Digital Twin’ing for Better Insight

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Royal HaskoningDHV
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Physical Twins Digital

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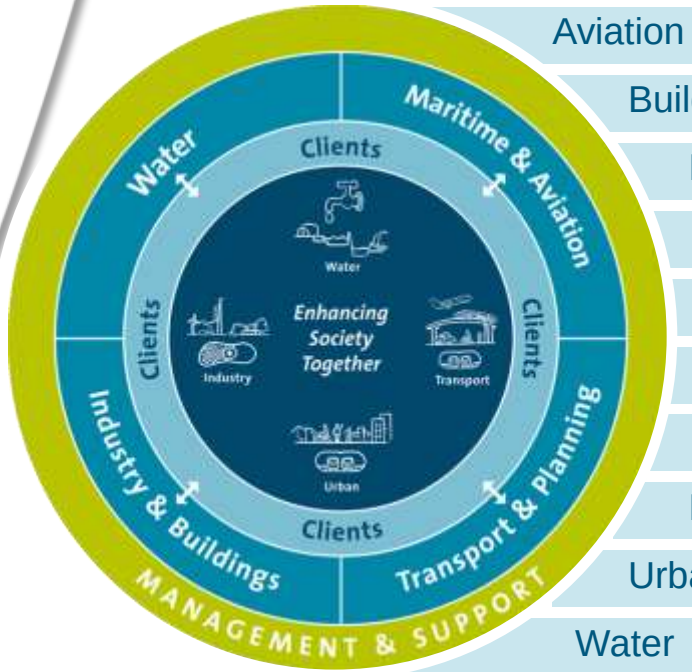
Making a difference in people's lives since 1881

Workforce of almost **6,000** in more than **150** countries

2018 ENR TOP 225 **#43**



- Aviation
- Buildings
- Energy
- Industry
- Infrastructure
- Maritime
- Mining
- Rural Development
- Urban Development
- Water

How to remain relevant in the years to come

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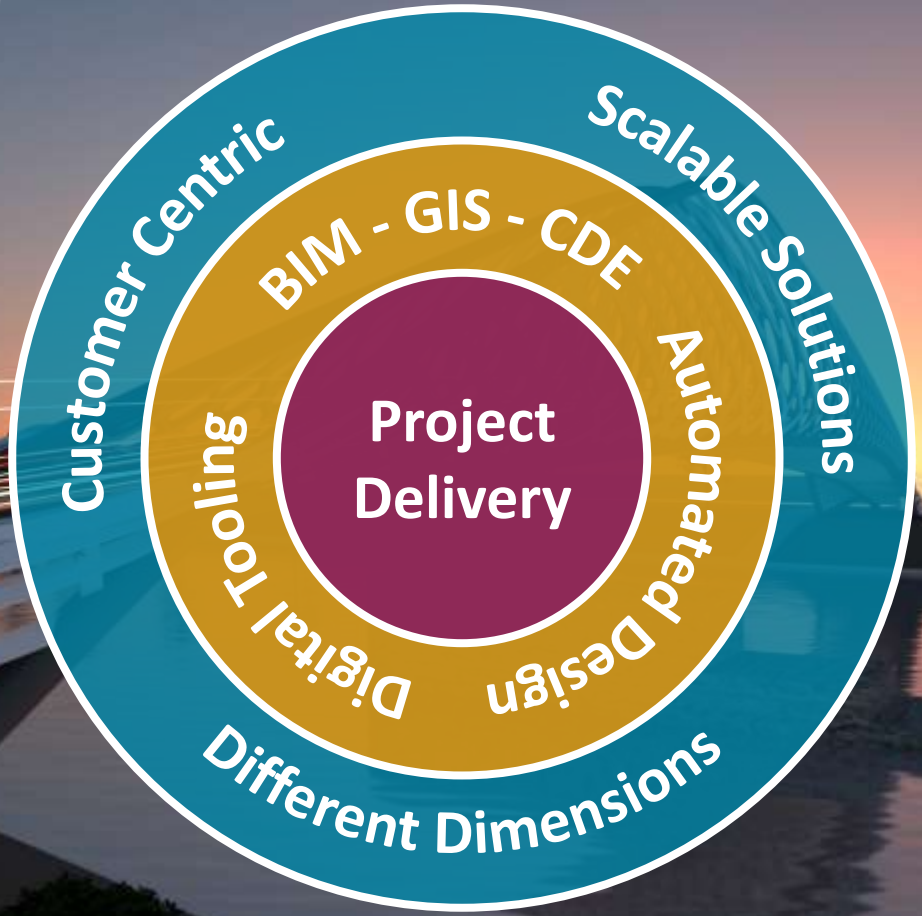
Remaining Relevant

Digitalising Current Business



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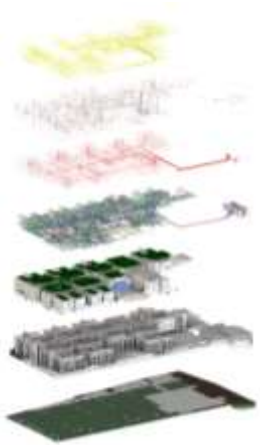
Digitalizing Project Delivery
Integrated Information Management

Standardize Process

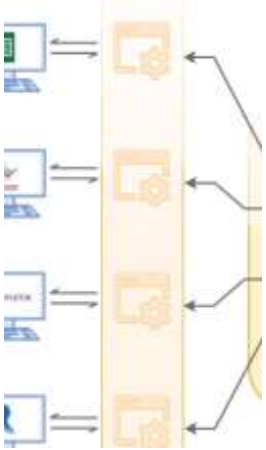


BIM

Automate Workflow

Automation

Integrate Workflow



Integration Interoperability

Adopt Technology

Digital Studio

Continuous Learning

Digital Academy

Innovating our future business

LANNER
Future. Proof.
a company of Royal HaskoningDHV

Ynformed
a company of Royal HaskoningDHV

h2i
HYDROINFORMATICS INSTITUTE

HAL 24K

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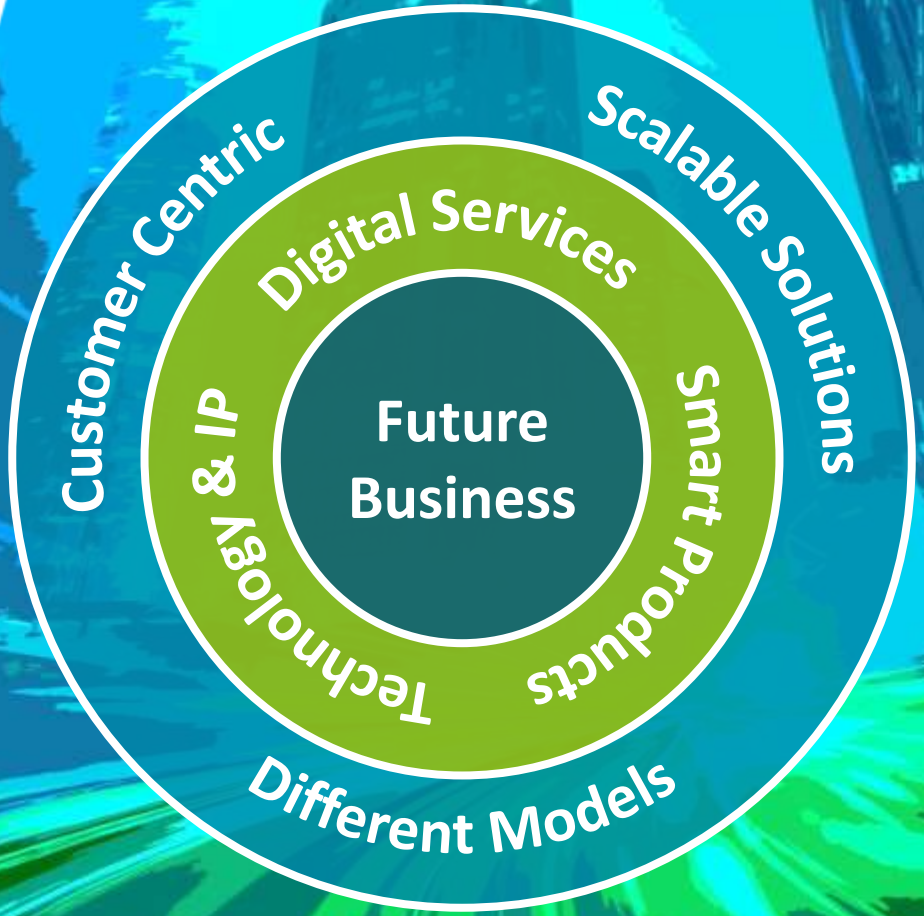


Innovating the Future

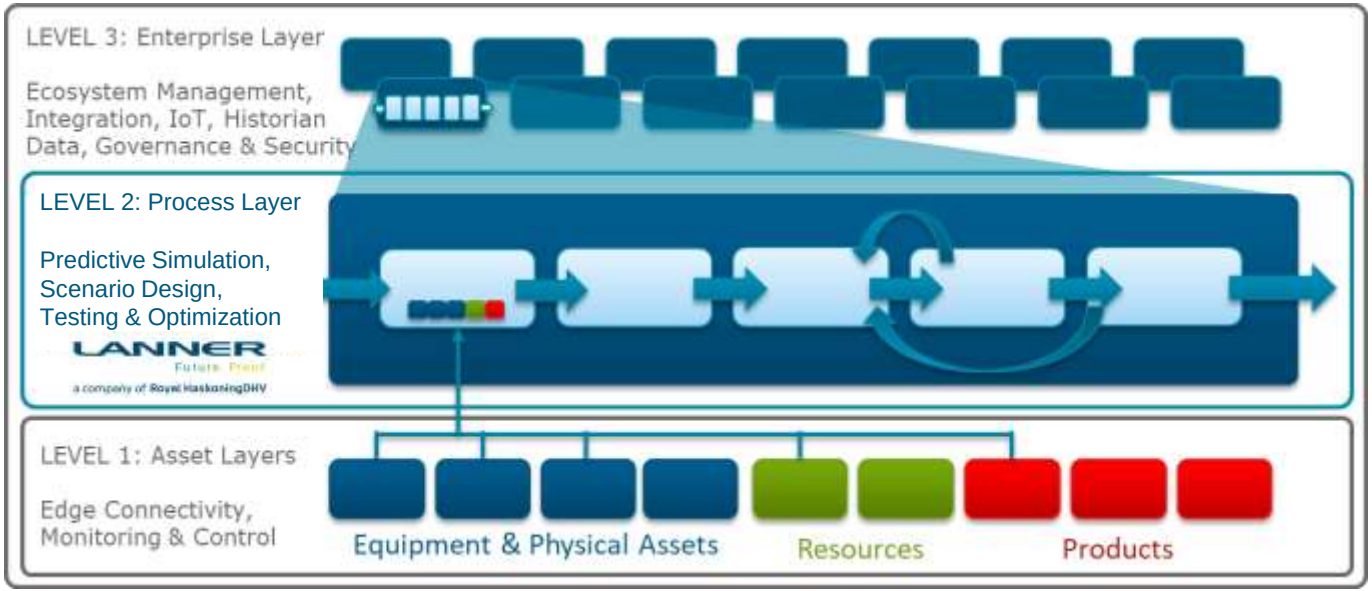
Introducing Predictive Simulation

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

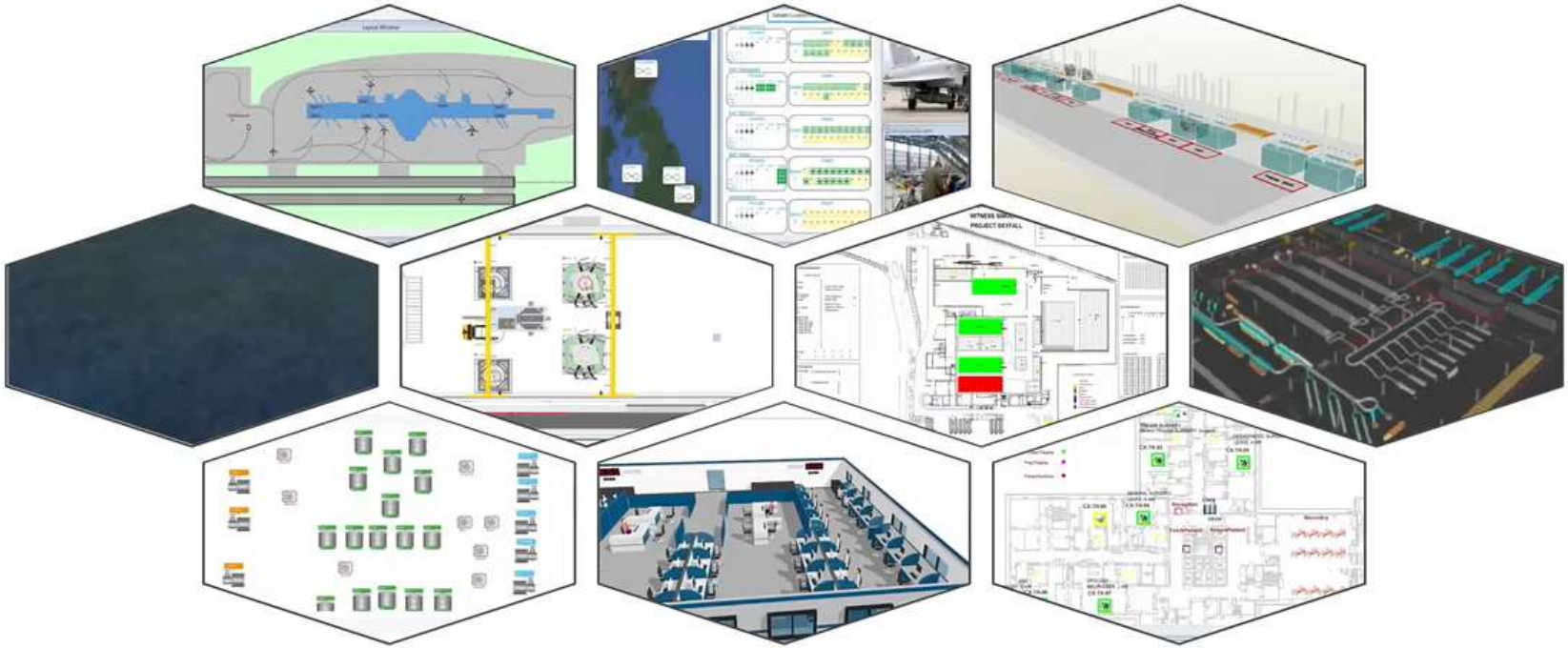
Lanner use predictive simulation models to develop and deploy digital twin assets for the **creation** and **operation** of smarter business processes

- 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

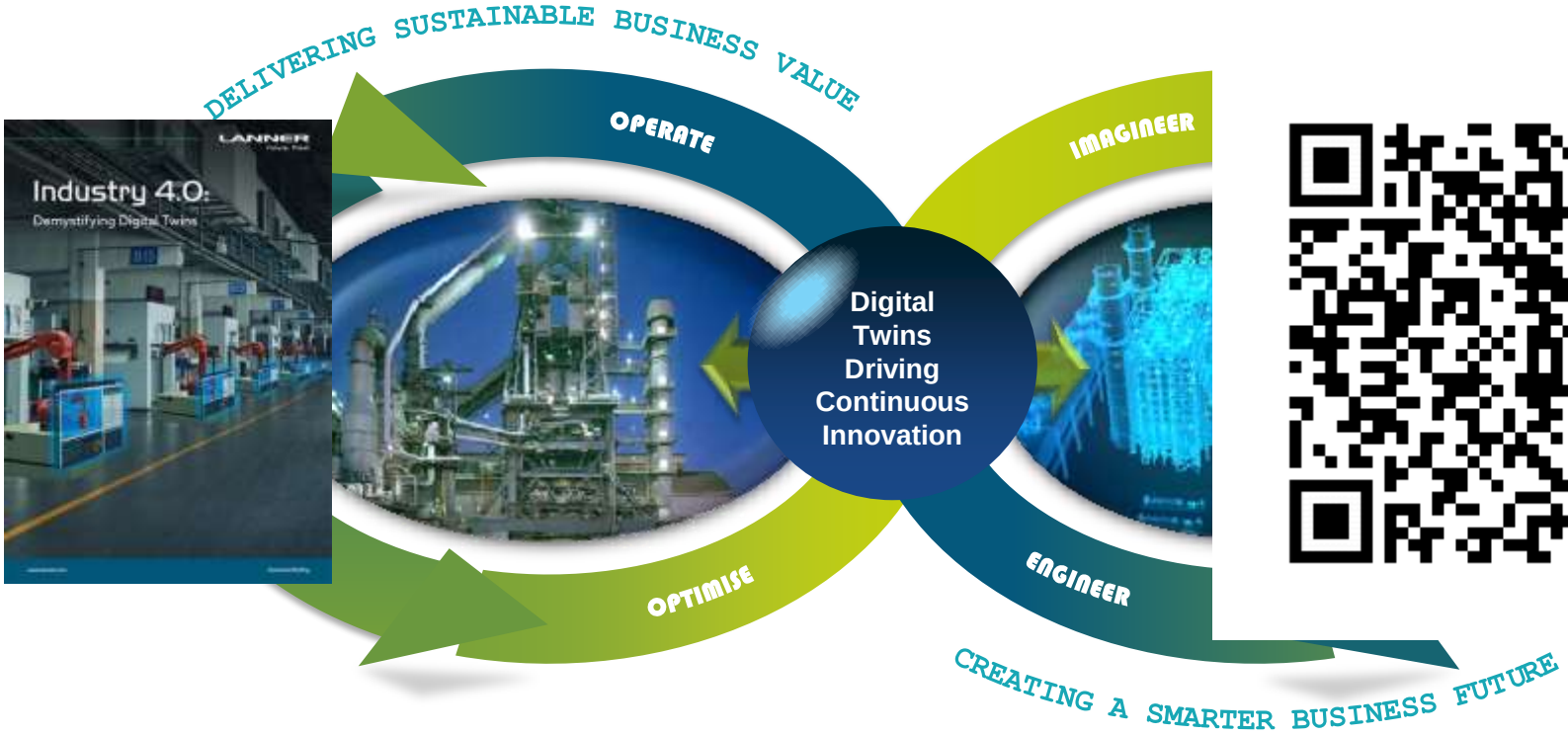
Diverse Digital Twin Capability

Global Customers in Every Sector

Digital Twin Examples



Futureproofing The Business Lifecycle



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