HOW THE DIGITAL TWIN HUB AND DIGITAL TWINS CAN TRANSFORM COASTAL SMART CITIES

Justin Anderson and John Holden
Digital Twin Hub

DIGITALTWINHUB.CO.UK
John.Holden@cp.catapult.org.uk
Digital Twin Hub
HOME OF THE CONNECTED DIGITAL COMMUNITY

4887 Members
83 countries
54 Case Studies
41 Sectors
535 Articles & Resources
DIGITAL TWIN MATURITY MODEL: THE PORT OF THE FUTURE

A maturity model developed by:
The British Ports Association and the Port of Rotterdam
Use Case Example:

Bibby Marine and Connected Places Catapult are creating a digital twin of an electric Service Operation Vessel.

Level 1: Digitalisation of individual parties in ports
1. Operational Headquarters
2. Bibby Marine’s electric Service Operation Vessel or other shipping vessel
3. Green Fuel
4. Autonomous loading and offloading vehicle

Level 2: Integrated Systems in a Port Community
Level 3: Logistic chain integrated with wider networks

1. Operational Headquarters
2. Shipping Vessel
3. Green Fuel
4. Autonomous Loading and Offloading vehicle
5. Highways and Roads Network
6. Renewable Energy
7. Rail Network
8. Telecoms Network
Level 4: Connected Ports in the Global Logistics Chain

- Connected Places Catapult and the Association of British Ports (ABP) are currently developing a strategic plan to link up the 23 ports within ABP. Then to link their ports up with the greater port network.
1. What maturity level do you believe your city is at?
2. How do MIMs relate to Digital Twins?
3. What key changes could you make to improve the maturity of your Digital Twins?
BENEFITS OF MEMBERSHIP

All new members can sign up to the Hub for Free

Members can Connect with Digital Twin Practitioners around the Globe

Members can Access resources, toolkits and industry case studies to build business cases for investment

digitaltwinhub.co.uk
THANK YOU

John Holden
John.Holden@cp.catapult.org.uk