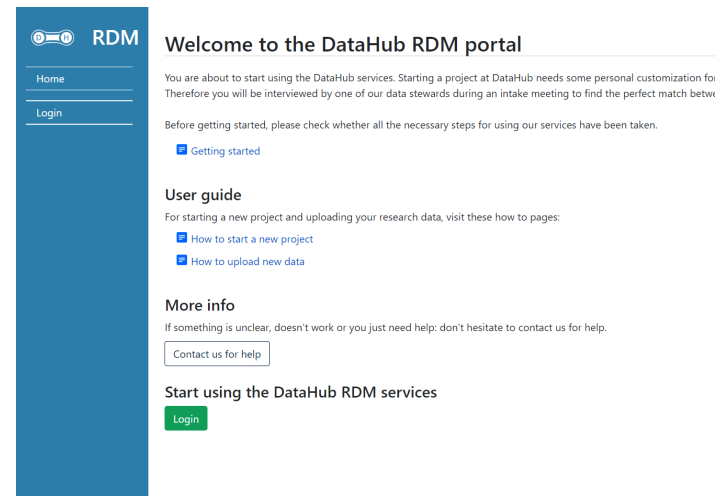
- Improve self-service:
 - Group management by data stewards
 - Self-invite to groups
- Central user management
- Easy and safe data sharing with (inter)national collaborators

Recap: Quick Definitions

Term	Description
Authentication vs Authorisation	Who you are vs. what rights you have
CO - Collaboration Organisation	Team of accounts in SRAM that have a common interest
Home Organisation	The institute where you work
IdP - Identity Provider	Login-system at home organisation
SP - Service Provider	Web application to use
Data Steward	That's you

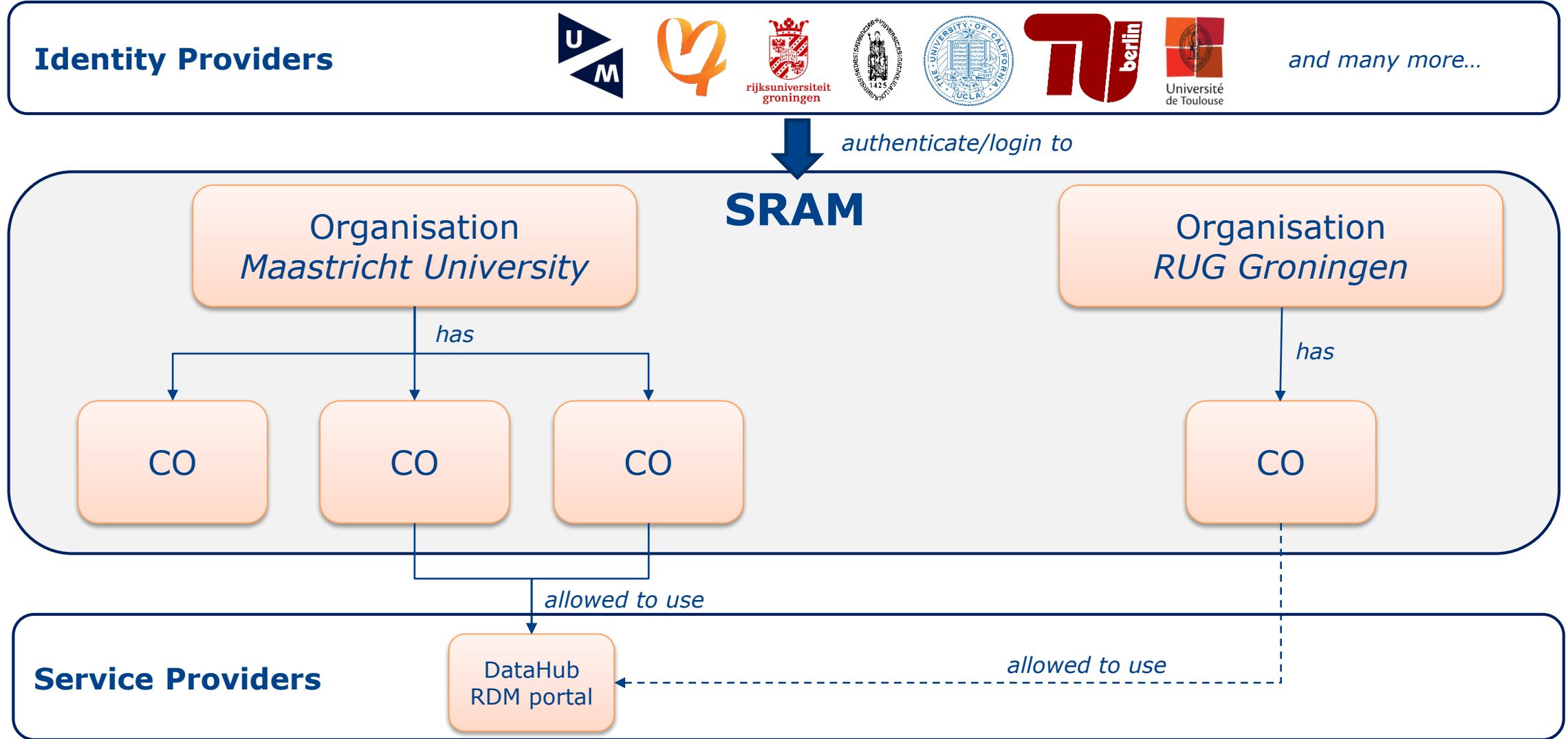


Maastricht University IdP



DataHub RDM portal SP

Recap: SRAM structure



Recap: What is a Collaboration Organisation (CO)?

Team of accounts in SRAM that have a common interest

CO characteristics:

- Defined by an organisation. That organisation is secretary (“penvoerder”) of CO.
- Hierarchy: belongs to 1 organisation.
- Members: can come from multiple organisations.

Legal

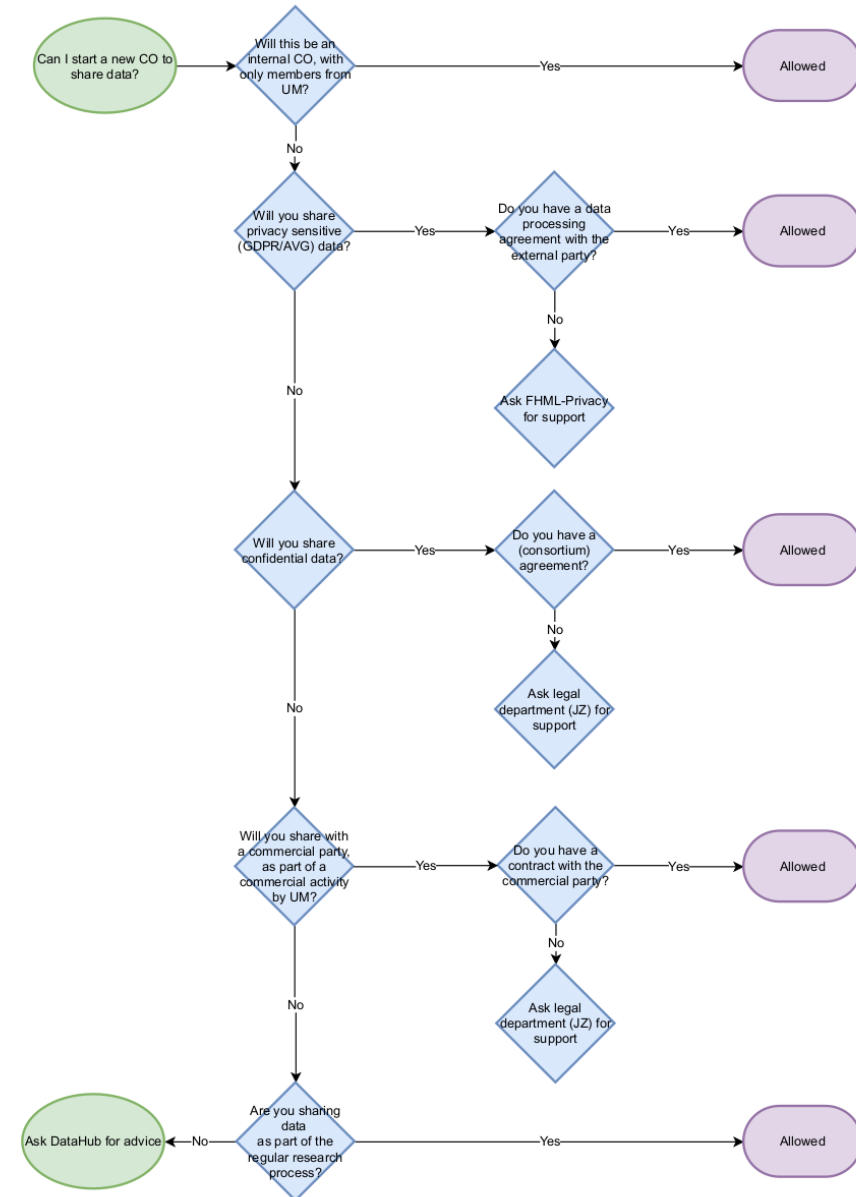
- COs don’t need to be legal entity themselves
- For external parties: agreement(s) may be required. See next slide.

Examples

- Internal: Research **projects** (e.g. PhD John Doe), **departments** (e.g. M4i-nanoscopy) or **schools** (e.g. NUTRIM).
- Internal and external: **Consortia** with external parties under a collaboration agreement, contract work for **companies**.

When is data sharing with externals allowed?

- When are you allowed to share data with externals?
 - As part of normal research process
 - When not disallowed by privacy regulations, confidentiality agreements or by funder's requirement
- The RDM code of conduct is leading.
- Data steward responsibility
- This decision tree can help you.
No rights can be obtained from this decision tree.



RDM code of conduct: <https://www.maastrichtuniversity.nl/research/integrity-ethics/management-research-data>

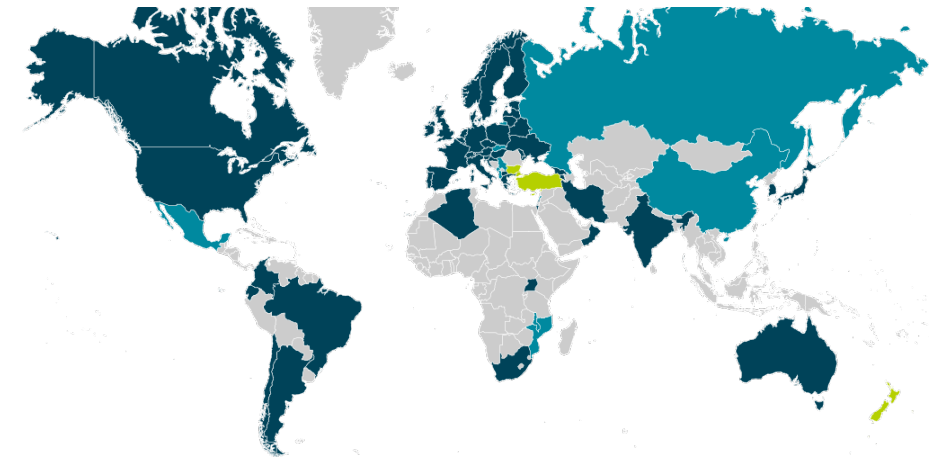
Where can users come from?

SRAM makes use of the Geant EduGAIN IdP/SP network

- Network of identity federations (like SURFConext) and service providers
- Many academic institutions already connected

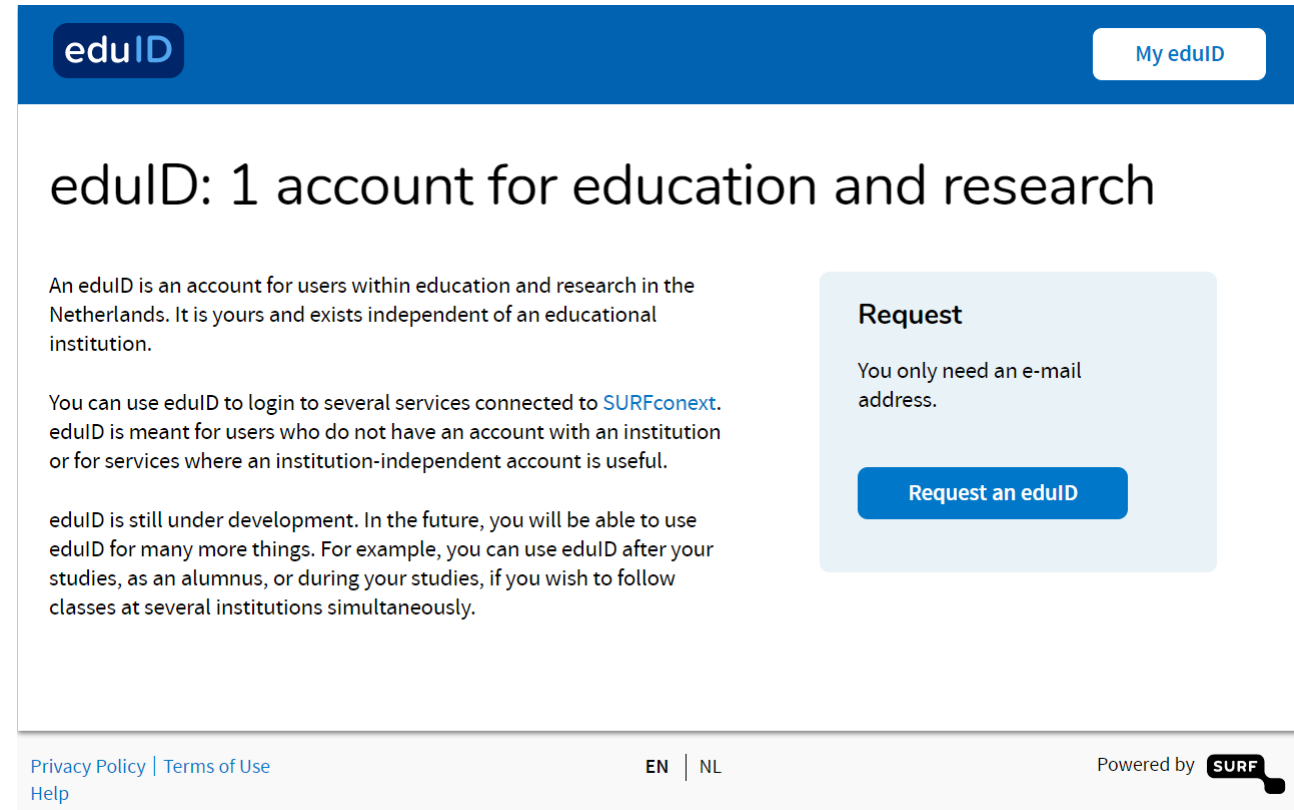
SRAM's door is open for companies and (small) regional hospitals.

Federations in eduGAIN ?	
Participants	70
Voting-only Members	3
Candidates	6
Entities in eduGAIN ?	
All entities	7165
IdPs	4049
SPs	3119
Standalone AAs	3



Users without (federated) IdP

- How to deal with small companies?
- How to deal with citizen science?



The screenshot shows the homepage of the eduID website. At the top, there is a blue header with the 'eduID' logo on the left and a 'My eduID' button on the right. The main content area has a white background with the heading 'eduID: 1 account for education and research'. Below this, there are three paragraphs of text explaining what an eduID is, how it can be used, and its current development status. On the right side, there is a light blue box titled 'Request' containing the text 'You only need an e-mail address.' and a blue button labeled 'Request an eduID'. At the bottom of the page, there are links for 'Privacy Policy | Terms of Use' and 'Help', language options 'EN | NL', and a 'Powered by SURF' logo.

eduID

My eduID

eduID: 1 account for education and research

An eduID is an account for users within education and research in the Netherlands. It is yours and exists independent of an educational institution.

You can use eduID to login to several services connected to [SURFconext](#). eduID is meant for users who do not have an account with an institution or for services where an institution-independent account is useful.

eduID is still under development. In the future, you will be able to use eduID for many more things. For example, you can use eduID after your studies, as an alumnus, or during your studies, if you wish to follow classes at several institutions simultaneously.


Request

You only need an e-mail address.

[Request an eduID](#)

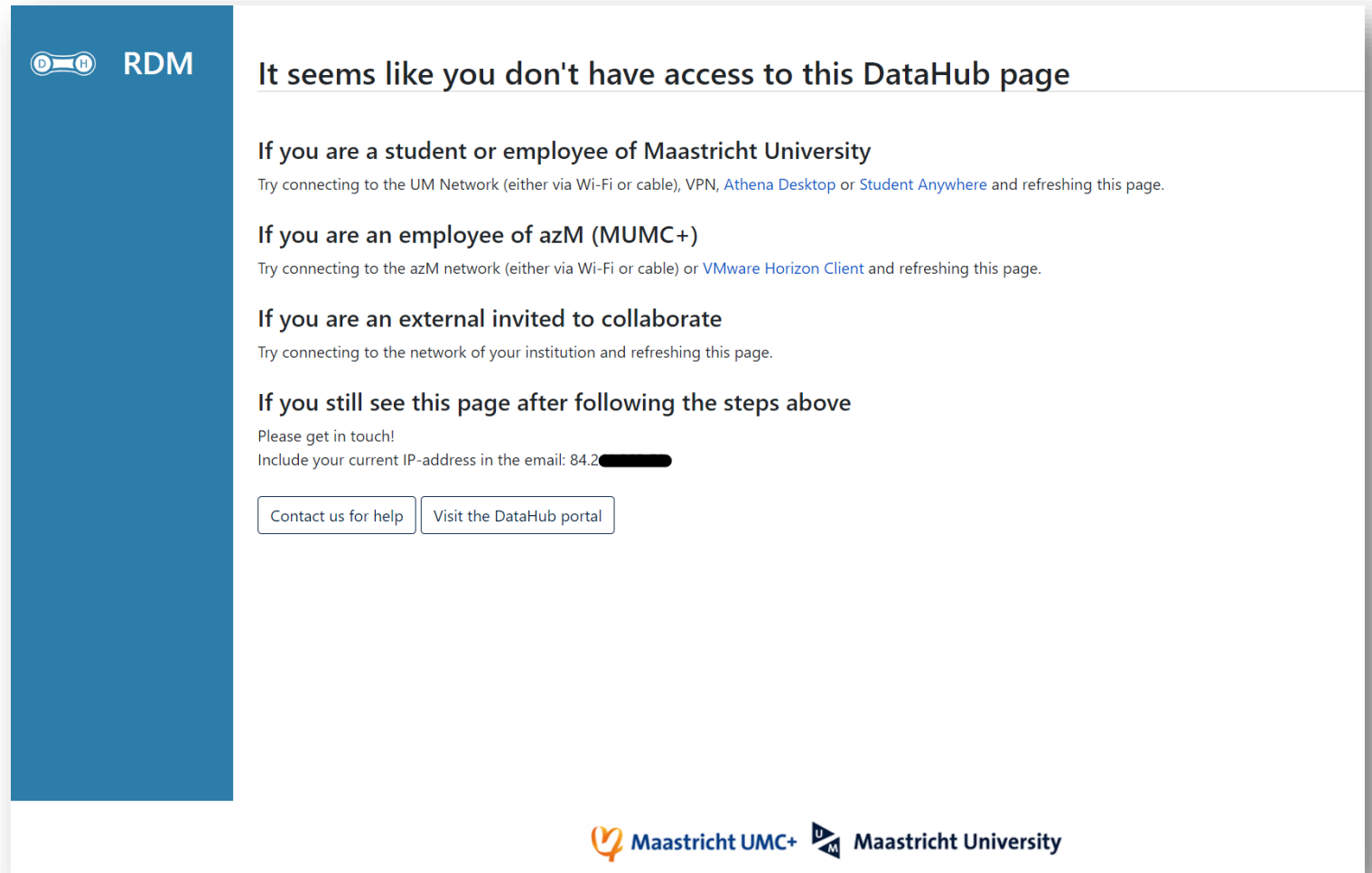
[Privacy Policy](#) | [Terms of Use](#)
[Help](#)

EN | NL

Powered by 

Access to DataHub is protected by firewall

External organisations need to be whitelisted on network level in order to get past this page.



RDM

It seems like you don't have access to this DataHub page



If you are a student or employee of Maastricht University
Try connecting to the UM Network (either via Wi-Fi or cable), VPN, [Athena Desktop](#) or [Student Anywhere](#) and refreshing this page.

If you are an employee of azM (MUMC+)
Try connecting to the azM network (either via Wi-Fi or cable) or [VMware Horizon Client](#) and refreshing this page.

If you are an external invited to collaborate
Try connecting to the network of your institution and refreshing this page.

If you still see this page after following the steps above
Please get in touch!
Include your current IP-address in the email: 84.2[REDACTED]

[Contact us for help](#) [Visit the DataHub portal](#)

 Maastricht UMC+  Maastricht University

Howto collaborate with externals?

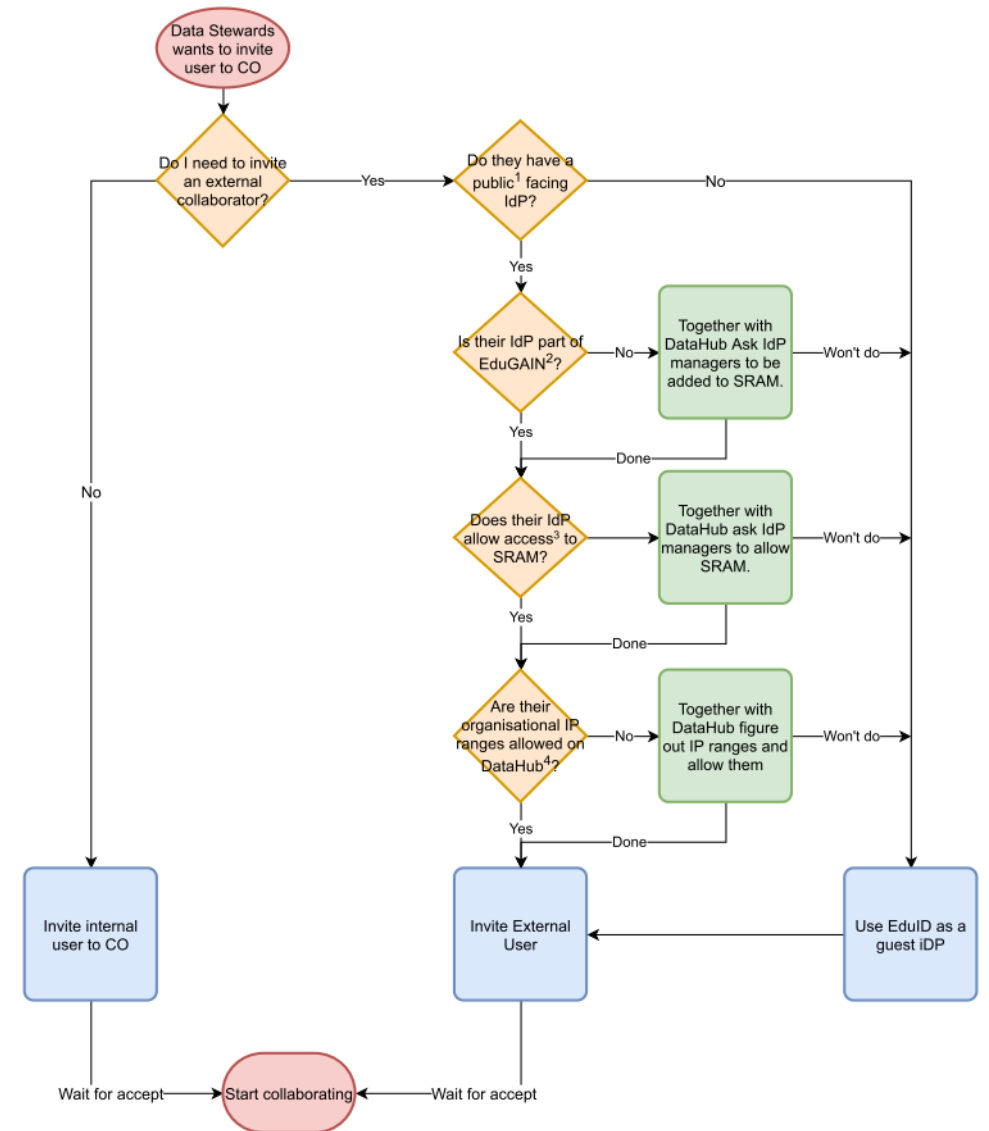
For internals (UM & azM) the signup flow is straightforward.

For externals, it becomes more complex.

Multiple requirements:

- ❑ Data sharing allowed (see slide 8)
- ❑ SRAM-compatible IdP
- ❑ Whitelisted IP-network-range(s)

see flowchart →

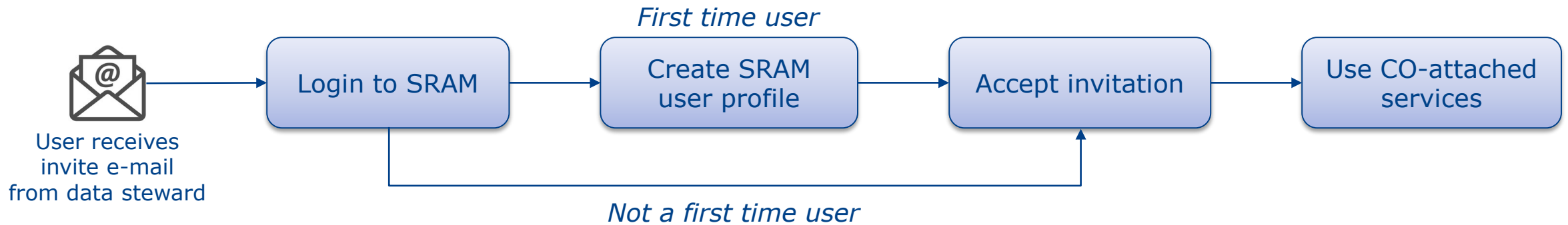


Footnotes

1. Ask the user if they can login remotely to services. If this their organisation is in the EduGAIN technical database (footnote 2), you can also answer this with yes.
2. Check the [EduGAIN technical database](https://technical.edugain.org/entities). Select Identity Providers, optionally enter a string and press show
3. Use the "Where are you from" page from SRAM, and try to use their IdP. If it show login page it most likely works.
4. Check [the list of currently allowed organisational IP ranges](https://portal.datahubmaastricht.nl/x/IgBPBQ).

SRAM signup process

The invite / signup process looks like this

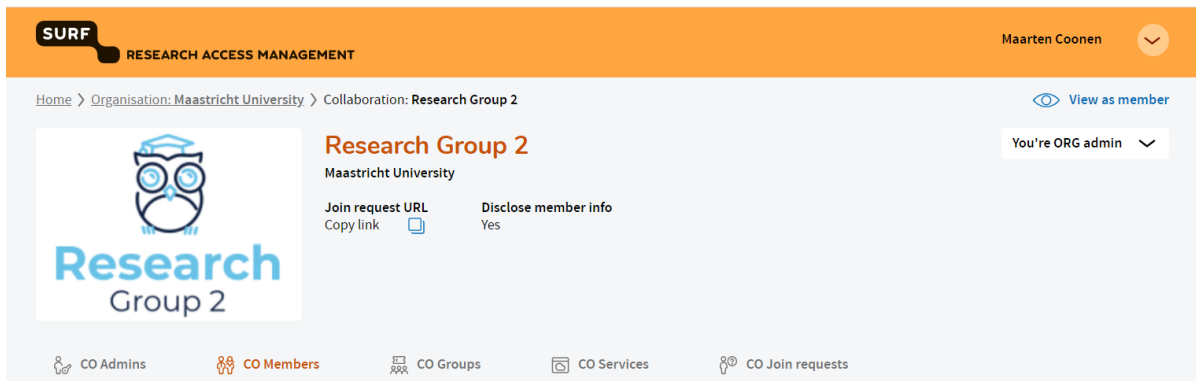


User manual is available here

<https://portal.datahubmaastricht.nl/display/IN/User+manual+Invite+and+signup+flow+SRAM>

New SRAM look and feel

- Wireframes were shown in Nov-2020 workshop.
- The new UX is now operational.

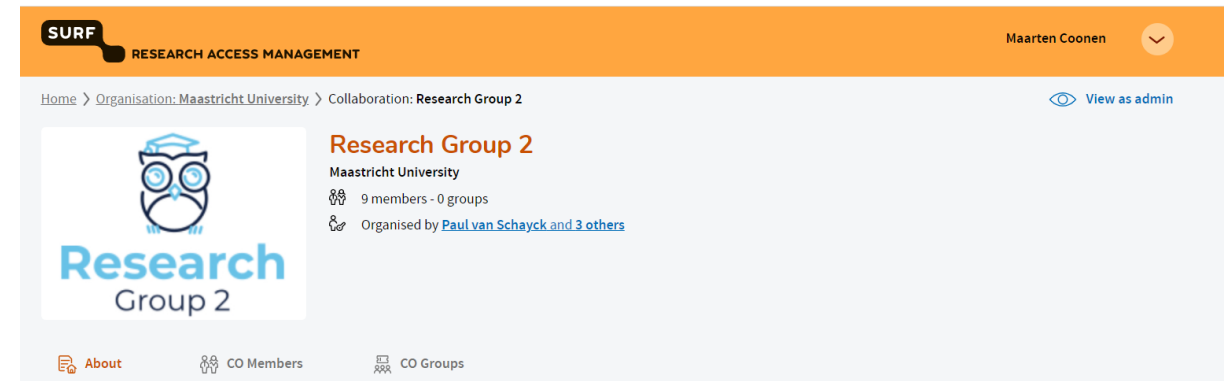


The screenshot shows the SRAM interface from the perspective of a CO admin. The header includes the SURF logo, 'RESEARCH ACCESS MANAGEMENT', and the user name 'Maarten Coonen'. The breadcrumb trail is 'Home > Organisation: Maastricht University > Collaboration: Research Group 2'. The main content area features the 'Research Group 2' logo and name, along with 'Maastricht University'. There are links for 'Join request URL' and 'Disclose member info'. A navigation bar at the bottom includes 'CO Admins', 'CO Members', 'CO Groups', 'CO Services', and 'CO Join requests'. The 'CO Members' tab is active, showing a list of 9 members.

CO Members (9) Hide invitees

<input type="checkbox"/>	Name / email	Institution	Role	Status
<input type="checkbox"/>	Paul van Schayck p.vanschayck@maastrichtuniversity.nl	unimaas.nl	CO Admin	Active
<input type="checkbox"/>	Dennie Hebels d.hebels@maastrichtuniversity.nl	maastrichtuniversity.nl	CO Admin	Active
<input type="checkbox"/>	Olav Palmen o.palmen@maastrichtuniversity.nl	maastrichtuniversity.nl	CO Member	
<input type="checkbox"/>	Kévin Knoops K.Knoops@maastrichtuniversity.nl	maastrichtuniversity.nl	CO Admin	Active
<input type="checkbox"/>	Marion Feijge marion.feijge@maastrichtuniversity.nl	maastrichtuniversity.nl	CO Member	
<input type="checkbox"/>	Alfons Schrotten a.schrotten@maastrichtuniversity.nl	maastrichtuniversity.nl	CO Member	
<input type="checkbox"/>	Mirjam Kamps	maastrichtuniversity.nl	CO Admin	Active

View as CO admin (= Data steward)

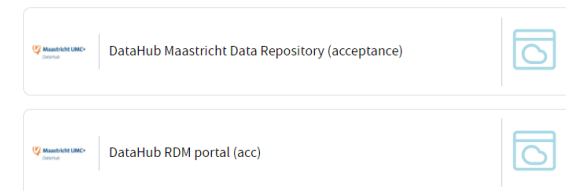


The screenshot shows the SRAM interface from the perspective of a CO member. The header is identical to the admin view. The breadcrumb trail is 'Home > Organisation: Maastricht University > Collaboration: Research Group 2'. The main content area features the 'Research Group 2' logo and name, along with 'Maastricht University'. It shows '9 members - 0 groups' and 'Organised by Paul van Schayck and 3 others'. A navigation bar at the bottom includes 'About', 'CO Members', and 'CO Groups'. The 'CO Members' tab is active, showing a list of 9 members.

What our CO is about

Where we collaborate (2 services)

Visit the Service by clicking on the cloud button - if present



The screenshot shows a list of collaborative services. Each service is represented by a card with a logo, the service name, and a cloud icon. The services listed are 'DataHub Maastricht Data Repository (acceptance)' and 'DataHub RDM portal (acc)'.

Members (9) [Show all details](#)

Paul van Schayck (admin)
Dennie Hebels (admin)
Kévin Knoops (admin)
Mirjam Kamps (admin)
Olav Palmen
Marion Feijge
Alfons Schrotten
Denise Jongen
Michiel Minten



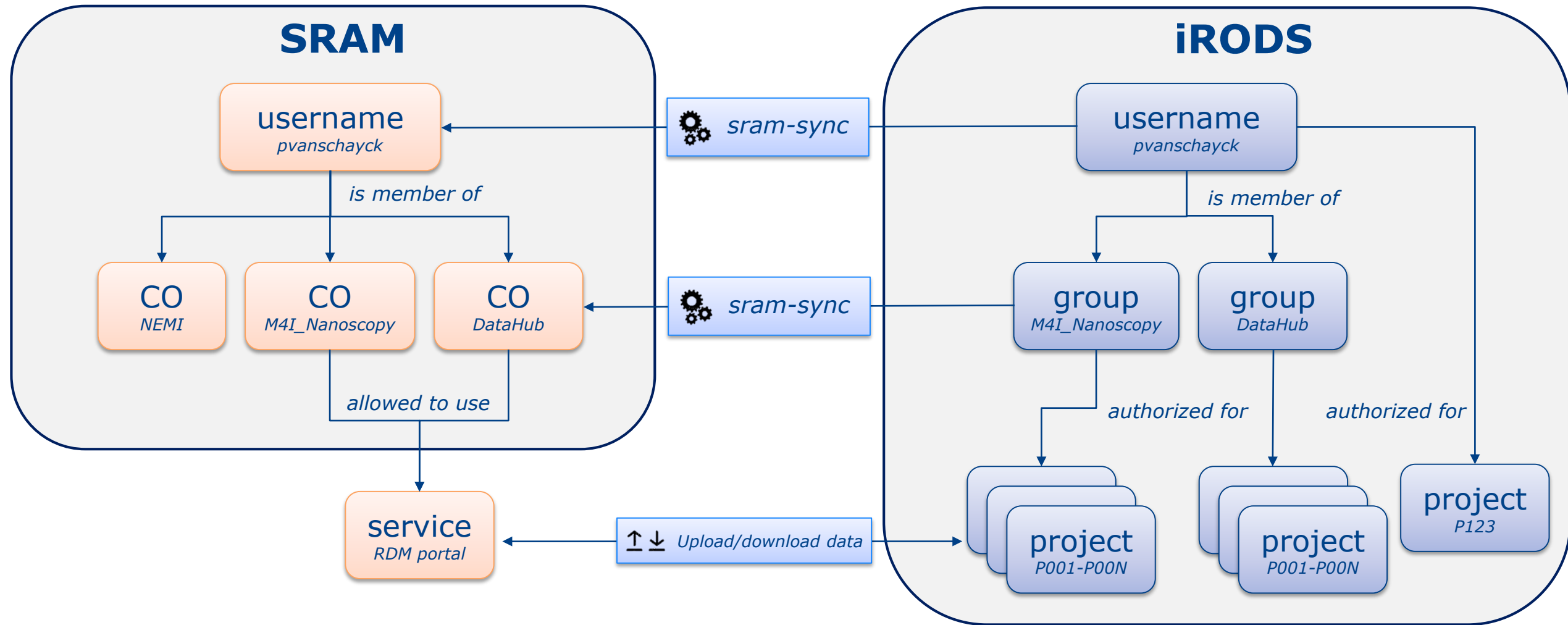
View as CO member (= normal user)

Practical 1: Invites and COs

Learning goals

- Learn the relation between COs and iRODS permissions
- Learn how to add/remove users to/from a CO

SRAM and iRODS mapping



Hands-on practical 1

1. We will invite one of you
2. Walk with you through invite and registration process
3. Invite another user to the CO
<https://sbs.sram.surf.nl/>
4. Let also that user accept the invite
5. View group page on RDM portal (acc)
https://rdm.acc.dh.unimaas.nl/pacman/access_management/groups
6. Wait a few minutes (max. 10)
7. Give new user or group special permissions to a project
<https://rdm.acc.dh.unimaas.nl/pacman/access/projects>

End of practical 1

Practical 2: CO-design

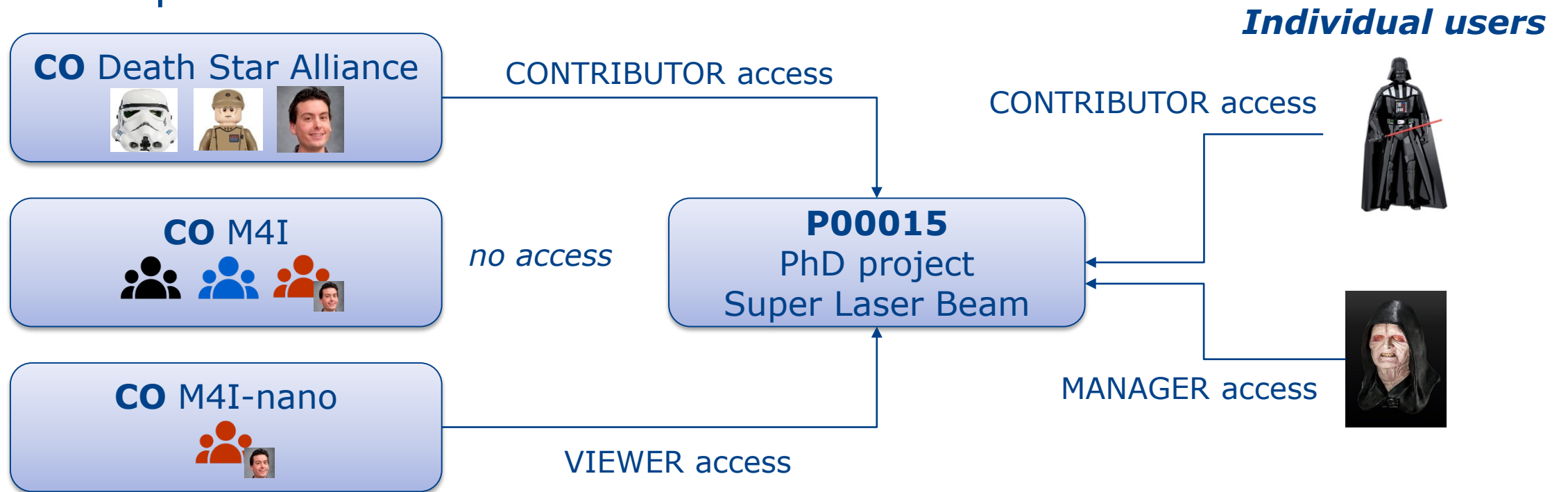
- Design your department's CO(s)
- Best-practices in organising your CO(s)

Roles in SRAM

	CO member Researchers	CO admin Data stewards	Org manager DataHub
View CO members	V	V	V
Access CO-services	V	V	V
Invite users to CO		V	V
Remove users from CO		V	V
Make someone else CO admin		V	V
Request new CO		V	V
Create CO			V

Scope of a CO

- CO is used for assigning permissions (authorisations) in iRODS.
- Take this into account during design.
- Example:



How many COs do I need?

It's a balance. Keep it manageable.

1 CO for all projects

- + easy maintenance by data steward
- impossible to differentiate in authorizations based on CO-membership



Each project different CO

- much maintenance work needed
- users have to accept multiple invites
- + perfect control over project authorizations using only COs

Information asked for a CO

About the collaboration

Name

Research Group 1

Short name ⓘ

researchgroup1

Join Request URL ⓘ

https://sbs.sram.surf.nl/registration?collaboration=42220d2e-5d91-415a-8348-076baefd74f7

Identifier ⓘ

42220d2e-5d91-415a-8348-076baefd74f7

Description

The description of the collaboration is visible to anyone

Website URL

The URL of the website is visible for members

Acceptable Use Policy

The URL of the CO-specific Acceptable Use Policy

Collaboration logo



Research
Group 1

Change image

Cannot be changed later →

Auto-generated →

Auto-generated →

Best-practices for a CO

- Scope not too broad, not too narrow
- Give it a meaningful description
- Use consistent naming for your COs
- Attach a logo for easier identification
- Make sure that a user is always member of at least 1 CO.
Users who are not in a CO will be deleted from iRODS, thereby losing their individual permissions as well.

Hands-on practical 2

Together with a DataHub tutor in a break-out room:

1. Have a look at your current projects, users and groups.
2. Create a list of future COs.
3. Think of which user goes in which CO(s).

Example

Name	Short name (max 16 chars)	Description	Logo	Will replace group
Precision Medicine	precisionmed	UM department of Precision Medicine	https://url.to.your/logo.png	UM-MAASTRO-DLAB
M4I	m4i	Maastricht MultiModal Molecular Imaging Institute (M4I)		n/a
M4I nanoscopy	m4i_nano	M4I division of Nanoscopy		UM-M4I-nanoscopy
M4I mass spec	m4i_ims	M4I division of Imaging Mass Spectrometry		UM-M4I-IMS

End of practical 2

What do we expect from you after this workshop?

- Finalize CO-design and send that to us **within 2 working days**
 - Find the balance in the amount of COs
 - Give each CO a meaningful description
 - Use consistent naming for a CO (short name and full name)
 - Provide image/logo for each CO
- Send an announcement e-mail to their users to create awareness and build up trust.
 - Example text on next slide
- Invite your users for 1 or more COs
 - You will receive an export of how your users are currently organized in groups.
- Motivate users to accept invite and monitor the progress

Announcement e-mail example

Access the full text at
<https://portal.datahubmaastricht.nl/x/mwBPBQ>

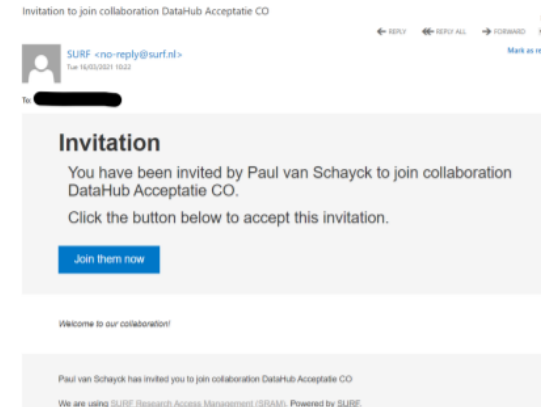
E-mail: SRAM announcement for researchers

Dear all,

The SURF Research Access Management (SRAM) release in DataHub is scheduled for mid April 2021.

SRAM is the new authentication and group management service developed by SURF. DataHub will connect to SRAM to let users login to their RDM portal.

This is the first email intended to help you during the transition to this new service. In preparation of this transition, very soon I will send you an email via SURF SRAM inviting you to join one or multiple collaboration(s).



As you can see on the screenshot above, the data steward's name (e.g. Paul van Schayck) will be mentioned in the email.

By clicking on "Join them now" for the first time, you will be presented with the sign-up flow. Please read this user manual or contact me if you need any help through this process:
<https://portal.datahubmaastricht.nl/display/IN/User+manual+Invite+and+signup+flow+SRAM>

Security notices

Please check that the "Join them now" link is starting with [https://sbs.sram.surf.nl/invitations/accept/...](https://sbs.sram.surf.nl/invitations/accept/)
As a general recommendation when entering your UM username and password, it is always good to check that you are on the page starting with <https://logi.n.maastrichtuniversity.nl/adfs...>

Why do I need to join this new collaboration?

By accepting to join this new collaboration, we can make sure that the access to all your existing projects, collections and data are still valid.

Why DataHub is now using SRAM ?




The main reason is to enable collaboration with external users (non-UM/MUMC+). With SRAM it will be easier, faster and safer to collaborate with researchers around the world.

Also, SRAM allows data stewards like me to control the collaboration memberships and manage permissions on data stored at DataHub.





For more information about SRAM, please visit this page: <https://surf.nl/sram>

Timeline




Nov-2020 – Mar 2021

-  First data steward workshop
-  Wait for new SRAM UX
-  Solve showstoppers in user signup process
- ...



Sprint 5
17 Mar – 7 Apr

-  Follow-up workshop on SRAM
-  Configure SRAM for DataHub production usage
-  Send announcement/ awareness e-mails
-  Design of COs
-  Create the COs in SRAM
-  Send SRAM invitations to researchers
-  Motivate researchers to accept the invitation.

Sprint 6
7 – 28 Apr

-  Switchover from SURFconext to SRAM.
-  Transfer authorizations from old users to new users.
-  Customer support and after-care.

Legend

-  Data stewards
-  DataHub

Homework

This week

- Finalize CO-design and send that to us
- Send the announcement e-mail to your users

Later this sprint

- Send SRAM mass invite(s) to your users
- Motivate users to accept invite and monitor the progress

Any questions or feedback?

