Telorics
ENGINEERING SOLUTIONS

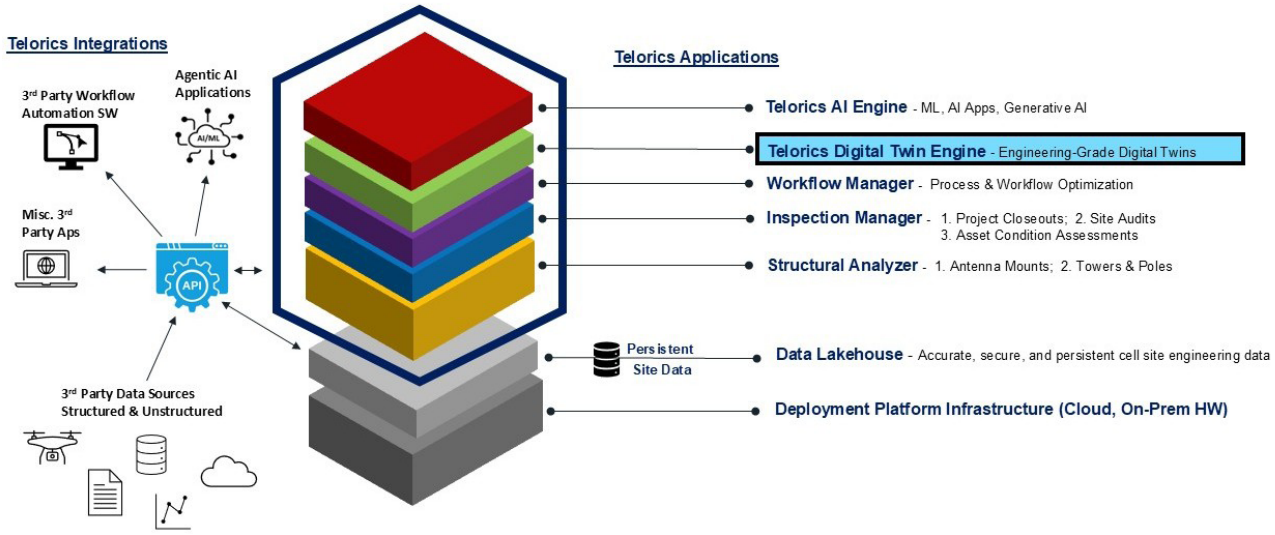
PRODUCT BRIEF

TELORICS DIGITAL TWIN ENGINE

High-Fidelity Digital Replication for Intelligent Telecom Site Lifecycle Management

The Telorics Engineering-Grade Digital Twin Engine creates precision digital replicas of telecom towers and sites, constructed from actual structural engineering data, not just images. These high-fidelity digital twins enable telecom operators and tower companies to remotely simulate structural loads, validate compliance, perform space planning, and detect changes or defects using artificial intelligence (AI). By embedding structural and geospatial intelligence, the platform bridges the gap between engineering models and operational workflows, ensuring that asset information remains accurate, persistent, and operationally valuable.

The Telorics Software Platform



KEY FEATURES

- **Engineering-grade digital twins** – Constructed from the Telorics Data Lakehouse, comprised of actual engineering data — structural, spatial, and visual data captured from engineering analysis, inspections, and ingestion of images and documents from third-party sources.
- **Persistent, engineering-grade digital record of all site equipment, assets, and elements**
- **Integration with AI/ML applications** – For predictive maintenance, detecting and automating responses to change conditions, and optimizing and coordinating field deployments and site modifications.
- **Real-time scenario planning and "what-if" simulations** – For antenna and equipment installations and modifications.
- **Integration with network performance tools for diagnostics and planning alignment**

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KEY USE CASES

- **Remote structural analysis and compliance validation**
- **Tower/site vacancy analysis — across all sites**
- **Site planning and co-location analysis to accelerate tenant onboarding**
- **Equipment inventory and space verification for leasing and audit purposes**
- **Predictive maintenance with AI-driven detection and trend analysis**
- **Integration with network performance tools for diagnostics and planning alignment**

BUSINESS OUTCOMES

Augment formerly incomplete or inconsistent data-capture methods with data from accurate structural models

- Ensure accurate data-driven decision making
- Enable safer, smarter decisions through high-fidelity insights and real-world context

Improve operational efficiences across the business

- Reduce rework, manual inspections, and truck rolls

Accelerate revenue growth and increase profit margins

- Improve asset monetization and tower utilization
- Enable faster planning and onboarding of tenants and equipment deployments