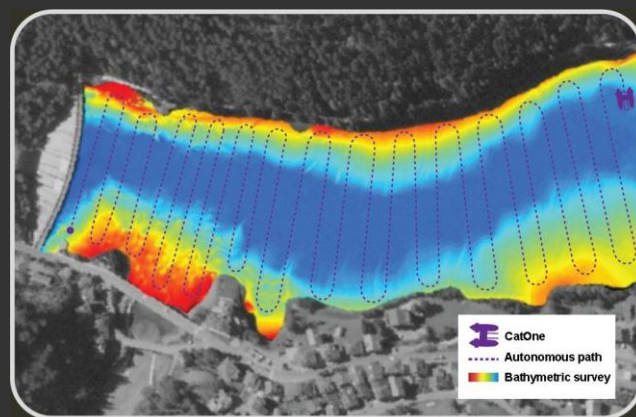


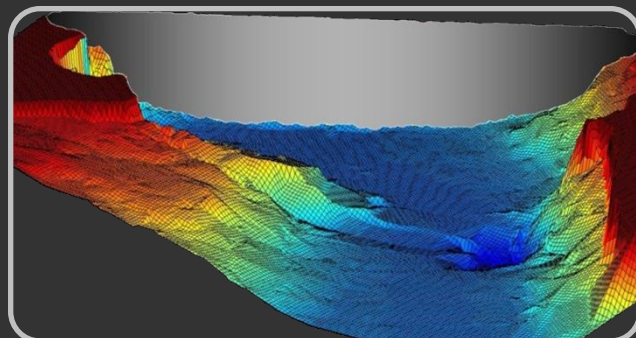


Innovation leveraged to hydro geologic and environmental surveys

- A family of **robotic vessels** for data acquisition, monitoring, patrol and Search & Rescue support
- Adjustable **autonomy levels**, from remote guidance to full automation
- Automation increases the **productivity and quality** of the survey
- The **safe, efficient and economically convenient** alternative to traditional survey methods based on manned vessels
- Particularly suited for repetitive, long endurance tasks, in remote or dangerous areas or in critical environments (*i.e. dam basins, lakes exposed to landslides risks or contaminated areas*)
- Suited also for operation during night, when survey conditions are optimal
- Compatible with environmentally protected areas, such as parks and natural reserves
- Easily customized to customer requirements



Technology on the field



Operating Environment



**Dam basins,
lakes**



**Quarry
lakes**



**Water
reservoirs**



**Rivers,
canals**



Fishfarms



**Harbours,
Lagoons**

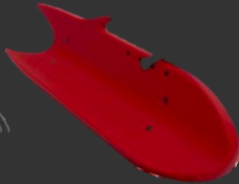
Typical payloads



**Single beam
echosounders**
Water depth



**Multibeam
echosounders**
Water depth
Very Hi Resolution



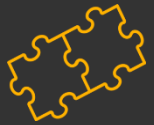
**Sidescan
Sonars**
Underwater
Imaging



**Multiparametric
probes**
Water temperature,
salinity, turbidity, pH,
Chlorophylla, etc



**Electrical
Tomography**
Seepage
detection in
canals



**Customer
equipment**
Call us for new
applications !

Technical characteristics

Length	1.95 m
Width	1.34 m
Draft	Few centimeters, no submerged propellers or rudders (suitable very shallow water with algal growth)
Empty weight	30 kg
Payload	up to 50 kg
Propulsion	Full electric, air propellers
Operating speed	3 kn (6 km/h)
CO ₂ emissions	none
Operations	Day and Night
Navigation modes	Fully Autonomous ↔ Manual Remotely controlled
Endurance	up to 8 h, can be extended with optional battery packs
Operators	one operator can control up to 3 vessels
Logistics	deployable in 10 minutes (transported over the roof of a car or inside a Station Wagon)



The modern solution for:

- Bathymetric surveys in fresh or shallow waters
- Stream profiling with Doppler acoustic sensors
- Leaks detection in channels through electric tomography
- Images and videos collection in water environment
- Water sampling
- Environmental data collection
- Research and experimental activities