

EODASH, Euro Data Cube & EOxHub

EOX IT Services <https://eox.at>
office@eox.at @eox_a
2023-06-26, FOSS4G



Týna Doležalová
Geospatial Data Scientist
tyna.dolezalova@eox.at



Lubomír Doležal
Geospatial IT Engineer
lubomir.dolezal@eox.at

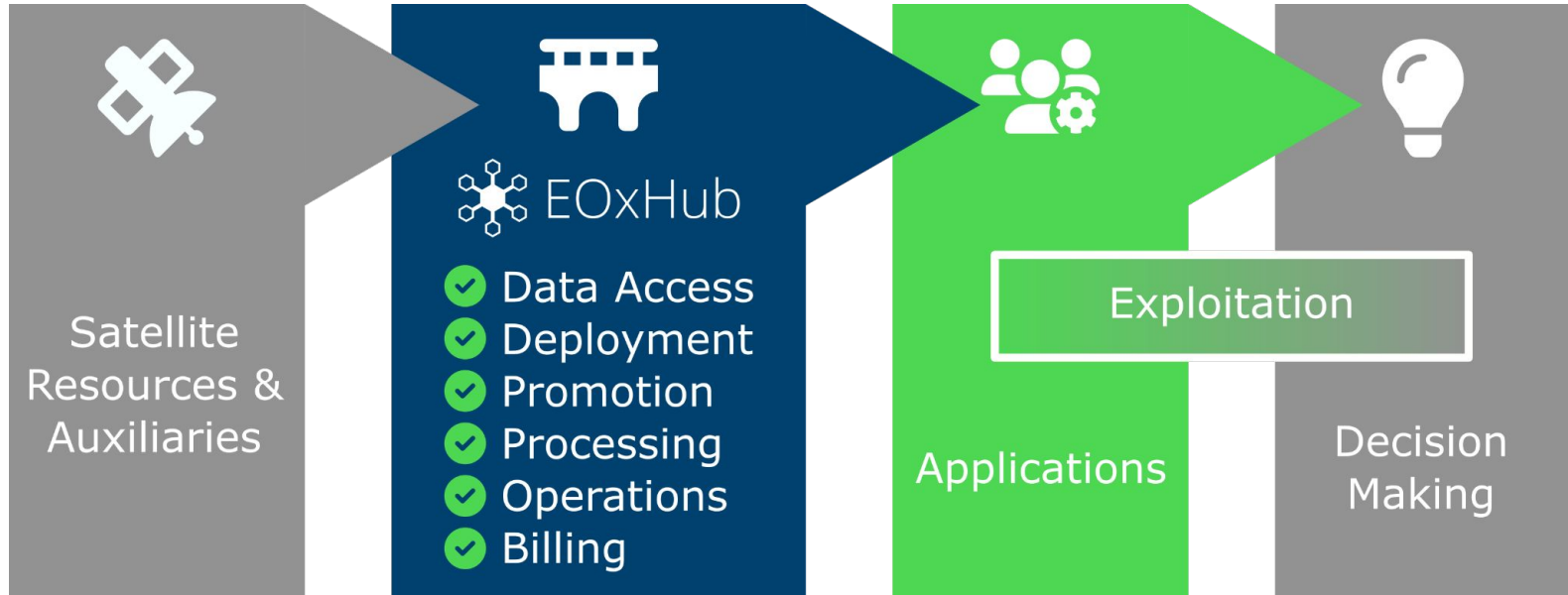


Stephan Meißl
CEO - EOX - @Schpidi
stephan.meissl@eox.at
+43 664 9688701



Platform Technology & Services

EOX makes the bridges for comprehensive exploitation of satellite Earth-observation



EOX stands for Open Source, Open Standards, Open Data, & Open Science

eodash

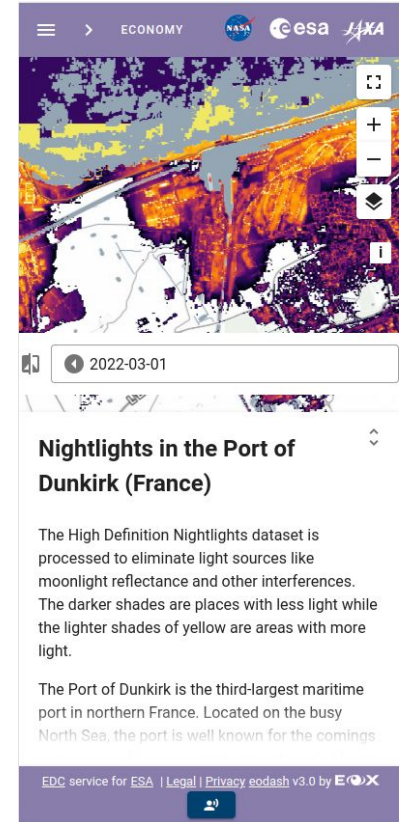
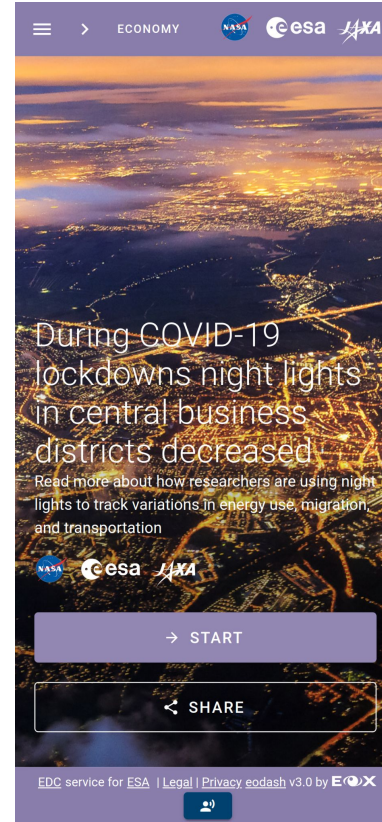
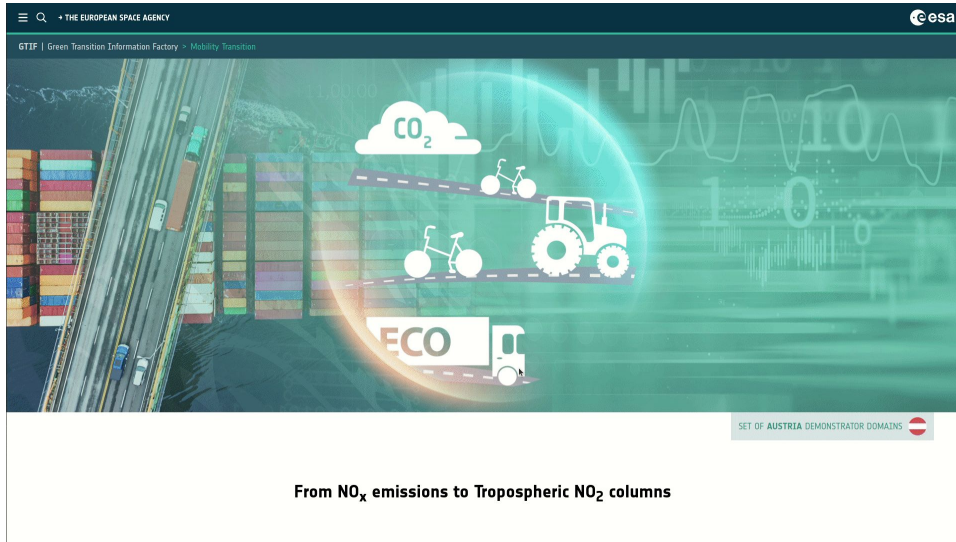
- Rapid Action for Citizens with Earth Observation
<https://race.esa.int>
- EO Dashboard by NASA, JAXA, and ESA
<https://eodashboard.org>
- Open for everyone
- Collaborative features

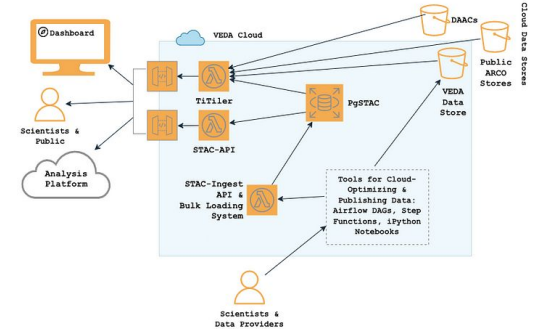
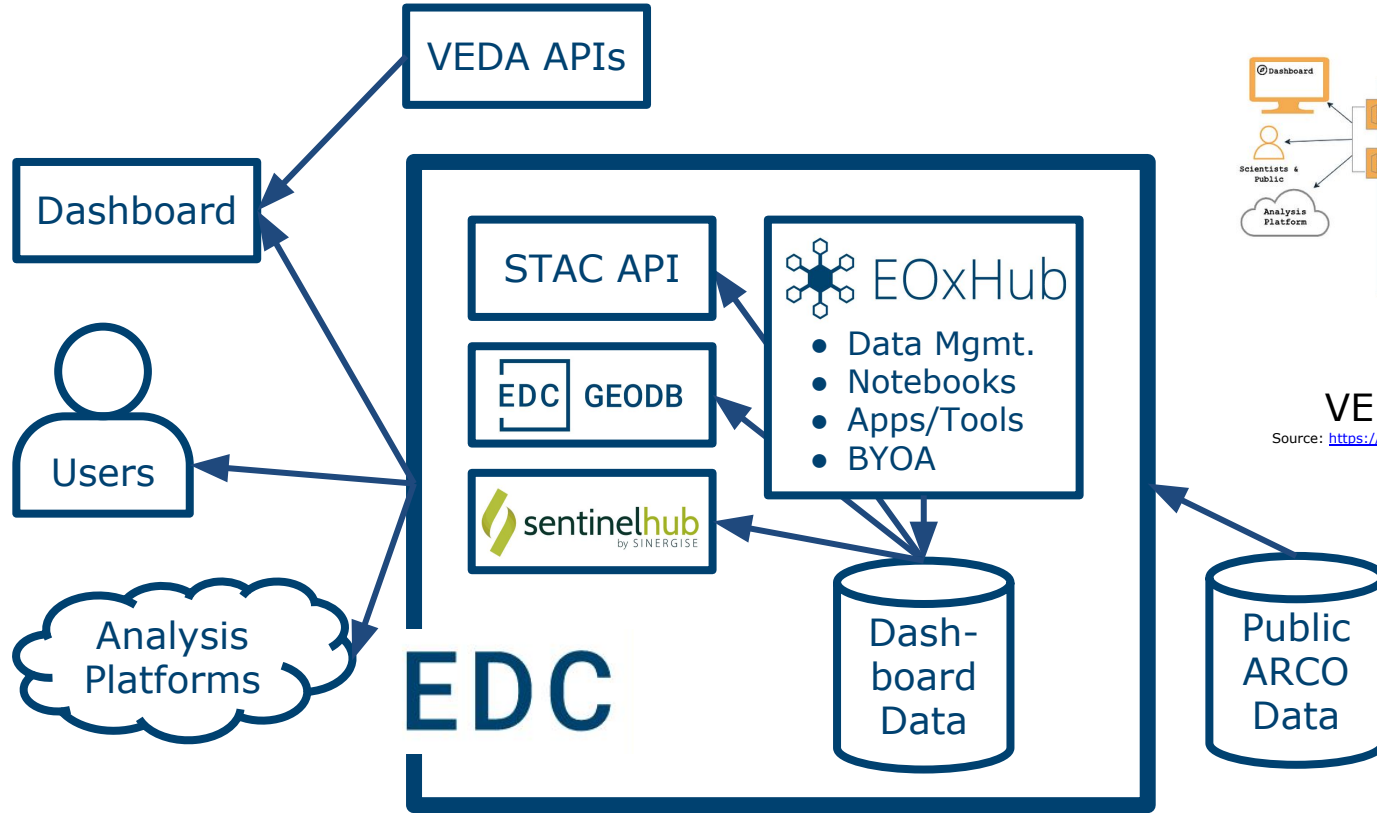


Green Transition Information Factory - GTIF



Story- & Scrollytelling

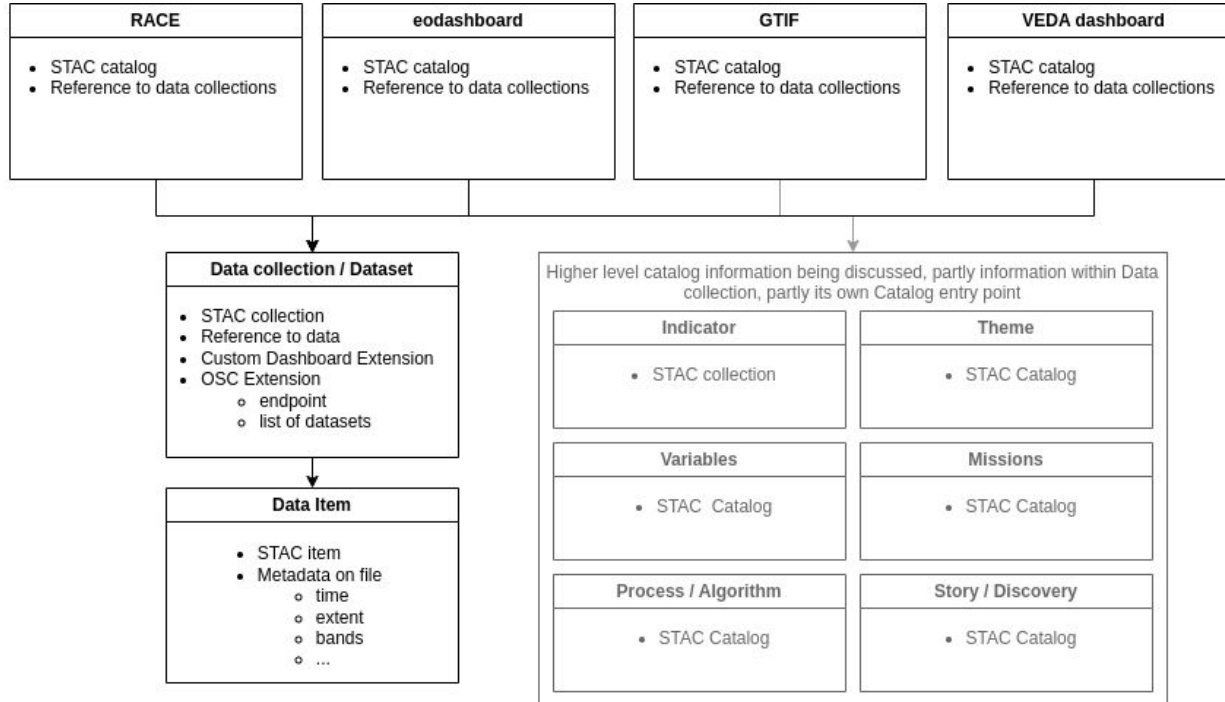




VEDA Architecture

Source: <https://github.com/NASA-IMPACT/VEDA/wiki/Components>

STAC Structure



Open Source

- Source code - <https://github.com/eurodatacube/eodash>
- Based on Vue.js, Vuetify, OpenLayers, EOxElements, Chart.js, geotiff.js, etc.
- Feedback and contributions are welcome

EURO DATA CUBE

ABOUT DOCUMENTATION SUPPORT MARKETPLACE BROWSER BLOG

The Earth In A Cube

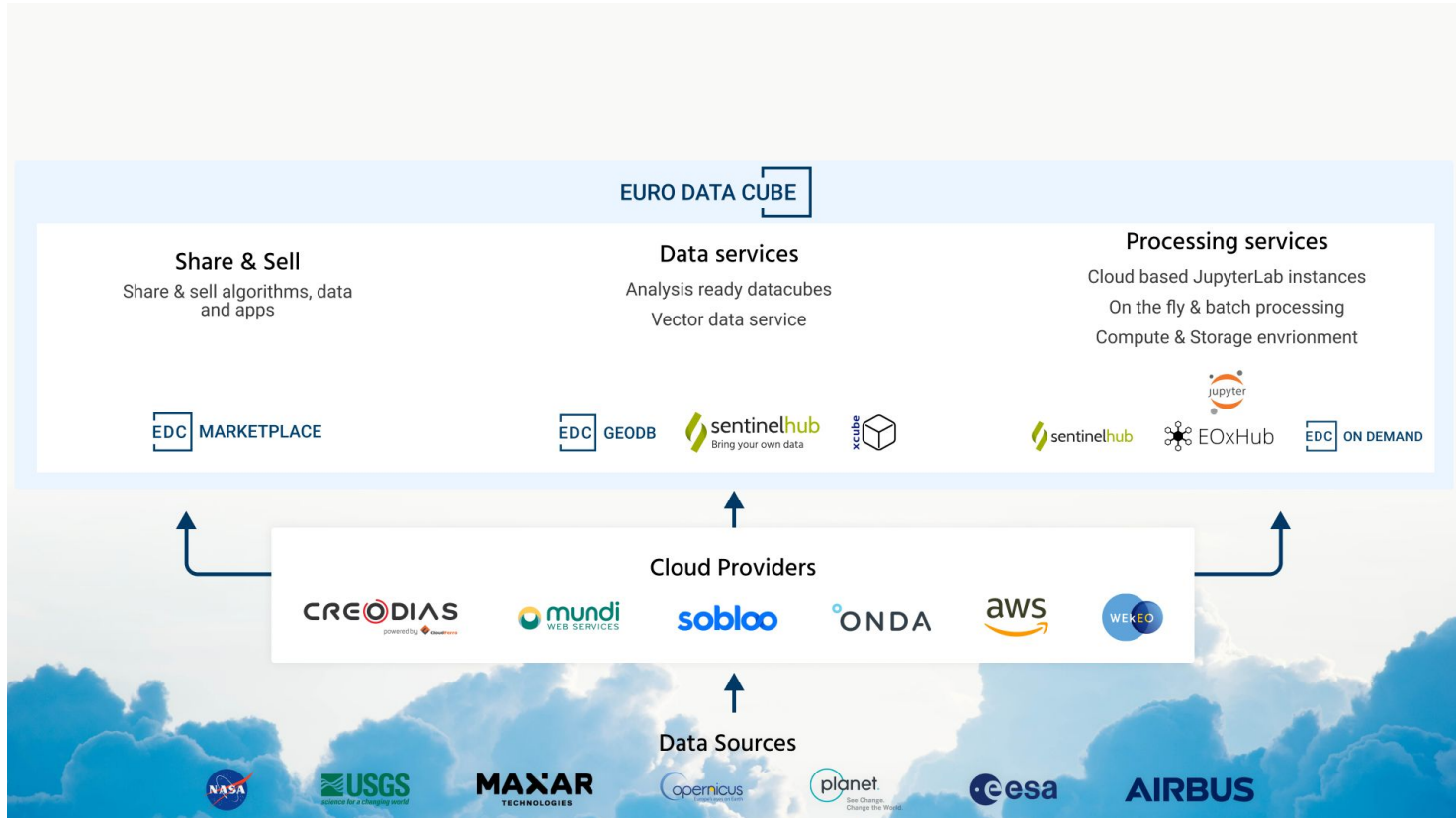
Harness the power of the data cube, access and analyse all the most important Earth Observation data in one application.

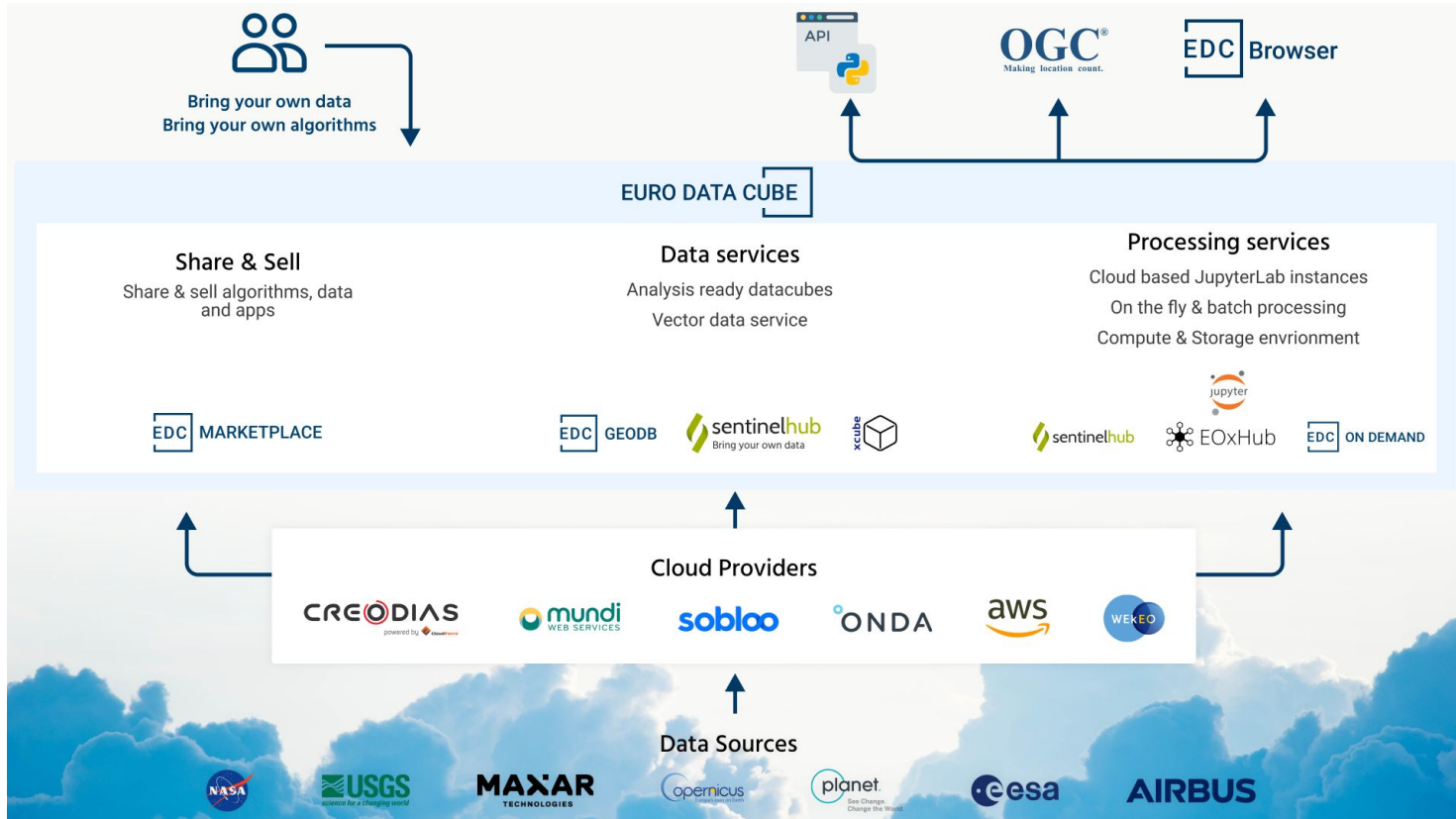
[TRY IT OUT](#) [LEARN MORE](#)

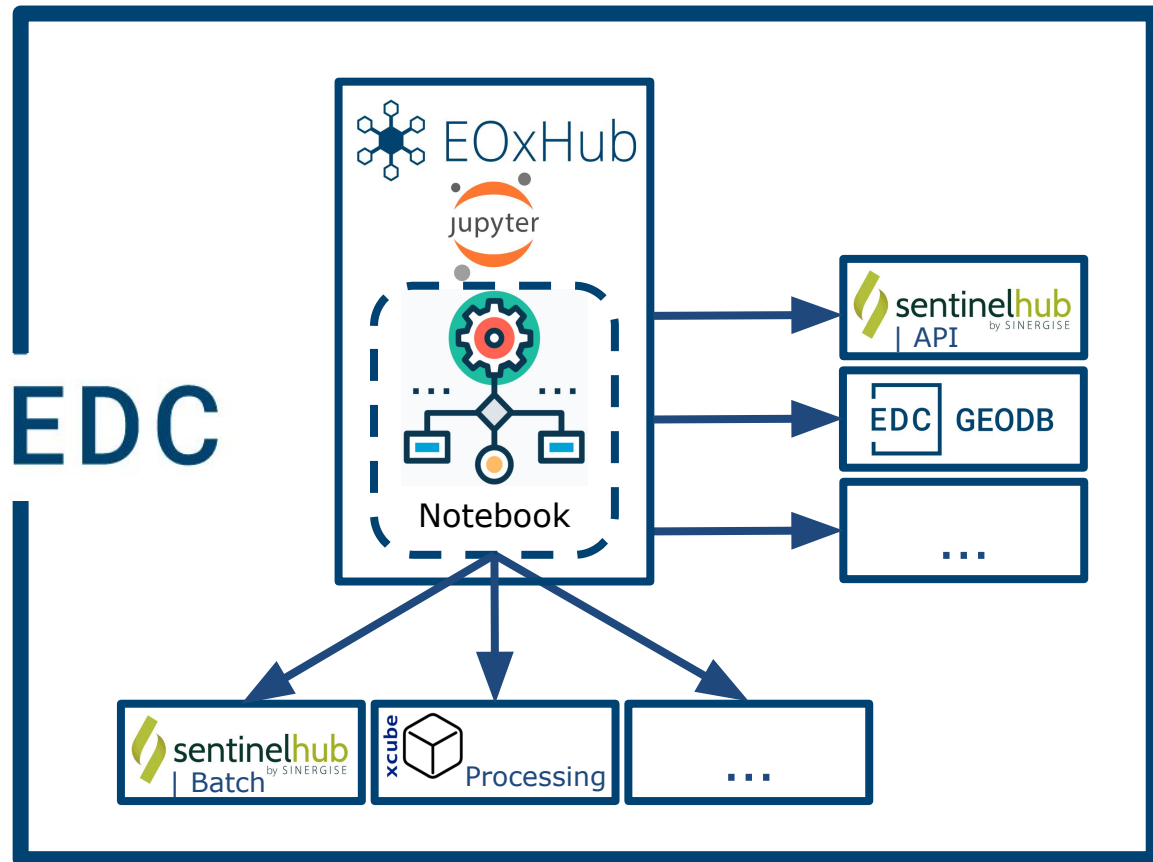
Already using Euro Data Cube? [Log in](#)

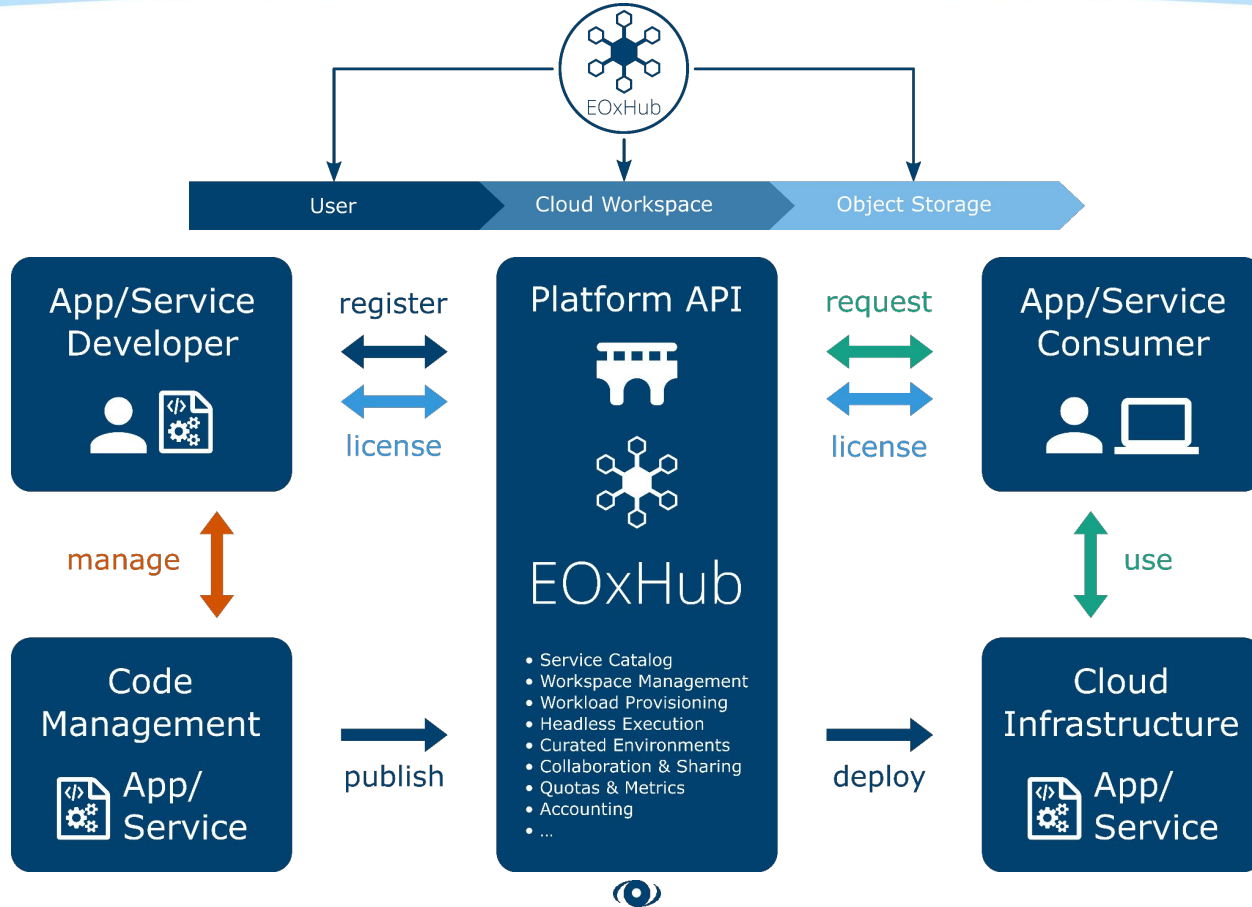






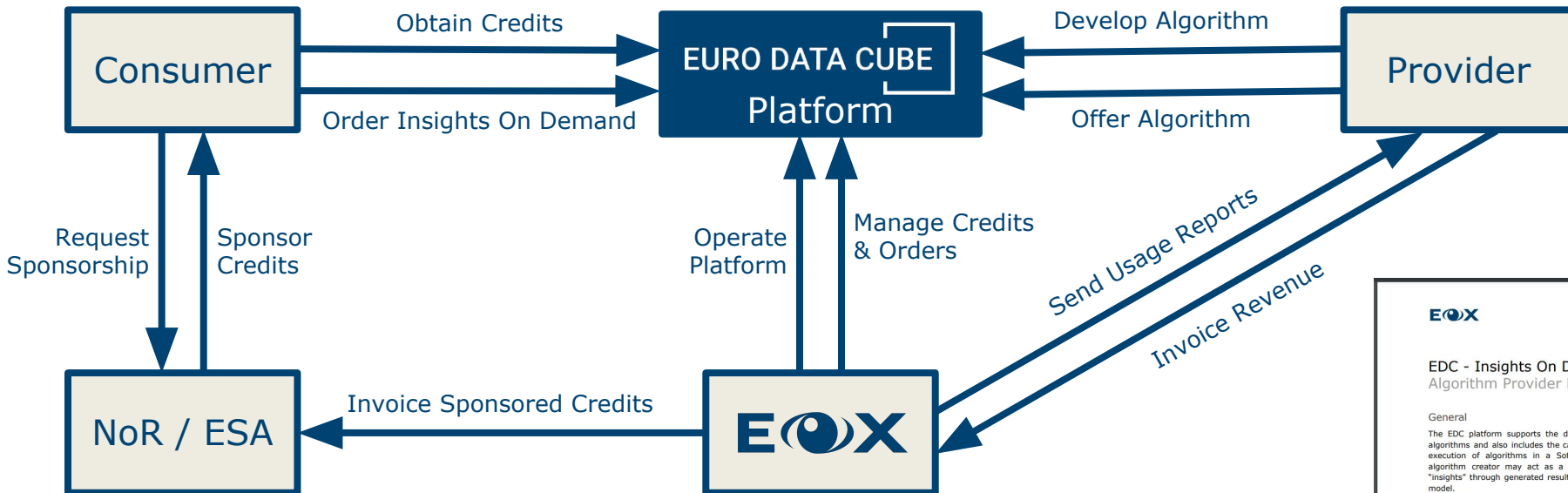






Insights On Demand

Bring Your Own Algorithm



EOX

EDC - Insights On Demand Algorithm Provider Deck

General

The EDC platform supports the development and execution of algorithms and also includes the capabilities to offer custom execution of algorithms in a Software-as-a-Service (SaaS) model. An algorithm creator may act as a provider on the EDC platform, offering "insights" through generated result data to consumers, in a SaaS model.

Such EO processing algorithms may be written in any programming language and may leverage any kind of third party services. Prerequisites have to be met by the algorithm provider as follows:

Responsibilities

The algorithm provider must be:

1. able to execute the EO processing algorithm in a SaaS environment. While it is possible to execute the algorithm purely outside of EDC, the algorithm onboarding process must be completed.

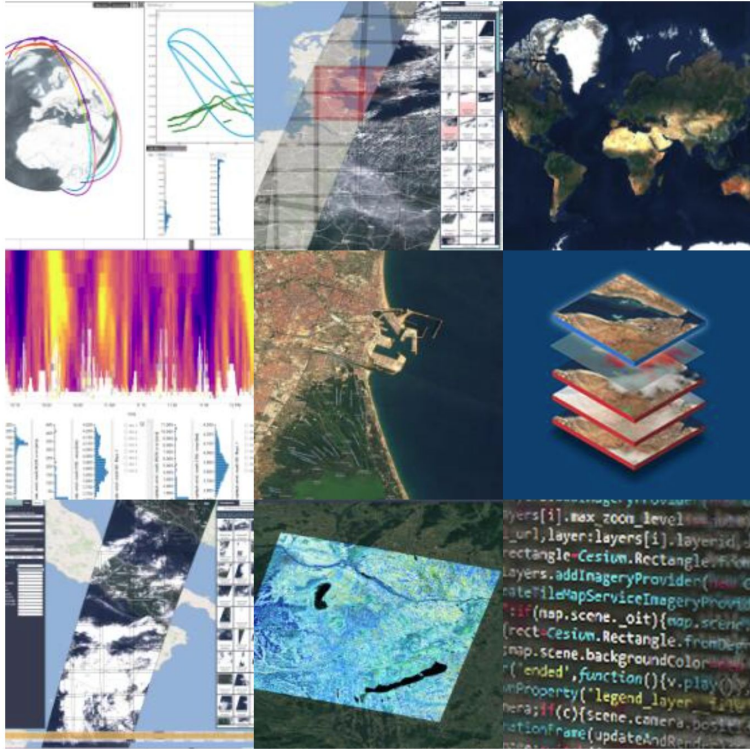
EOxHub as a Product - Capabilities

- Preconfigured hosted **Cloud footprint** - “**Workspace as a Service**” for teams, projects, communities, etc.
- Building upon a **managed JupyterLab** environment
- Optional additional tooling like for **Machine Learning**
- Collection of **Jupyter Notebooks**
- Targeting the **EO domain** - data access
- Running on a **cloud provider of choice** like AWS, OTC, or CreoDIAS
- **Reproduce and share** (BYOA) workflows

ESA's Network of Resources

- Request sponsoring for EDC resources via <https://eurodatacube-nor.hub.eox.at>

<https://foss4g2023.hub.eox.at>



VIEW THE WORLD THROUGH OUR EYES



Týna Doležalová
Geospatial Data Scientist
tyna.dolezalova@eox.at



Lubomír Doležal
Geospatial IT Engineer
lubomir.dolezal@eox.at



Stephan Meißl
CEO - EOX - @Schpidi
stephan.meissl@eox.at
+43 664 9688701