



Your Reliable Partner for Digital Twin Solutions

Enhance ESG
Sustainability with
Powerful Digital
Environmental
Insights



Are You Ready to Face Environmental Challenges?

Since 2002, we have been a leader in resource management and pollution control, consistently enhancing operational efficiency and empowering companies to exceed their sustainability goals in alignment with ESG standards. In tackling the pressing challenges of global climate change, UTRUST confidently harnesses advanced digital twin technology to provide innovative solutions for businesses and government organizations, driving us all toward a sustainable future.



Digital Twin: A Revolutionary Solution for Environmental Protection

NVIDIA founder Jensen Huang emphasizes that Digital Twins are poised to become vital business assets, representing a crucial trend that cannot be overlooked. These powerful technologies offer five key advantages, significantly advancing efforts toward ESG and SDGs and achieving net-zero emissions



Achieving Sustainability Goals

Resource Optimization & Environmental Impact Minimization

Precise resource control, waste reduction, and carbon emission reduction



Optimize Operational Efficiency

Real-Time Monitoring and Predictive Maintenance

Optimize processes and increase productivity with real-time data analysis



Reduce Risk and Cost

Precision Simulation & Scenario Analysis

Proactive issue prevention, minimized downtime, and lower operational costs



Accelerating Innovation and R&D

Virtual Testing and Rapid Iteration

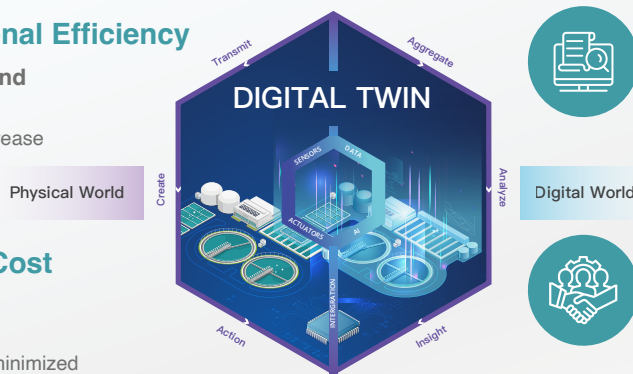
Quickly validate new ideas in a digital environment, shortening time to market



Enhancing Customer Experience

Personalized Services and Predictive Maintenance

Provide customized solutions through data insights to improve customer satisfaction



Core Advantages of Digital Twins

Integrating **3** Core Pillars to Create Comprehensive Digital Twin Solutions

Cloud Computing

System Security
High Availability

- ✓ High-Availability Architecture
- ✓ Flexible Scalability
- ✓ Secure & Reliable Operations

Big Data

Ensuring Data
Integrity & Accuracy

- ✓ Comprehensive Data Integration
- ✓ Deep Insight Analysis
- ✓ Real-Time Decision Support

Artificial Intelligence

Provide Accurate
Analysis & Prediction
Capabilities

- ✓ Simulation-Based Prediction Models
- ✓ Automated Process Optimization
- ✓ Anomaly Detection & Alerts

By partnering with UTRUST, you will gain access to expertly designed digital twin solutions that drive the industry's digital transformation. We not only offer cutting-edge technology but also commit to long-term support and innovation, helping you achieve a balance between business growth and environmental protection. Choosing UTRUST means becoming a pioneer of change and contributing to a smarter, greener world for future generations.



Digital Twin



Case Studies

UTRUST, Your Expert in Digital Twin Solutions

Collaboration of **3** Core Technologies for Comprehensive, Intelligent, and Reliable Digital Twin Solutions.



雲運算HA技術
High Availability



方直雲
VAST IoT Cloud



資料互聯智控中心
DataSynthCenter



奧創AI智能預測引擎
ULTRON AI Predicting Engine

Cloud Computing

Stable & Reliable Operational Assurance

- ✔ Maintain system stability to ensure uninterrupted operations
- ✔ Achieve high availability by leveraging containerization technology

Big Data

Comprehensive Data Integration & Analysis

- ✔ IoT data integration ensures efficient device monitoring and visual analytics
- ✔ Protect your data integrity and unlock the potential for meaningful discoveries

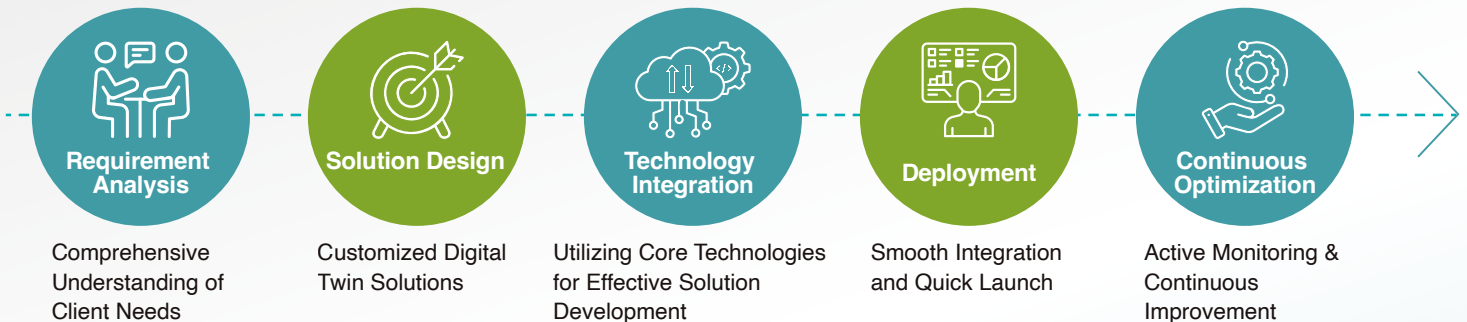
Artificial Intelligence

Transform Your Decision-Making with a Powerful AI Assistant

- ✔ Achieve accurate predictions quickly, even without programming experience.
- ✔ Enhance your decision-making efficiency while reducing costs

UTRUST, Supporting Every Step of Your Digital Transformation Journey

The **5** Stages of UTRUST Service



Select Your Smart Transformation Solution

Intelligent Management of Sewage Pipeline Networks

- Notifications for Obstruction and Leak Detection
- Simulation and Forecasting of Water Volume and Quality
- Efficient Management of Network Connection Fees
- Notifications for Abnormal Discharge & Unidentified Water Sources

Intelligent Management for Wastewater Treatment Operations

- Digital Twins for Aerobic Treatment & Energy Optimization
- Digital Twins for Biological Anaerobic Treatment
- Digital Twins for Chemical Dosing Dynamics
- Digital Twins of Water Quality & Quantity in Wastewater Treatment Plants

Intelligent Scheduling & Management of Waste Logistics

- Collection and Disposal Logistics Analysis
- Route Sequencing and Estimated Timing
- Big Data Matching for Zero-Waste Resource
- Warning Algorithm for Dynamic Vehicle Congestion
- Real-time Roadblock Reporting & Alert Notification

International Data Exchange for ESG Product Carbon Footprint

- PACT International Carbon Emissions Data Exchange Guidelines & Data Model
- API Specifications for International Carbon Emissions Data Exchange
- Pathfinder Network for Carbon Emissions Data Exchange
- Design of an Automated Platform for Electronic Data Subscription & Exchange

Intelligent Management of Incineration Plant Disposal Logistics

- Smart Alerts for Incineration Emissions Monitoring
- Disposal Capacity and Timing Scheduling Analysis / Annual Maintenance & Disposal Forecast

Intelligent Management of Soil and Groundwater

- Levy Trend Forecast & Analysis of Socioeconomic Factors
- Big Data Classification & Anomaly Detection for Collection Targets
- Knowledge Mining for International Regulations & Smart Customer Service
- Intelligent Management of Groundwater Monitoring Data in High-Risk Areas

Embracing Green Technology for a Sustainable Future

With over 20 years of proven expertise in environmental engineering, we are leaders in providing comprehensive environmental management and cutting-edge low-carbon ESG solutions that empower organizations to achieve their sustainability goals.



Customized Digital Enablement Solutions
Designed to Meet Your Needs.

Join Us and Start Your Journey of Digital Transformation



Intelligent Audit



Real-time Monitoring and AI Predictions



UTRUST Website



FACEBOOK



Collaborative
Consultation

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