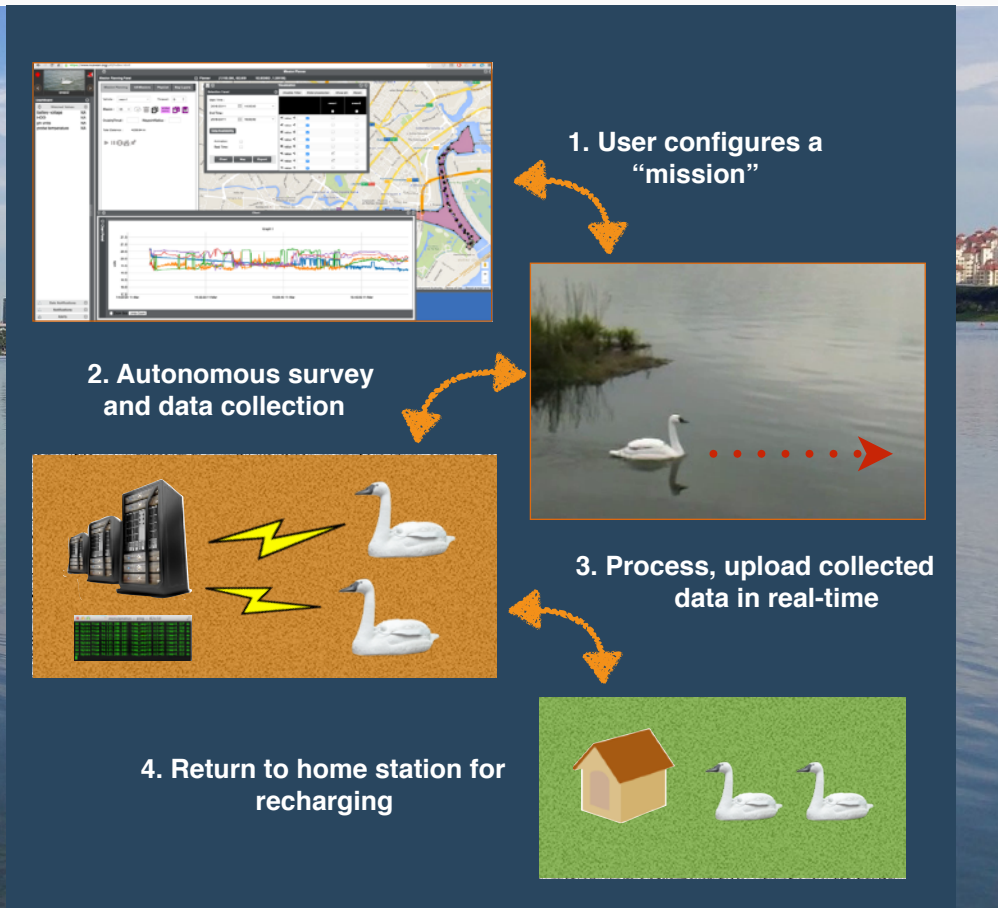
SUBNERO WATER ASSESSMENT NETWORK

Scalable, autonomous platforms that can perform in-situ water quality measurements



FULLY AUTONOMOUS

Team of low-cost robotic "swans" that can navigate autonomously, collect water samples at different locations, take in-situ water quality measurements and upload the results to a central server. Users can monitor from the comfort of their own offices.

CLOUD ENABLED

A cloud-based system allows the operator to adapt missions quickly based on real-time data. Operators can access the user interface from a variety of platforms such as tablets and mobile phones. This enables rapid software updates and improved scalability, thereby lowering operational costs.

EASE OF INTEGRATION

The SWAN supports industry standard water quality probes. Other sensors such as camera, echo sounder can be easily integrated into the system, catering to a variety of applications such as water quality monitoring, surveillance and bathymetric mapping.

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TECHNICAL SPECIFICATIONS

FEATURES	DETAILS
Communication interfaces	SMS, 3G/4G, Wi-Fi (802.11g 2.4 GHz)
Control & navigation	Autonomous (GPS based), 2.4GHz Radio Transceiver
Software & user interface	Cloud based
Endurance	8-12 hours (depending on mission setup)
Battery	270 Wh Lithium polymer chemistry, rechargeable
Storage	128 GB
Supported sensors	GPS, compass, camera, echo sounder
Supported water quality probes	Eureka Manta 2, YSI 6000
Dimensions (base, including thrusters)	70 cm x 40 cm x 40 cm
Weight (typical)	12 kg
Additional accessories	Battery charger, storage stand

EXTENSIVELY FIELD TESTED

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