



# **ARMADA FLEET UPDATE**

**ANDREW PRICE**

**FEBRUARY 2023**



## IHO STRATEGIC GOALS

- 1.** On-going transformation in navigation, such as e-navigation, autonomous shipping, reduction of emissions, lead to a profound evolution of hydrographic services, in a context of high demands for digital data.
- 2.** The ever-growing applications of marine data entails that IHO takes a more prominent role in cultivating the use of hydrographic data through cooperative and collaborative efforts and identifying the need for collecting more data.
- 3.** IHO's ambition is to be an effective and recognised contributor to the major Ocean related challenges identified by the international community.





**THE FUTURE IS (ALMOST) NOW**

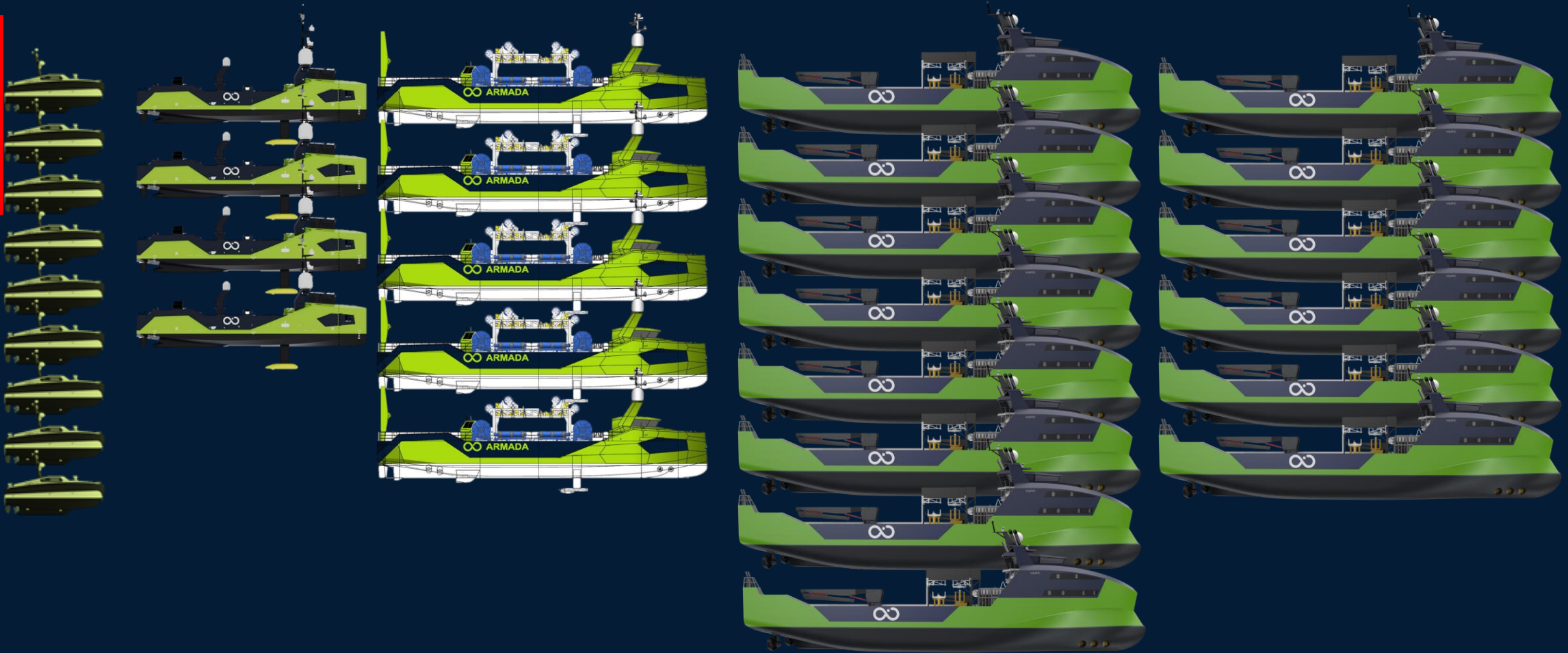


# A FLEET OF 23 LEAN/UNCREWED VESSELS





# WHAT DOES IT MEAN FOR OUR REGION NOW?



# WHAT DOES IT MEAN FOR OUR REGION IN THE FUTURE?

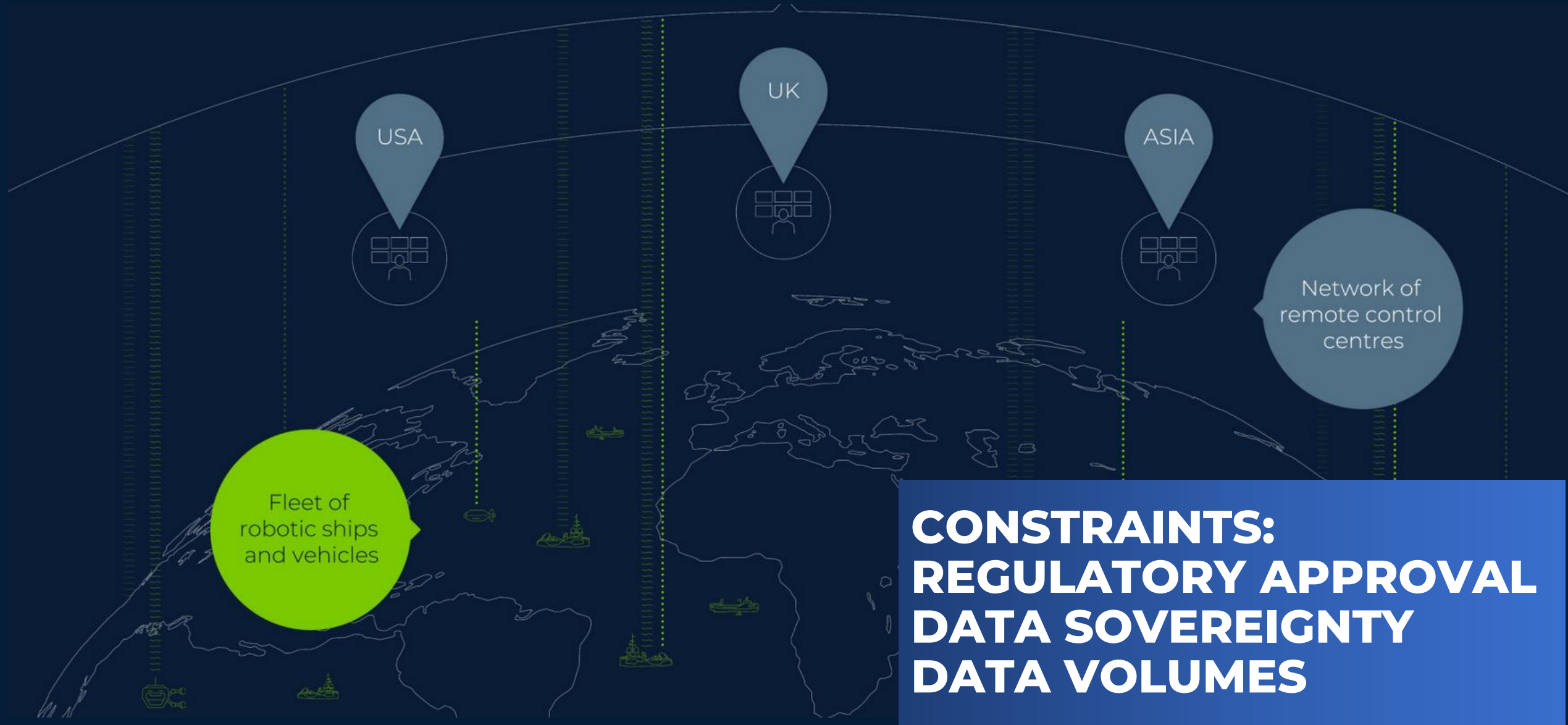




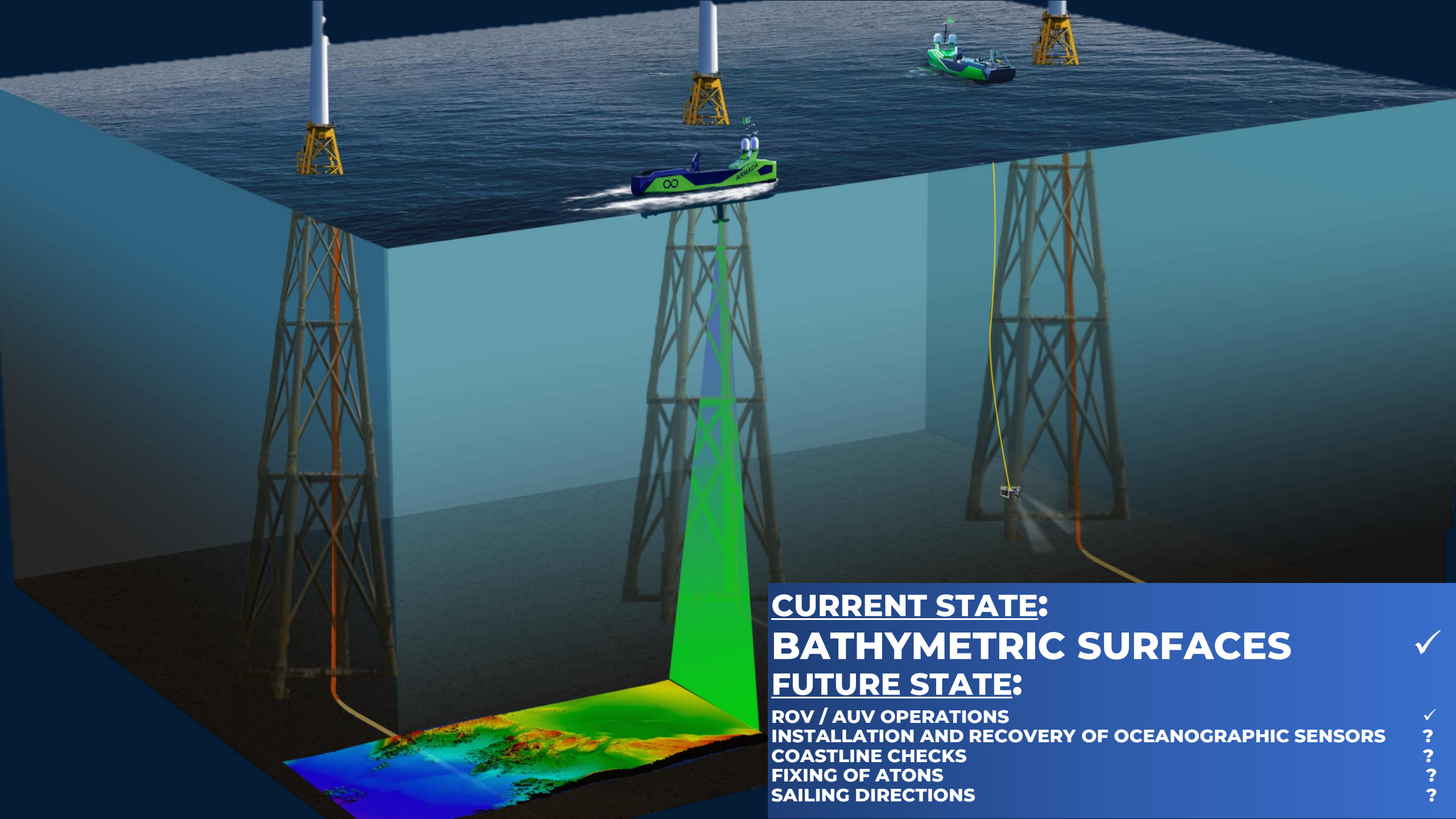
# EVOLUTION OF CONTROL



# REMOTE CONTROL CENTERS / SURVEY CONTROL CENTERS







**CURRENT STATE:**

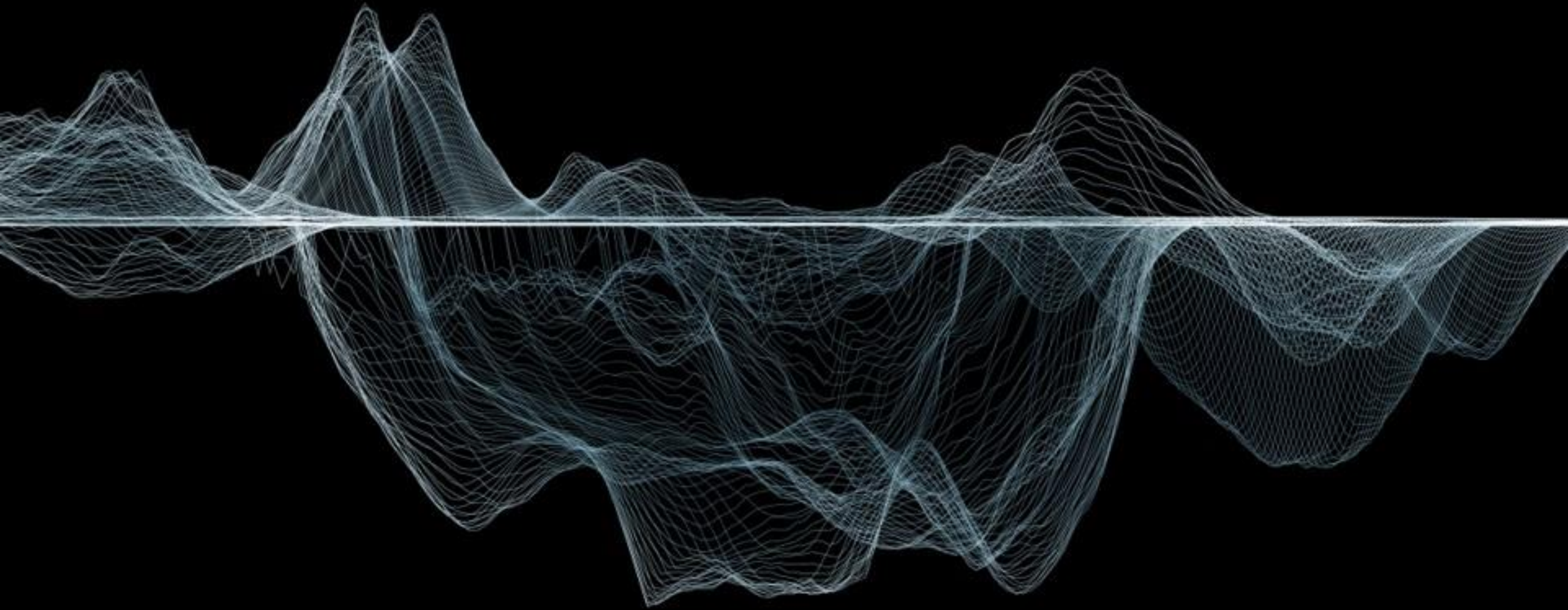
**BATHYMETRIC SURFACES**

**FUTURE STATE:**

ROV / AUV OPERATIONS  
INSTALLATION AND RECOVERY OF OCEANOGRAPHIC SENSORS  
COASTLINE CHECKS  
FIXING OF ATONS  
SAILING DIRECTIONS



# EVOLUTION OF HYDROGRAPHIC SERVICES – MACHINE LEARNING





# OPPORTUNITIES TO ALIGN WITH SEABED 2030



2018 – 120,000KM<sup>2</sup>







**THANK YOU**

**ANDREW PRICE**