

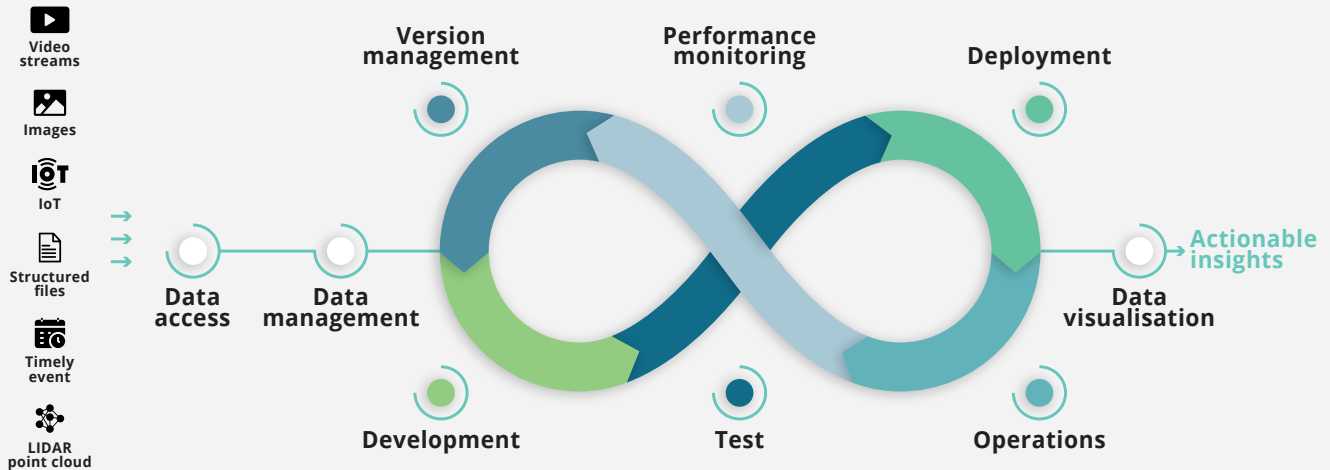


# METIS

## THE BACKBONE OF YOUR AI & BIG DATA PROJECTS

*Unleash the power of data*

METIS is a complete product line to set-up and deploy AIOps and BIG DATA pipelines on any infrastructure and enable organisations extract value from their data in no time



## KEY CHARACTERISTICS

- ✓ Based on proven Open-Source technologies with no contamination risk
- ✓ Micro-service architecture for maximum modularity and interoperability
- ✓ Compatible with all cloud providers and easy to redeploy to prevent vendor lock-in
- ✓ Highly customisable
- ✓ Integrated DevOps approach
- ✓ Integrated monitoring tools
- ✓ Compatible with Cloud, on-premise, and hybrid infrastructures
- ✓ AI-Ready
- ✓ Secured-by-design

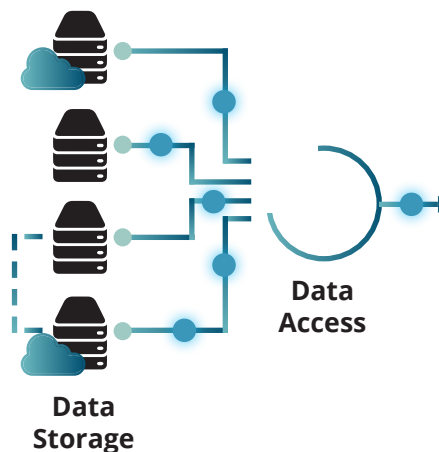
## KEY ADVANTAGES

- ✓ Does not substitute but complete legacy solutions
- ✓ Ensure continuum from development to production
- ✓ Adapt to use-cases specificities
- ✓ Highly scalable
- ✓ Highly adaptive over time
- ✓ Deployed in few days
- ✓ Accelerate time-to-value of Big Data/AI projects
- ✓ Reduce operational/maintenance costs
- ✓ Foster collaboration

## METIS DATA FEDERATION

**METIS DATA FEDERATION** creates a unique access point upon all your heterogeneous data sources, whatever their nature and location. Thanks to advanced indexing/caching mechanisms, data query performances are enhanced. METIS DATA FEDERATION enable to create joints between heterogeneous data sources for complex data queries and cross-analytics.

- ✓ Simplify access to multiple & heterogenous data sources
- ✓ Do not substitute but leverage existing databases
- ✓ Avoid data replications to limit costs
- ✓ Ensure adaptability and scalability of data storage over time
- ✓ Improve performances and strengthen robustness of data queries



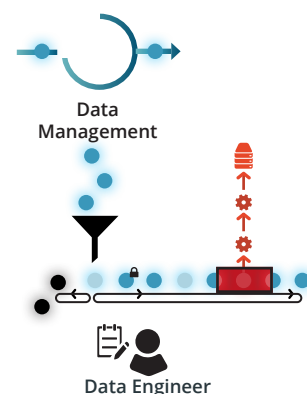
## METIS DATA MANAGEMENT

**METIS DATA MANAGEMENT** enables data owners and data engineers to define and enforce data models, classify data, manage user profiles etc.

It ensures a complete, reliable, and up-to-date view of referential data within your whole organisation and gives your data scientists and users the maximum freedom to operate while ensuring the security of your data.

METIS DATA AMANAGEMENT also provides graphical interfaces to visualise and monitor data and AI model lineage throughout their lifecycle.

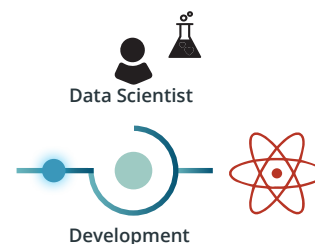
- ✓ Enforce complete and up-to-date views of referential data
- ✓ Secure data privacy and freedom-to-operate
- ✓ Ensure data and AI model traceability



# METIS STUDIO

**METIS STUDIO** is a full-web collaborative Virtual Research Environment (VRE) to explore data and develop new processing chains and AI models. The VRE is composed of:

- ✓ a **prototyping environment to explore, develop, annotate, and visualise in the same interface**
- ✓ an **IDE with debugging tools to turn code into bullet-proof applications**
- ✓ a **virtual desktop for thick-client applications**



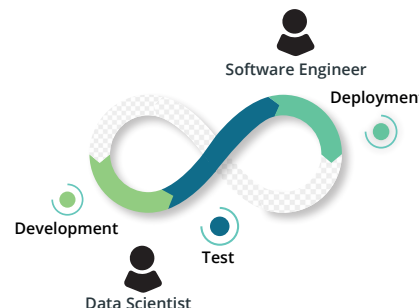
METIS STUDIO includes collaborative tools (WIKI, chat, notebook sharing etc.), the most popular open-source AI and AutoML libraries and tools to build robust data applications that can easily connect to new data sources and scale on different infrastructures.

- ✓ **Explore, code, comment, test and visualise results in the same environment**
- ✓ **Enforce data applications scalability, robustness and interoperability**
- ✓ **Improve POC-to-production success rate**

# METIS DEVSECOPS FACTORY

**METIS DEVSECOPS FACTORY** is a CI/CD software forge that simplifies the test and integration of codes in multi-contributor projects and accelerates the deployment, maintenance and evolution of applications. It bridges the gap between R&D and production thanks to an end-to-end deployment pipeline covering all types of application. It integrates security tests for bullet-proof applications.

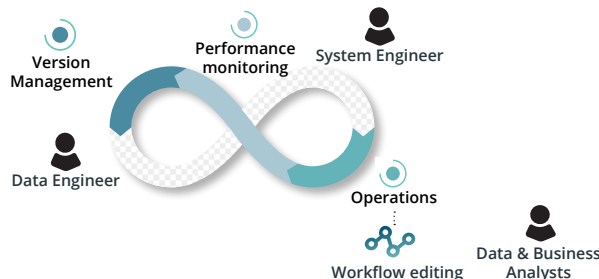
- ✓ **Automate compilation, tests, packaging & deployment steps**
- ✓ **Increase applications update rate**
- ✓ **Reduce applications maintenance costs**



# METIS DATA PRODUCTION

**METIS DATA PRODUCTION** provides a user-friendly interface to build and edit data pipelines with no programming skills. It runs data pipelines and parallelise processing tasks dynamically to provide the best performances and optimise the use of computing resources. METIS DATA PRODUCTION enables to monitor the operations and the performances of the models and manage their versions throughout their lifecycle.

- ✓ **Create & edit data pipelines in no-code**
- ✓ **Orchestrate data workflows dynamically**
- ✓ **Monitor operations & model performances over time**

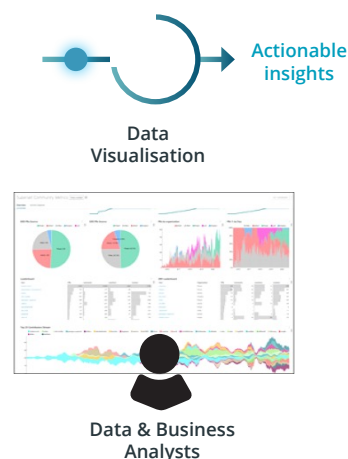


# METIS ANALYTICS

**METIS ANALYTICS** offers fully customisable data visualisation dashboards & tools and provides heterogeneous data fusion capacities for cross-analytics. It integrates full web 2D and 3D rendering engines and tools to develop interactive interfaces.

METIS ANALYTICS is compatible with any Data Visualisation solutions in the market (PowerBI, Tableau etc.).

- ✔ Create customisable dashboards and reports
- ✔ Cross-analyse heterogeneous data through visual rendering
- ✔ Share results through understandable and interactive media



## SUCCESS STORY

### ESA - COPERNICUS PROGRAM

The European Space Agency is operating the Copernicus Program ([www.copernicus.eu](http://www.copernicus.eu)) on behalf of the European Commission. The Earth Observation satellites deployed in the frame of this program are generating petabytes of data every day. To turn this tremendous amount of data into valuable insights, robust, secure, scalable and efficient Big Data infrastructure was required. Based on its METIS product line, CS Group has successfully implemented the first Cloud-native satellite ground segment of the Copernicus program to collect, manage, and transform Earth Observation data into valuable insights for multiple downstream applications.



### CNES/ONERA/IGN/QUANTCUBE TECHNOLOGY/CLS/GEOSAT - AI4GEO

AI4GEO ([www.ai4geo.eu](http://www.ai4geo.eu)) is a collaborative project gathering breakthrough academic institutions and private companies to develop a unique automatic 3D reconstruction and labelling chain from geospatial data. CS Group and its METIS product line was selected by the consortium to implement a collaborative virtual research environment that simplify the access to multiple sources of data, and IT resources, accelerate the development of breakthrough models, and foster innovation through easy collaboration.

