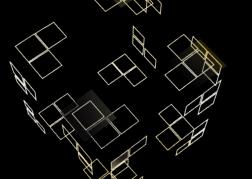


ICT Account manager / Product manager Ralph Mettinkhof



2-10-2023





# INTRODUCTION LISA





## INTRODUCTION LISA

- ICT Account Manager for faculty ITC
  - Second point of contact besides our Servicedesk for general ICT services
  - First point of contact for research ICT services
- Product Management Demand and Supply of several ICT-services



# **DOMAINS**





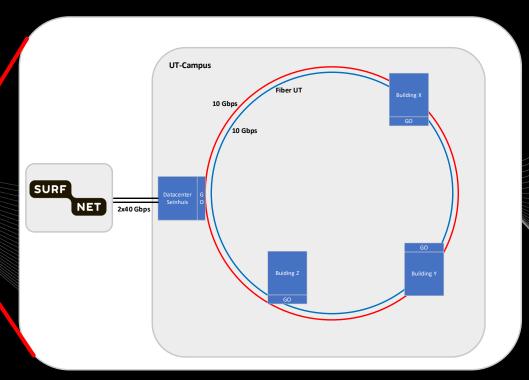






## **UT NETWORK**







## UT NETWORK - EDUROAM

- University of Twente first local WIFI networks in 2000
- Expanded to a campus wide WIFI with 650 accesspoints in 2003
- First tests of eduroam concept were conducted at University of Twente!
- The results of this concept have been used to build eduroam, which is now used worldwide (106 territories)
- Currently at UT-campus -> 2100 WIFI accesspoints in use with 15000 wireless clients.
- WIFI-data is used for research purposes





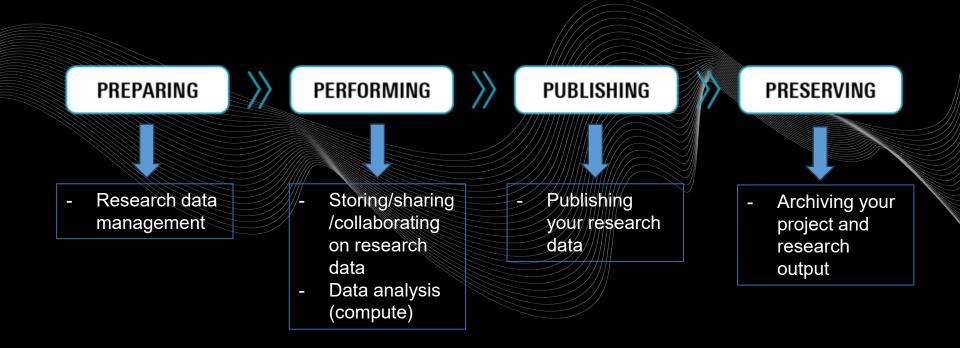
# **UT DATA CENTERS**





## ICT SUPPORT FOR RESEARCH

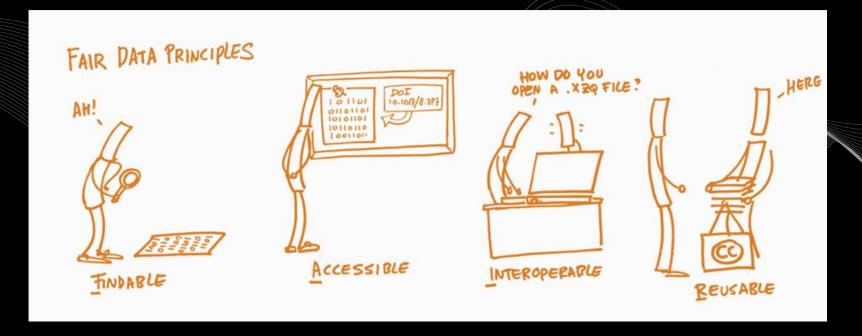
#### RESEARCH LIFE CYCLE





## ICT SUPPORT FOR RESEARCH - PREPARING

**RDM** 





# ICT SUPPORT FOR RESEARCH - PREPARING

- LISA Data Stewards
  - RDM bootcamp RDM guidance for PhDs on setting up a DMP-plan
- RDM tools
  - The UT DMP tool helps to create a Data Management Plan (DMP).
  - The UT DMP tool helps to do the GDPR registration at the UT.
  - The Ethics Review tool helps to do the Ethical review at the UT.
  - The Storage Decision tree helps to select the appropriate storage & sharing solution.
  - The Computing Decision tree helps to select the appropriate computing solution.
- Data Stewards
  - RDM bootcamp Review the DMP-plan





#### STORING/SHARING/COLLABORATING ON RESEARCH DATA

#### UT policy on storing research data during a research project:

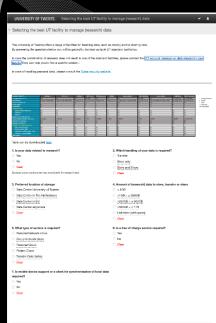
"All collected research data, including related materials (e.g. protocols, models or questionnaires), must be stored in the ISO 27001- and NEN 7510-certified facilities. Certified data facilities are offered by the UT-ICT services (LISA). If applicable, terms of use of data suppliers are leading."



#### STORING/SHARING/COLLABORATING ON RESEARCH DATA

Depending on the requirements for your research data, multiple solutions are possible for storing/sharing data and collaborating with your research partners.

The Storage Decision tree is created to help decided which data service is the best solution for a specific question.



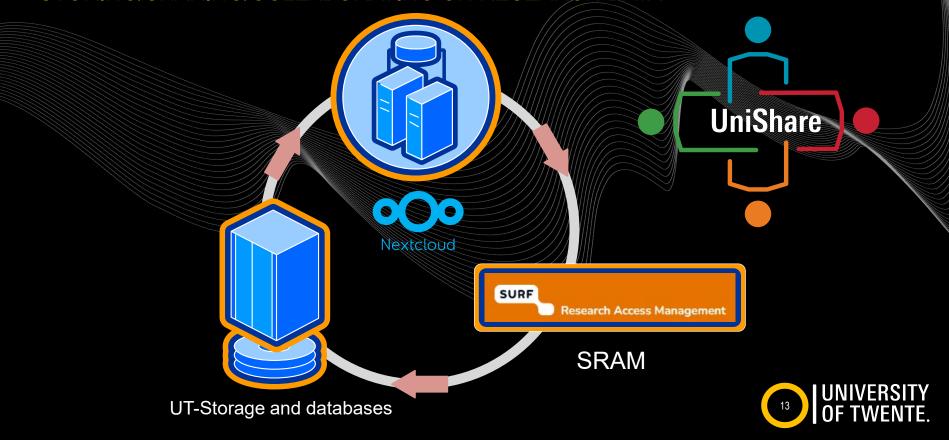
#### STORING/SHARING/COLLABORATING ON RESEARCH DATA

- Intuitive interface (just like SURFdrive & Dropbox)
- On-Premise storage (UT-datacenters)
- Selfservice (groups management)
- Share with research groups (also outside UT organization)
- Multiplatform support (Windows/Linux/MacOS/iOS/Android)
- Synchronization with Clients



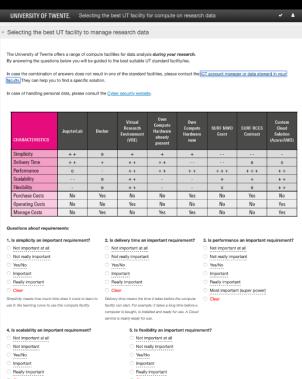


STORING/SHARING/COLLABORATING ON RESEARCH DATA

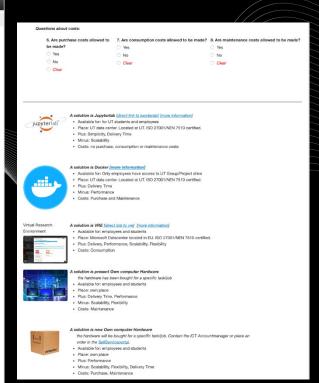


#### COMPUTE

example more performance or more storage is needed.



Flexibility means that possibility to change software, pieces of hardware or tools you are using



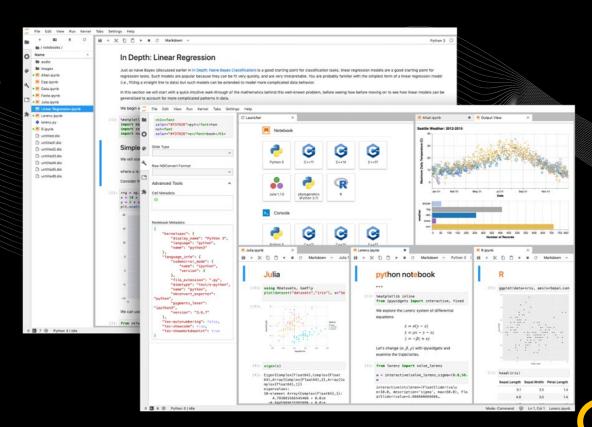


Contact the ICT Account manager of your faculty for more information.



#### COMPUTE

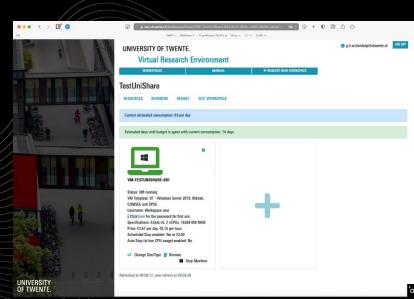
JupyterLab



#### COMPUTE

#### Virtual Research Environment (VRE):

- Fast Access
- Easy to use
- Flexible and scalable
  - from light to very heavy computing
- Efficient
- Collaborate
- Different templates (Windows and Linux) VM's
- Researchers can customize the machines by installing their own software





# Virtual Research Environment

Introduction



UNIVERSITY OF TWENTE

UNIVERSITY OF TWENTE.

- Buy your own compute server/cluster
  - Housing and maintenance in UT datacenter
  - Advice for setup/configuration
- High Performance Computing (HPC) at SURF-Sara





## ICT SUPPORT FOR RESEARCH – PUBLISHING

#### PUBLISHING YOUR RESEARCH DATA

Making essential research data FAIR and publicly available (as open as possible) when a research project is finished at a public data repository:





Register articles / publications / data sets in ris.utwente.nl (Pure)
Research Data Stewards offers guidance for researchers

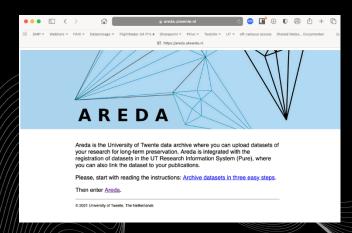


## ICT SUPPORT FOR RESEARCH - PRESERVING

#### ARCHIVING YOUR PROJECT AND RESEARCH OUTPUT

Preserve essential research data when a research project is finished at <a href="AREDA">AREDA</a> (Archive REsearch DAta).

AREDA is a long-term UT archive (closed) for preserving FAIR research data.



Pure is used to add metadata & data documentation to the preserved research data.



## RESEARCH SUPPORT WEBSITE:

For more information regarding research support visit:

https://www.utwente.nl/en/lisa/researchsupport/





