Lifewatch computational services

- Manage data lifecycle: storage, processing, analysis, preservation...
- One of the goals of the Lifwewatch ICT Core architecture is linking different resources from third party contributors (databases, sensors, software, computing power).
- Use Case using european infrastructures: EGI, EUDAT

EGI - European Grid Initiative

- European Grid Initiative Distributed computational resources.
- Users must belong to Virtual Organizations (VO).
- vo.lifewatch.eu available:
 - https://ibergridvoms.ifca.es:8443/voms/vo.lifewatch.eu/register/start.action
- Users of a VO needs similar resources.
- Example: Ugr. Analysis of NDVI in Spain using NASAs Terra Satellite and MODIS sensor.

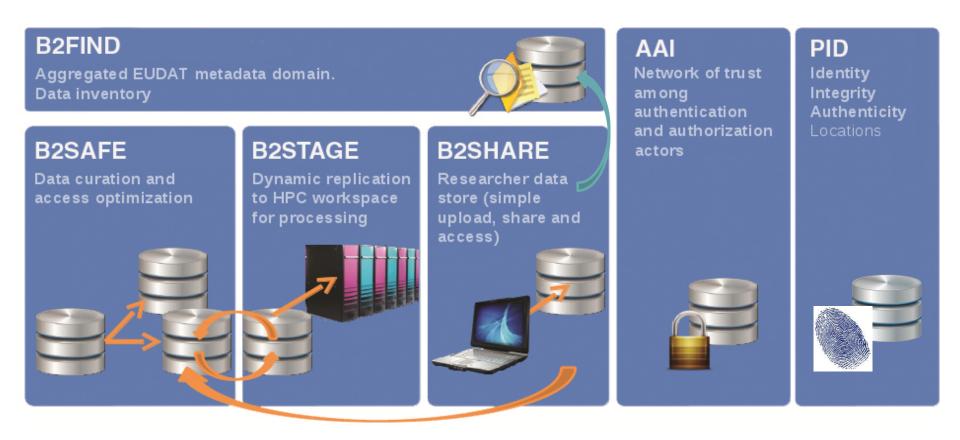


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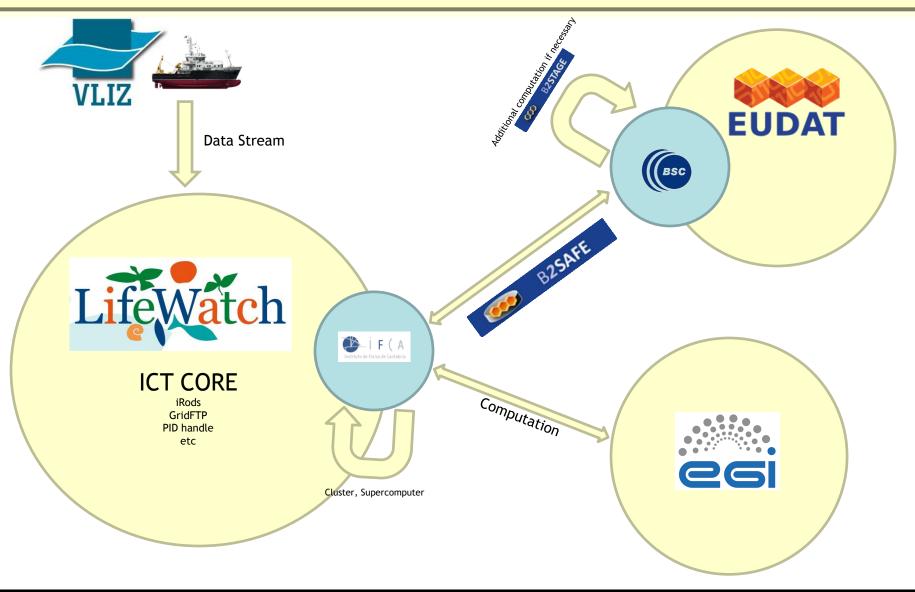
- European data: Collaborative Data Infrastructure that allows users to share data within and between communities.
- Different services:
 - B2SHARE: Upload and store data. Usually small data sets (citizens or not official data).
 - B2FIND: Metadata for data stored in EUDAT data centers to make data easy to find.
 - B2SAFE: Replicate data to selected data centers for storage and do this in a robust, reliable and highly available manner.
 - **B2STAGE:** Data to HPC facilities.
- Other services: Authentication, PIDs, Training...



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Use case



Web Interface Pipeline: TRUFA

- One approach can be a web interface to guide users in data management and processing.
- TRUFA is a pipeline that allows users to process RNA sequences.
- Users upload the files, select different options and run the job(s).
- File manager to handle input and outputs.
- Perfect for non-experts users in informatics

Web Interface Pipeline: TRUFA

