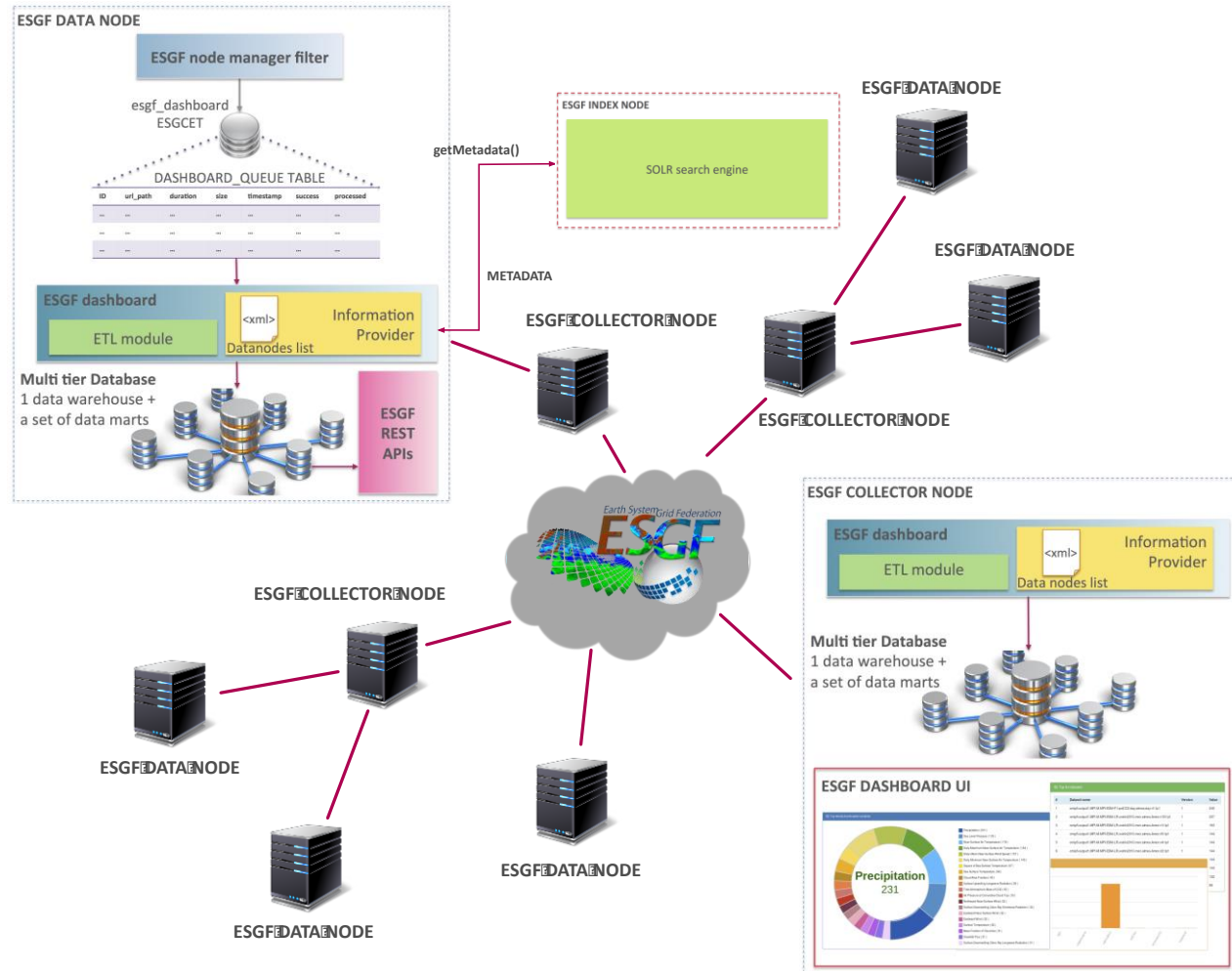# Dashboard and UI

The Dashboard has a plug-in based architecture composed by:

- an Information Provider, responsible to collect an extended set of data usage information;

- a data warehouse system containing cross-project and project-specific metrics (CMIP5, CORDEX, Obs4MIPs);

- a set of REST APIs through which the statistics are collected and then federated by a collector node.

The ESGF Dashboard UI is a web application installed on a collector node through which the user can access the different metrics/statistics.

DASHBOARD FY17 PROGRESS REPORT

- Release available and installed at three sites: NASA-JPL, LLNL, CMCC

- CORDEX statitstics:

  i.   requirements collection

  ii. data warehouse design&implementation

  iii. dashboard back-end and REST APIs develoment

  iv. new related views for dashboard-ui

- CMIP5 and Obs4MIPS gadgets finalized

- Cross-project view including geo-dowanloads metrics

- Improvement of the Data Archive section of the dashboard-ui with a cache system to speed up the output visualization

- Setup of a federation testbed with IPSL, JPL/NASA and LLNL data nodes

- Regular check and security update on the software package (2018 work with Zed)

DASHBOARD FY18 ROADMAP

Main goal: project view for CMIP6 project statistics collection

- Improve robustness of the software

- Improve existing capabilities (following discussions with Robert, …)

    - Additional filtering capabilities on the existing gadgets (e.g. 'by project' and 'by model')

    - REST API to download metrics for further offline analysis (CSV)

        - Full list (e.g. of datasets, projects, etc.)

    - Download by continent per data node

    - Extend general info about global metrics to a larger/all the projects

- Add some new features

    - Black listing capabilities

    - Metrics specific for data services (wget, GridFTP, etc.) and models

    - REST API service on CMCC collector node to provide programmatically federated statistics