





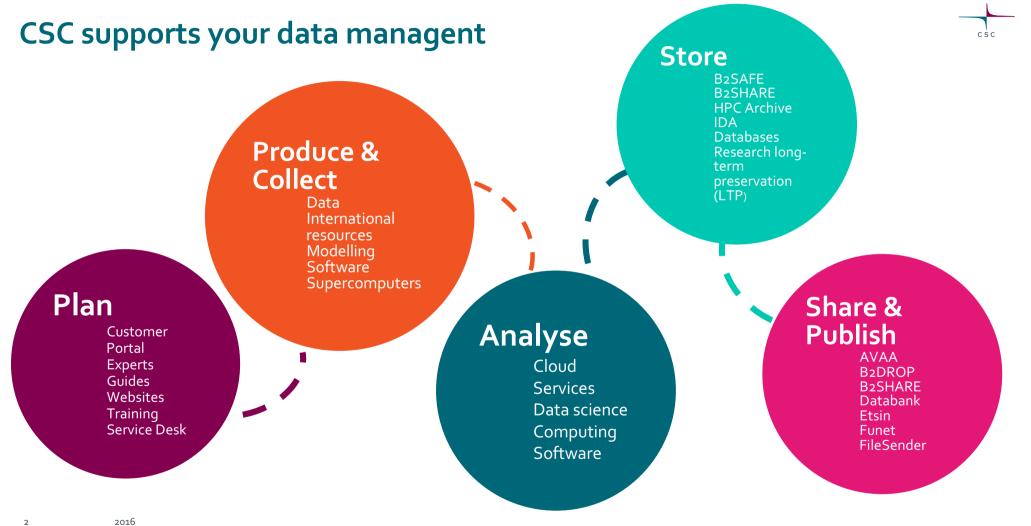


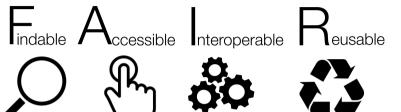
# CSC services for digital humanities HELDIG Summit

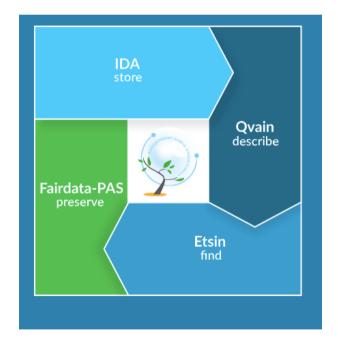
Jessica PvE

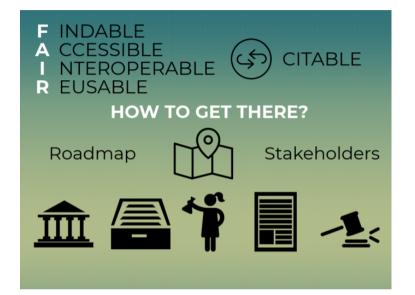


CSC – Suomalainen tutkimuksen, koulutuksen, kulttuurin ja julkishallinnon ICT-osaamiskeskus

















- Described in relevant catalog with enough detail
- Landing page with globally unique identifier



- Can be retrieved over the internet
- Versioning and lifecycle documented
- Tombstone page if data is deleted

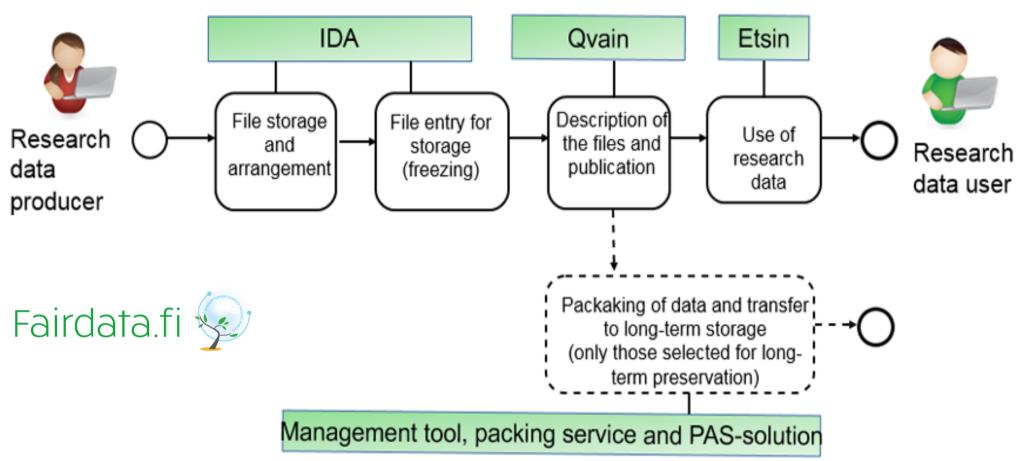


• Common, documented, and open formats



- Well documented and intelligible
- Rights clearly stated









# URN









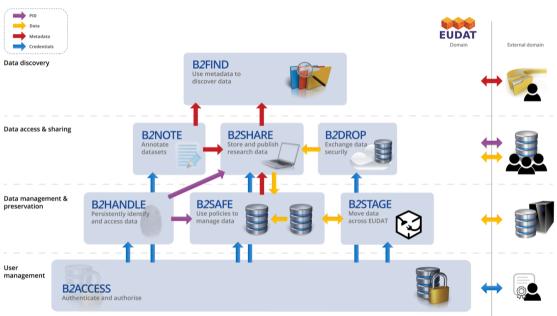
#### **EUDAT** B2 Service Suite





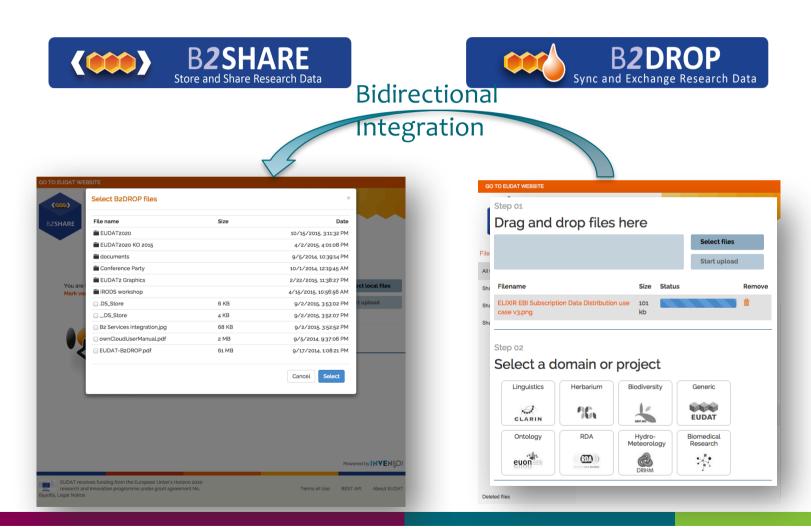


Identity & Authorisation



#### **Service Integration**







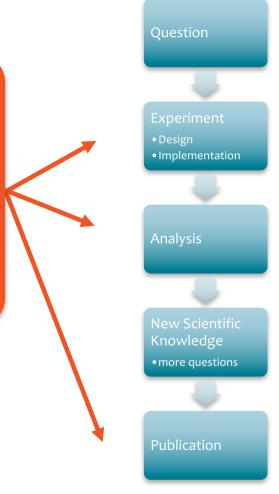
#### CSC's targets in data analytics

- Help customers reach higher levels of analytics maturity with expert consultation
- Provide open and tailored cloud services for data-driven solutions
- Support the Finnish society in digitalisation and artificial intelligence through **networking and co-creation**



## **CSC Expert support**

Statistics
Data Science
Machine Learning
Neural Networks
Data Visualization



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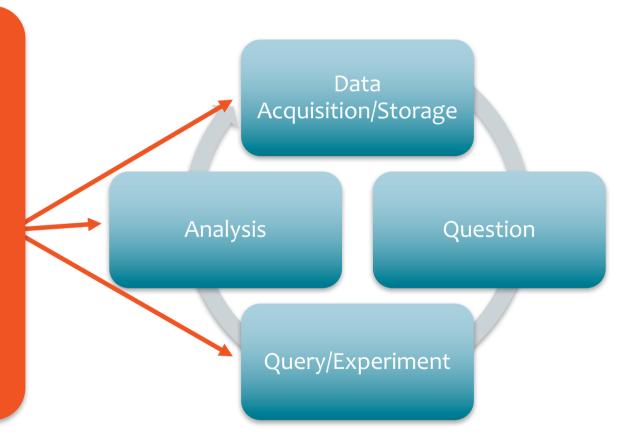
## **CSC Platform for big data workflows**

### Cloud platforms

- cPouta laaS cloud
- Pouta Object Store
- ePouta laaS cloud for **sensitive** data
- Rahti container cloud
- Coming: Rahti for sensitive data
- Elastic Spark for big data

## **HPC platforms**

- Taito GPU cluster
- Coming: Data lake



22.10.2018



## **High-Performance Digitisation project**

- Develop intelligent machine learning based annotation pipelines for archive material (scanned newspapers, books and official documents)
  - o Implement image recognition, image labeling, text labeling and feature detection
  - o Efficient implementation with HPC and GPU's
- Funded by INEA/EU through CEF instrument (HPC & Open Data call)
- Collaboration with The National Library and The National Archives



#### CSC is your eInfrastructure partner

- CSC is part of many different communities that provide scientific eInfrastructure in language research, bioinformatics, genomics, environmental sciences, atmospheric sciences...
- Our computing environment is designed for tailoring and domain specific adaptations
- Happy to join and support communities that create novel scientific eInfrastructures together

22.10.2018



## Chipster

http://chipster.csc.fi/



tailored for the Language Bank of Finland <a href="https://www.kielipankki.fi/support/mylly">https://www.kielipankki.fi/support/mylly</a>



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# CSC

#### Some use cases for Mylly

- 1. Automatic speech recognition
- 2. Tokenize text and count word form frequencies
- 3. Automatic dependency parsing of Finnish text
- 4. Search from an annotated corpus via Korp API and get the results in a table (spreadsheet)



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**Data storage** 



Data sharing and open data



Data management planning and policies



**Data discovery** 



**Data analytics** 



Best practices and guidance







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