

ReeWell

All-Elements Intelligent Scheduling
Collaborative Logistics Platform





ReeWell —Intelligent Equipment Comprehensive Collaborative Scheduling Platform, delivers an AI-powered integrated system solution for smart transportation, intelligent warehousing and full-element collaborative operations across diverse enclosed logistics scenarios including seaports, airports, land ports, logistics parks and factories. It empowers the automation, digital intelligence and green transformation of the traditional large-scale logistics industry through seamless AI-driven resource coordination and sustainable operational optimization

Greening

Production
Operations

Collaboration

Scheduling
Management

Intelligence

Equipment
Transformation





Today, over 200 clients from 28 countries and regions are experiencing the intelligent transformation brought by ReeWell.



200⁺ Clients

28 Countries & Regions

ReeWell All-Elements Intelligent Scheduling Collaborative Logistics Platform

With efficiency improvement and security management as the core, we provide system solutions with multiple product combinations that closely align with business processes. Empower large logistics businesses with automation, digitalization, and intelligence.

01 Smart Transportation

Full-scenario traffic control

03 Data Hub

Maximize data value

05 Energy Carbon Management

Reductions in energy consumption and carbon emissions

02 Smart Warehousing

Inbound and outbound storage and stock management

04 Simulation Analysis

Pre-operational simulation and process analysis

06 AI Decision-Making

AI large model continuous learning to assist operations

Core Advantages

Forecasting and Planning

Advance simulation to predict the future

Collaborative Efficiency Improvement

On site production factor linkage scheduling management

AI-Empowerment

Accumulation of process data empowers AI assisted decision-making





ReeWell

Key Features Structure



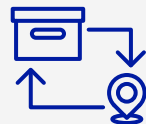
Simulation and Prediction

Pre-operational planning and design



Smart Transportation

Spatiotemporal Consistency Path Planning



Coordinated and Scheduling

Automated equipment scheduling
coordinated production factor resources



AI Data Analysis and Decision-making

Task data precipitation
AI empowerment to assist decision-making



ReeWell Product Line

1



WellFMS

Full-scene smart
fleet management system

2



WellYMS

Smart yard/warehouse
management system

3



WellSimtec

Full-scene
simulation platform

4



Digital Brain

Container Terminal
3D Twin System

5



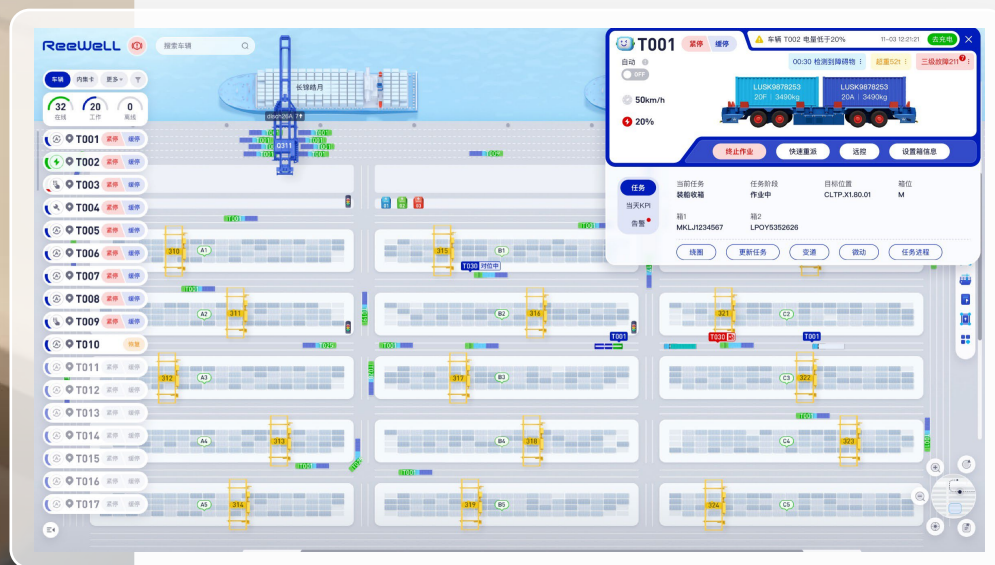
WellEMS

Energy carbon
management system

WellFMS

Intelligent Fleet Management System

An intelligent unified management and control system for all horizontal transportation equipment applicable to all smart logistics scenarios.



6 Advantages of WellFMS

AI Center



Full field device access monitoring and management

- Trucks
- Quay Crane
- Yard Crane
- Front Loader, etc.



Port standard KPI system to maximize digital value

- Task KPI dashboard
- Vessel KPI dashboard
- Vehicle KPI dashboard
- Energy KPI dashboard



Dynamic scheduling of vehicle operations

- Task instruction scheduling
- Select optimal devices
- Comprehensive consideration of equipment/operation status throughout the site
- Intelligent charging dynamic scheduling engine



Configurable map elements adapted to various operations

- Free choice of working lane under QC
- Flexible setting of lock station position
- Flexible VPB settings
- Support empty container operations
- Flexibly draw no parking/no driving zones for vehicles



Path planning supports complex traffic such as mixed traffic

- Realize zero deadlock
- Global path planning
- Local path planning



Unified access of manned and unmanned vehicles implement mixed scheduling and operations

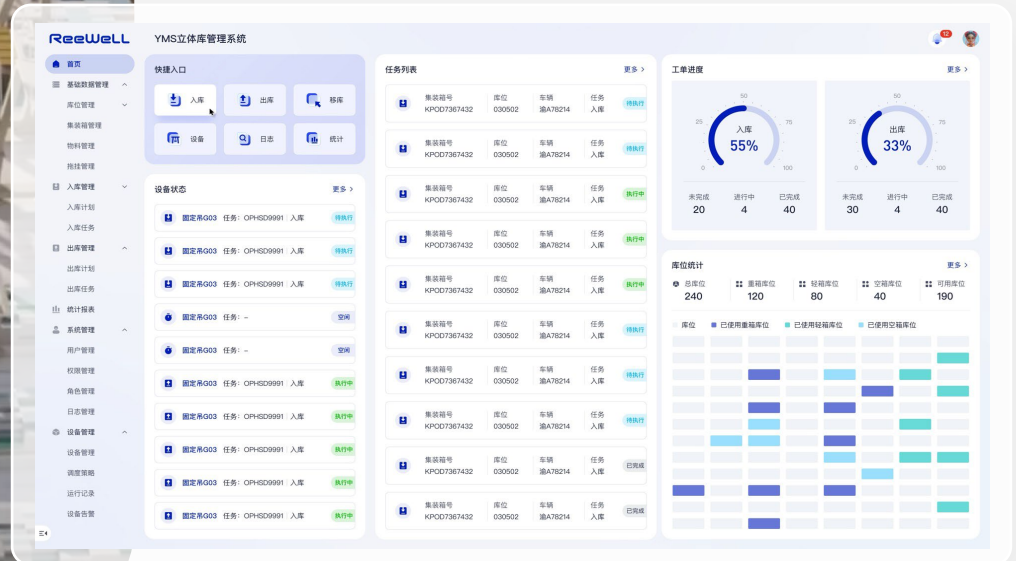
- Vehicle monitoring and management
- Support mixed operation Traffic

WellyMS

Yard Management System

The Yard Management System, also known as the Warehouse Management System, is a system for managing yards and warehouses, including containers within the warehouse.

The system coordinates operations across various links in production, ensuring timely and accurate inbound and outbound movements. It provides real-time transparent inventory control, enabling reasonable allocation of warehouse resources and optimization of warehouse layout. By improving operational efficiency and service quality, the system helps save labor and inventory space, ultimately reducing operating costs.





Advantages and Highlights of WellyMS

Intelligent Warehouse Management

Driven by "Orders+Data.", we provide refined warehouse management through job strategies and intelligent device applications.

Collaborative Supply Chain

For the upstream and downstream of the industry, achieve full process information sharing throughout the order and inventory chain.

Automated System

Automated systems easily coordinate various types of robots and automation equipment.

AI Prediction

Information sharing enables intelligent inventory strategies and demand forecasting.

Easy To Adapt And Deploy Quickly

With a microservice architecture and modular desian the system can flexibly adapt to diferent business scenarios.





WellSimtec

Full-scene Simulation Platform

WellSimtec can 1:1 restore the entire port layouts, equipment, operations, and disturbances accurately. It seamlessly integrates with internal and external system simulators for comprehensive global testing, identifying optimization opportunities and predicting KPIs for specific scenarios.

The screenshot shows the WellSimtec software interface. At the top, there's a menu bar with options like '仿真项目', '模拟条件', '用户管理', and '系统管理'. Below that, a toolbar contains icons for '暂停', '停止', '测试', '模拟器看板', and '仿真时间: 2023-05-01 14:32:20'. The main area is divided into several panels:

- 设备列表 (Equipment List):** A table with columns for 'YC', 'P', 'R', and 'C'. It lists various equipment IDs and their status.
- 地图 (Map):** A 3D top-down view of the port layout, showing cranes and infrastructure. Labels like '船名+航次' are visible.
- 设备详情 (Equipment Details):** A panel on the right showing details for 'ARMG316', including a '运行' status and a small 3D model of the equipment.
- 模拟条件 (Simulation Conditions):** A section at the bottom with tabs for '船名+航次', '船名+航次', '船名+航次', '船名+航次', and '船名+航次'. It includes a '选择' button and a list of simulation scenarios.
- Gantt Chart:** A chart at the bottom showing the timeline of simulation scenarios. The x-axis represents time from 01:03 to 01:30. The y-axis shows scenarios like '000-D', '010-D', '420-D', '420-D', '420-D', '540-D', and '660-D'.

At the bottom right, there's a status bar indicating '正常' and the date '2021-11-11 10:21:21'.

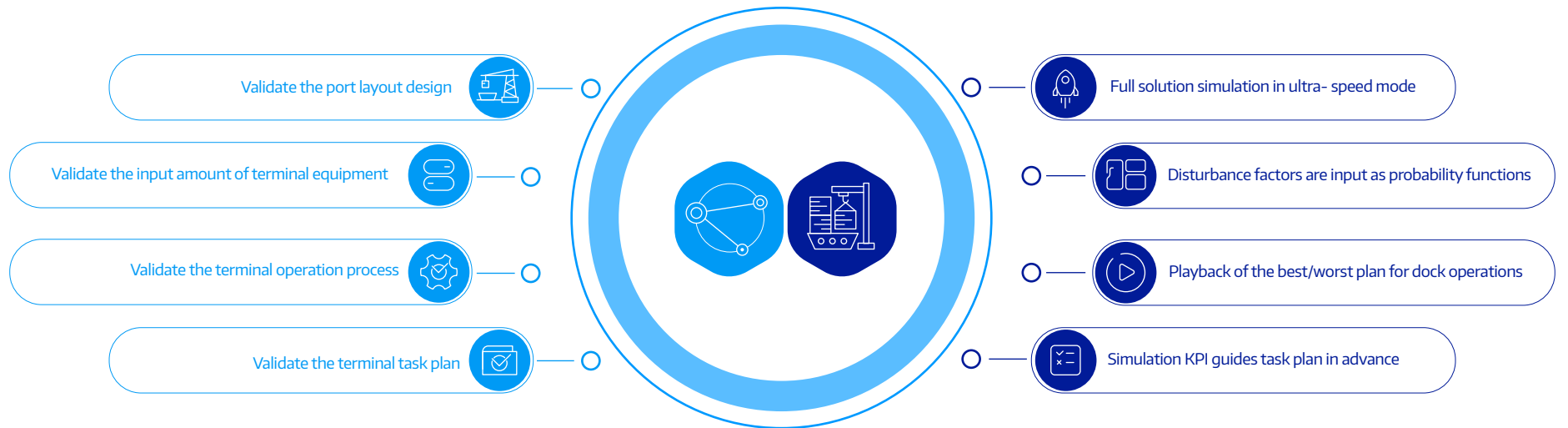
WellSimtec Functions

Map Mode

Highly accurate display of dock layout and operation details
Assist in verifying the best process to minimize investment costs

Ultra-speed Mode

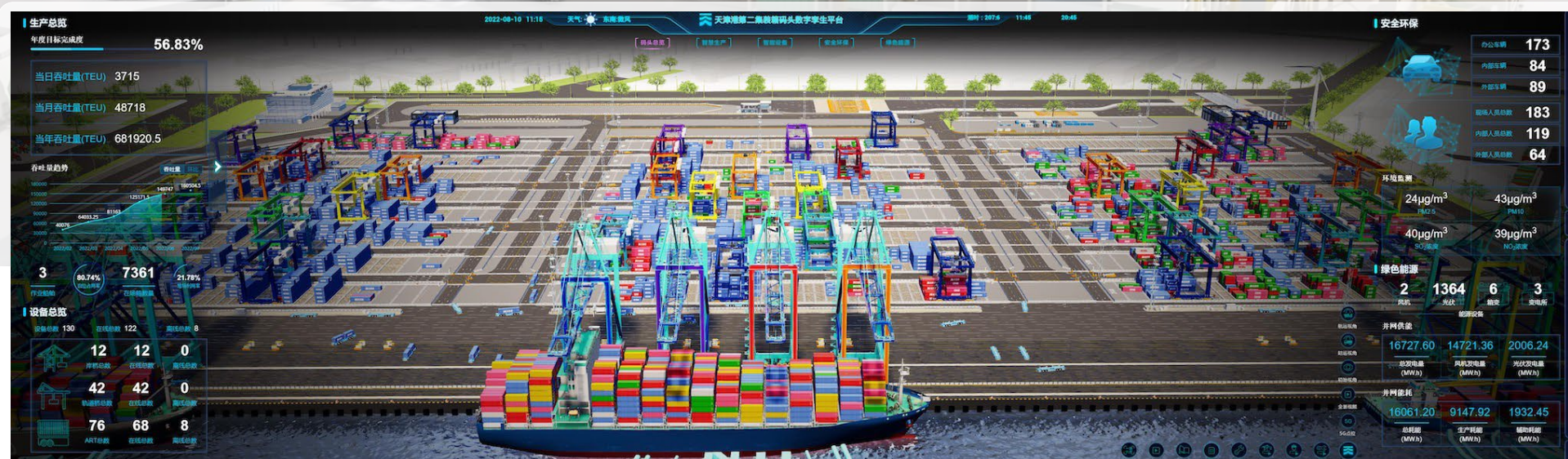
Full simulation of job plan in ultra-speed mode
Freely configure the disturbance factors to output the best/worst results



Digital Brain

Container Terminal 3D Digital Twin System

Digital Brain--Container Terminal 3D Digital Twin System, is an integrated virtual digital twin platform that provides an accurate digital replica for container terminals through high-precision 3D modeling and real-time data integration. This system can simulate the operational environment of the terminal, including cargo flow, equipment operation, job scheduling, etc., to achieve optimization and prediction of actual terminal operations.



Operation Analysis

- Real-time efficiency analysis
- Big data analysis provides reasonable suggestions



Monitoring Integration

- The perfect combination of monitoring and control
- Meet the display requirements of multiple screens
- Multi system integration



Digital Brain

Real-time Dynamics

- Real-time display of actual port operations;
- Timely refresh of resource status and progress of operations



Scenario Simulation

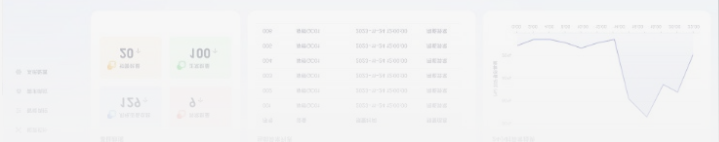
- Past operation scenario replay
- Intuitive reproduction, in pursuit of excellence



WeIEMS

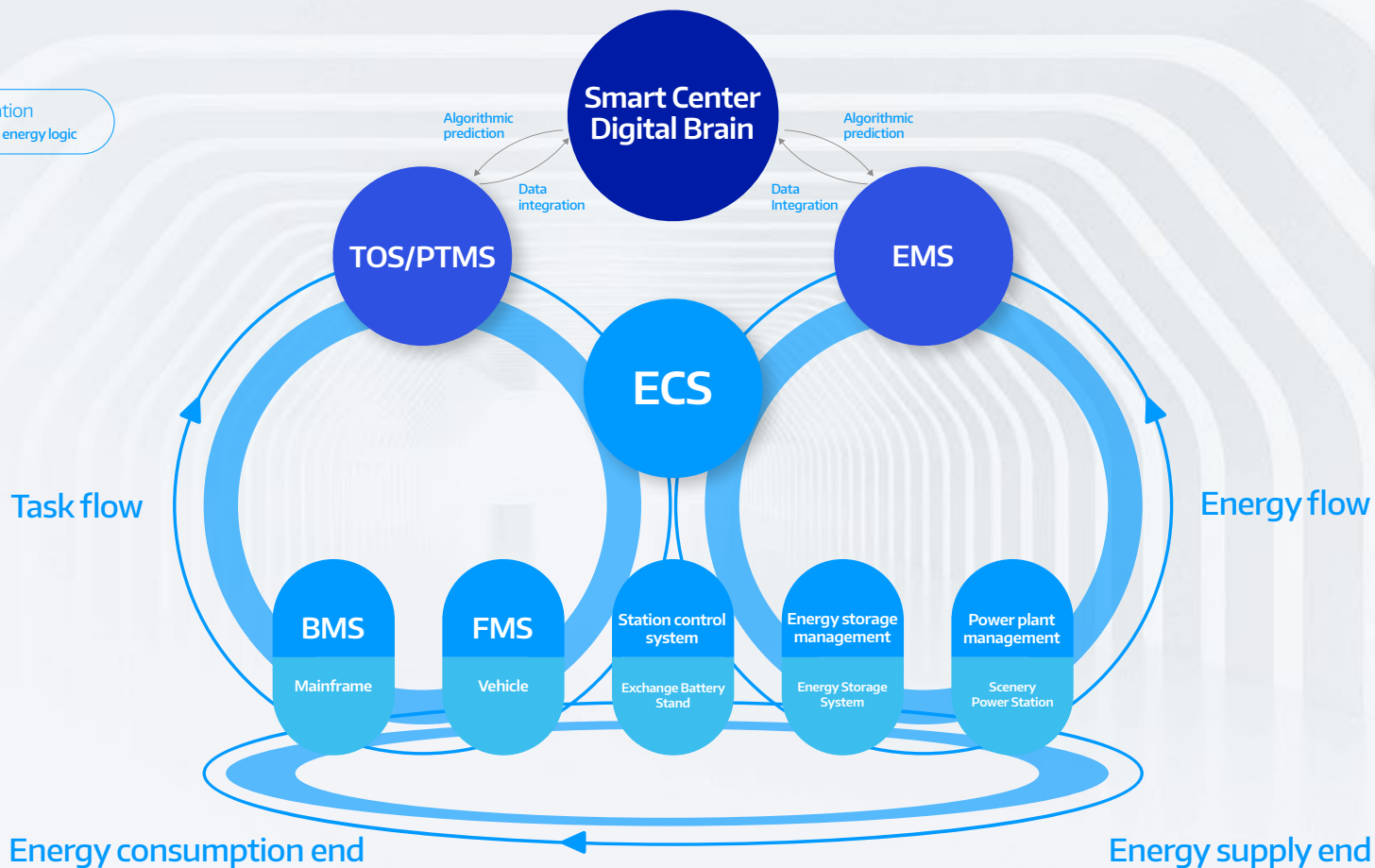
Energy Carbon Management System

It is an AI-enabled energy and carbon management platform based on big data, cloud platform and cloud computing. It helps organizations maximize energy efficiency and minimize carbon emissions through real-time monitoring, analysis and optimization of energy and carbon emission data, thereby achieving economical and sustainable energy management goals.



Advantages and Highlights of WellEMS

Multi-system collaboration
Driven by operation logic and energy logic



Algorithm Empowerment

Smart Scheduling

Device Management

IoT Connectivity



ReeWell

Make a WELL Change.

en.westwell-lab.com | hello@westwell-lab.com

