

# Poznan Supercomputing and Networking Center

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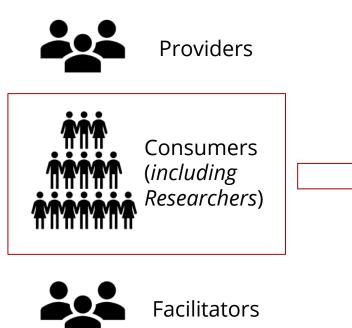
## Next generation of the EOSC Portal User Experience Enhanced by AI

EOSC Future project : INFRAEOSC-03-2020 - Grant Agreement Number 101017536

- The vision of EOSC Future is to deliver an operational EOSC Platform with an integrated environment consisting of data, services, open research products and infrastructure that will be accessed and used by the European research community
- **The EOSC Portal** is considered **a main entry** for European Researchers to access, use and reuse research products and data across disciplines:
  - EOSC Resources public and commercial e-infrastructure services,
  - EOSC Training Materials such as online courses, MOOCs, training workflows,

https://eosc-portal.eu /

- EOSC Research Products comprising the result of a research process.
- PSNC takes up several activities within the EOSC Future, including the development of the EOSC Recommender System, EOSC DIH as well as design of the federated Architecture and Interoperability.



- I want to find new tools and resources that might support my research
- I am interested in training / training materials

 $\checkmark$ 

l want to be able to specify my scientific profile, **to be offered resources tailored to my needs** 

D5.2a / EOSC Front-Office Requirements Analysis Lead by ICOS Authored by Anca Hienola (ICOS), John Shepherdson (CESSDA ERIC), Bartosz Wilk (Cyfronet)

 $\ensuremath{\mathbb{C}}$ Poznańskie Centrum Superkomputerowo-Sieciowe

# A need for improved User Experience



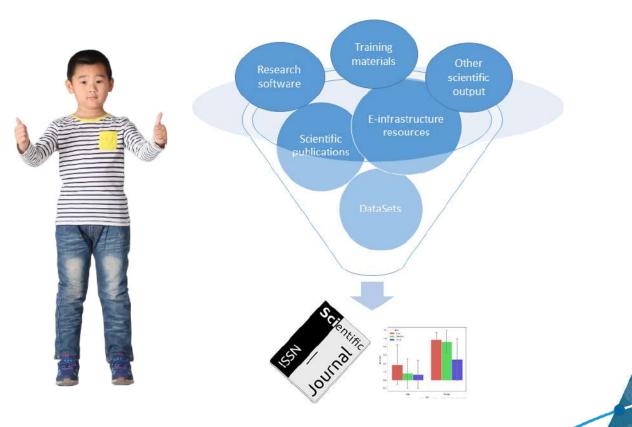
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271,924	Process
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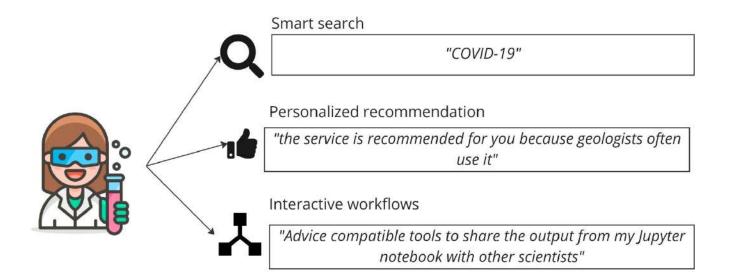
#### <u>OpenAIRE –</u> <u>Research Graph</u>

EOSC Marketplace (eosc-portal.eu)

#### **AI-based recommendations**



#### User scenarios for recommendations in EOSC





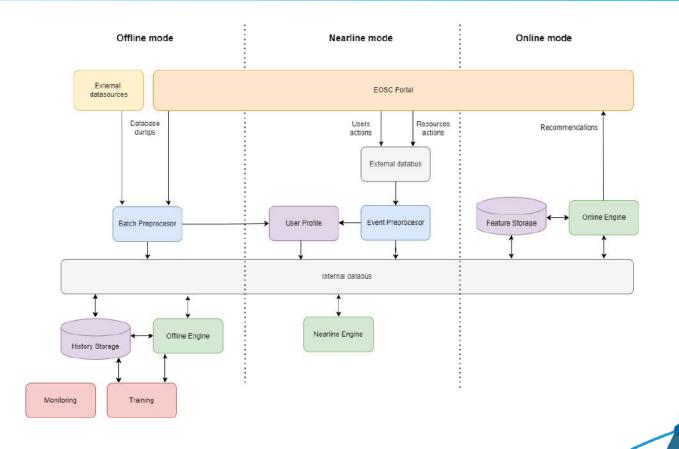
Recommendations based on the history of orders

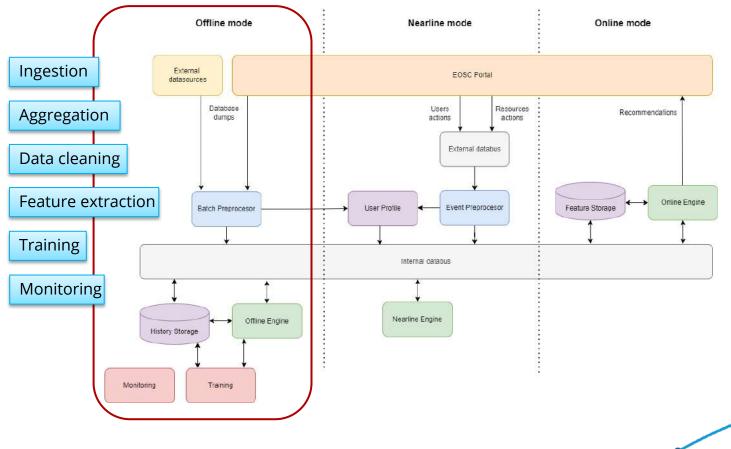
Recommendations based on the viewing history

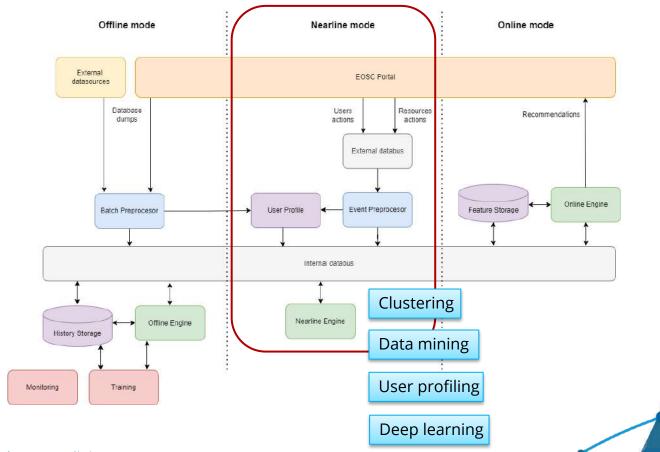
Recommendations based on general popularity

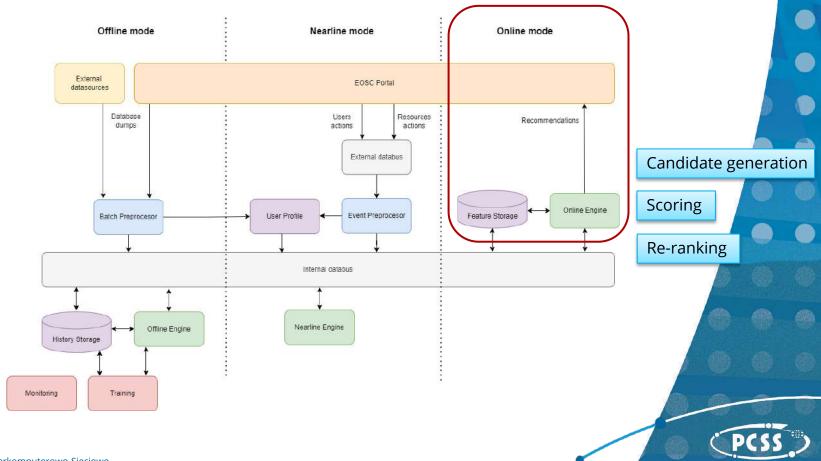
Recommendations based on popularity among users with similar interests

	Volume	Variety	Velocity
User profiles Resource profiles Training records	+300 Resource profiles +3k User Profiles	Database dumps Events	_
User actions Service actions	-	Data Bus JSON dump files	hundreds of events per minute (estimated), ~10KB each
Research products (OpenAire Research Graph)	+140m of OARG scientific outputs (+2m of EOSC Research Products)	CSV files, or TARed JSON	1 per month the OARG is updated

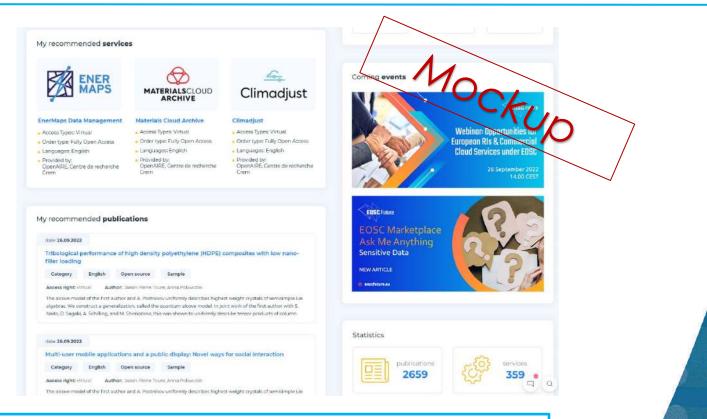








#### AI-enabled user dashboard



D5.1a / EOSC Front-Office Design, Functional and Technical Specification Edited by Bartosz Wilk (CYFRONET), Roksana Wilk (CYFRONET), John Shepherdson (CESSDA ERIC)

- EOSC Future delivers a platform that offers a wide range of resources to support researchers in their daily work.
- The presented recommendation system allows **quickly** and **efficiently** find the resources in a large set of diverse data.
- The transition to production of the EOSC RS along with the corresponding UI parts is in progress.



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