OSCARS
Open Science Clusters' Action for Research & Society

Funded Project

PaN-Finder

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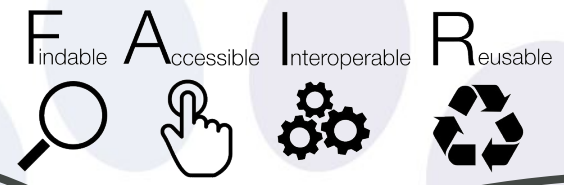
Implemented by

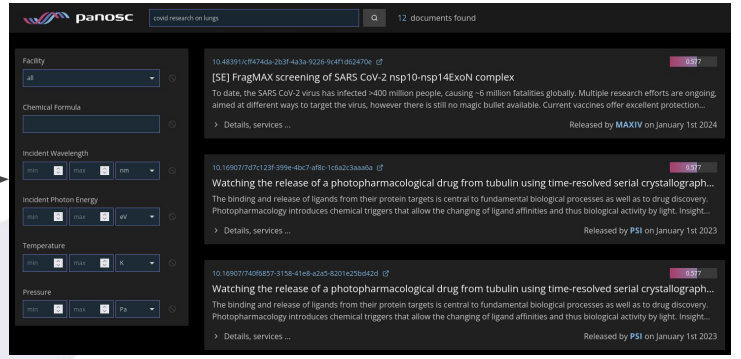
ess EUROPEAN SPALLATION SOURCE

Funded by the European Union

CHALLENGE ADDRESSED

What problem(s) are you going to solve?





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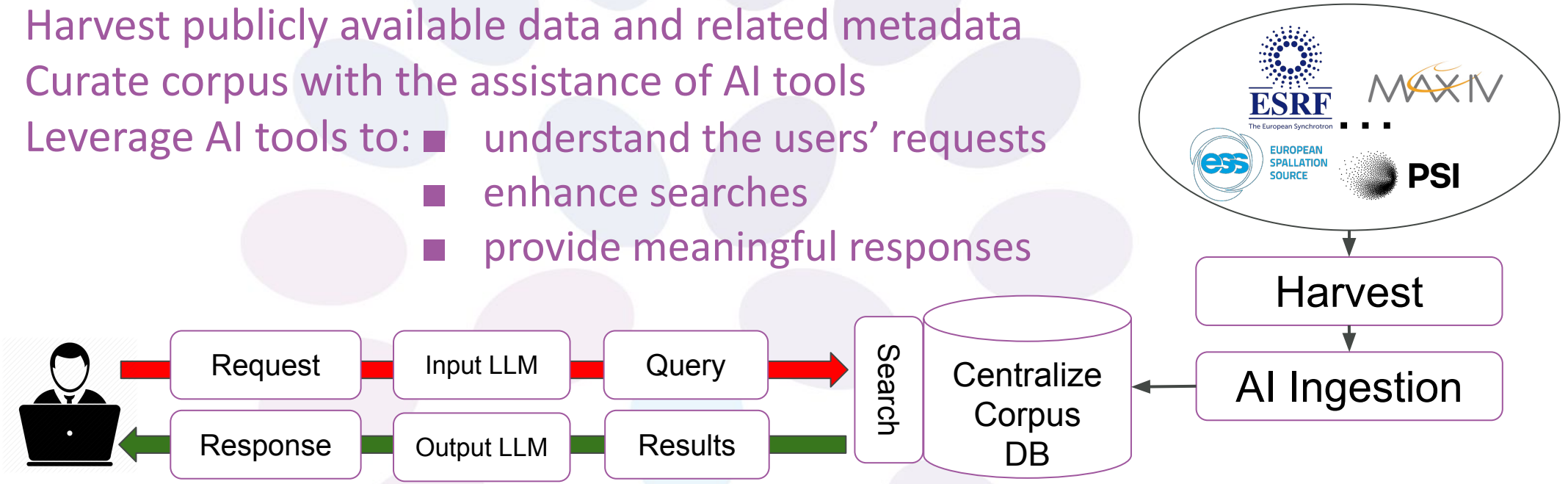
Significantly increase ***findability*** and ***reusability*** of open data available in the federated Photon and Neutron data catalogue

Overcoming the limitations of legacy experimental data heterogeneously curated

What are you planning to do to solve the problem?

- Develop an AI assisted prompt based search system

- Harvest publicly available data and related metadata
- Curate corpus with the assistance of AI tools
- Leverage AI tools to:
  - understand the users' requests
  - enhance searches
  - provide meaningful responses



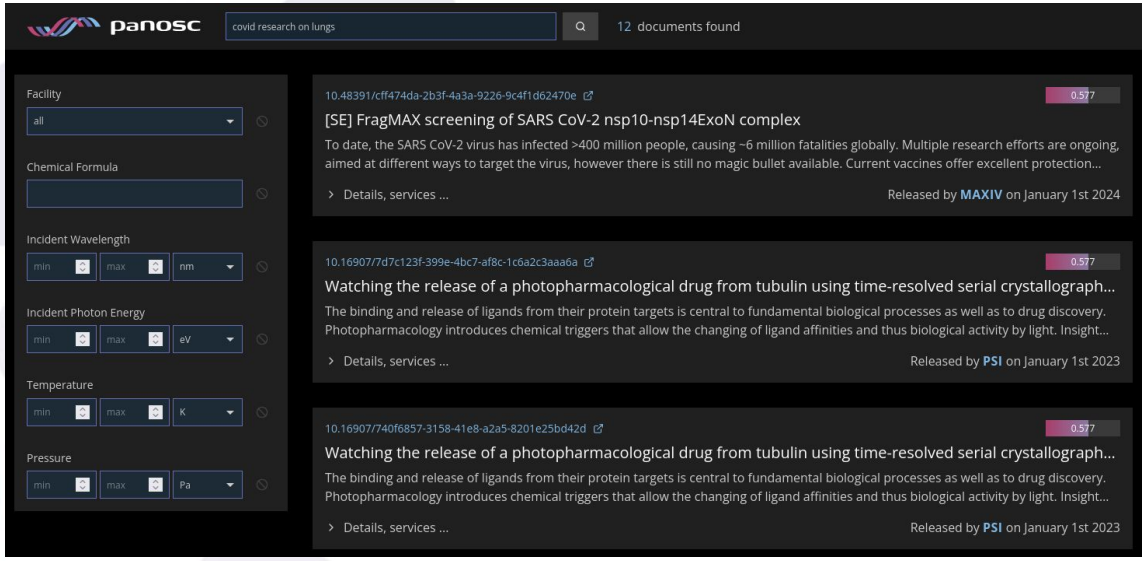
What will be the results and how do you plan to make them available to the broader community?

New search interface embedded in the PaNOSC Data Portal

Can you provide datasets acquired for covid research specifically targeting lungs aimed to study an effective way to target the virus and how it bonds with human cells?

Here is the list of 20 datasets acquired for covid research with reference to lungs and how to target the virus and how it bonds with human cells:

- Title of dataset 1, RI, DOI
- Title of dataset 2, RI, DOI
- ...



OSCARS

What risks could limit the success of the project, and how can they be mitigated

- Collection of the publicly available data → Direct access to facilities data catalogs
- Quality of data → Better process for data curation; Work with facilities to enhance data ingestion
- Correct interpretation of users' request → Extensive testing
- Relevant system responses → Correct ingestion and data curation; Selection and training of the correct AI tool; Resource investment; Programmatic collection of user feedback
- Sustainability → Educate users and funding agencies

Who is doing it? (OPTIONAL)

SIMS team at DMSC/ESS

(Scientific Information Management Systems)

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Jekabs Karklins

Fredrik Bolmsten

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