

Orbital systems  
Satellites  
Transversal competencies

**ALDORIA**

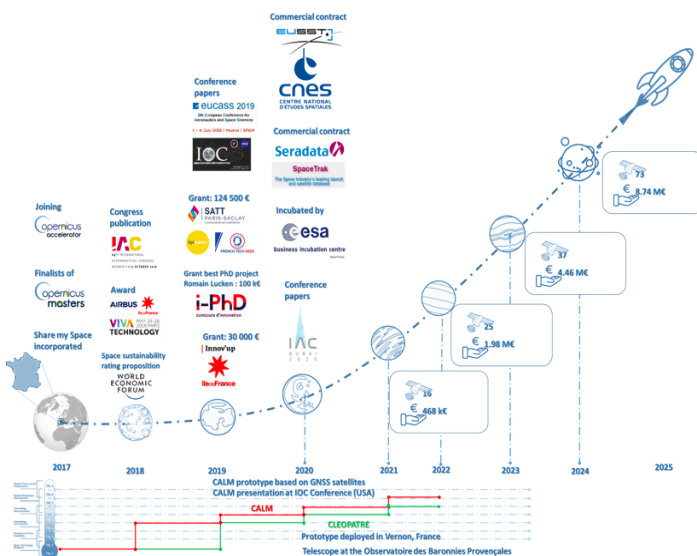
ALDORIA operates in the Space Situational Awareness market and is active in detection of artificial satellites and space debris, their tracking, cataloguing, and prediction of the collision risk. Our mission is to tackle the challenges related to space sustainability induced by the exponential increase of space debris and space traffic. We aim to propose a highly accurate and efficient new generation SSA platform, providing data and services. We also provide Space Sustainability Reports and mission planning studies.

## COMPETENCIES & CAPABILITIES

To date, ALDORIA has developed an ambitious strategy that will enable us to reach a turnover of nearly €45 million in 7 years and to establish a global presence.

It is based on the commercialization of a very innovative technology which uses optical means, and which will allow ALDORIA to index more than 250 000 objects in orbit.

Moreover, due to the background of the team members, ALDORIA has an expertise in plasma Physics, orbital dynamics, and satellite electric propulsion.



# ALDORIA

## PRODUCTS & SERVICES

ALDORIA develops a complete range of products that occur at different parts of the satellite's life cycle. Firstly, we have INDEMN, a congestion simulation tool that occurs at the launch part. Then, CALM, is the space traffic manager software which is our core product, and satellite ID which is the grey card containing the history of the maneuvers and the risks of collision and debris positioning. Those ones take place during the operating period of the satellite, and later we have DRYADE for the debris removal. We also propose MANEXT, a set of algorithms used for maneuver detection and characterization, based on time series analysis of the TLE public catalog, and PADME, a technological project which consists in identifying the properties of the solar wind using deep learning methods that will be integrated on CALM software later.

We also offer some ancillary products: monthly reports and market insights, event intelligence and consulting, and Taylor made services, such as COLA for launchers and in orbit servicing.

## MAJOR SPACE PROJECTS & REFERENCES

ALDORIA obtained a commercial contract with the CNES and Seradata in 2020 and plans to reach 468k€ within 2022.

The long term vision of ALDORIA is to deploy a constellation of satellites that would capture targeted space debris to recycle them in orbit. Keeping this goal in mind, we have been committed in the Space Situational Awareness market since 2017. Within the framework of the SPACEWATCH project, patented technological solutions will be deployed and ALDORIA will benefit from complete independence in terms of object catalog. With 250 000 objects, it will constitute the most complete database in the world.

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**TURNOVER**

**WORK FORCE**

**SPACE TURNOVER**

**SPACE WORK FORCE**