TP6D: Next Steps in Thinking Spatially



Panel

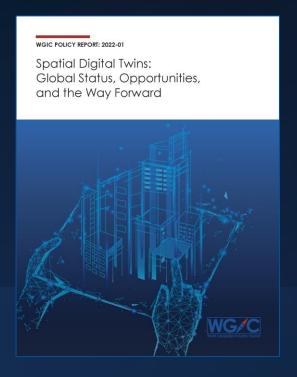
Speakers:

 Thalia BALDWIN, UK Geospatial Commission, United Kingdom

2. Kean Huat SOON, Singapore Land Authority, Singapore

3. Barbara RYAN, WGIC, The Netherlands

Next Steps in Thinking Spatially



Barbara Ryan
Executive Director
WGIC





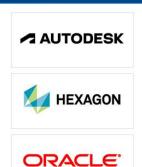
World Geospatial Industry Council

A global not-for-profit trade association of private sector companies working in the geospatial ecosystem.



Patron Members

Corporate Members





planet.

Bentley'
Advancing infrastructure



























Associate Members































Patron Members

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Associate Members























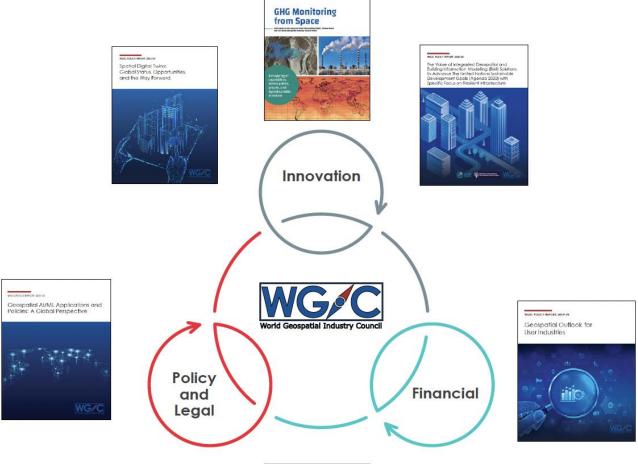








IGIF Strategic Pathways & WGIC Policy Research



GEO GOSTAN ON THE WG/C









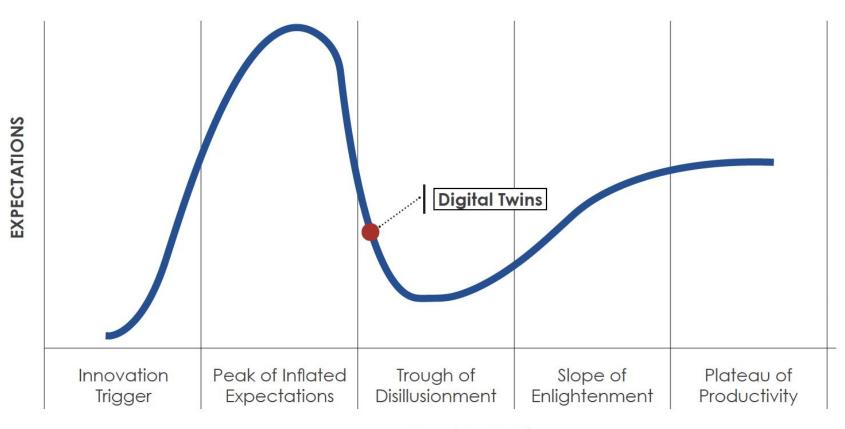
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WGIC POLICY REPORT: 2022-01

Spatial Digital Twins: Global Status, Opportunities, and the Way Forward



Digital Twins - Gartner Hype Cycle



Source: Gartner (July 2022)

WGIC's Future Vision for Spatial Digital Twins

- Every Digital Twin across the globe is updated in real-time, with information flows from sensors/ inputs underpinned by spatial data
- 2. Information is shared across Digital Twins so that every Digital Twin can be aggregated or connected
- 3. Every stakeholder can broadly access this ecosystem, navigate to their area of interest, and access information at the right level of detail for their use.

Local Digital Twins have a wealth of detail for Site- or Product-Specific decision-making



National Digital Twins aggregate data from local/municipality/gov't datasets



Regional/ Global Digital Twins aggregate national data from all available data sources.



Current State Assessment

Five key areas need to be established for Spatial Digital Twins to integrate into business-as-usual and everyday life.



1. Standards, Definitions and Current Technologies align and communicate with each other,



For Spatial Digital
Twins to become
integrated into
business-as-usual
and everyday life:



2. There is capability/capacity to develop Digital Twins across all voxels,



3. Use cases solve organizational problems or demonstrate public benefit,



4. There is a level of cross-industry demand, and



5. End-client demand is driving development of Spatial Digital Twins.













Spatial Digital Twin Initiatives Identified



Australia

• Digital Twin Victoria



European Union

Destination Earth (DestinE)



Germany

 BKG Digital Twin Project



New Zealand

Wellington Digital Twin



Singapore

Smart Nation Initiative



United Kingdom

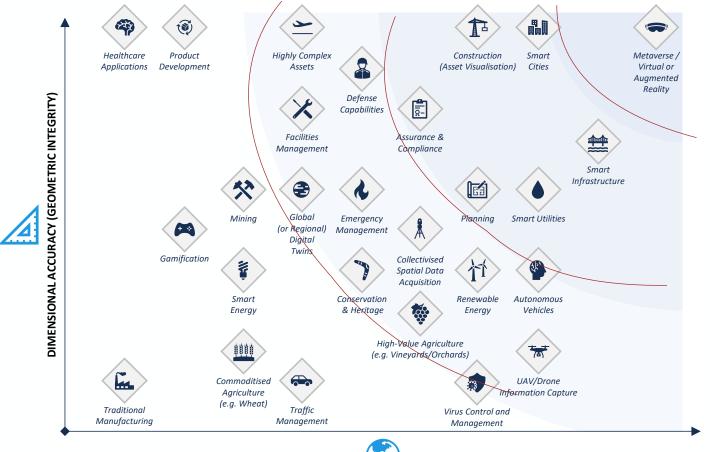
National Digital Twin initiative



United Nations

 Digital Twins of the Ocean (DITTO)

Spatial Digital Twins – Use Case Assessment



WGIC identified Twenty-seven use-cases linked to various business or organizational needs.





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