Launch of the Digital Twin Hub
The DT Hub: CDBB is delivering a collaborative web-enabled community

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The Digital Twin Hub

• A **collaborative web-enabled community** for those who own, or who are developing, digital twins within the built environment, and is intended to ensure that **knowledge and experience is shared** to maximise learnings. The DT Hub will involve the wider digital twin community in developing a framework that works for everybody.

• Leaders within the built environment are urged to:
  • build consensus and iterate on the **Gemini Principles**
  • Help to develop, implement and then validate the **Information Management Framework**
  • Develop **Gemini-compliant digital twins**
Objectives of the DT Hub

- Learning and sharing experience
- Showcasing the benefits and creating case studies
- Innovating and advancing the state of the art
- Creating a support network
- Capturing good practice and developing guidance
- Providing a register of key work on digital twins
- Enabling pilots to fill the gaps
- Promoting the adoption of the Gemini Principles and IMF
- Enabling the National Digital Twin
Why a hub?

- Learning by Doing
- Overcoming by Sharing
- Succeeding Together
How does this help the NDT?
Digital Twin Pioneers – DT Hub Phase 1
Common Challenges

• What is a Twin?
• How do we make all data accessible to the Twin?
• How do we manage legacy assets?
• What approach are others taking?
• How do we integrate with assets we consume rather than own?
• What solution should we use?
• What skills do we need?
• How do I get executive buy-in?
Do we need to define Digital Twins?

Use of Digital Twin by external services for additional insights

Physical Twin

Data

Outcomes

Physical Interventions

Insights

Digital Twin

Data Enrichment

Automated Analysis

Human Interventions & Assessment

Outcomes

Physical Interventions

Data
Aspiration – Achieved through iteration

West Cambridge Digital Twin project – Institute for Manufacturing
**When?**

- **Now**
  - Register through the CDBB website to join the existing DTHub Lobbies and remain informed and engaged with upcoming initiatives.

- **Next**
  - Release of the Online DTHub Platform with a continued growth in the overall membership
DT Hub Steering Group Objectives

To guide the establishment of Digital Twin Hub and to drive the community by providing guidance through:

- a **roadmap** to indicate the evolvement of Digital Twins and identification of the resulting business values.
- a **survey of current use of digital twins** across the sectors.
- a **complexity Matrix** outlining in a clear manner the uses and complexities related to the creation of Digital Twins.
- a **report outlining a strategic approach** to guide the incorporation within industry and government.
- a collection of **best practices** for escalation to the Commons strand of the IMF.
- **support to both practitioners and company executives** as they look to adopt and evolve their use of Digital Twins.
- **guidance and consultation to the members** of the Digital Twin Hub to accelerate and facilitate addressing Digital Twin challenges.
Engage with the DT Hub

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