

Project Proposal

ArCare

A secure, robust and automated research platform
for proteomics labs

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State of the Art

1- Heterogeneous Data

- Many vendor specific sources.
- Plenty of different file formats.
- Vendor vs. Open formats
- Many Analytic processes.



2- Big Data

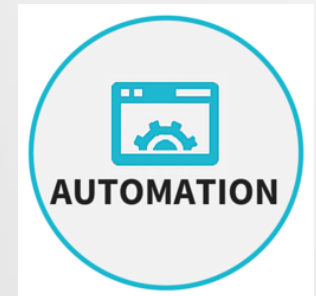
- EBI reaches to 20 Petabytes
- Network overload
- Resource management



State of the Art

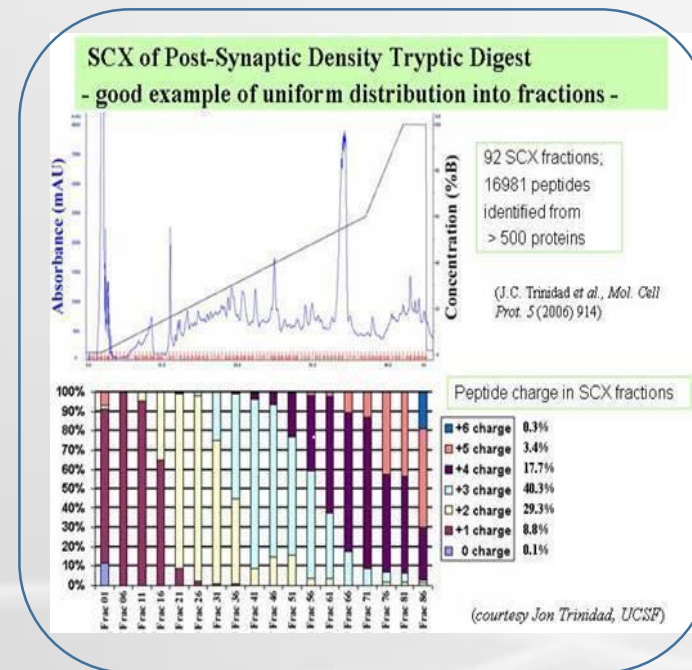
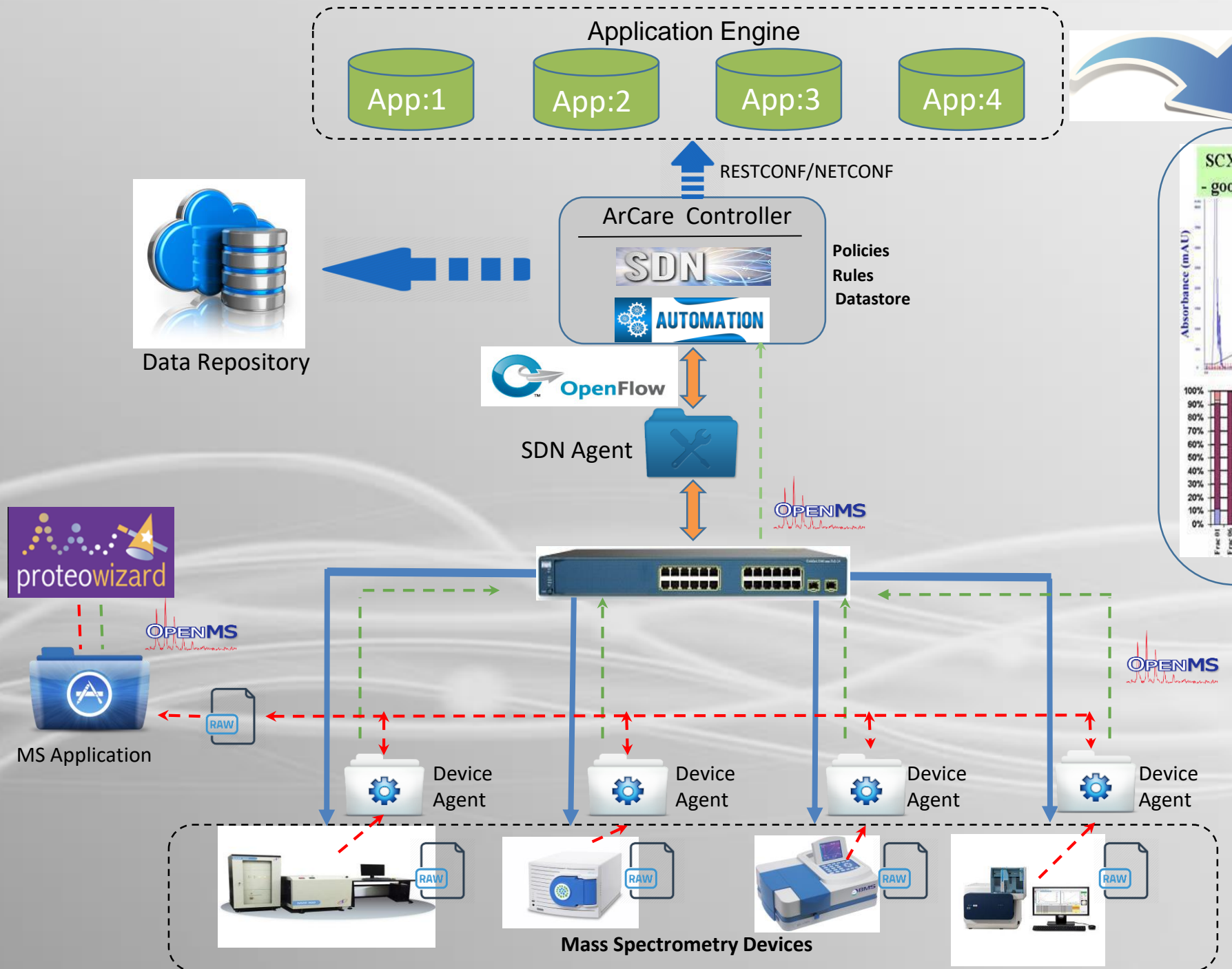
3 – Lack of automation and reproducibility

- Plenty of manual Tasks , ex. file conversion , analytical process.
- Manual task is prone to error.
- Different policies (SOPs, privacy issues) for different working group.

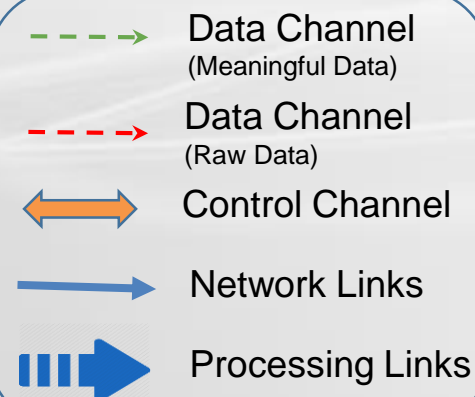


4- Lack of centralized data repository

- due to non centralized solution.



ArCare Dashboard



Comments and Highlights

1- Data Identification

- Personal or clinical ?

2- Trustworthy Data adaptors

- How reliable for each use case.



Thank you !

Any Question or comments...



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