Digital Twin’ing for Better Insight

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Royal HaskoningDHV
Enhancing Society Together
Making a difference in people’s lives since 1881

Workforce of almost 6,000 in more than 150 countries
How to remain relevant in the years to come
Digitalising Current Business
Digitalizing Project Delivery
Integrated Information Management

- Standardize Process
- Automate Workflow
- Integrate Workflow
- Adopt Technology
- Continuous Learning

BIM
Automation
Integration Interoperability
Digital Studio
Digital Academy
Innovating our future business
Introducing Predictive Simulation

Lanner, a company of Royal HaskoningDHV, use **Predictive Simulation** to create dynamic **Digital Twins** of real world business processes that enable companies to understand, predict and optimize the performance of their assets and business operations.

**Why?** To ask “what-if?”, evaluate **cause & effect** and accurately **predict** future performance.
Types of Digital Twin

There are many types of digital twin. Lanner provides *Process digital twins* that represent the processes within a business. These twins are fed by data provided by lower level *Asset digital twins* describing how they behave within the process. Process digital twins in turn feed into the higher level *Enterprise digital twin* which is responsible for delivering the connectivity between process digital twins and any historical business data that better informs process performance.
The Benefits of Predictive Digital Twins

Lanner use predictive simulation models to develop and deploy digital twin assets for the **creation** and **operation** of smarter business processes.

- Rightsizing new business infrastructure
- Reducing the risk of business change
- Designing fit for purpose processes
- Developing robust cases for investment decisions
- Discover how to best leverage new technologies
- Maximise effectiveness of available resources
- Eliminate process performance problems
- Validate and plan new business models & change roadmaps
Diverse Digital Twin Capability

- Aviation
- Aerospace & Defence
- Automotive
- Business & Engineering Services
- Manufacturing
- CPG, Pharma, Food & Beverage
- Distribution & Retail
- Energy
- Finance
- Government & Health

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Digital Twin Examples
Futureproofing The Business Lifecycle

Digital Twins Driving Continuous Innovation

DELIVERING SUSTAINABLE BUSINESS VALUE

OPERATE

IMAGINEER

CREATING A SMARTER BUSINESS FUTURE

OPTIMISE

ENGINEER