



## Next-Generation Autonomous Vehicle

**Dual Development Program** 





### Freedom™ Autonomous Vehicle

Hardware Concept

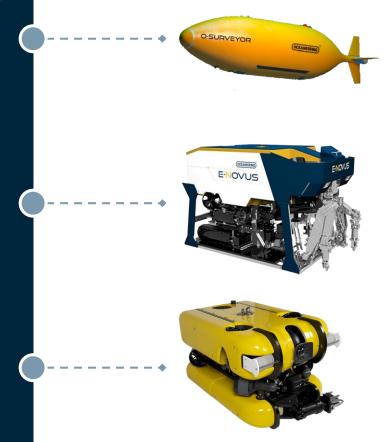


Long Range Autonomous Survey

**Close Visual Inspection** 

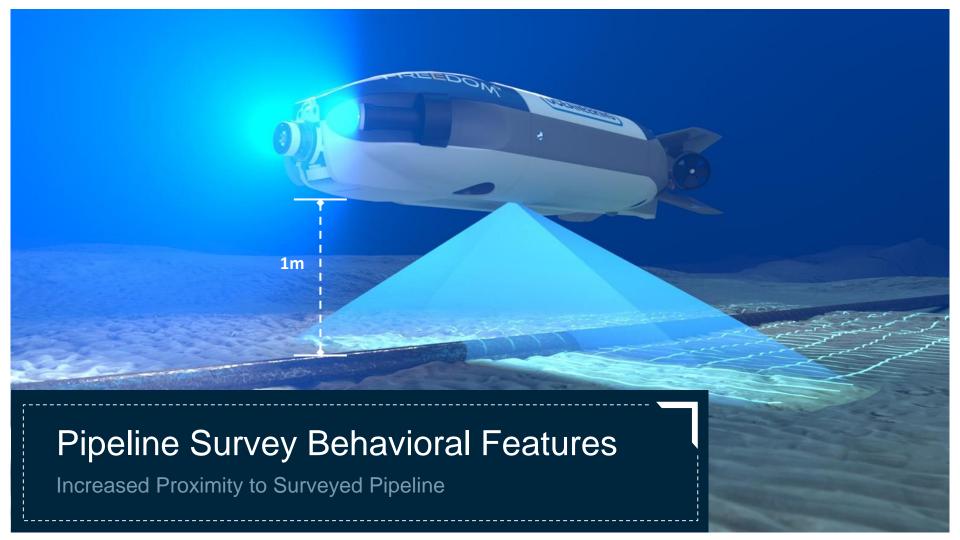
Hovering

Intervention





Robust and Reliable **Toolbox Modules** Backbone for **Toolbox Framework** Robotics Sensors **Industry Standard** Communications Analytics **Defined Integration** Control **Points** Autonomy and More Common Look and Feel for Human Machine Interfaces



### Freedom™ Autonomous Vehicle Pipeline Survey

Freespan Detection



### Freedom™ Autonomous Vehicle Pipeline Survey

Obstacle Detection and Avoidance



## Freedom™ Autonomous Vehicle Pipeline Survey Obstacle Detection and Avoidance **Orbital Survey**



# Freedom TM Development Status











### Pipeline Survey in the North Sea

Qualification to TRL6







