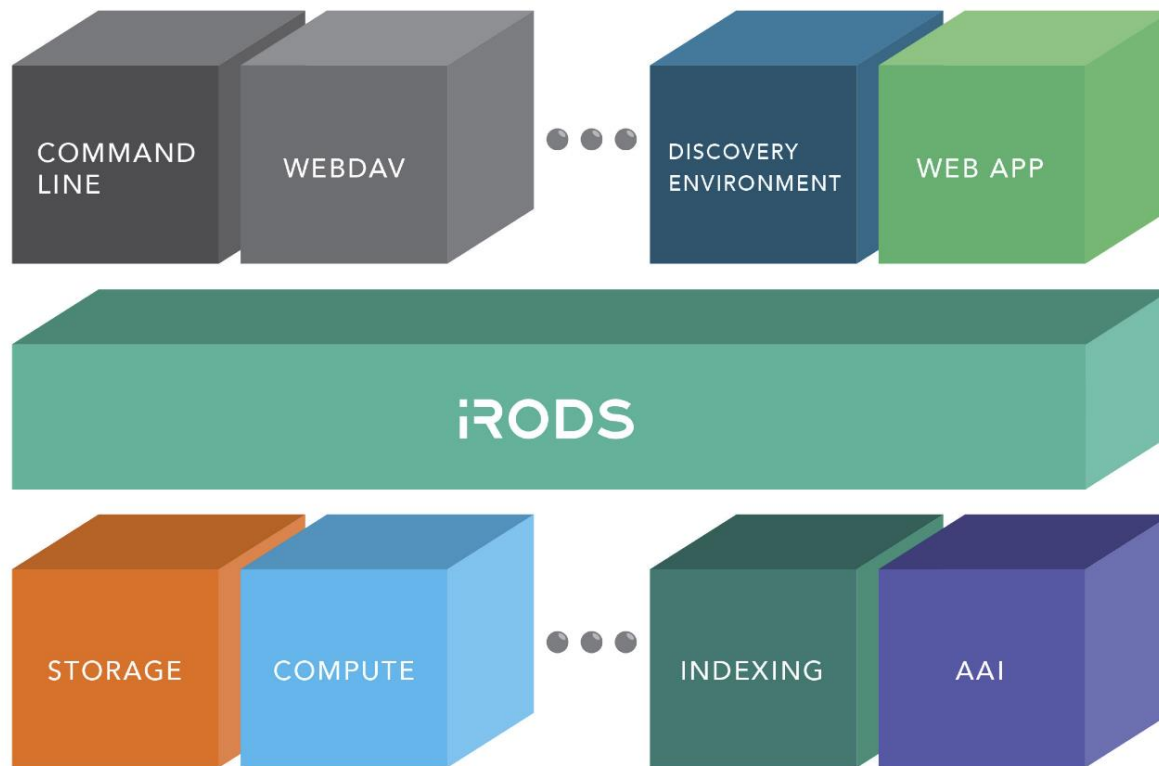


03. KU Leuven testbed



KU Leuven iRODS: the team



Management
Coordination



User Support
Policies
Documentation

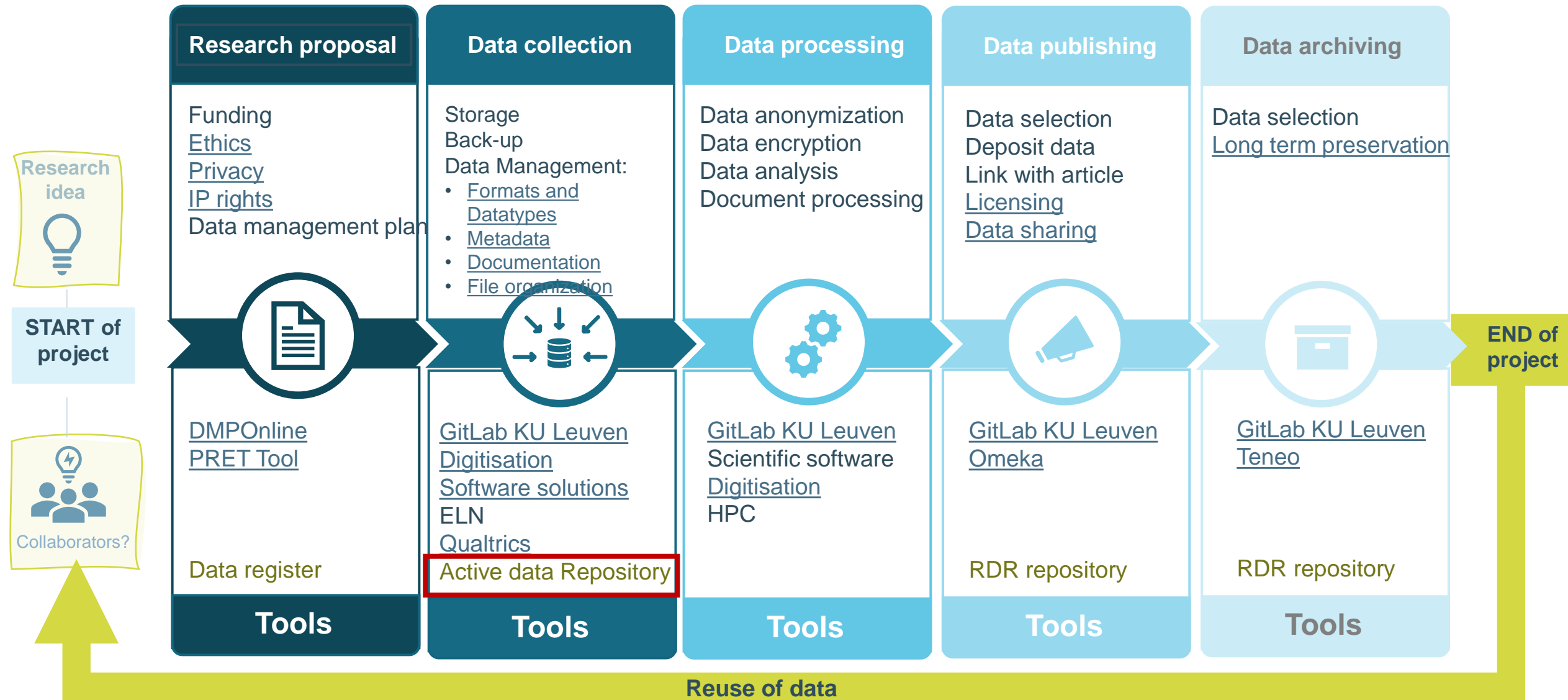


iRODS middleware



Storage

iRODS in de KU Leuven RDM Landscape



KU Leuven iRODS testbed: architecture

Users



Clients

KU Leuven Portal

metalnx



DAVRods



Cyberduck

iCommands

Python Client

iRODS

iRODS
Servers
HA



iCAT
Mysql
cluster



Rule
Engine

Metadata

Storage
Hardware



NetAPP (NFS)
Single copy
10TB

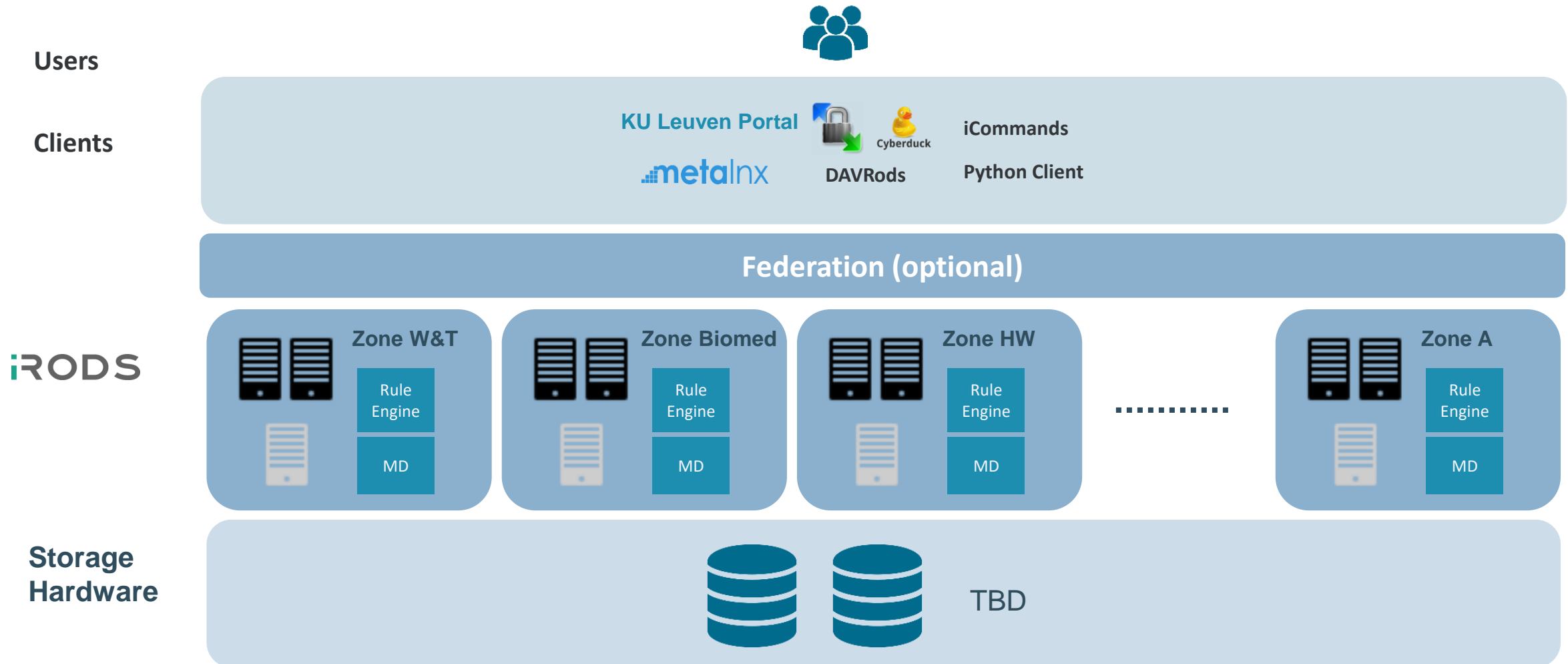
All infrastructure virtualized:

- iRODS servers
- Metalnx
- Other servers: webdav, ...

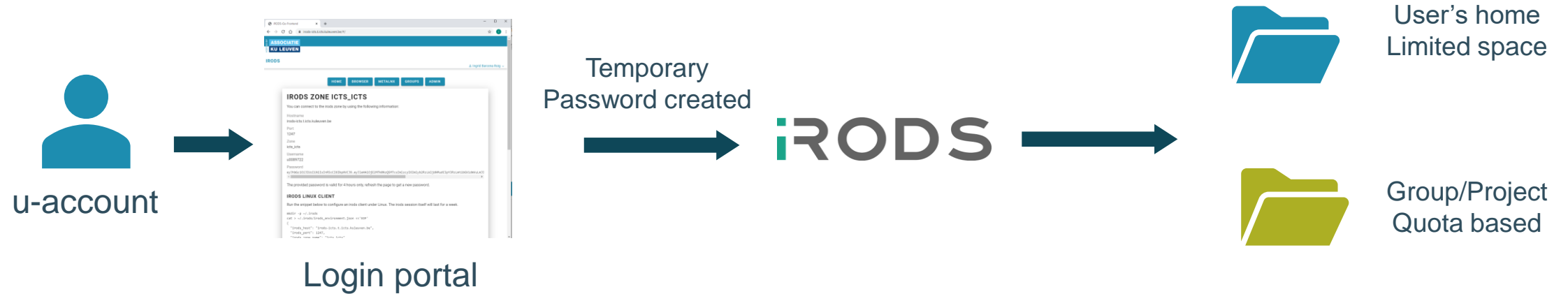
3 environments:

- Test
- Quality
- Production

KU Leuven iRODS: possible architecture



Authentication



User Roles

- iRODS user
 - Access to iRODS will be regulated as Facility
- Group administrator
 - Can create groups
 - Can join empty groups
 - Can edit members of groups they belong to
- Machine user
 - long lived tokens

Admin Roles

- Zone user administrator (local IT)
 - Can create groups and assign quotas
 - Can deploy zone rules
- Zone administrator (ICTS)
 - Can deploy system rules
 - Can make configurations changes

Login portal

iRODS-Go-Frontend

demo.irods.t.icts.kuleuven.be/#/

HOSTED BY ASSOCIATIE KU LEUVEN

IRODS

MENU

Your name

HOME BROWSER METALNX GROUPS ADMIN

IRODS ZONE ICTS_DEMO

You can connect to the irods zone by using the following information:

Hostname
demo.irods.t.icts.kuleuven.be

Port
1247

Zone
icts_demo

Username
Your username

Password
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJleHAiOjE2MzI4NTUxOTcsImIzcyI6ImRlbW8uaXJvZHMudC5pY3RzLmt1bGV1dmVul

The provided password is valid for 4 hours only, refresh the page to get a new password.

IRODS LINUX CLIENT

Run the snippet below to configure an irods client under Linux. The irods session itself will last for a week.

Hands-on

Connecting to the KU Leuven testbed



Connecting to iRODS

- Go to: <https://demo.irods.t.icts.kuleuven.be/>
- Authenticate using your u-account:
 - You will be sent to the KU Leuven login page
- You are in!

Login portal

The screenshot shows the iRODS-Go-Frontend web interface in a browser. The browser's address bar displays the URL `irods-icts.t.icts.kuleuven.be/#/browser`. The page header includes the text "HOSTED BY ASSOCIATIE KU LEUVEN" and the "IRODS" logo. A user profile for "Ingrid Barcena Roig" is visible in the top right corner. Below the header, there is a navigation bar with buttons for "HOME", "BROWSER", "METALNX" (highlighted with a red box), "GROUPS", and "ADMIN". The main content area shows a breadcrumb trail: "IRODS > HOME > U0089722". To the right of the breadcrumb, there is a toolbar with icons for "Up", "New Folder", and "New File" (highlighted with a red box). On the left side, a sidebar displays a tree view of the file system, including folders like "icts_icts", "home", "public", "u0089722" (selected), and "u0143175". The file "1M.dat" is listed under the "u0089722" folder and is highlighted with a red box. To the right of the file list, there is a "VIEW METADATA" button and a "Files" section. In the "Files" section, the file "1M.dat" is listed with its size "976.56 KB" (highlighted with a red box). To the right of the file list, there is a toolbar with icons for "Delete" and "Download" (highlighted with a red box). At the bottom of the page, there are filter icons and a "Filter" label.

Demo admin functions

- Admin tab
 - Users -> add, remove, make group admin
 - Administrators tab
 - Groups tab: add quota to group, remove
- Group tab
 - Join group
 - Click group: add/remove users, add machines

Hands-on

- Demo of the functionalities of the Login Portal
- Explore the demonstrated functionalities
 - Navigate to your home
 - Create a new folder
 - Upload a file
 - Download the file
 - Delete the file
 - Look at the metadata
 - Add a metadata attribute