Twinn
by Royal HaskoningDHV

Better decisions today for a sustainable tomorrow.

Twinn provides digital solutions to manage your risks and make better informed strategic and operational decisions. Powered by our deep domain knowledge, software and data.

“The world faces global challenges, Twinn helps to overcome them.”

100+ countries

have organisations using Twinn to tackle key challenges around sustainability, resilience and digital transformation.

140 years

of innovation and engineering heritage power Twinn solutions.

Sustainability

CHALLENGES

52% increase in global GHG emissions by 2050

770 million people worldwide lack electricity access

5 billion people affected by water shortages by 2050

SOLUTIONS

- Understand how operational changes affect energy use with predictive simulation
- Reduce energy consumption and emissions with autonomous control capabilities
- Gain certainty around renewable energy sources by modelling new renewable supply chains
- Reduce water loss through smart pressure reduction and early leak detection/localisation

Resilience

CHALLENGES

$35 billion of insured losses from natural disasters in the first half of 2022

23% of the population faces significant flood risk

35% of manufacturing CEOs say supply chain/operational risks threaten growth

SOLUTIONS

- Test the organisation's ability to respond to uncertainty using predictive simulation
- Understand climate risk exposure with proprietary natural hazard data
- Safeguard supply chains using digital twins of end-to-end supply chain operations

Digital Transformation

CHALLENGES

73.5% of companies aren't yet data-driven

50%+ of organisations haven't started supply chain digital transformation

1/6 people globally will be over age 65 by 2050

SOLUTIONS

- Drive continuous improvement by modelling operations in a risk-free digital environment
- Validate business cases using predictive simulation
- Alleviate staffing pressure by automating day-to-day repetitive work
- Gain actionable insight from massive data volumes generated by the digital models

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Twinn helps you

Understand

"What are the risks and bottlenecks?"

- Historical and real-time data are collected
- Data is analysed
- Relations between various variables (patterns) are learned (machine learning)
- This is turned into actionable insights

Predict

"What happens if we do x?"

- Scenario analysis patterns are combined with simulation prediction models
- Accurate predictions of the future state of your processes, assets and resources are made

Prevent

"We know there's a risk of x in 6 months – so let's act now."

- Analyse, calculate and determine risk and/or anomaly levels
- Get realtime (early) warnings on asset and process performance

Optimise

"How can we make measurable improvements?"

- Design, stress test and improve processes, planning
- Automate and optimise the control of operational processes 24/7

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