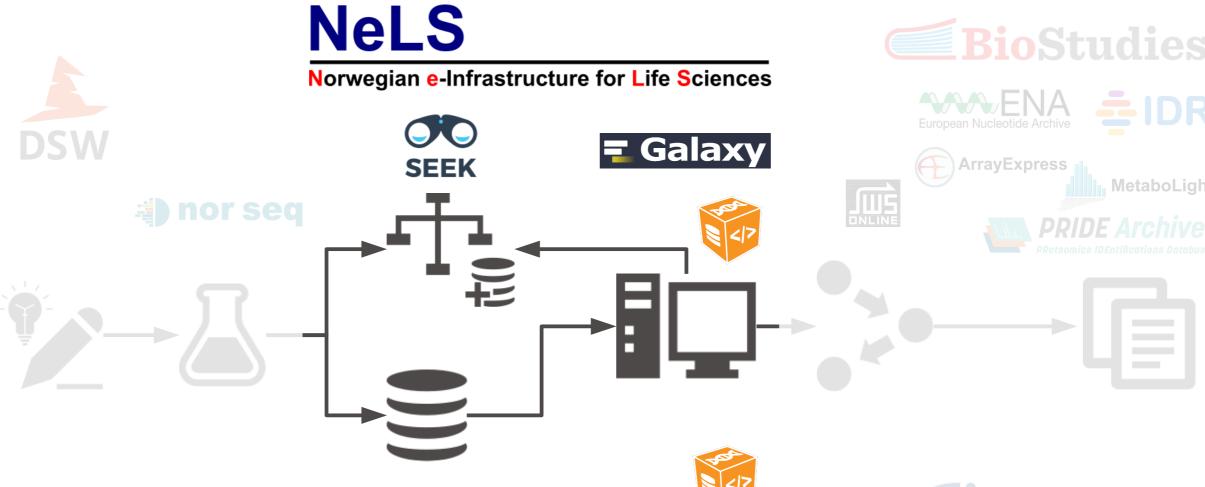


## **Data Storage Platforms**



Korbinian Bösl Data manager ELIXIR Norway 4 March 2020















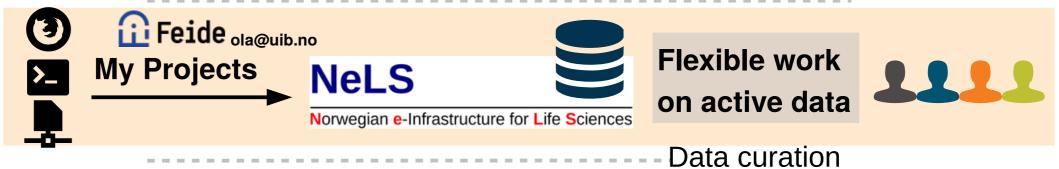




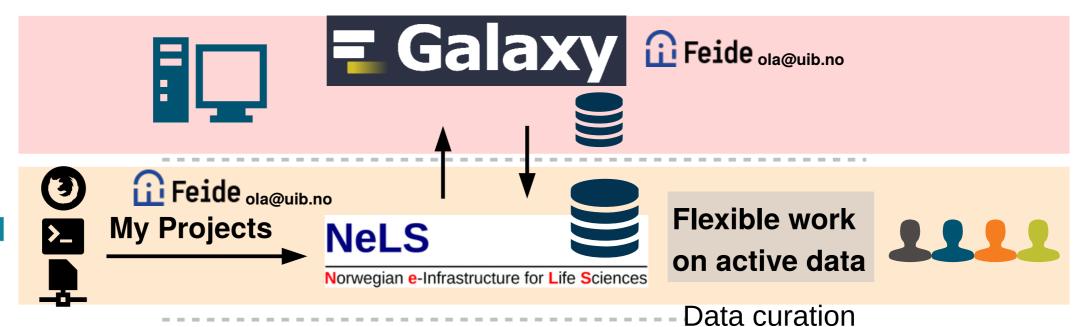


Data curation



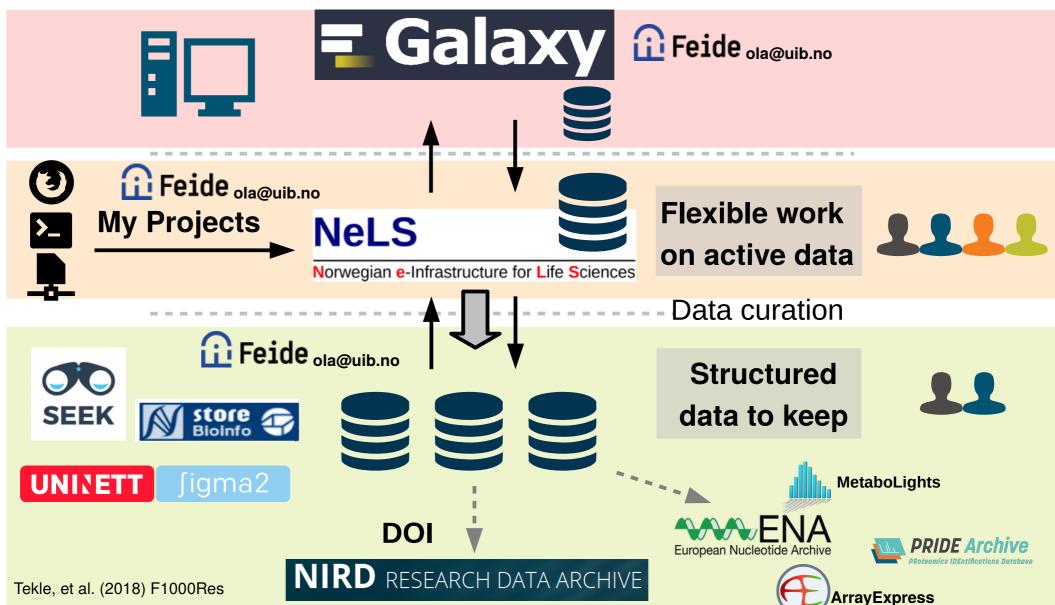


Tekle, et al. (2018) F1000Res github.com/elixir-no-nels/nels-core



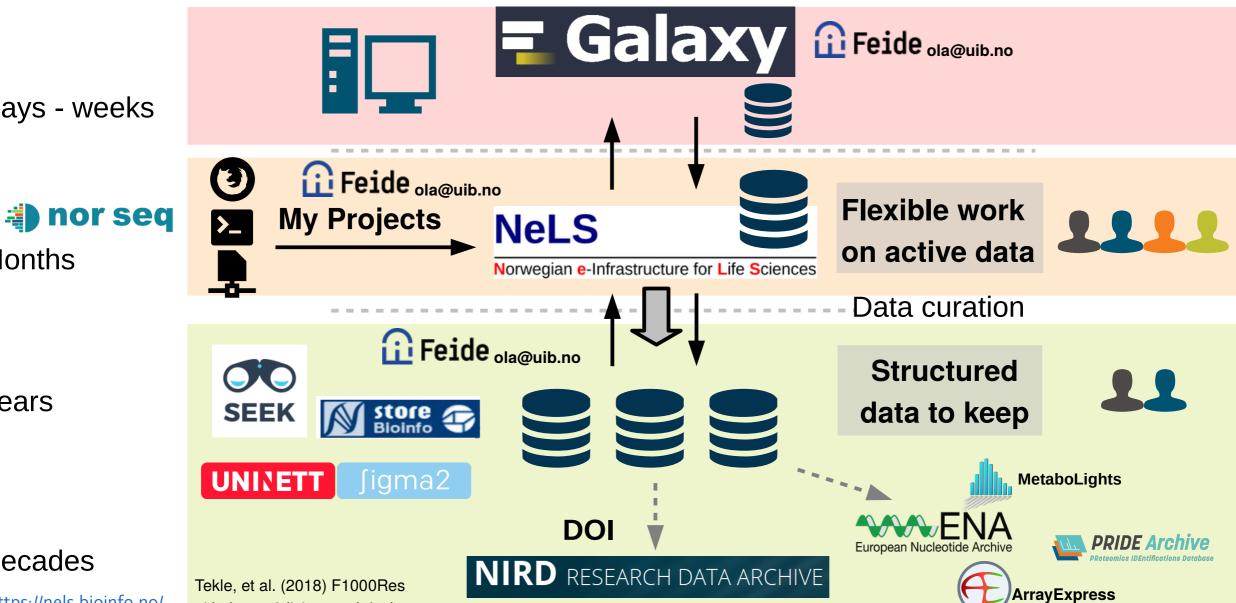


Tekle, et al. (2018) F1000Res github.com/elixir-no-nels/nels-core



https://nels.bioinfo.no/
github.com/elixir-no-nels/nels-core

nor seq



Decades

**Months** 

Years

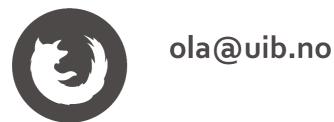
Days - weeks

https://nels.bioinfo.no/ github.com/elixir-no-nels/nels-core

## **NeLS - Accessibility**

small datasets





## **NeLS - Accessibility**

small datasets





larger datasets



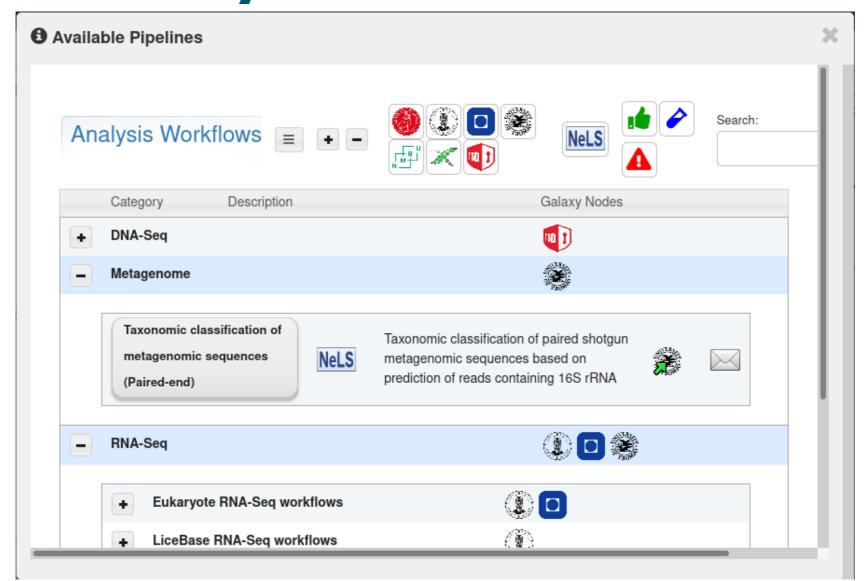






**sFTP** 

## Data Analysis in NeLS = Galaxy



# NeLS - Getting Access

#### NeLS

Norwegian e-Infrastructure for Life Sciences

Typically > 1TB data

Free for regular sized projects

Allocation through Helpdesk: contact@bioinfo.no

Direct upload through Norseq facilities







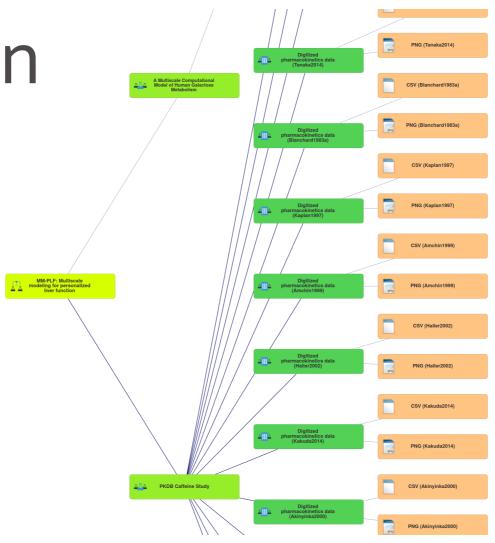
https://seek4science.org/ https://fairdomhub.org/



Investigation

Study

Assay

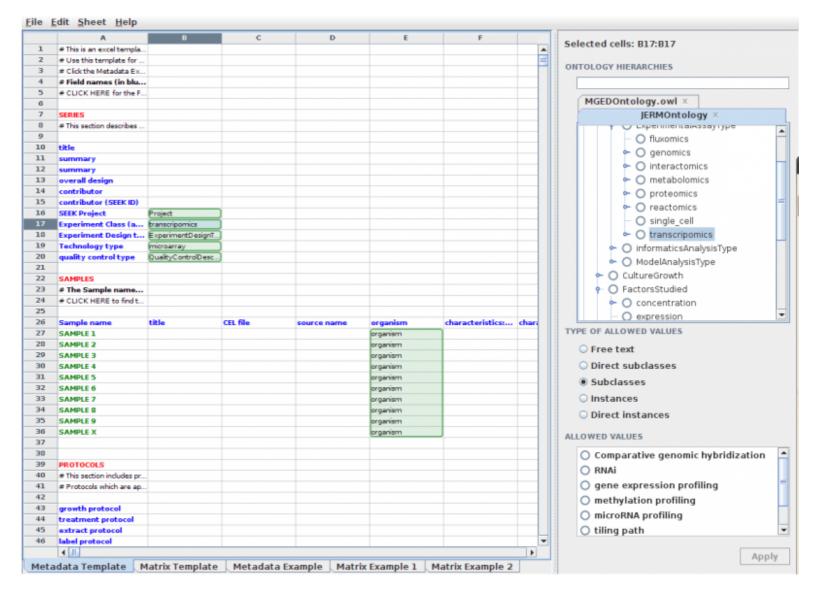


https://seek4science.org/ https://fairdomhub.org/



## RightField 1/2 >











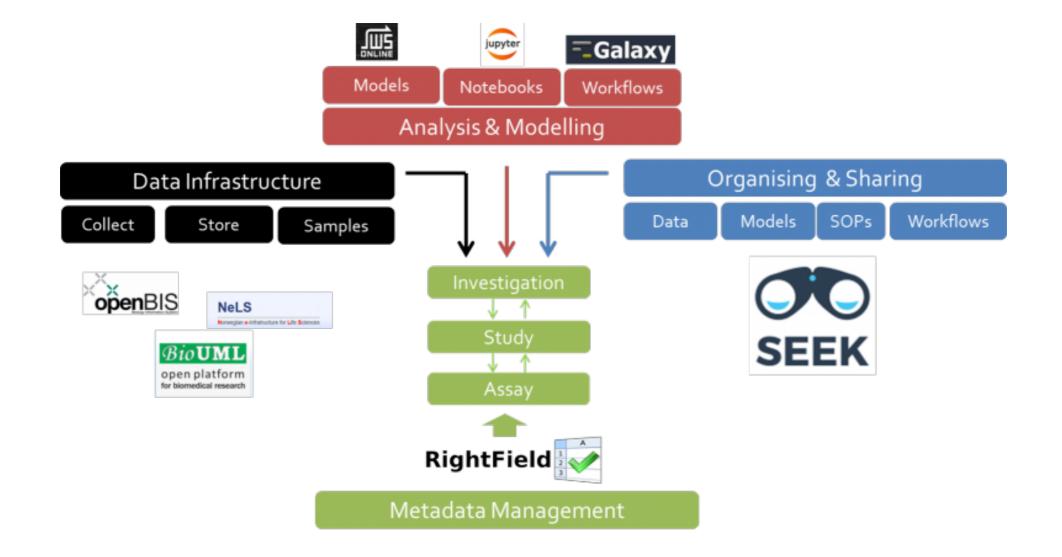
Reference data in NeLS in SEEK



**Access data in NeLS through SEEK** 



Save Metadata to SEEK through NeLS





## BILLY – Tape Backup

- <u>+</u>
- Storage on tape min 4MB/file 3 copies
- Geo-replication
- [0]

1 TB 250NOK/yr in 50TB chunks → bs.uib.no





Maximum classification

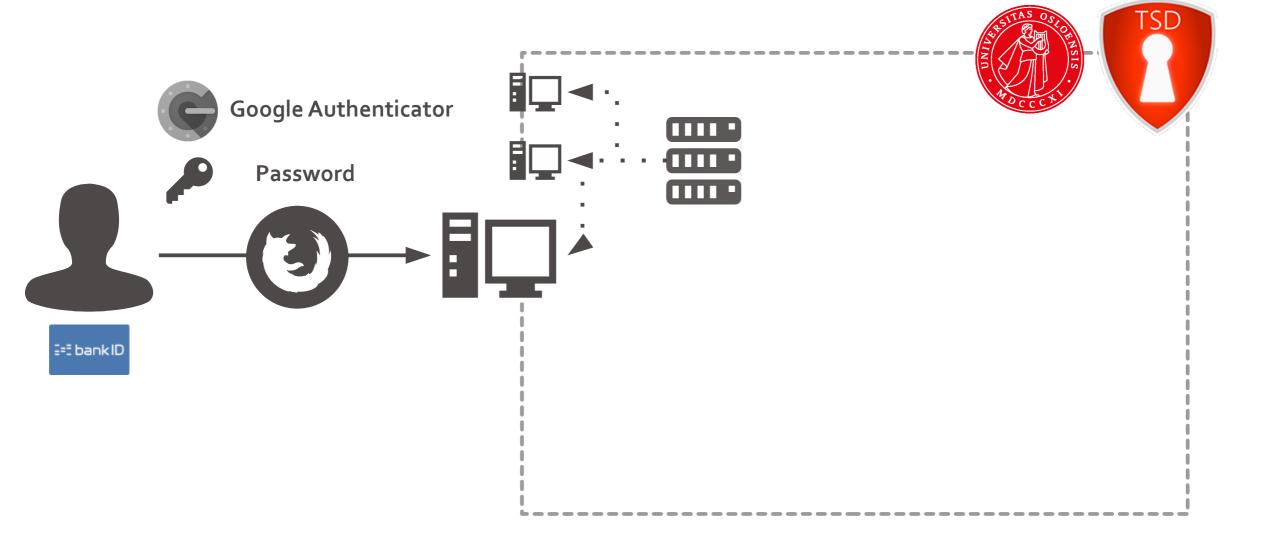
2-factor authentication

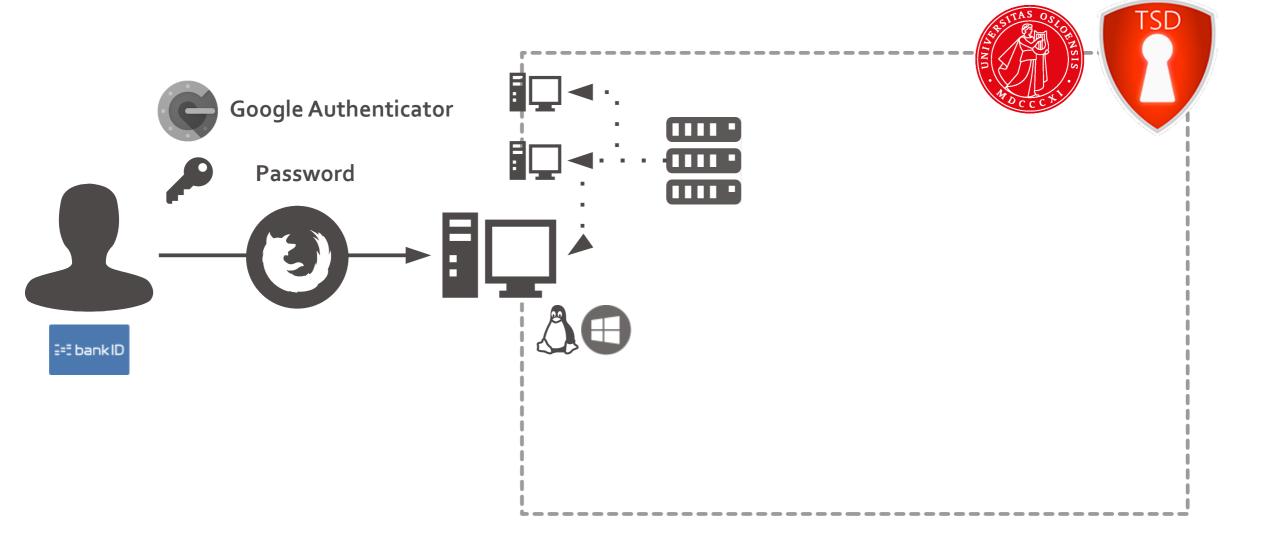
**Attached HPC resources** 

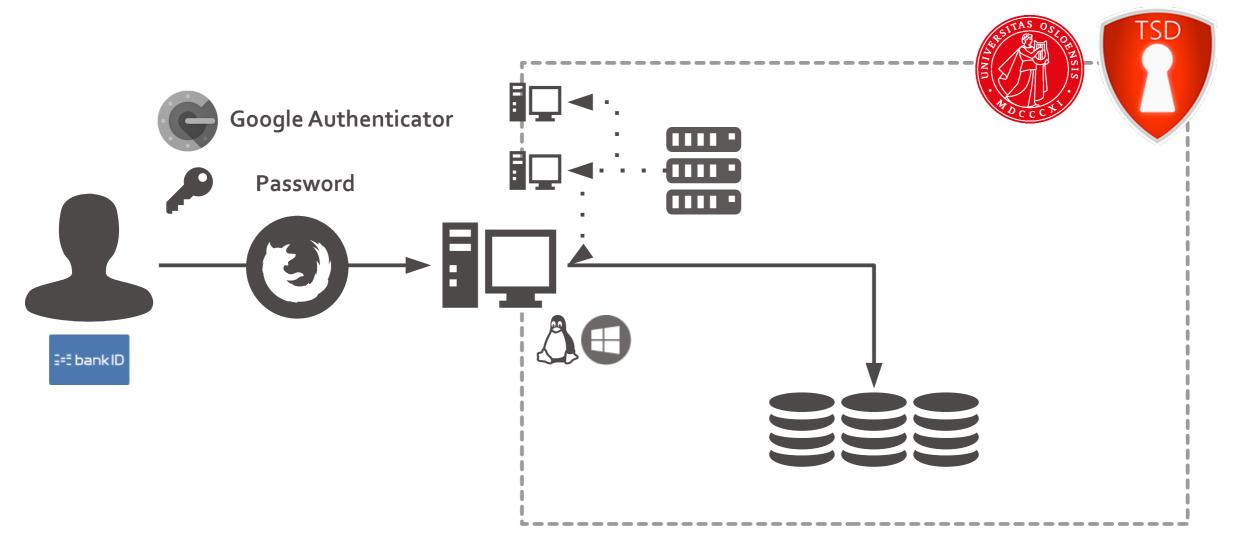


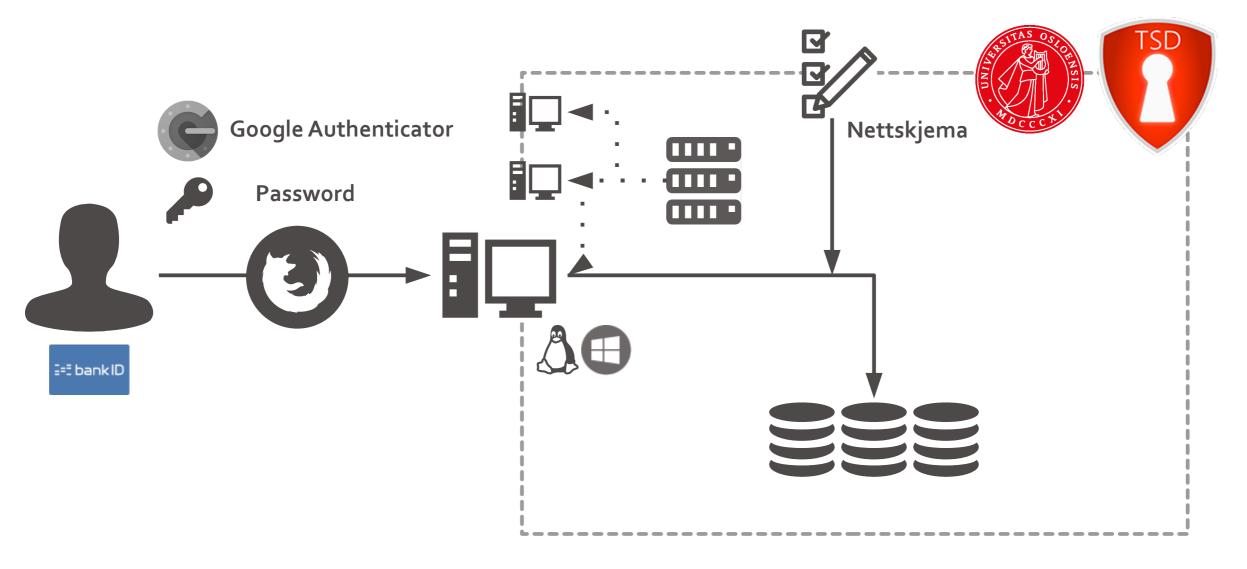


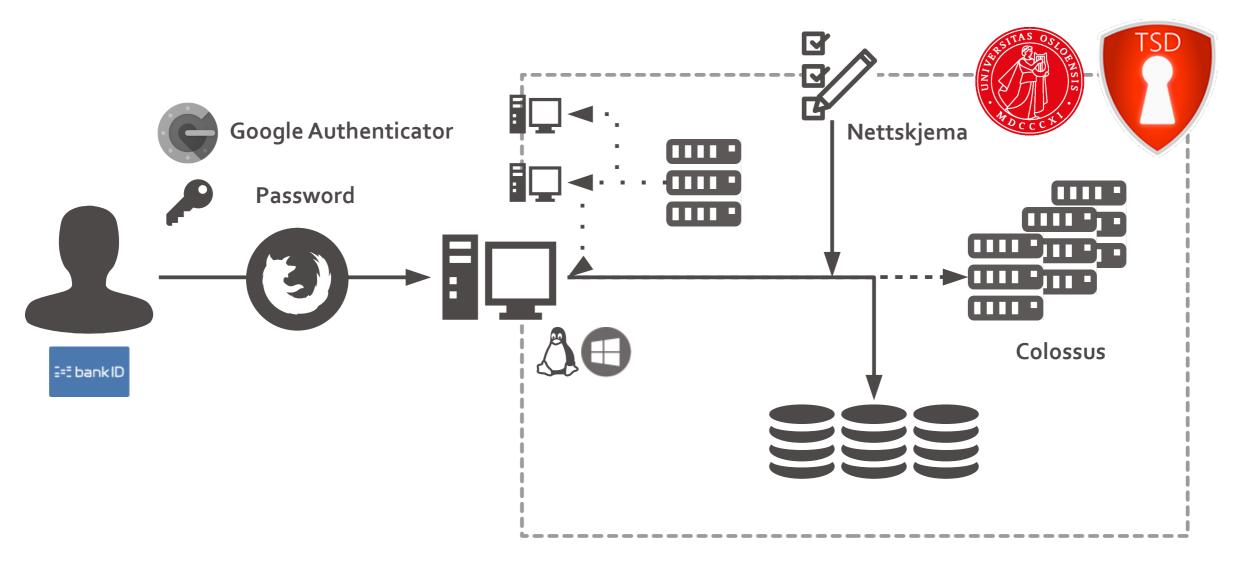












## TSD – Getting Access





Subsidized access through Sigma2 calls

User contribution model (non UiO: min 15kNOK/a)

Free storage quotas through NeLS