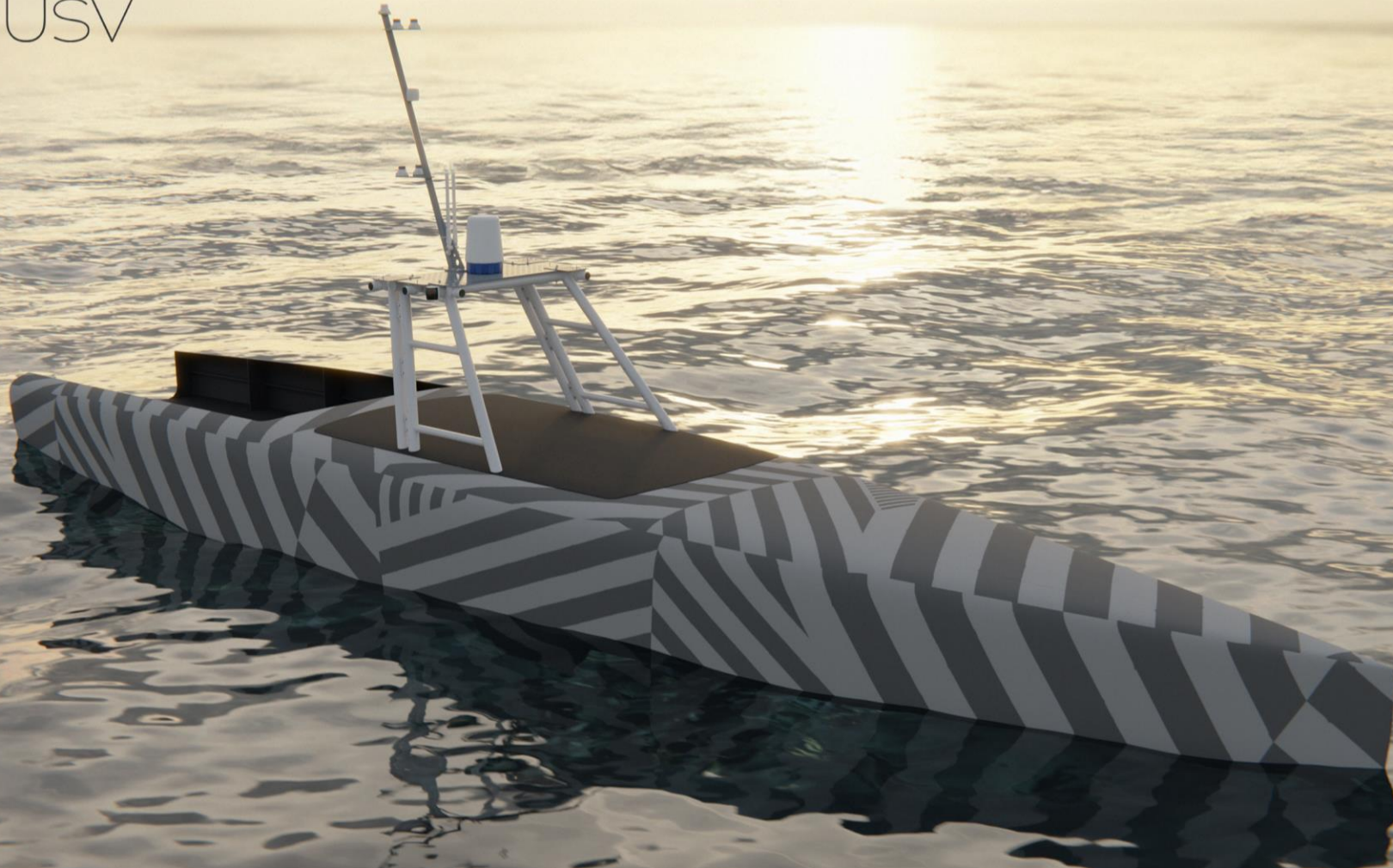


# W-Band Ultra High-Resolution Radar

*The Future of Marine Autonomy*





# Increased Reliance on USVs



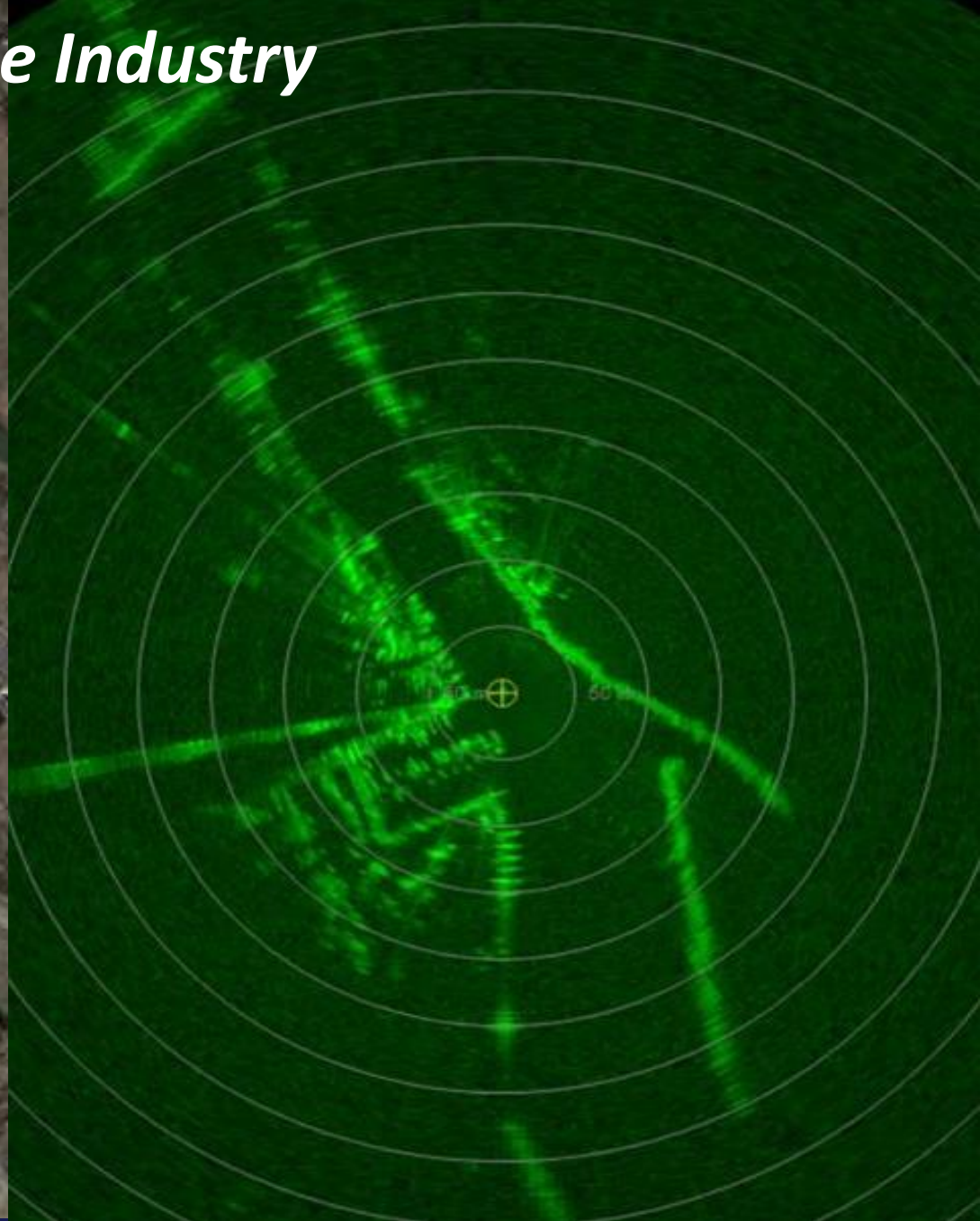


# *Technology Partnerships*



*Zero USV is a new collaboration bringing together more than 50 years' of marine specific design, build, engineering and operational experience into a unique new class of USVs*

# *Radar is Proven Technology in the Marine Industry*



- ✓ All weather and lighting operation
- ✓ *No cleaning and maintenance free*
- ✓ *Long range detection*



# New Capabilities with Ultra High-Resolution 77 GHz Radar



- ✓ 4Hz update rate
- ✓ cm level resolution
- ✓ 1° angular resolution



0 m 200 m

**NAVTECH**  
RADAR

- # New Capabilities with Ultra High-Resolution 77 GHz Radar
- 
- ✓ 4Hz update rate
  - ✓ cm level resolution
  - ✓ 1° angular resolution
- 
- 0 m 200 m
- NAVTECH**  
RADAR

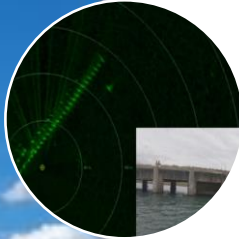




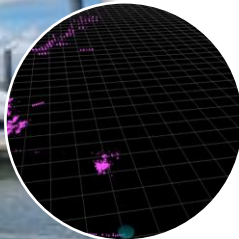
# *Simplified Sensor Integration*



**360-Degree Scanning Radar:** Single sensor, complete coverage.



**SDK for Raw Data Radar Video:** Direct access for full control, with ASTERIX CAT-240

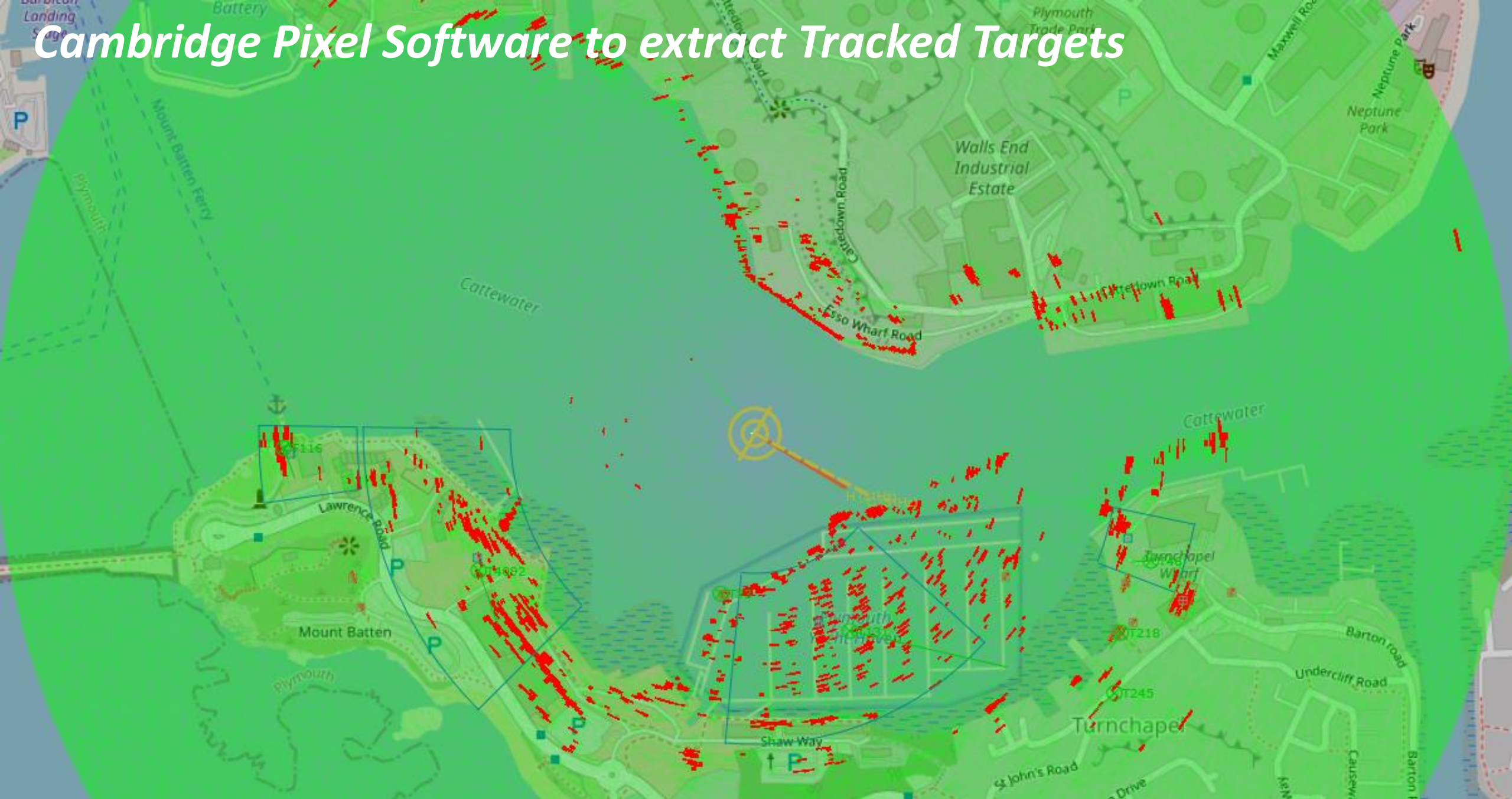


**Plug and Play Integration:** Seamless integration with ROS & ROS2 and existing radar software i.e Cambridge Pixel.



**Simplicity vs. Competitors:** Minimal cables reducing failure points, no complex calibrations.

# Cambridge Pixel Software to extract Tracked Targets



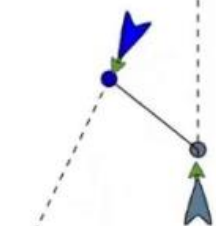
The image shows a map of a coastal area, likely in Plymouth, UK. The map is overlaid with numerous red pixelated tracks, which represent tracked targets. Several blue rectangular bounding boxes are drawn around specific areas of the map, highlighting regions of interest. Key locations labeled on the map include 'Cattewater', 'Mount Batten', 'Walls End Industrial Estate', 'Turnchapel Wharf', and 'Barton Road'. A yellow circle with a crosshair is positioned in the center of the map, indicating a specific point of interest. The map also shows various roads, including 'Lawrence Road', 'Shaw Way', 'St John's Road', and 'Undercliff Road'. The overall scene suggests a maritime surveillance or tracking operation using Cambridge Pixel Software.



# Applications Engineer Support





CONTACT INFO  
ID: 2184

State: COLREG Range Crossing - Give Way  
Range: 143.2m  
CPA: 00:00:18  
TCPA: 00:00:18

50.34219 -4.13263

SOG 005.6kts

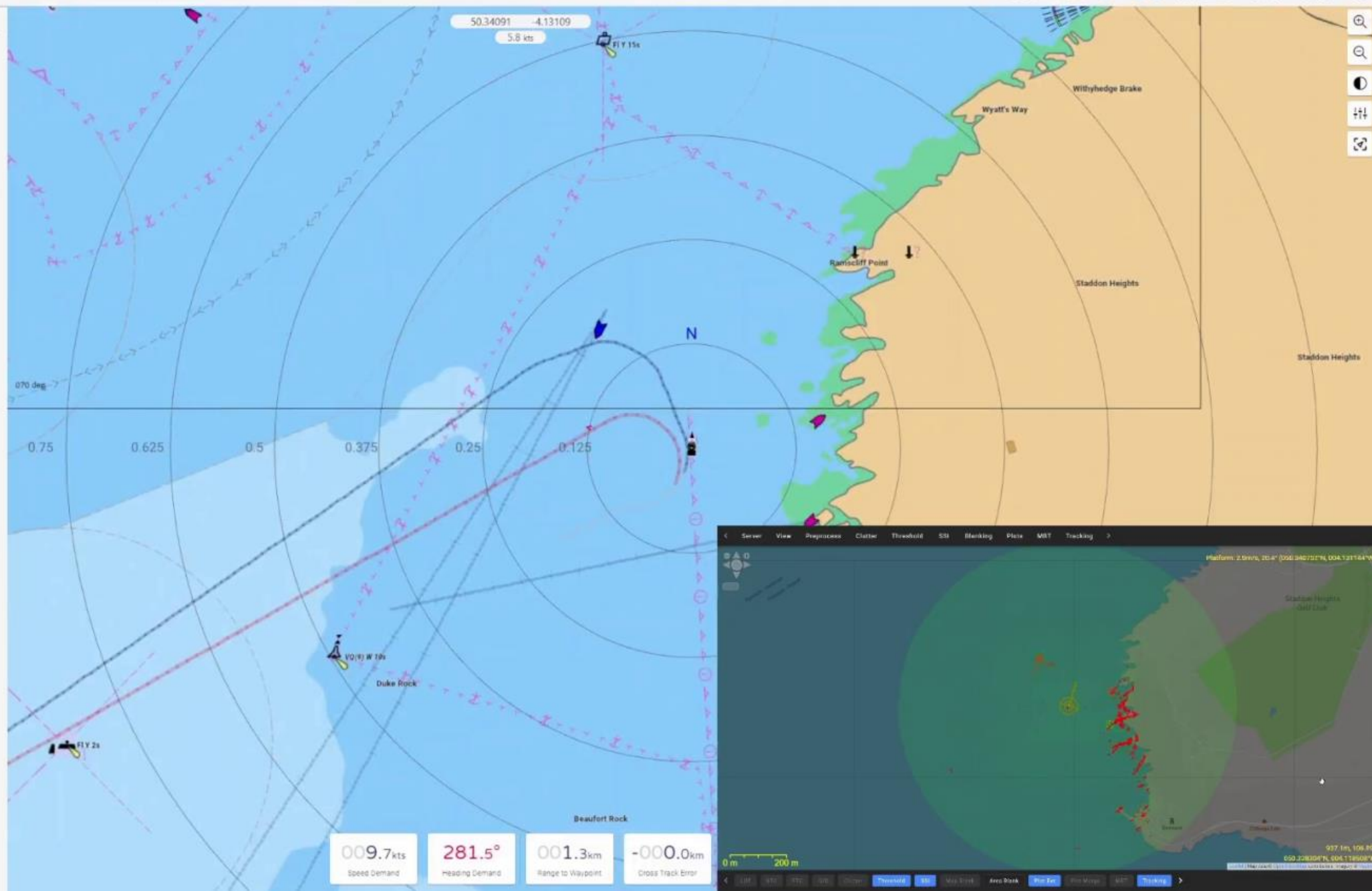
COG 206.7°

000.2km

321.1°



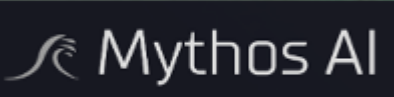
78.3 %





# Join the Ecosystem

- Navtech has a 20+ year history in deploying over 5000 high resolution radars to mission critical applications
- Team of application engineers to support your trial
- Raw data available integrated with SDK with ROS, ROS2, C++ .NET DLL, Python drivers



DARTMOUTH



Marine AI Ltd  
Manned / Unmanned Safety & Autonomy

**BAE SYSTEMS**





**Rachael O'Connor**

Business Development Manager – Marine

[rachael.oconnor@navtechradar.com](mailto:rachael.oconnor@navtechradar.com)

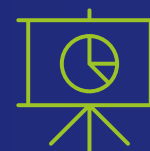
[www.navtechradar.com](http://www.navtechradar.com)



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