

A nighttime photograph of Belfast Harbour, featuring modern buildings and a marina with boats. The scene is overlaid with a digital graphic of blue light trails and a grid of dots, suggesting a smart or digital port. The text 'a port for everyone' is centered in the upper half of the image.

a port for everyone

**Belfast  
Harbour**  
A Vision to 2035

Smart Ports Summit, London Feb 2020

## Belfast Harbour

- Handles two thirds of NI's trade
- 10th largest UK port by cargo
- Largest UK port by physical size
- 8km of quays, 30km roads
- 700 businesses, 27,000 people
- 5 million tourist and leisure visitors



## Smart Port within Our Strategy



- Low-tech starting point
- Key enabler of our strategic ambitions
- Opportunity to partner with Belfast City
- Leverage the Harbour Estate as a testbed
- Stimulate the local knowledge economy

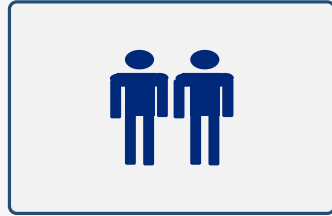


# Technologies in current scope

Cyber



Digital Twin



Mobility



Cloud Computing



Big Data



Artificial Intelligence



Internet of Things



Port Community System



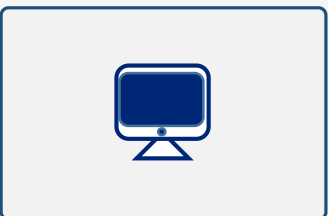
Connectivity



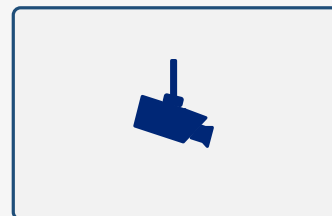
Automation



Enterprise Applications



CCTV



VR / AR



Drones



Design



## Challenges

- Quantifying Value
- Encouraging Innovation
- Access to Expertise
- Overcoming Scale problems

## Priorities

- Connectivity and a Digital Fabric
- Mobility solutions
- Internet of Things and Sensors
- Information sharing across the wider Port Community
- Digital Twin

## Digital Twin

- More agile approach to dredging
- Opportunities above the waterline
- A means to collate and navigate our digital assets
- Mobile Access