Bridging the Physical & Digital Divide in Infrastructure Workflow

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Why Digitise?



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How do we do more with less?

Optimised project decisions & automated processes ... looking across the full life-cycle ... based on the best possible project information



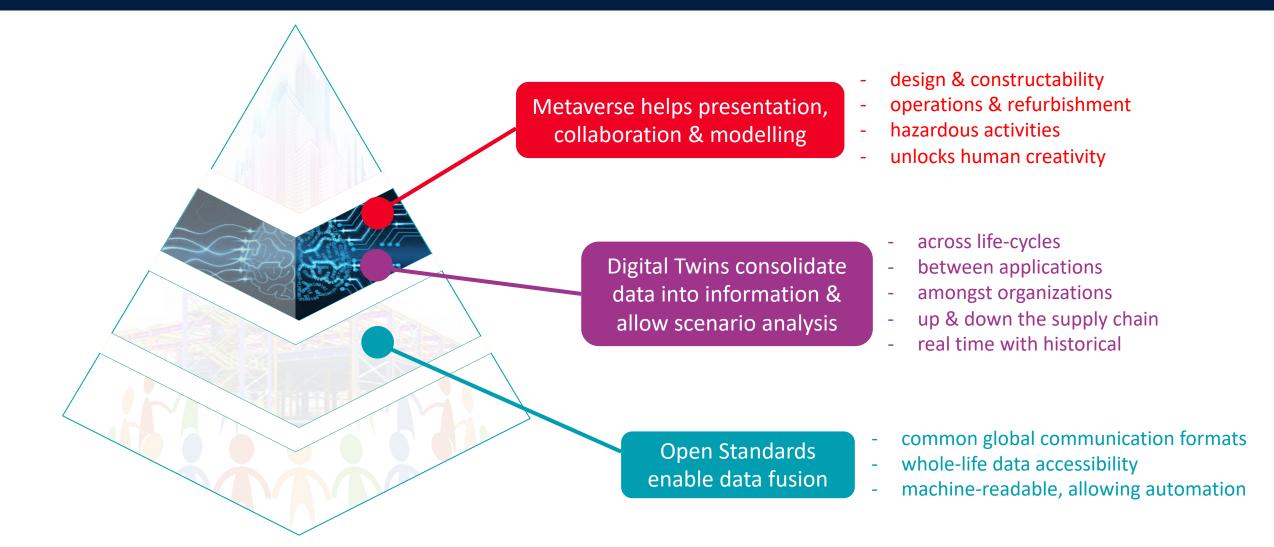
The buildingSMART Context



buildingSMART International



How to Optimize Decision-Making?



Evolution of Open Standards

User Vision

Mission

Deployed Standards & Services

When

- Consistent data communication standards
- 1 Drive Adoption of current standards
- 2 Automated connectivity between applications
- **Deliver & Drive Adoption**of enhancements to current standards

- 3 Ecosystem with seamless integrated decision support
- 3 Design, Deliver & Drive Adoption of next generation standards

Ecosystems of Digital Twins

Automated Simulations

Next generation Data Standards, with built-in modularity, extendibility & connectivity (IFC 5); Certification ecosystem

Interface Standards (APIs)

Linking and Extendibility of Data Standards (bSDD, IDS)

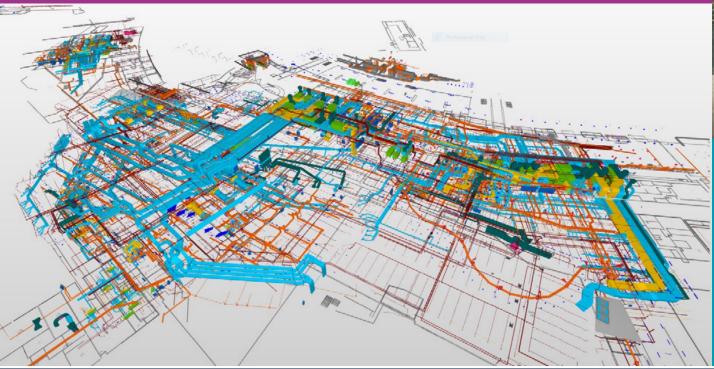
Current Data Standards (IFC, UCM, IDM); Professional Certification

2022 2023 2024 2025 2026 2027



openBIM in Action – Auckland Airport

- 100+ models geolocated & exported to IFC
- 250,000+ existing structure elements modelled
- Merged BIM+GIS property sets for lifetime management
- Increased innovation; reduced time & cost





"openBIM enabled us to do more with less by being free to work between multiple tools ... It puts the output at the centre, which in the reality of a client organization is what matters most."

Karl Fitzpatrick, Auckland Airport



Looking Ahead

How close are we to this digitalized world?

What are the real-life success stories?

How can we accelerate progress?

