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# Making Cyclone Tracking accessible to end users for Climate Research and Applications

## I Motivations and Objectives

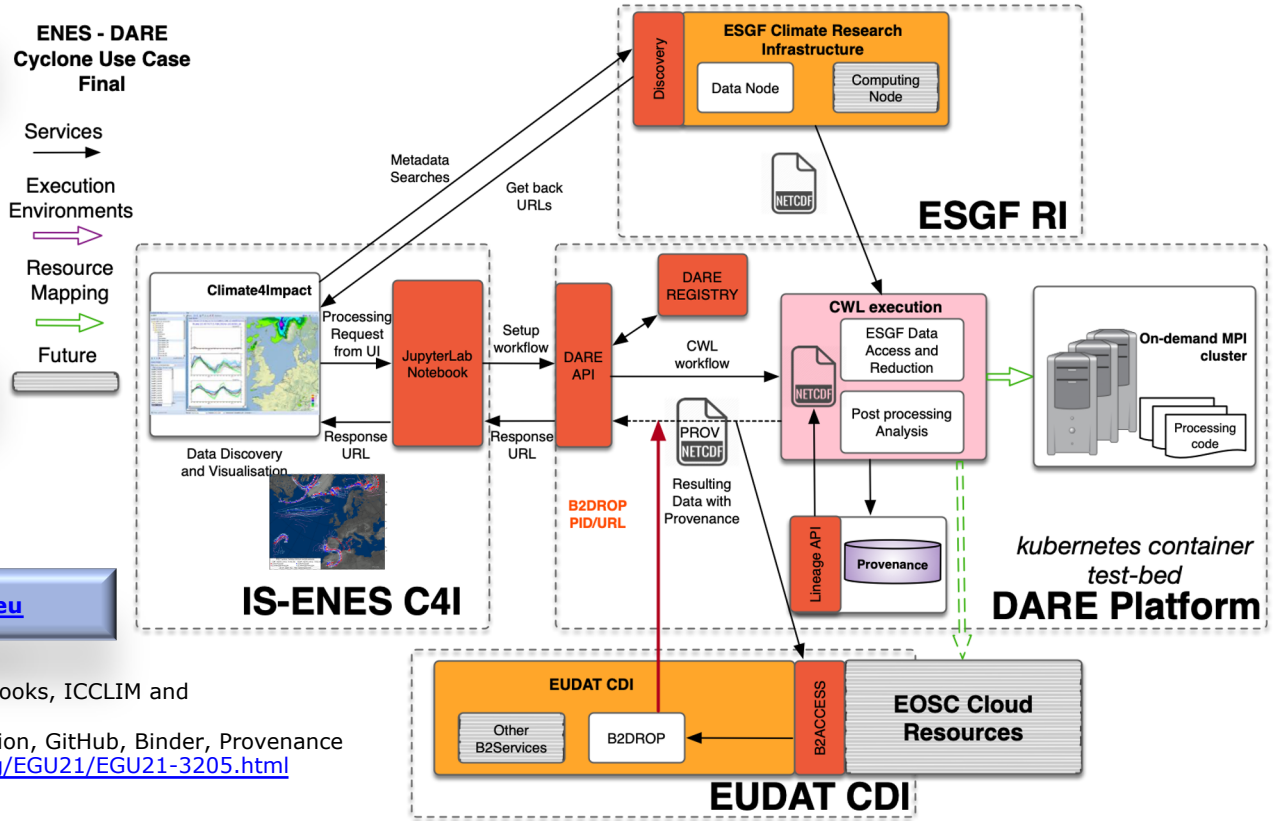
- Climate Datasets are getting too large for download-then-analyze workflows
- Complex analysis tools are difficult to configure, install and run for end users of climate data
- Provide access to complex analysis tools for end users
- Integrate infrastructures and provide parallelization, provenance and abstraction

## II DARE Platform http://project-dare.eu

- Composition of services using containers
- Across service communication using exposed REST APIs
- Scalable and flexible due to kubernetes orchestration
- Effortless cloud infrastructure deployment
- Software isolation

## III IS-ENES C4I Platform https://climate4impact.eu

- Simple powerful GUI: Search, Selection, Subsetting
- Flexible analysis features: Integration of Jupyter Notebooks, ICCLIM and Workflows/Batch-processing
- Automated reproducibility mechanisms: Datasets, Version, GitHub, Binder, Provenance
- Using SWIRRL https://meetingorganizer.copernicus.org/EGU21/EGU21-3205.html

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