From Space, For Earth
A subsidiary of CNES, ARDIAN & IFREMER

A pioneer provider of satellite solutions in oceanography since 1986 for both public and private sector needs
A network of 25+ offices worldwide and 750+ staff, for global solutions.
4 Strategic Sectors Related to Ocean

- Environmental Monitoring
- Sustainable Management of Fisheries
- Energy and Mining
- Maritime Surveillance

Total: 127M€
Our Satellite Expertise

Renowned as a major player in Operationnal Satellite Oceanography
OUR SOLUTIONS & SERVICES

IN SITU DATA

SATELLITE DATA

MODELED DATA

DATA ANALYTICS

DECISION TOOLS
EXAMPLE 1

EDDY WATCH®
Gulf of Mexico
A service with In Situ Data: **Far Horizon Drifter (FHD)**

Designed to drift with the current and not be ‘pushed around’ by winds and waves.

**Over 6,000 FHDs successfully deployed at sea:**
- EddyWatch – Northern Gulf
- EddyWatch – Trinidad/NBC
- EddyWatch – Southern Gulf
- EddyWatch – Brazil
- Oil Spill – *Deepwater Horizon*
- Circulation Studies
A service with In Situ Data: Vessel-mounted ADCP
In Situ Data + Satellite Ocean Data (SST)

Frontal Analysis
In Situ Data + Satellite Ocean Data (SST)

Frontal Analysis

5-days
In Situ Data + Satellite Ocean Data (Ocean Color)

Frontal Analysis
Early Detection by satellite

- Synergy of optical sensors
  - MODIS/Aqua
  - OLCI/Sentinel-3A and 3B
  - MSI/Sentinel-2A and 2B
  - OLI/ Landsat-8

- Normalized Floating Algae Index
- Spatial resolution: 300m -> 20m

Service development & operational demonstration funded by ESA / Open Call EO science for society (2018/2019)
Early Detection by satellite

Detection on 5 June 2019 – 300m
Early Detection by satellite + ocean forecasts
Daily sargassum drift forecast

Drift forecast results for June 7

Detected mats drift is estimated with the MOBIDRIFT model using current and wind forecasts

→ Short term prediction (2-3 days)
→ 11 operational drift areas
As a decision webtool

→ Sargassum Density Indexes & mats detection
→ Daily drift forecast and beaching alert