## We operate the largest fleet of survey

 class USVs
## OPERATIONS

- 130,000 hours of operation
- 1,085 missions completed
- 20 jurisdictions in 4 continents
- 30th $U S V$ hull in production




## LEVEL 3 AUTONOMY

- Remotely operated; persistent orders "follow route"
- USV Pilot monitors execution


## SAFE BEHAVIOURS

- Heartbeat for USV Pilot connection
- Imminent grounding and collision


## REMOTE ENGINEERING

- 3,000 monitored indications
- Redundant critical systems
- Automated checks and trends



## MASS Regulatory Framework

## CURRENT STATE

- Regulatory requirements vary by individual coastal states
- Most are ad hoc risk based, some cross-jurisdiction recognition


## CHALLENGES

- Inconsistent and unpredictable



