



# UDRC Themed Meeting on Signal Processing in the Underwater Environment – 25<sup>th</sup> March 2021



The Science Inside

Hosted by: Signal Processing research group

School of Electrical Engineering,  
Electronics and Computer Science



UNIVERSITY OF  
LIVERPOOL

# Welcome to the University of Liverpool



# UoL Signal Processing Research Group

- Led by Professor Simon Maskell and Professor Jason Ralph
  - With Dr Angel Garcia-Fernandez, Dr Murat Uney
  - Group is approximately 47 people... and currently expanding
- Currently working with a large number of governmental and industrial partners, including:
  - Sonar: Dstl, Thales, Ultra, Atlas, National Oceanography Centre (NOC),...
  - Tracking: Dstl, Leonardo, Thales,...
  - Route Planning and Navigation: Dstl, MBDA, Raytheon UK,...
  - Machine Learning: Dstl, MBDA, Thales, Leonardo,...
  - Distributed Computing: Dstl, IBM, Schlumberger,...
- Project 'BLUE' – Bayesian Localisation in the Underwater Environment
  - Three-year Dstl funded research grant, UDRC Application Theme
  - Working with National Oceanography Centre (NOC)
  - Aimed at using modern efficient Bayesian methods for Sonar Signal Processing

# UDRC Themed Meeting on Signal Processing in the Underwater Environment

- Session 1 – Underwater Signal Processing
  - BREAK
- Session 2 – Tracking and Monitoring
  - LUNCH
- Session 3 – Industry Concerns
  - BREAK
- Session 4 – Autonomy and Situational Awareness