

## User and Data Journey, Fair Data and Data Curation

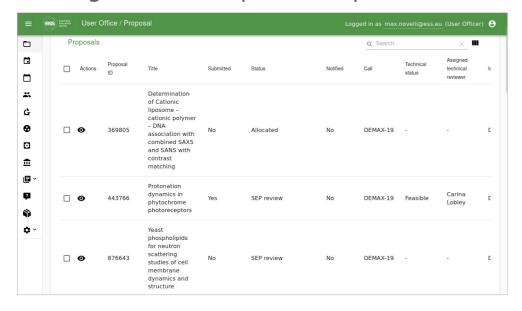
Let's talk about data

SWAP team (Scientific Web Applications)

PRESENTED BY MASSIMILIANO NOVELLI, DATA CURATION SCIENTIST

# SWAP Software User Office

Onboarding user with their visit at ESS and manage all the required steps

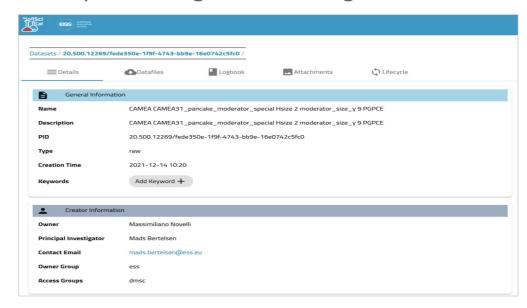


#### Technologies:

- React, Angular
- TypeScript, Python
- Node
- PostGreSQL, MongoDB

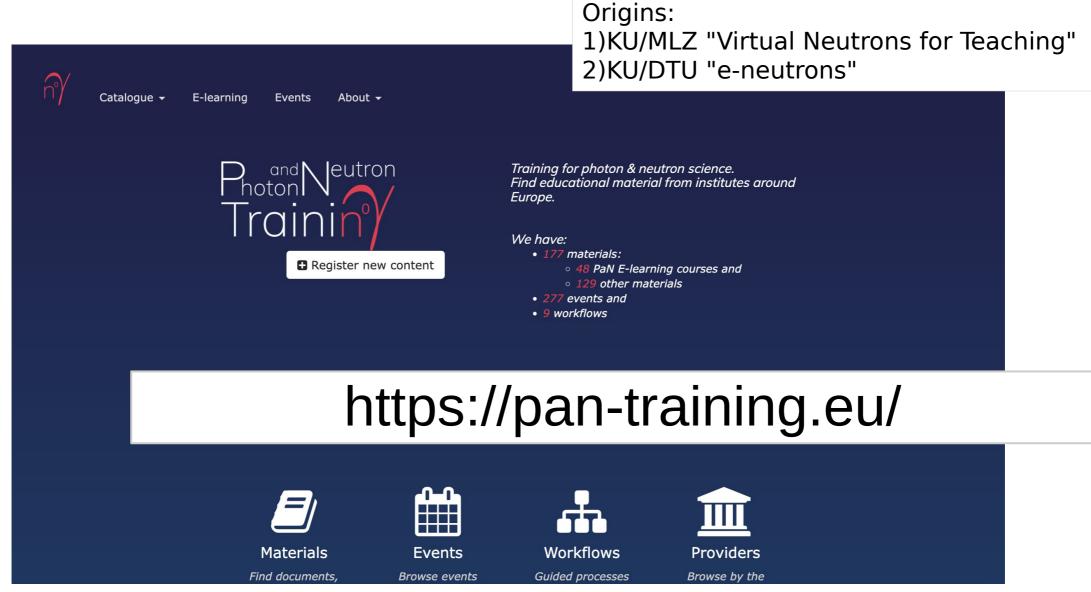
#### SciCat

Scientific data management and access. Data publishing and sharing.



- RabbitMQ, Kafka
- Docker, Kubernetes
- Git
- CI/CD

## E-learning - pan-training.eu

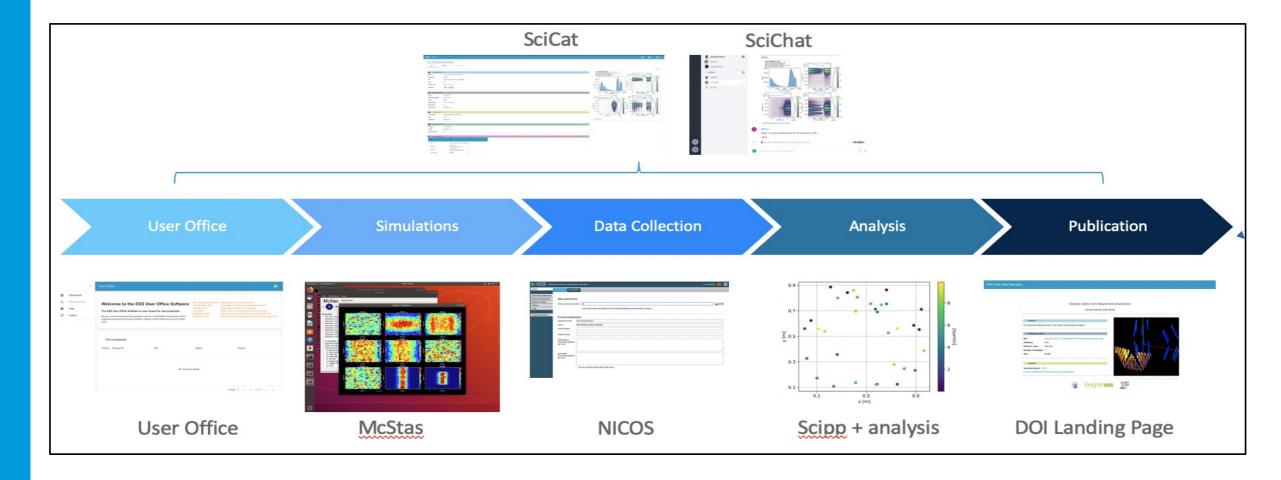


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### User Journey



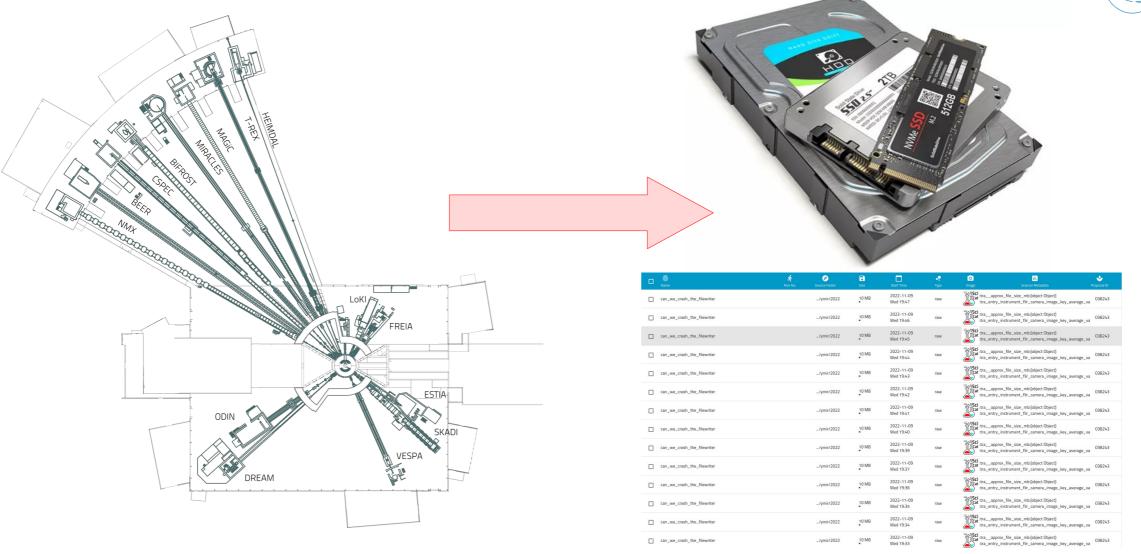
#### Which systems the users interact with at ESS



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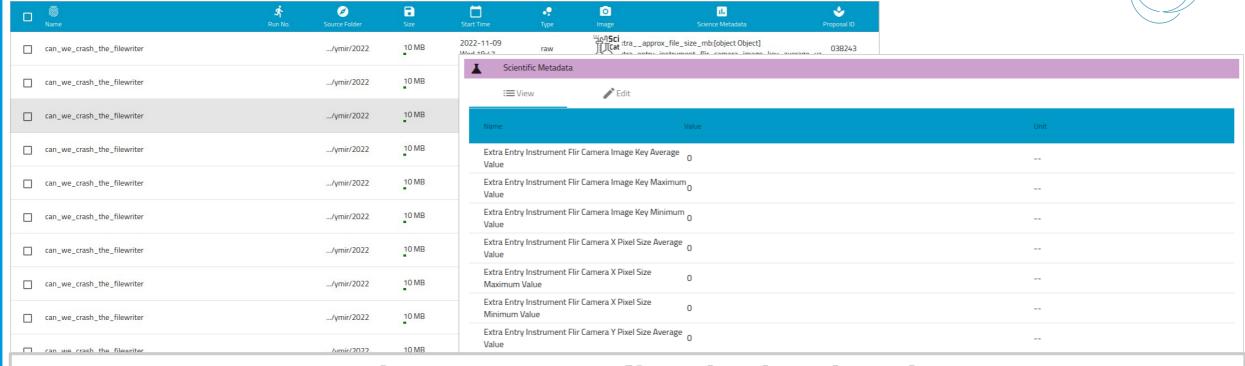
## Data Journey: Experiment





### Data Journey: Curation





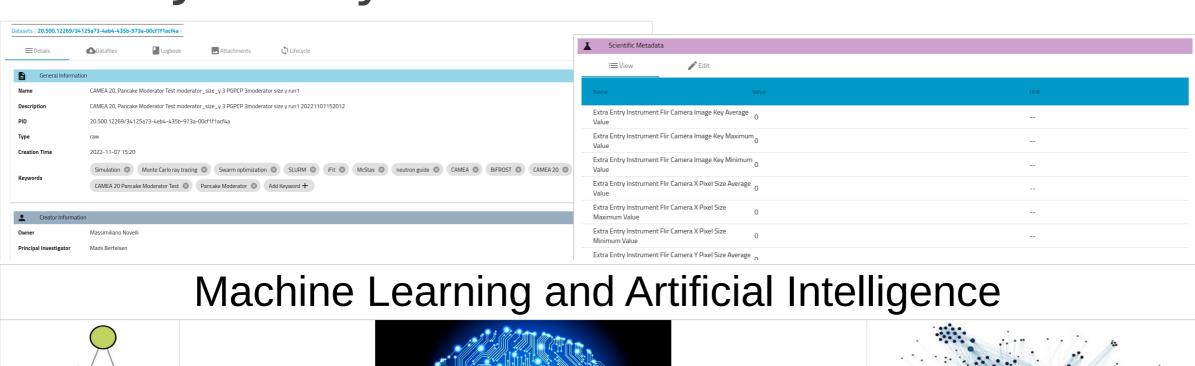
#### How do users find their data?

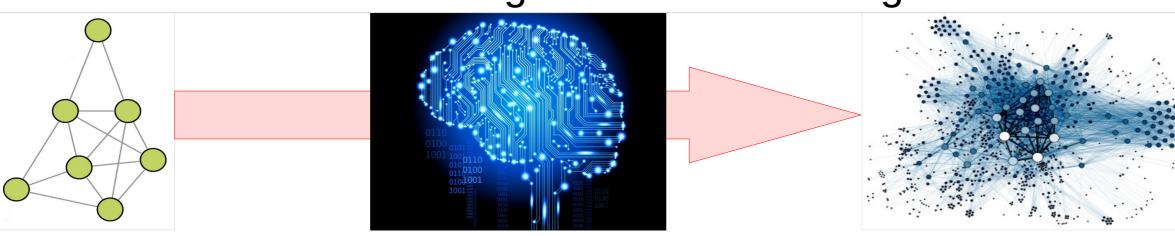
Thousands Datasets, Hundreds of metadata and files

## Data Journey: Search, Analyse, Publish

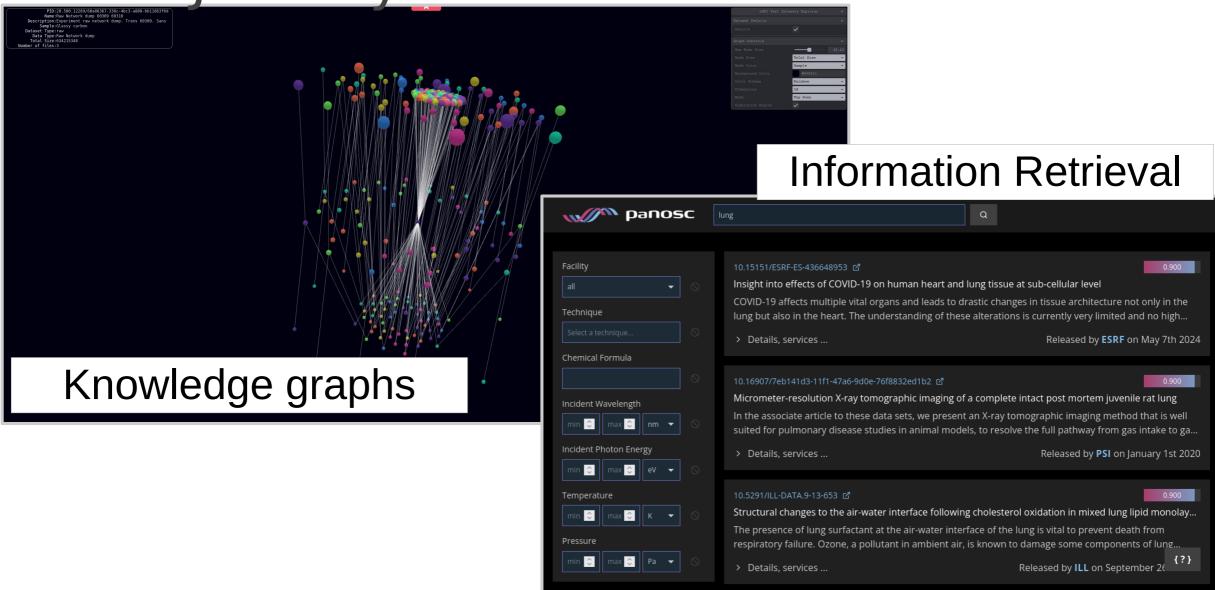


### Data Journey: Enrich and Enhance





Data Journey: Use and Dissemination



#### Potential Projects

#### Creating/curating/using a set of diverse data



#### Software developing

Data capturing Capture relevant metadata and do so automatically.

Validation Validate dataset metadata.

Curation Improve metadata and migrate to homogeneous metadata

Improve data F.A.I.R.ness.

Visualization Aid users in searching and evaluating their dataset.

Aid instrument scientists evaluating and improving their instrument.

Aid management improving data curation and FAIRness.

Knowledge graphs and discovery tools

ML/Al Make dataset and metadata machine readable.

Leverage ML/AI to enhance metadata and/or data.

Search Find data by leveraging Information Retrieval.

Find and disseminate Open Data.

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## Thank you

Questions?

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