The SeaDataCloud Monitoring Platform

Angelos Lykiardopoulos,HCMR,angelo@hcmr.gr, Themis Zamani,GRNET, themis@grnet.gr
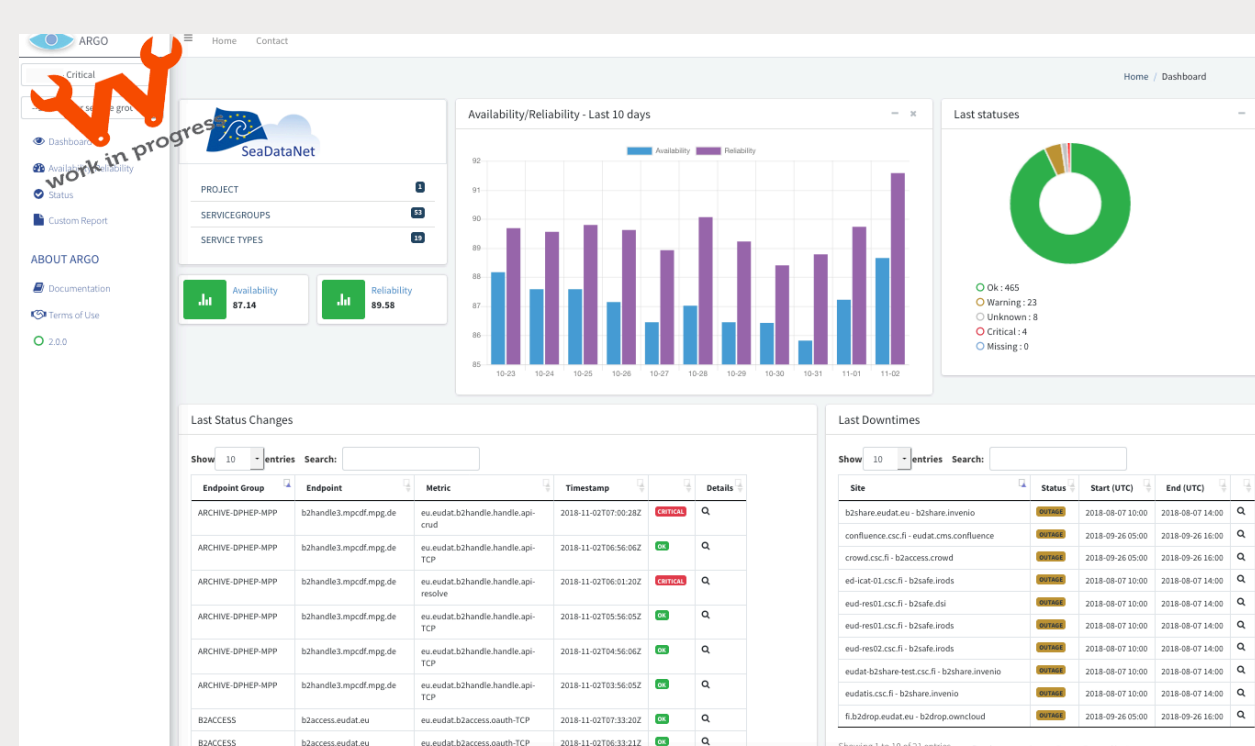Kostas Koumantaros,GRNET, kkoum@grnet.gr

Monitoring

Traditional status monitoring of services is something very useful for operational teams, but for end users it does not add any value. End users want to know how the overall services they are relying upon are performing and whether the delivery of those meets the service level they have agreed..

The new monitoring platform addresses this issue by emulating what a user will do with a service and monitors the outcome to provide availability and reliability from a user's point of view.
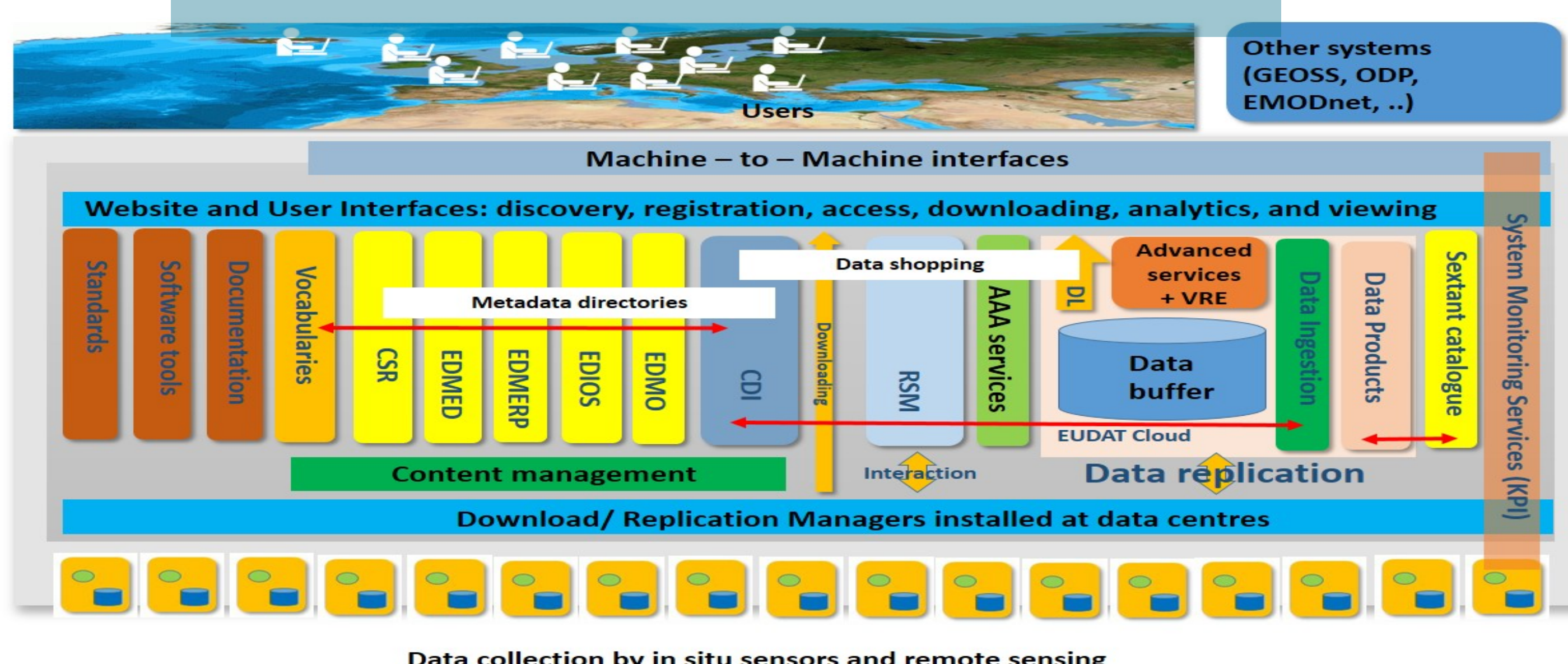
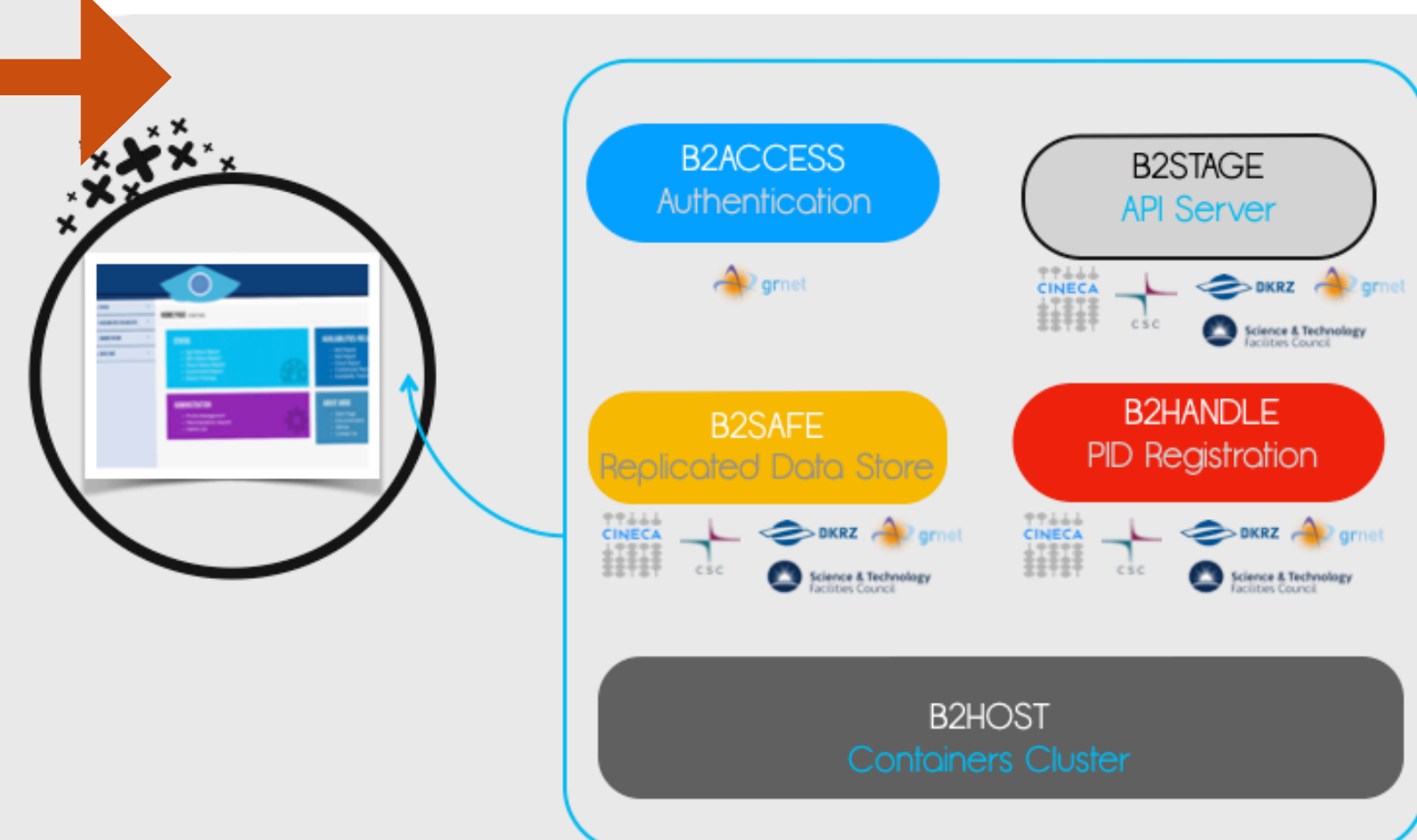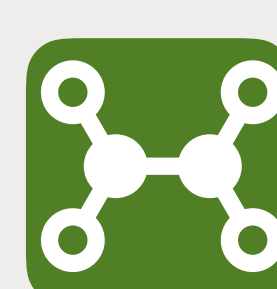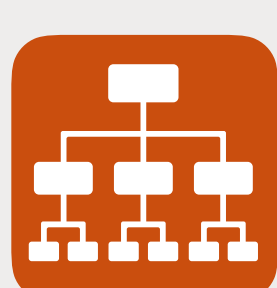### Dashboard

A/R reports

Status reports

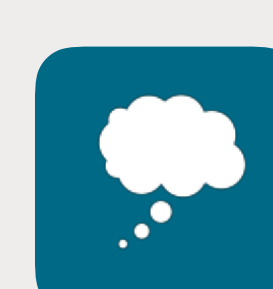## But How Is this Done
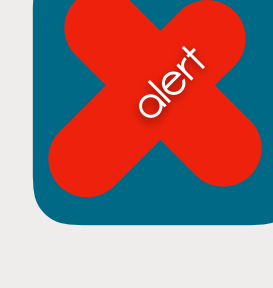

- Core Services
- Local Services / Download Managers
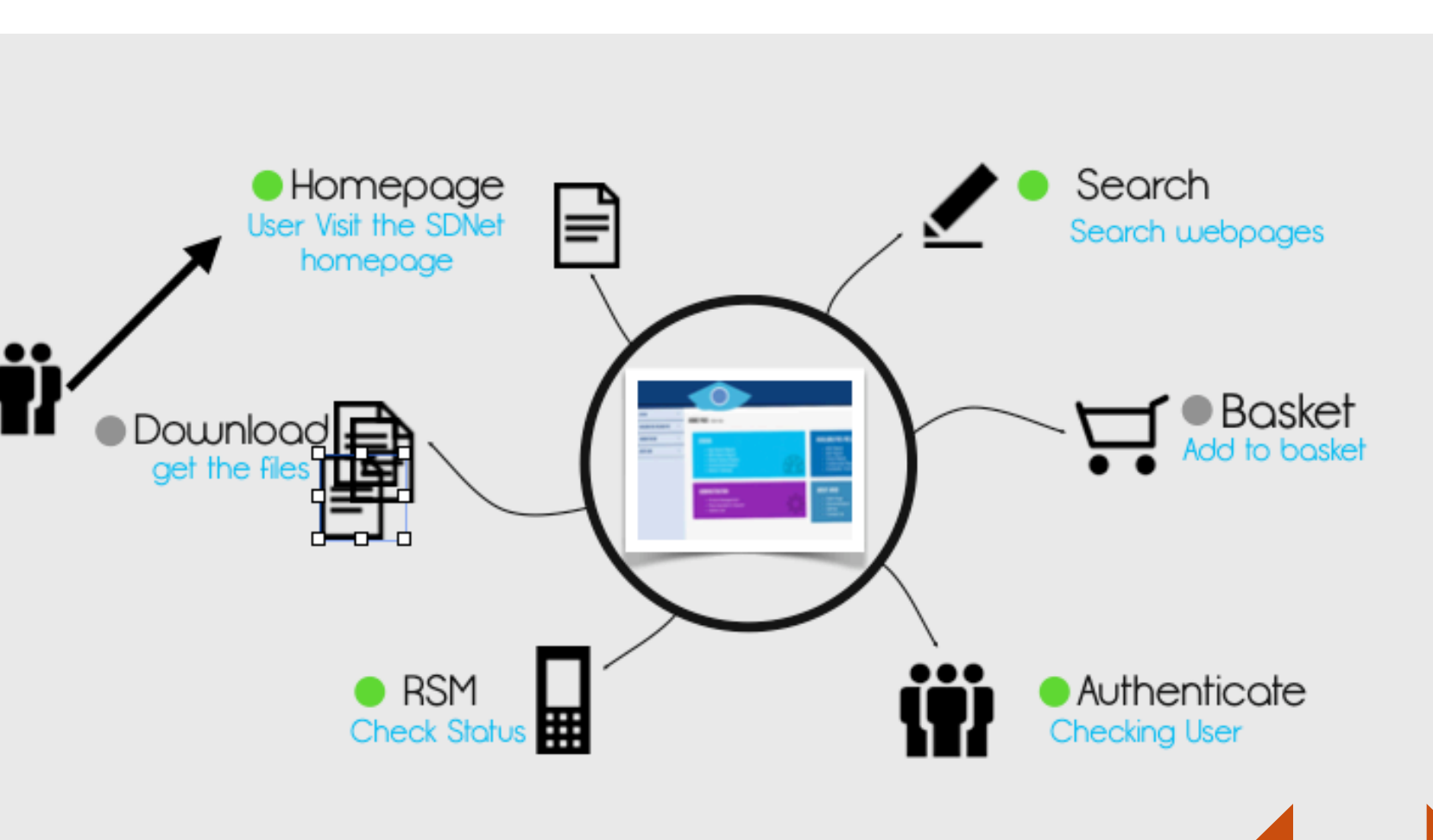
Infrastructure
EUDAT Services
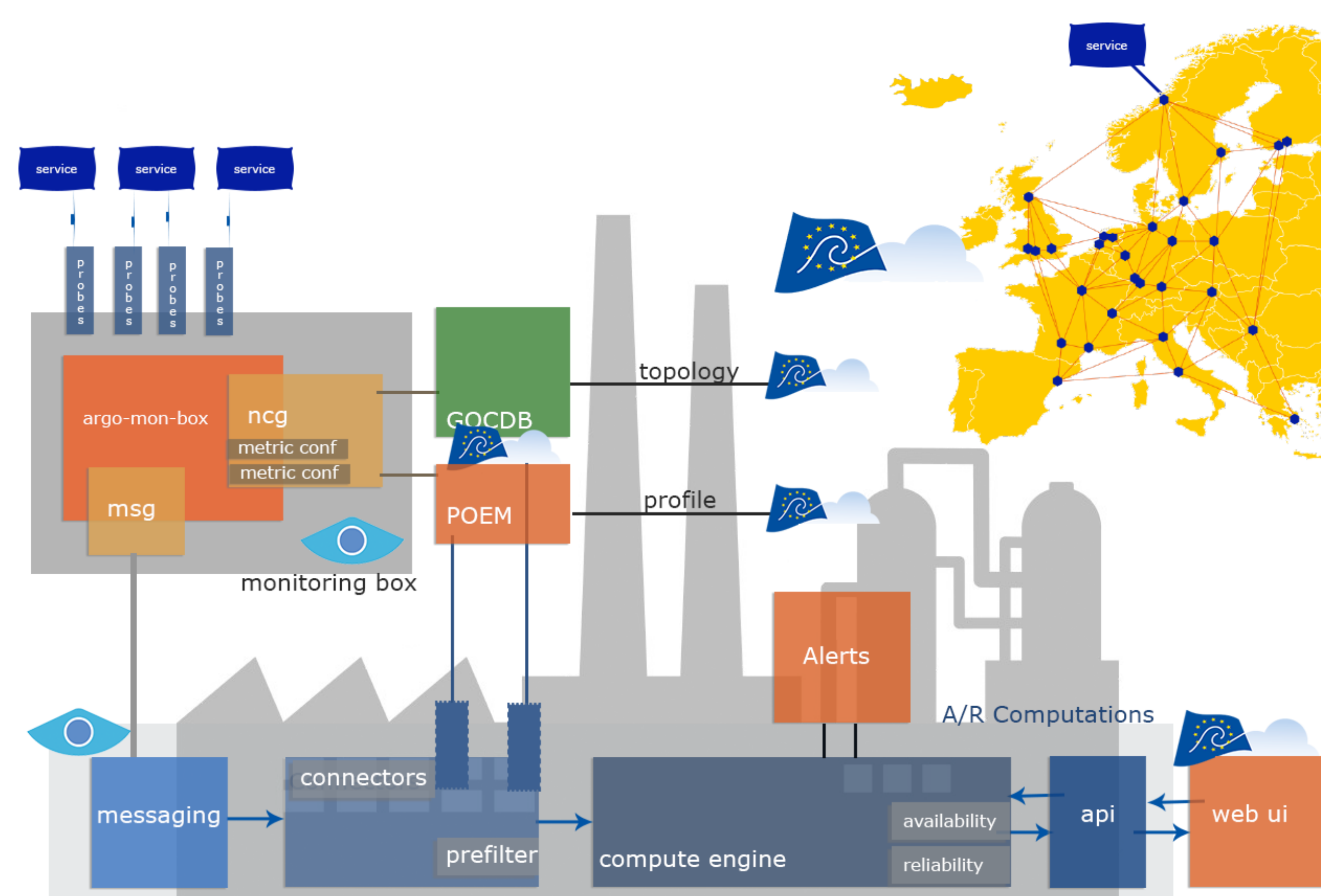
Basic Components

Central Registry
A central registry to record information about the topology of SDC Infrastructure.

Metrics Management
A tool to collect and organise metrics. It instructs monitoring instances what kind of tests to execute for a given service.

Monitoring Engine
It executes the service checks against the infrastructure and delivers the metric data to a ARGO Messaging Service

ARGO Messaging Service
A Publish/Subscribe Service used by internal components - systems to exchange messages via Topics/Subscriptions.

Connectors
A bundle of connectors/sync components for various data sources established

Compute Engine
Computes availability and reliability of services and near - real time status events

Notifications
Real-time status events are the basis of alerts. It sends alerts (ex. email, sms), by connecting to external sources to get info about the owner(s) of services, endpoints.

ARGO is framework for Service Level Monitoring designed for medium and large sized e-Infrastructures, Research Infrastructures and Thematic Services. It Supports:
- Status, availability and reliability of services
- multiple reports using customer defined profiles

https://argoeu.github.io