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WOOLPERT

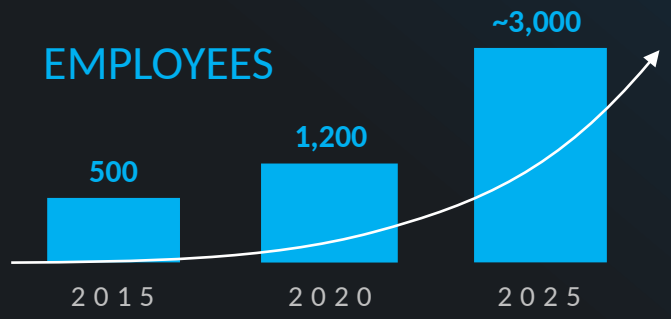
WOOLPERT

Architecture . Engineering . Geospatial

HIGHLY RATED, GLOBALLY RESPECTED

75+

Global Locations

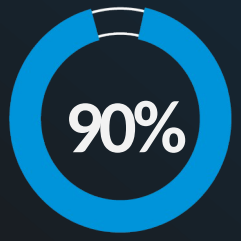


Our tech-enabled and global architecture, engineering, and geospatial (AEG) approach is unique and highly effective.

We have a strong, diverse portfolio across critical and growing end markets.

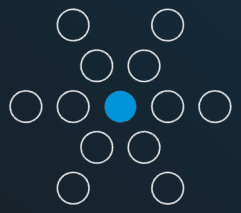
We focus on people, culture, and creating a Great Place to Work.

15
Companies Acquired Since 2019



Client Referral Rate

200K+



Projects Completed Across 6 Continents and 50 States

Years of Client Service

Global Top
100
Geospatial Company

GREAT PLACE TO WORK® 8 YEARS

2024 GEOAWESOMENESS AWARD
GEO AWESOME

HOT FIRM ZWEIG GROUP RANKED #8 IN 2024

ENR Engineering News-Record 2025 ENR TOP US DESIGN FIRMS (#39)

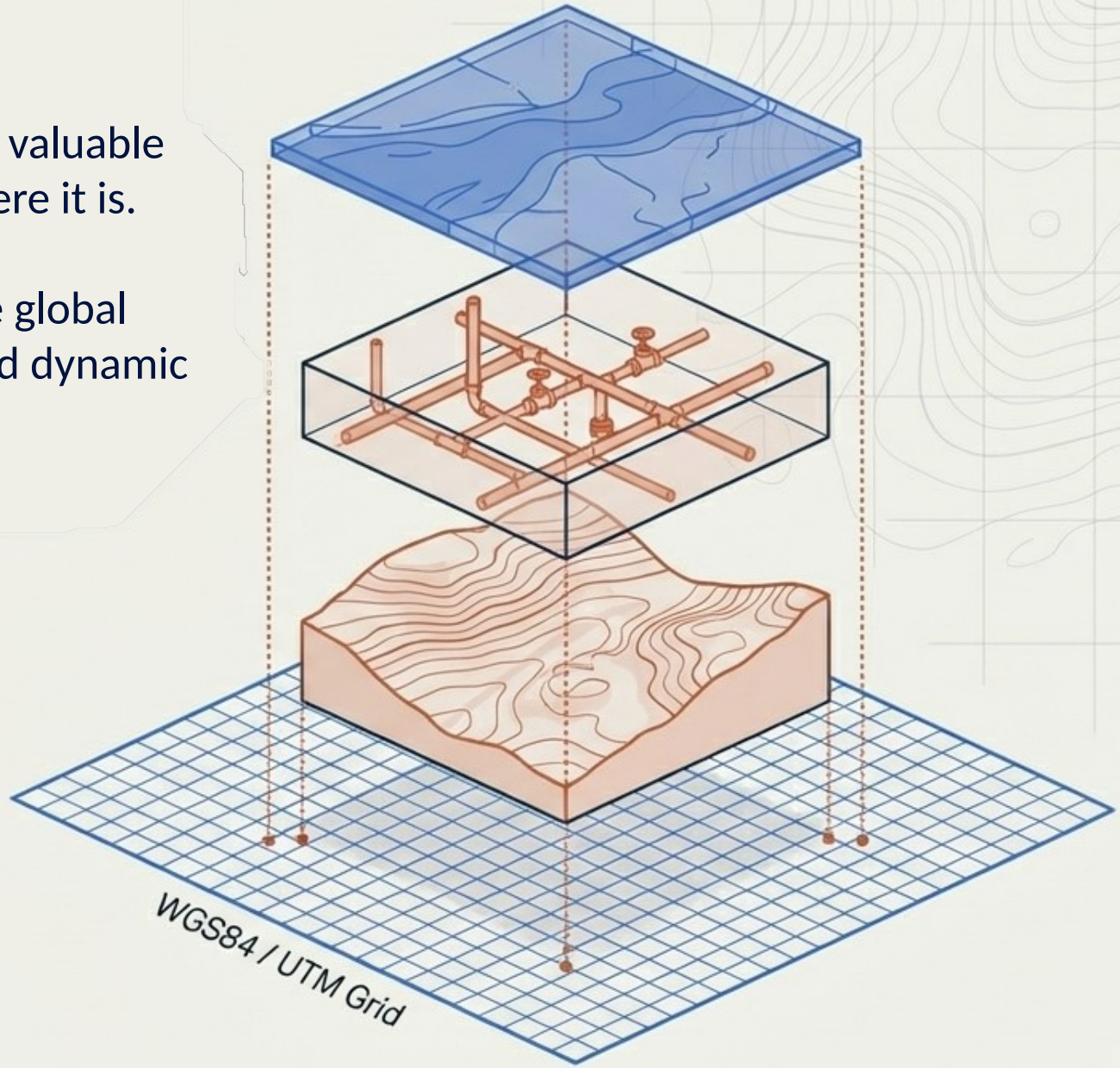
The Evolution: From AE(C) to AEG(C)

	Traditional AE(C) (Architecture, Engineering, (Construction))	**AEG** (Architecture, Engineering, Geospatial)
Workflow	Often linear and segmented (Plan → Design → Build).	Fully integrated. Design is born directly into a living digital context.
Geospatial Role	Outsourced or siloed	Geospatial is a core pillar, standing entirely equal to Architecture and Engineering.
Data Status	3D models as CAD and BIM are part of the toolbox.	Dynamic, continuous digital replicas.

The Spatial Anchor

A digital twin of a bridge or building is less valuable and interoperable if it doesn’t “know” where it is.

The Geospatial Twin provides the absolute global coordinates that anchor terrain, design and dynamic data layers into a common framework.



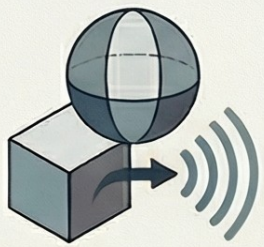
The AEG Operating System: The Layered Digital Twin

The Geospatial-First Approach: Creating a layered foundation connecting environmental data with infrastructure and operations.

THE FOUNDATION OF DATA FUSION

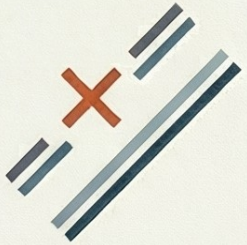
THE SPATIAL GLUE

Global Coordinate Systems act as the common denominator for integrating disparate data sets.



BIM + GIS + IOT INTEGRATION

Fusing “inside” building data with “outside” environmental context and real-time behavioural streams.



ELIMINATING SPATIAL DRIFT

An integrated model reduces errors when moving data between CAD and GIS environments.

THE DIGITAL TWIN HIERARCHY

LEVEL 2: THE OPERATIONAL TWIN

The final layer managing traffic flow, energy usage, and predictive maintenance.

FOCUS AREA:	PRIMARY DATA SOURCES:
Behaviour	Traffic, Energy, IoT Sensors

LEVEL 1: THE INFRASTRUCTURE TWIN

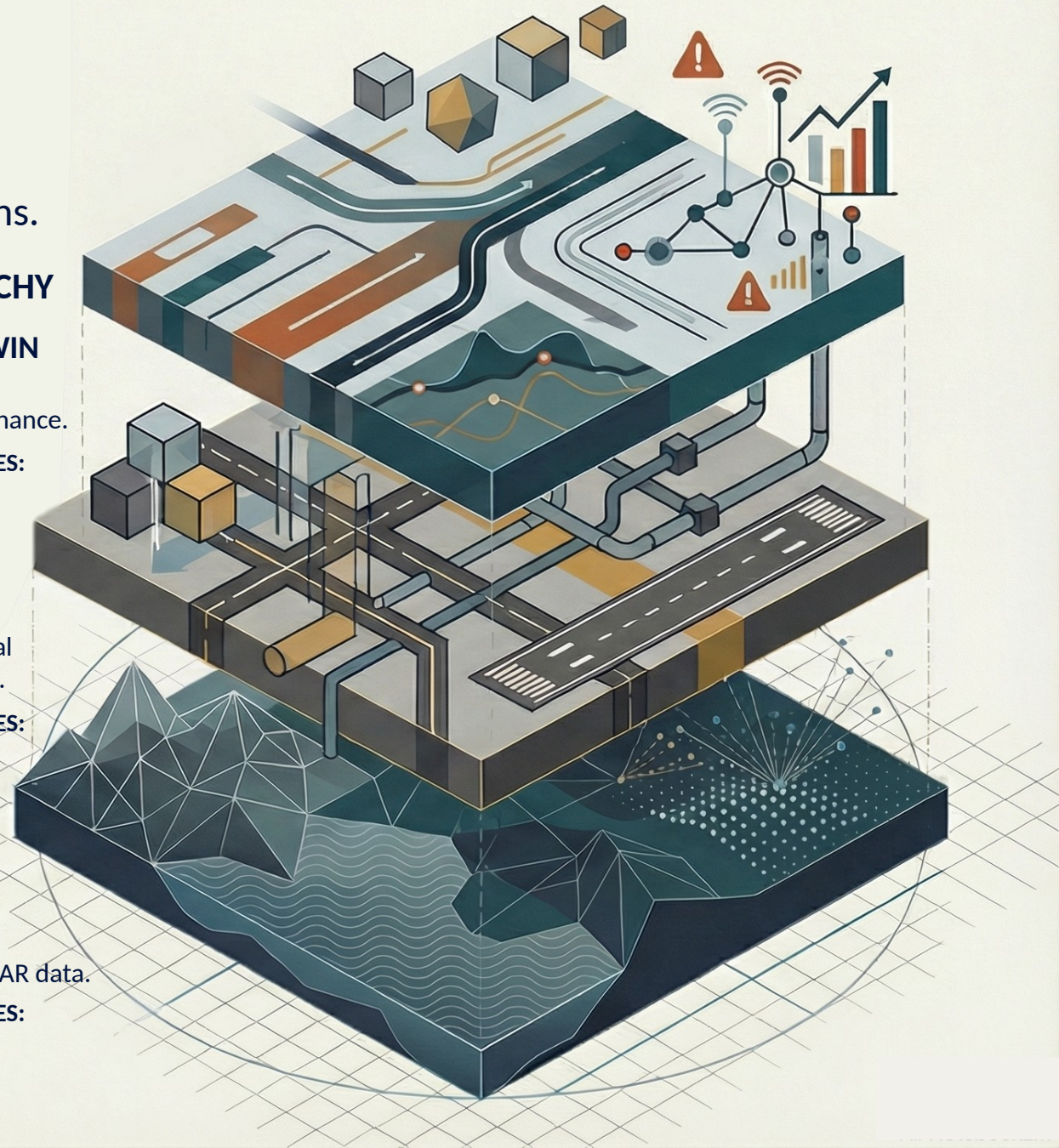
The secondary layer mapping physical assets like roads, pipes, and runways.

FOCUS AREA:	PRIMARY DATA SOURCES:
Assets	Roads Pipes Runways BIM

LEVEL 0: THE GEOSPATIAL TWIN

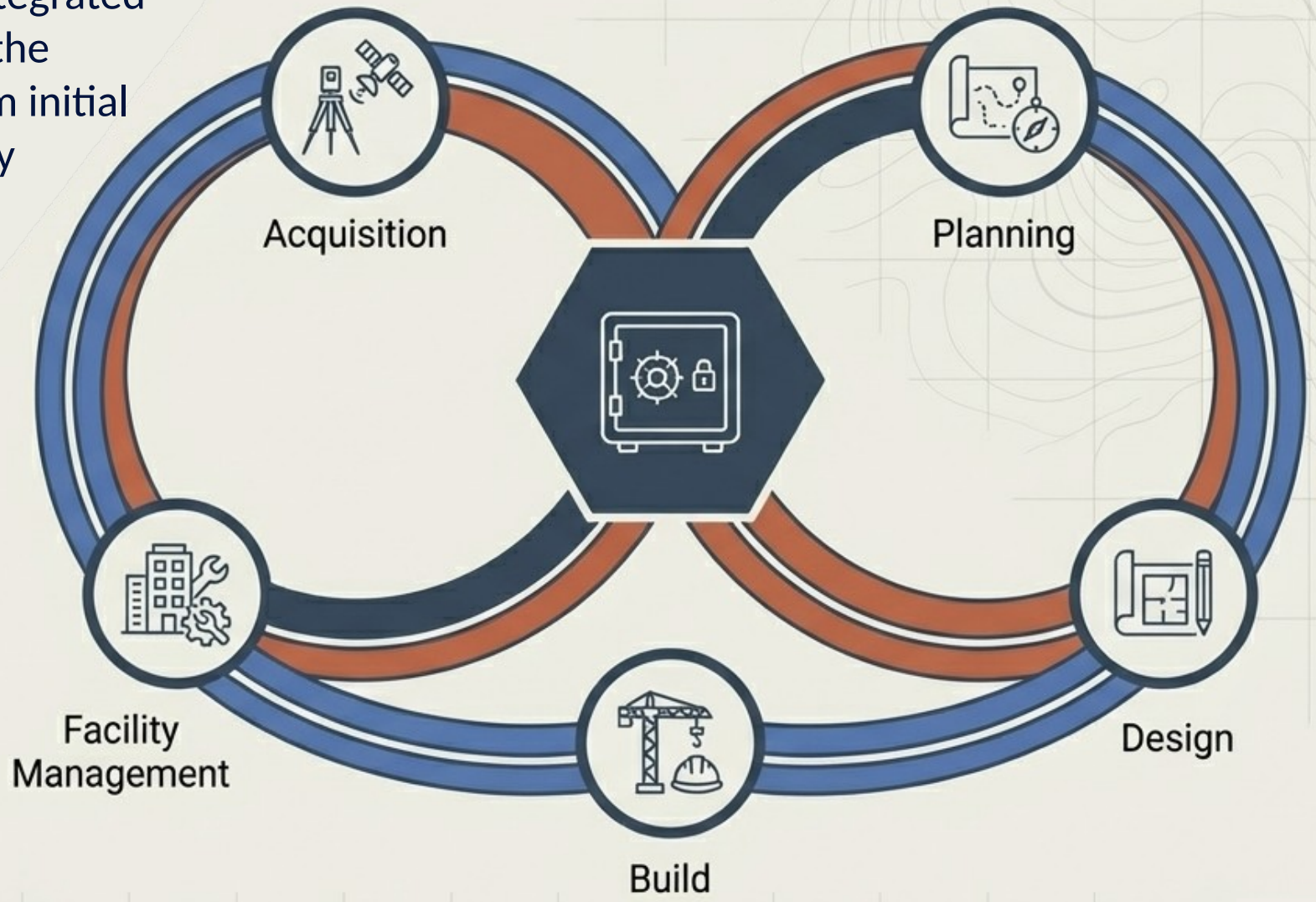
The foundational layer consisting of terrain, bathymetry and imagery, LiDAR data.

FOCUS AREA:	PRIMARY DATA SOURCES:
Foundation	Terrain Bathymetry Imagery LiDAR



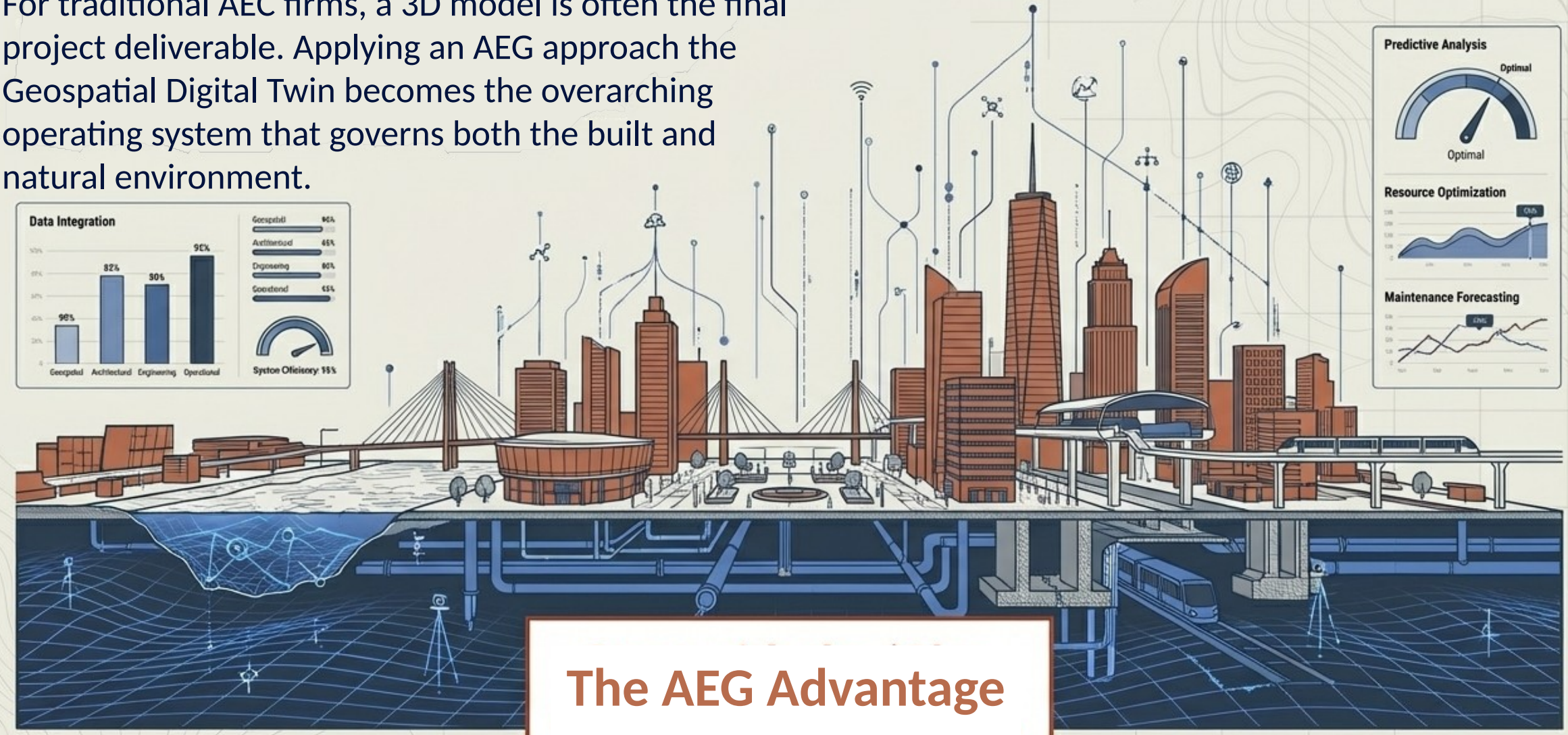
The Lifecycle

By creating and maintaining this integrated high-fidelity replica from day one, the digital twin evolves seamlessly from initial planning through decades of facility management without ever losing spatial context.



The Operating System for the Built Environment

For traditional AEC firms, a 3D model is often the final project deliverable. Applying an AEG approach the Geospatial Digital Twin becomes the overarching operating system that governs both the built and natural environment.



The AEG Advantage

Global reach, local connection

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