

2019 | FRENCH
AMERICAN
INNOVATION
DAY
BOSTON



MARCH 18th and 19th 2019 - FLOATING OFFSHORE WIND ENERGY TECHNOLOGY

Panel 2 - Risk, Regulation, and Insurance of Floating Infrastructure

Environmental de-Risking of floating offshore wind projects



AKROCEAN, Who we are?

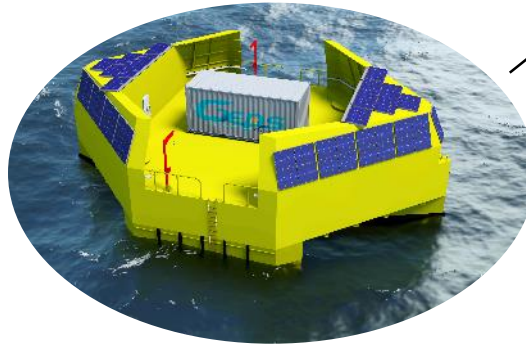


AKROCEAN is a servicing company which provides in situ ocean environmental data as a service.

Target markets:



OFFSHORE
WIND



M.R.E.



OCEAN
SCIENCES

Set up in 2017, **AKROCEAN** is born from GEPS Techno solutions and VALEMO expertise.



AKROCEAN provides Ocean Data As a Service



AKROCEAN INTEGRATES AND OPERATES MODULAR FLOATING PLATFORMS COVERING CLIENT'S ENVIRONMENTAL MONITORING NEEDS.



Context: The need of data Vs. Risks



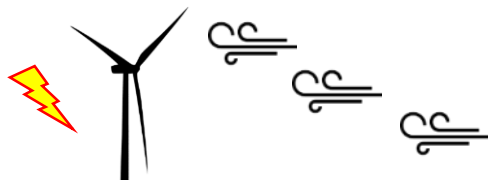
RESOURCE

DATA

- ┆ Wind Assessment

RISK

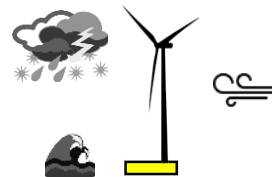
- ┆ Energy yield mistakes
- ┆ ROI delaying



STRUCTURAL

- ┆ Wind, wave, current assessment
- ┆ Physicochemical parameters

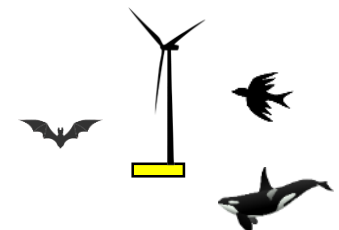
- ┆ Early structure fatigue
- ┆ Structure failures



ENVIRONMENTAL

- ┆ Biology
- ┆ Avifauna
- ┆ Marine mammals

- ┆ Fauna injuries
- ┆ Project delaying



Challenges & FOW Particularities

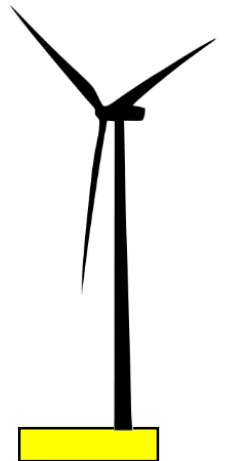


=> To have a representative knowledge of the site conditions

- Best data quality and availability (representativeness)
- Collect a large types of in situ data sets (Multi observations)
- Observation from early planning to decommissioning (cycle life following + REX)

=> FOW Particularities (compared to bottom fixed)

- Maturity level of the technology (additional risk)
- Deeper areas >40-50m (fixed observation not applicable)



Solutions proposal to accelerate FOW development



=> Define a US standard data collection plan

- Already does exist in some states (ex: NYSERDA metocean plan)
- Could be extended to all costal states and include more parameters
- Find data sharing strategies between states, institutions or developers/owners

=> Bring high tech observation at sea

- Last technologies of LIDAR and sensors (range/accuracy)
- Air/Sea 3D detection/imaging/sounding (Sonar/Radar/Lidar)

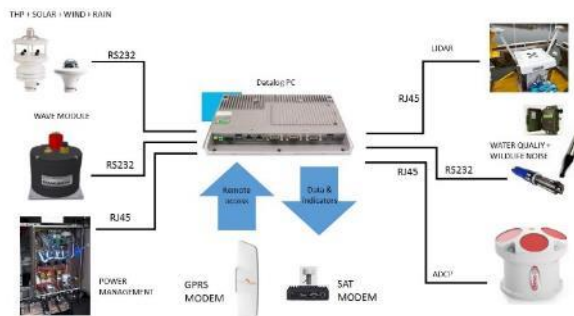
AKROCEAN expertise



DATA

SUPERV 365/7

O&M



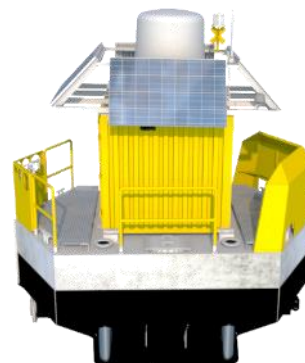
AKROCEAN offers



WINDSEA FLOATING LIDAR



FLY'R SEA FLOATING 3D RADAR



SEAOBS STATION



Call for new ideas & US-FR partnering



Observation need?

Innovative instruments?

New application?



Maxime BELLORGE

Project Sales Director

+33 6 74 18 46 77

maxime.bellorge@akrocean.com

2019 | FRENCH
AMERICAN
INNOVATION
DAY
BOSTON

THANK YOU
QUESTIONS?

