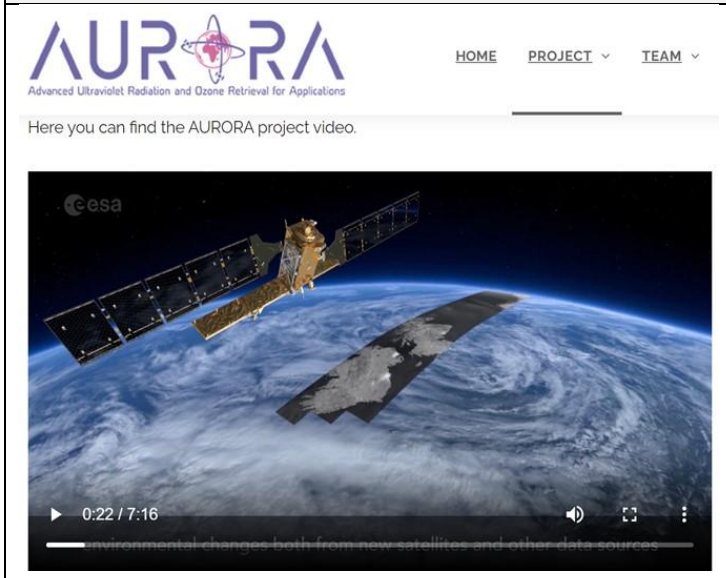
Project Title	AURORA-COPERNICUS: HTTP://WWW.AURORA-COPERNICUS.EU/ ADVANCED ULTRAVIOLET RADIATION AND OZONE RETRIEVAL FOR APPLICATIONS							
Name of legal entity	Country	Contract value (€)	% carried out by **Epsilon**	No of staff provided	Client	Origin of funding	Date (start/end)	Consortium Members
Epsilon Malta Limited	Europe, North Africa, Middle East	2,993,146.25	419,040.475 **2,993,146.25 (Total)**	10	European Commission (H2020)	European Commission, H2020	02/2016 07/2019	9 members http://www.aurora-copernicus.eu/

Description of the project



SCIENTIFIC OBJECTIVES

- to investigate the potential of data fusion and data assimilation to convey complementary information content of measurements by the atmospheric Sentinel LEO and GEO missions into unique geophysical products.
- to focus the exploitation of the synergy between simultaneous and independent measurements of the same target on tropospheric O3 and UV SURFACE RADIATION.

TECHNOLOGICAL OBJECTIVES

- to develop a data platform allowing to pursue the above-mentioned challenges for reduction of complexity of S-4 and S-5 data management and for data quality improvement with respect to the operational outcome of individual instruments.
- to develop a prototype data processing system and demonstrate its capability to work with simulated data as closely as possible to the operational environment.

APPLICATION OBJECTIVES

- to develop two operational downstream services (innovative mobile App for UV dosimetry and tropospheric ozone monitoring application for major cities and regional prediction of air quality) reaching a pre-market version at the end of the project.
- to be compliant with EU/EC Directive

Type & scope of services provided

Key components

- Remote Data Access and Visualization
  - ✓ Web Service Development
  - ✓ Easy-to-use Data Visualization Tools
  - ✓ IT Assessment of Big Data Management Infrastructure
- Source Data Acquisition
  - ✓ Development of interfaces to satellite source
  - ✓ Development of interfaces to in-situ measured data
  - ✓ Development of interfaces to source data provided by external services
  - ✓ Efficient insertion of retrieved source data into the geo-database