



Meteorological and Environmental Earth Observation - MEEEO S.r.l. (www.meeo.it) is a privately-held company devoted to the implementation and development of products and services based on the remote sensing of the Earth-Atmosphere system. MEEEO is a consolidated partner of the European Space Agency (ESA), since 2011 an affiliated partner of the Climate-KIC association, and associate partner of the Open Geospatial Consortium. The main expertise offered deals with implementation and operation of Earth Observation and geospatial data infrastructure tools, Climate data services, Image information mining tools, satellite and ground data integration, Change detection application, multi-source/multi-temporal analysis, WebGIS Applications development and implementation for private and public local administrations; standardization of processes and data storage / transmission tools (OGC, INSPIRE).

ADAM Data access and exploitation (DPaaS)

The Advanced geospatial Data Management platform (ADAM) is a tool to access and a large variety and volume of global environmental data. ADAM allows users extracting global as well as local data, from the past, current time, as well as short term forecast and long-term projections. Most of the data are updated daily to allow users having always the most recent data to play with.

ADAM offers four main interfaces for data access:

- the Explorer, a web-based graphic user interface to allow users to explore, access, process and download data
- the Jupyter Notebook
- The Application Processing Interfaces (APIs)
- The QGIS Plugin

Data processing is triggered within the Explorer through the Data Processing Facility (DPS). DPS offers a set of pre-defined pipelines based on SNAP and user-provided dockers. DPS provides:

- Pipelines configuration: parameters configuration, possibility to compute the expected cost of the job, based on configurable cost plans
- Jobs management: start/stop/re-execution/monitoring; Elastic job parallelization options are also available

The usage of ADAM is regulated through user quota accounting. The User Quota allows a simple way to set a limit for free usage of data and processing (advanced users) dedicated to demonstration and promotional initiatives.

ADAM Jupyter Notebook (IDE & Algorithm Hosting)

The Jupyter Notebook, a web-based processing environment to allow users to import, write and execute code that runs close to the data, exploiting the power and the APIs on a remote computation environment (no user resources are used). In order to facilitate the usage, notebook examples are provided for each functionality pre-loaded for each user.

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ADAM climate indicators

Besides the large selection of products, a set of climate indicators have been computed and made available to the platform's users. They are updated periodically based on input products availability.

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ADAM Data analytics

Within the Explorer, the user can select collections and areas of interest and apply pre-defined functions to extract analytics aggregating data in the spatial and temporal domains.

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