

Networked Ocean Networked ocean/air vehicles for communications and data collection in remote oceanic areas





Partners











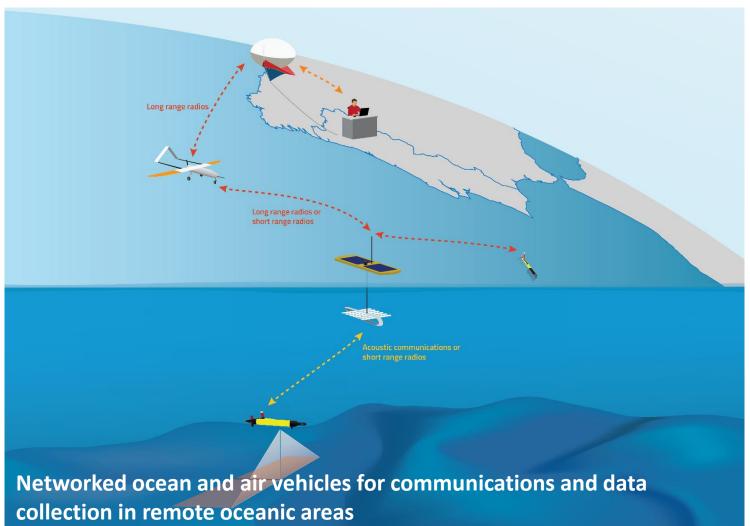




Networked ocean and air vehicles for communications and data collection in remote oceanic areas



Networked Ocean System



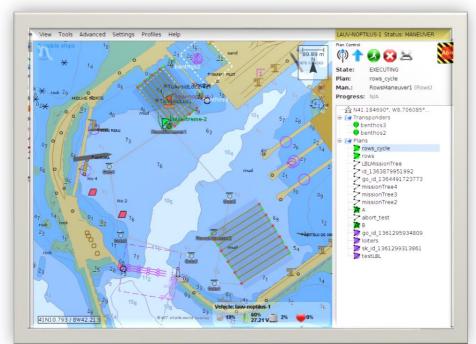
Objectives



- Development & demonstration at sea of a networked vehicle system for persistent communications and data collection in remote oceanic areas.
 - Autonomous surface vehicles support smart routing protocols for direct communications, via persistent unmanned air vehicle (UAV) relays, or delayed data transfer using passing vessels as data mules.
 - Unmanned vehicles have on-board deliverable planning capabilities for unattended operations in remote locations.
 - UAVs use advanced radio technology for long range communications.
 - Land, or ship-based, control stations provide advanced planning and execution control capabilities, as well as dissemination of data to service providers.









Light autonomous underwater vehicle

Inter-operated communication networks
Advanced command and control
Long range flights
Advanced on-board autonomy
Persistent presence in the ocean
Disruptive tolerant networking



Penguin long range unmanned air vehicle



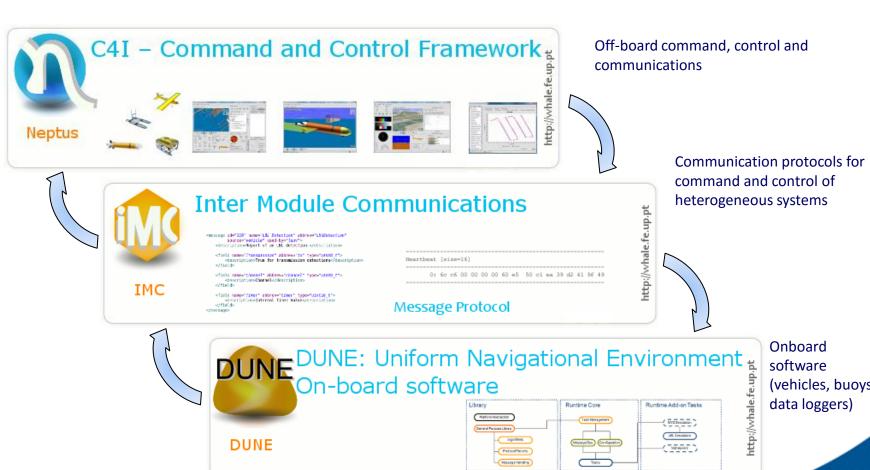
Wave glider

LSTS software tool chain

ICELAND LIECHTENSTEIN NORWAY eea

Field tested every other week with ocean and air vehicles

DUNE



(vehicles, buoys, data loggers)