Digital Twin Thread

Global Innovation & Digital Engineering

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Digital Thread - ASSET LIFECYCLE ECOSYSTEM

Engineering Data

Asset Data

ENGINEERING DEVELOPMENT | **3D MODEL DEVELOPMENT** | **CONSTRUCTION DEVELOPMENT** | **HANDOVER COMMISSIONING** | **OPERATIONAL EFFICIENCY**

Delivery System

Data-Centric

Asset Performance

- Engineering Data Model
- PID
- Instrumentation
- Electrical
- 3D Model

- **2D Drawings**
- **3D Modeling**
- **4D Schedule /Time**

- Construction Management
- Procurement System
- Specification Management
- Supply Chain Management
- Schedule system

- **7D, 8D Sustainability**
- **6D Operation**
- **5D Material status / Cost**

- IoT Data Acquisition Management
- Operator Training System
- Operational System
- Asset Performance System

Portal – Digital Information Hub

Integrated Project Execution

Operation Integrity

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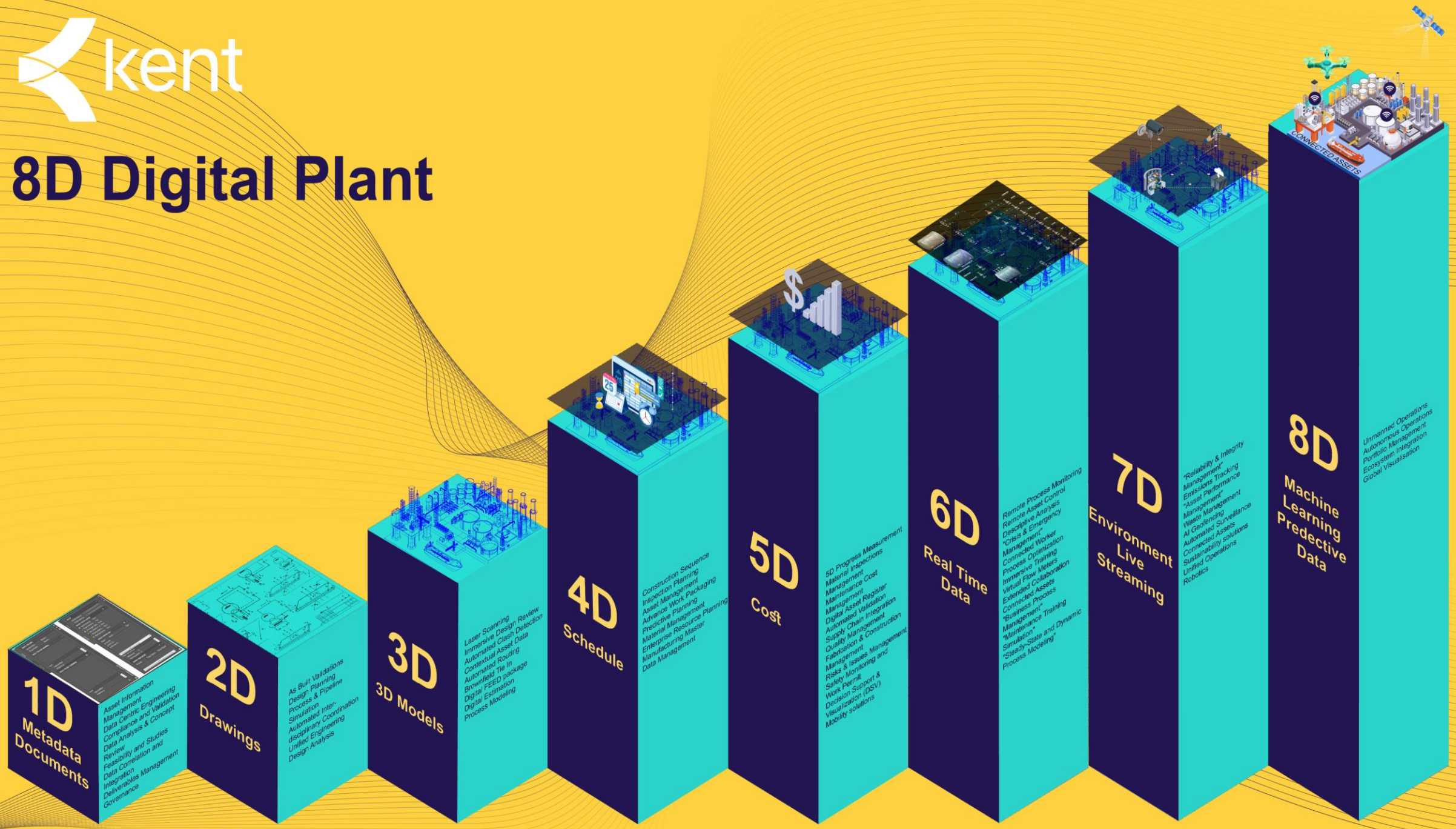
8D Digital Plant



Concept Developed by: Wassim Ghadban

8D Digital Twin Concept

1D Metadata Documents

2D Drawings Native Files

3D Model

4D Schedule

5D Cost

6D Real Time Data

7D Live Streaming

8D ML Predictive Data

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