



# 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.



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# 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 background image of a large-scale construction site. In the foreground, there's a grid of rebar for a concrete slab, with several large corrugated metal pipes laid out. In the background, a multi-story building frame is under construction, with two tall yellow tower cranes visible against a clear blue sky.

**25%**  
Cost  
Savings



# CORE FUNCTIONALITIES

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- **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

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- **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

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- **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**

