

In a typical year...



1200
experiments

by



3000
users

from



30
countries

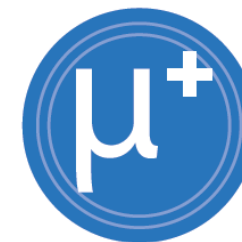
generating



600
publications

Challenges

- inconveniently big data: up to 100s GB per day per experiment
- interactive workflows
- specialist software
- fast, for on-the-fly experiment steering
- large CPU/RAM/GPU requirements



5 Muon
instruments



Neutron
instruments



Some publications will be included in more than one subject area.

ISIS Data Analysis as a Service (IDAaaS) – time-line

- 2018-2019
 - first prototype created for single science group
 - ~50 unique users
- 2020 – “IDAaaS to the rescue”
 - rolled out to all science groups for first cycle after beginning of Covid
- 2021-2022
 - improving software portfolio, monitoring, scalability
 - ~500 unique users
- 2023-2024
 - new interface, platform for training courses
- 2025
 - **business-critical** to majority of scientists/users
 - used for training courses
 - ~900 unique users
 - ~200 virtual machines, 8k~10k CPUs, 35TB~45TB RAM, 50~60 GPUs
 - IRIS to the rescue