

# CONNECTED PLACES CATAPULT

Technology and Skills in Maritime

Paul Wilson

### WHO ARE CONNECTED PLACES CATAPULT

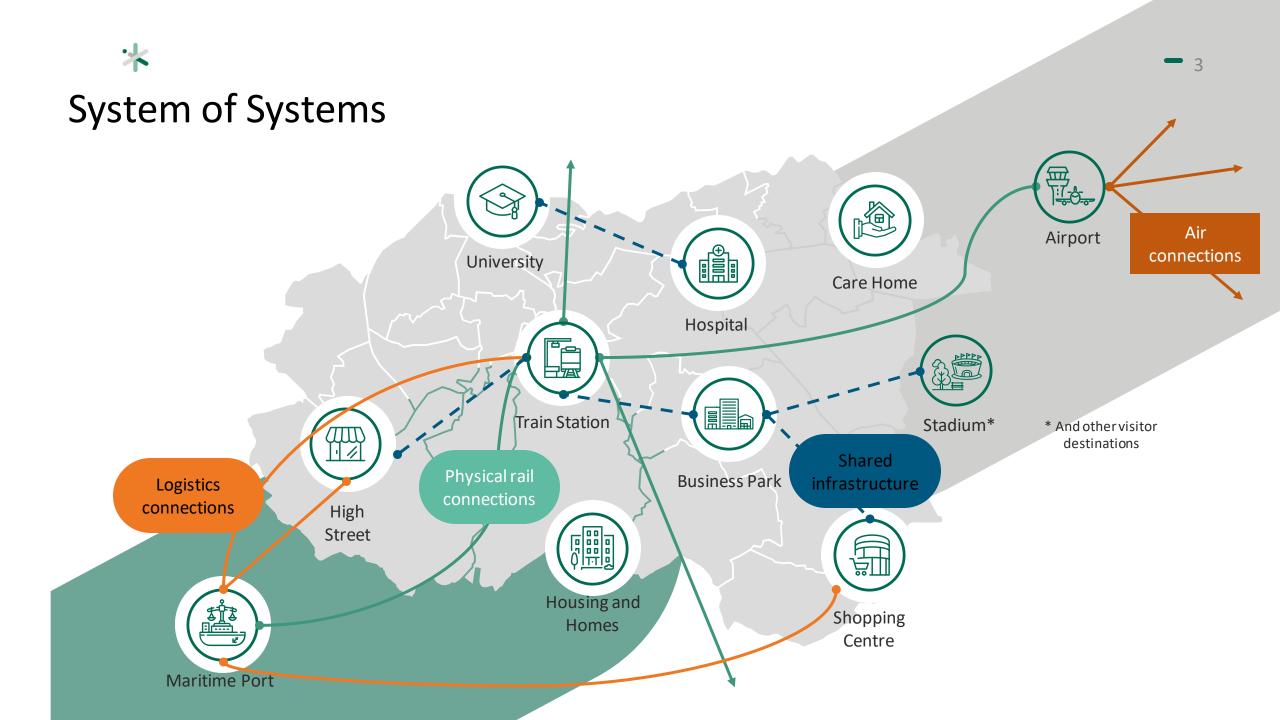
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#### Catapults

- 9 Catapults across the UK.
- World leading centres.
- Transforming and accelerating the UK's capability:
  - For innovation
  - Future economic growth.

#### Connected Places Catapult

- Innovation Accelerator for Cities, Transport and Place Leadership.
- Connecting places for the future
- People's Experience.
- Connected Intelligence.
- Climate Action



#### **Connected Places Catapult**

### Ports and Maritime @ CPC





• Freeport innovation hubs

Modal shift to waterways



# **TECHNOLOGY AND SKILLS**

#### Challenges

- Lack of digital skills.
- Cyber security challenges.
- Legacy systems.
- Large number of stakeholders.
- Future fuel handling skills.
- Stranded assets.

#### Opportunities

• Recruiting talent from a new sector.

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- Upskilling current employees.
- Improved processes.
- Improved efficiencies.
- Reduced Green House Gas Emissions.
- Improve the sectors image.

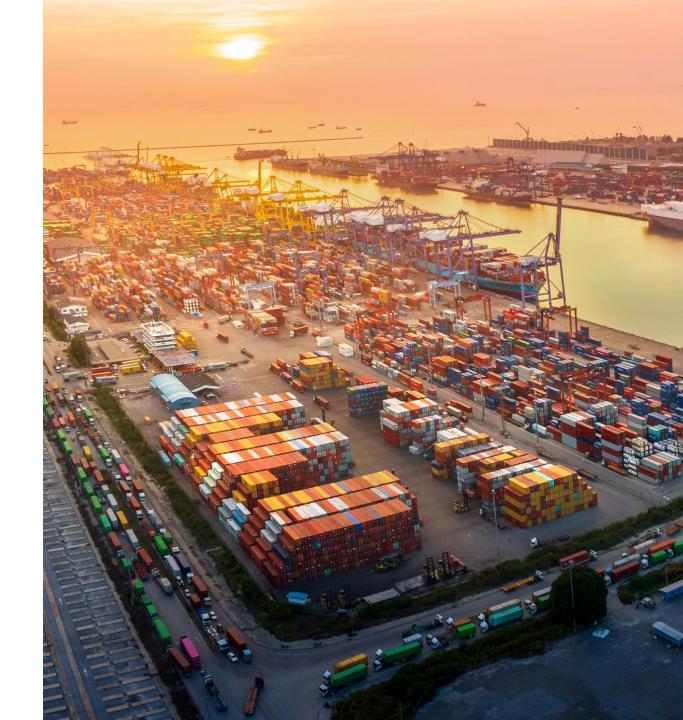
### Smart Ports and Logistics – Technology Perspective

Whilst not taking a technology led approach, future systems should consider the significant advances in sensing, computing, communications, and data analytics:



### **EXAMPLES**

- Virtual & Augmented reality for training Chrome Angel
- Remote / Autonomous terminal tractors. Ant Machines
- Statistics and AI optimising scheduling and forecasting. Ensemble Analytics
- Carbon capture stacks Mission Zero Technologies
- Drone security patrols Unmanned Life
- Future fuel infrastructure -Unitrove



# HOW YOU CAN HELP!





Engage with others share successes and failures.

(F)

Record challenges as they come up.



Explore ideas with SMEs.



# THANK YOU

Any Questions?

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