

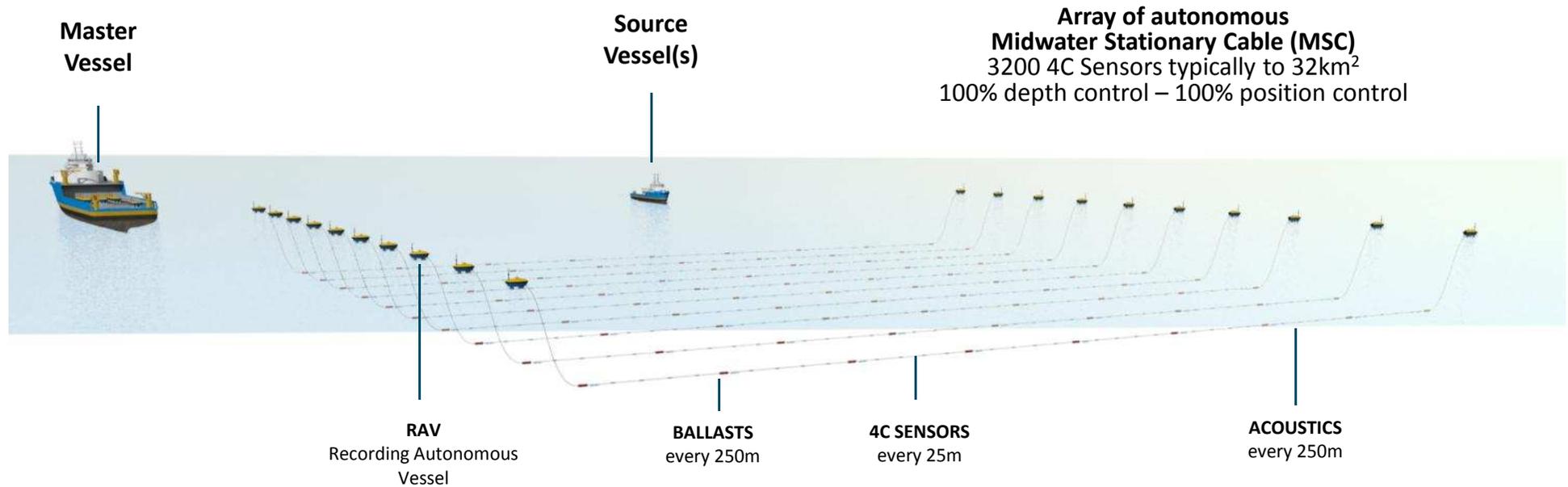
The logo consists of three white, stylized, overlapping shapes that resemble a bird in flight or a sail, positioned above the company name.

Kietta

**Kietta presents its long endurance
multipurpose USV**

23-10-2019

Kietta Solution: System Overview



Specifically Designed Components



Down to 100m: it's not moving, no noise, no weather influence, very little tension



Very good, homogeneous, coupling for Hydro- & Geo-phones



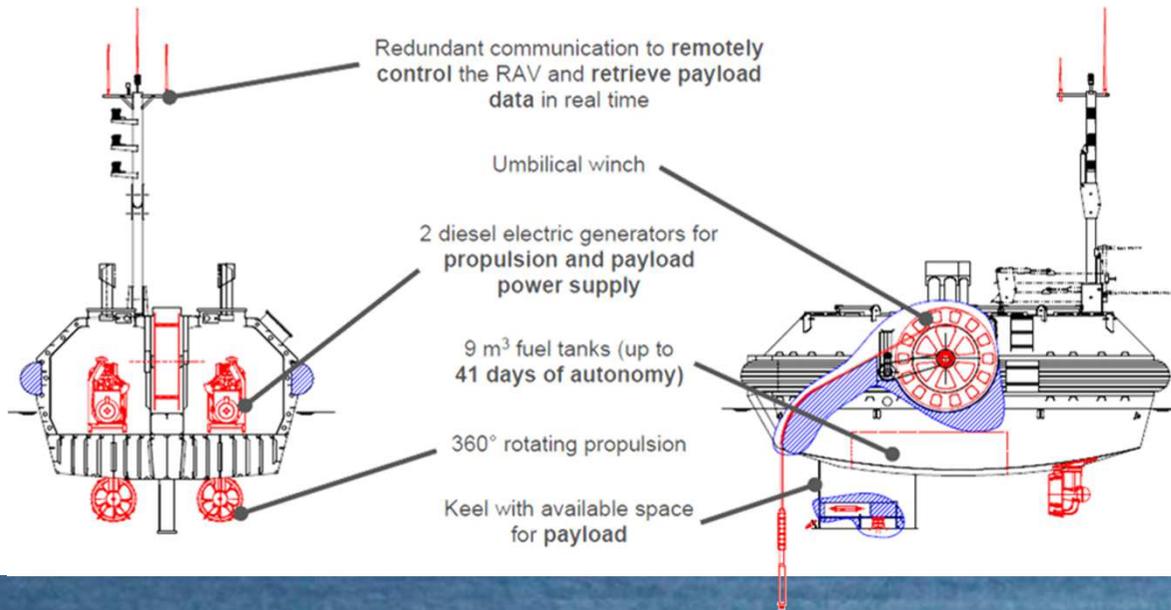
4C sensors in quiet environment gives excellent S/N & Broadband data



Each cable is automated and independent from others → any spacing



The RAV: a long endurance multipurpose USV



Overall size: L x l x H	8.20 x 5.5 x 4 m (bottom keel to deck)
Mast height	5.8 m
Draft	2.4 m
Weight	21 tons
Autonomy	41 days (subject to use and sea conditions)
Power	2 x 100 kW diesel electric generators
Propulsion	2 x azimuthal thrusters
Bollard pull	3 tons
Winch (pulling capacity)	Up to 4.5 tons
Sailing speed	Up to 5 knots
Compartment	3 (electronic room, engine room and thruster room)
Current profiler	300 kHz Workhorse Sentinel ADCP
Positioning	GNSS (PPP) with INS
Radio links	Iridium, UHF, 2.4 and 5 GHz
Others	Anemometer, NTP server, deck camera

Client's payload options

Umbilical	400 m armored cable with data fiber optic and power wire
Keel	Integrated compartment inside the keel.

RAV
*Recording Autonomous Vehicle
for unmanned missions*



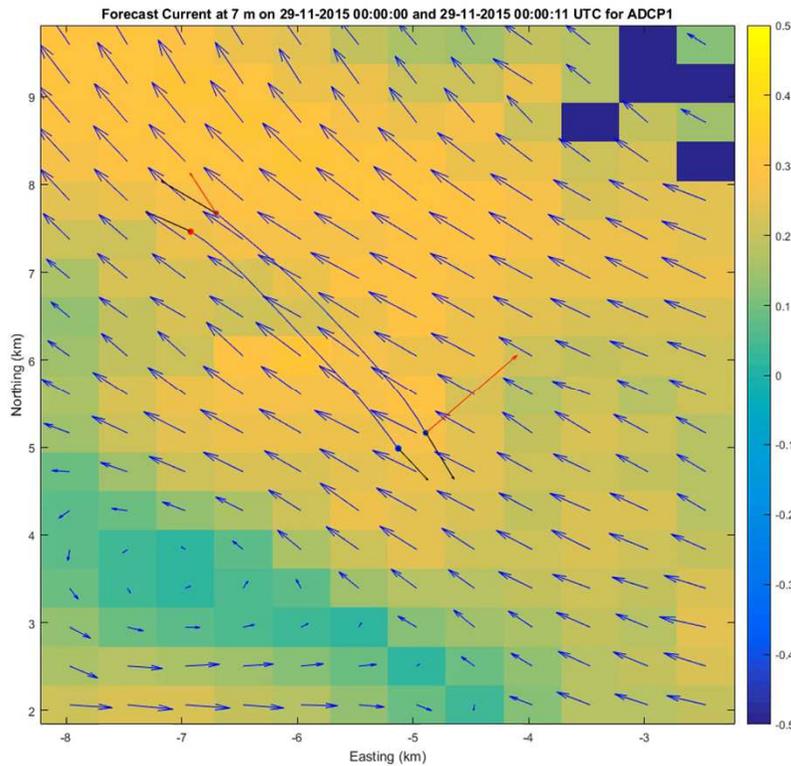
Le système FreeCable testé en Méditerranée et Mer Rouge

Vidéo :

- 2 câbles sismiques de 3km espacés de 300m
- positionnés à 7m sous la surface
- maintenus en position pendant 2 semaines

Photos :

- Contrôle des RAV
- Contrôle de la navigation



Domaines d'utilisation (hors prospection pétrolière)

Mise en place d'un réseau maillé de surveillance de zone

- Zones portuaires ou sans infrastructures de surveillance
- Fermes éoliennes

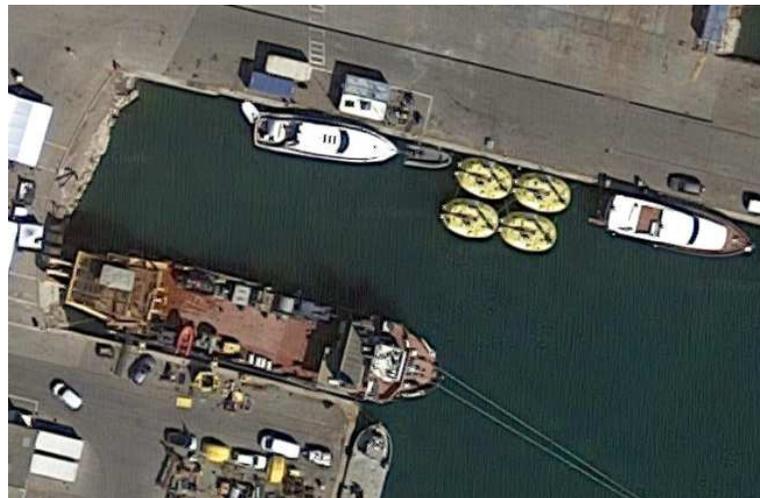
Utilisation des RAVs comme station d'accueil d'UAV, ROV et/ou AUV

- En complément du réseau maillé de surveillance de zone
- En télé opération

Payload installable sur le pont, à l'intérieur ou sur la quille

- Mesures dans la colonne d'eau, en point fixe ou mobile
- Traction d'antennes d'écoute ou de sources acoustiques

Collecte de déchets en mer (plastiques, pollution, Sargasses,...)



4 RAVs à quai disponibles à La Seyne sur Mer