



SMART CONSTRUCTION PLATFORM

DELIVERING DIGITAL TRANSFORMATION



INDUSTRIALISATION, SIMPLIFIED

The Smart Construction Platform will enable advanced project management, predictive maintenance, ESG tracking, and SME development through cloud-based infrastructure and AI integration.





OVERVIEW

The Smart Construction Platform revolutionizes the construction industry by implementing best practices from manufacturing. It supports industrialization of construction through takt production process, digital transformation, AI-driven workflows, and ESG-compliant practices.

Deploying the takt production process has proven to reduce lead times by up to 50% in Finland and Germany, with similar results in South Africa. The platform integrates digital twins and data-driven insights to optimize workflows, improve governance, and enhance productivity. AI-driven automation ensures streamlined planning, procurement, and material management. Workers receive task instructions through dedicated dashboards, akin to advanced factory operations.

A large-scale construction site featuring a multi-story concrete frame structure under development. Several tall yellow tower cranes are visible against a clear blue sky. In the foreground, there is a detailed view of a rebar grid for a concrete slab, with numerous steel pipes and conduits laid out in parallel rows.

25%
Cost
Savings



CORE FUNCTIONALITIES

- **Integrated Project Management:** Takt scheduling, resource optimisation, and real-time monitoring.
- **Digital Twins and Predictive Maintenance:** AI-driven insights for optimised construction outcomes.
- **ESG Compliance:** Automated tracking and reporting for sustainability goals.
- **Data Insights:** Advanced analytics dashboards for decision-making.
- **SME Development Tools:** Training programs, funding access, and market inclusion.





STRATEGIC BENEFITS

- **Productivity:** Reduced lead times through optimised workflows.
- **Sustainability:** Lower carbon emissions and resource waste.
- **Economic Growth:** SME development and job creation.
- **Scalability:** Cloud-native infrastructure enables nationwide implementation.





BUSINESS BENEFITS

- **Economic Impact:** Cost optimisation through digitised workflows.
- **Scalability:** Cloud-native solutions ensure seamless growth.
- **Sustainability:** ESG-compliant operations and reduced carbon footprint.
- **Workforce Development:** Upskilling programs for SMEs and local contractors.
- **Regulatory Compliance:** Alignment with sustainability and governance standards.





THANK YOU

