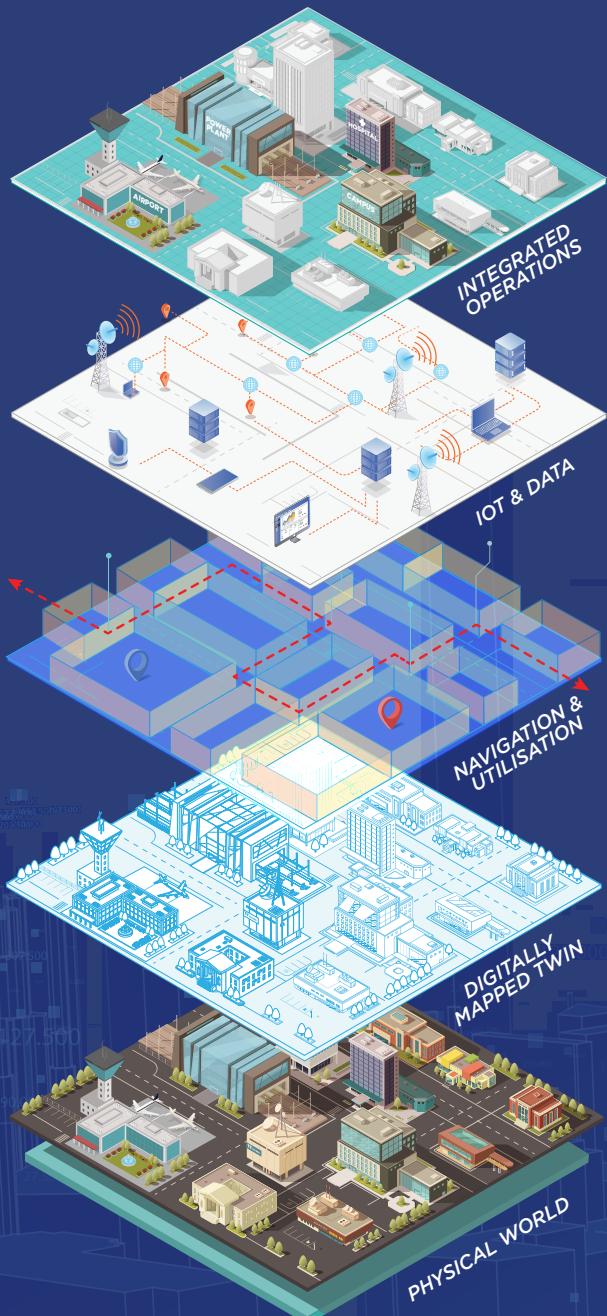


# AGIL® Digital Twin

3D Intelligence for Situational Awareness and Operational Efficiency





At ST Engineering, we drive innovation with AGIL® Digital Twin, a real-time AI-powered platform that maps physical spaces into immersive 3D digital twins for smarter management and spatially intuitive visualisation.

By combining real-time data layers such as IOT, computer vision, multi-sensor data and advanced analytics, it delivers spatial intelligence for enhanced situational awareness and operational efficiency.

With capabilities like facial recognition, behavior detection, people flow analysis and heatmapping, it optimises facility operations while seamlessly integrating with existing systems to ensure scalability, streamlined management and stronger emergency response.

AGIL® Digital Twin offers you seamless integration of information layers into unified platform for enriched user experiences and AI-enhanced operational efficiency.

ST Engineering Singapore Campus Floor Detailed Dashboard Layers

**2D/3D Map-based Operations Management**

**Campus Alerts**

- BMS System Alert: HVAC Unit 3 offline Just now
- BMS Asset Fault Detected - Location-based alert for investigation or supplier support 2 minutes ago
- Energy consumption 25% above normal 5 minutes ago
- Smart lighting sensors malfunctioning 12 minutes ago

**Campus AI Analysis**

BMS System Alert - Energy Optimization

**Mobile-ready for Navigation & Way-Finding**

**Campus - Floor**

**Building Occupancy & Utilization**

**Classroom Utilization by Department**

**Peak Usage Hours**

Browser-based web application - Lightweight to deploy

# AI-Enhanced Integrated Operations

## People & Asset Tracking

Together with CCTV and other tracking technology (such as Real-time Location Systems), AGIL® Digital Twin provides spatial context for precise, real-time monitoring of individuals, crowds and assets. This capability supports applications such as people counting, crowd analytics and queue management-critical for enhancing efficiency and safety.



## Building Management Systems (BMS)

AGIL® Digital Twin integrates seamlessly with BMS systems from any provider. It is also capable of controlling the connected BMS systems, by leveraging on AI and machine learning, to regulate energy, aircon and water usage to optimise efficiency and achieve significant cost savings.



## Simulation Sandbox

AGIL® Digital Twin also serves as a simulation sandbox, enabling realistic simulations for operations (CONOPS) planning, resource allocation and infrastructure development. By iteratively refining simulation models with real world data, your organisation can optimise workflows, anticipate challenges and make informed decisions.

**Let us reimagine your operations with  
AGIL® Digital Twin**



Airports



Transport Hubs



Hospitals



Sport Facilities



Retail



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