



Automation and Smart Warehouse Systems Connected to Real Machines

Automation • Simulation • Digital Twin • System Integration

AS/RS • CVY • AGV/AMR • 4-WAY • WCS/WMS

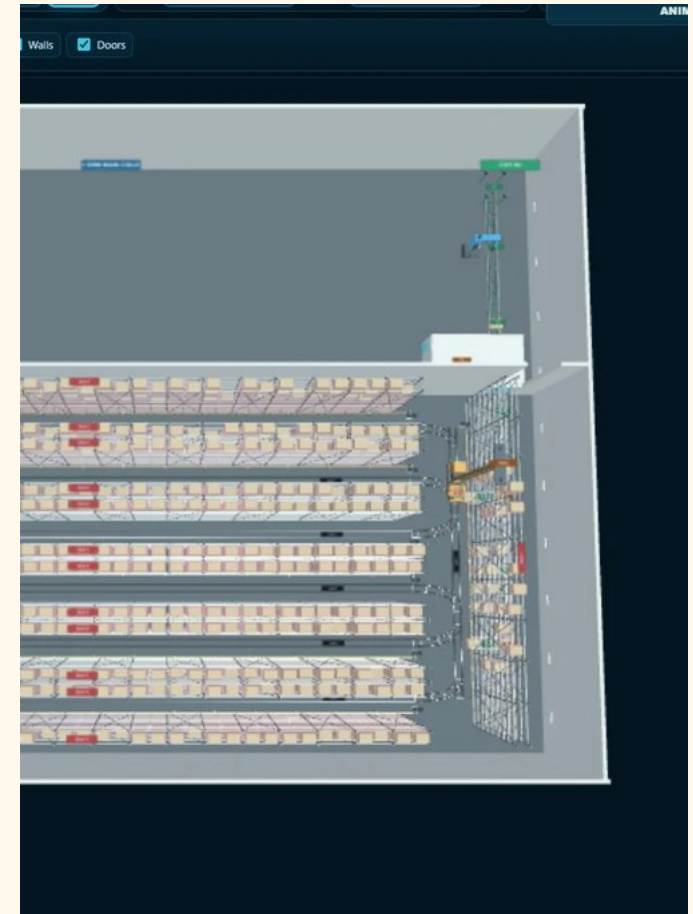
PUBLIC SHOWCASE

Engineering systems from an understanding of real operations

Onzon Technology Service designs and develops industrial warehouse software, from monitoring, WCS and machine integration to simulation and digital twins. We focus on operational logic, data integrity, security and long-term maintainability.

Engineering-first integration

We build more than dashboards. We connect processes, databases, APIs, PLCs and real machines into one operational system.



Core Solutions

Designed around each organisation's layout, workflow, equipment and available interfaces.

01 AS/RS & SRM Control

Inbound, outbound, relocation, job queues, pallet/location tracking, alarms, machine commands and performance monitoring.

02 Conveyor Control & Monitoring

Real-time sensors, motors, gates, pallet flow, barcode, routing, jam detection and fault-location monitoring.

03 AGV / AMR Fleet Integration

Connect WMS/WCS with RCS or fleet managers for tasks, routes, stations, traffic and charging coordination.

04 4-Way Shuttle System

Multi-shuttle simulation and control, deep locations, relocation, path planning and collision avoidance.

05 WCS / WMS Integration

Receive jobs, validate readiness, prioritise, select equipment, send commands, track execution and return traceable results.

06 Digital Twin & Simulation

2D/3D live views, scenario testing, replay, training and commissioning support connected to real operational data.

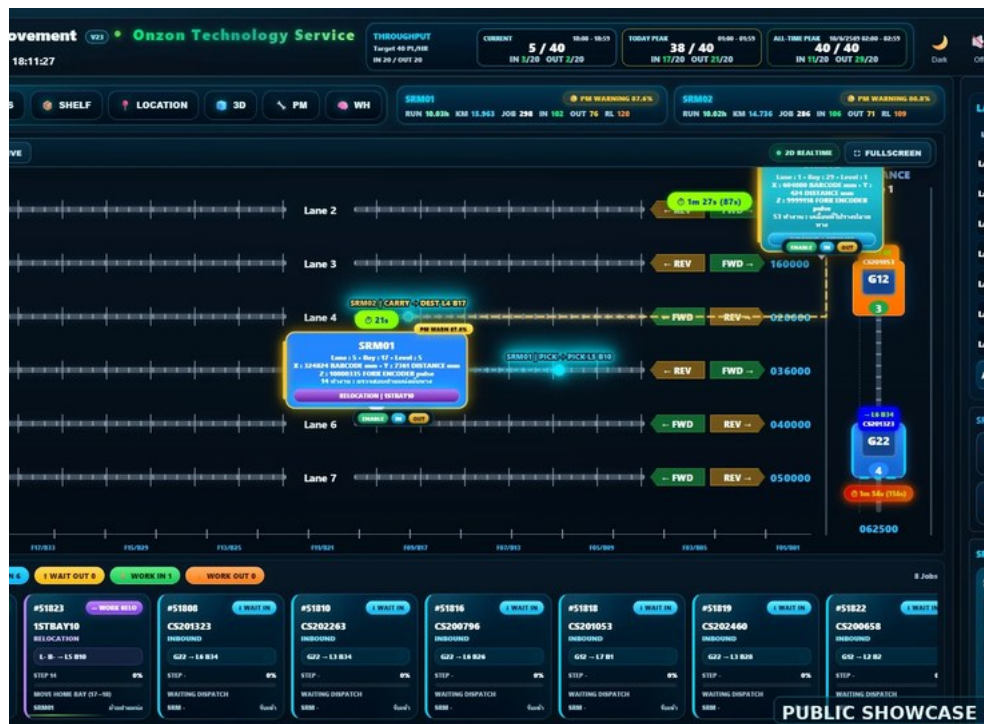
AS/RS & SRM Control

Inbound, outbound, relocation, job queues, pallet/location tracking, alarms, machine commands and performance monitoring.

REAL-TIME CONTROL

JOB & LOCATION

ALARM & DIAGNOSTIC



ment
itions

4, 030401L, CS201563

ALL LANE

ALL STATUS

List Table

3,750 Occupied

5 Disabled

10 Special

Bay	Level	Loc	Pallet	Status	Action
2	010102L	CS201531	มีพาสเทิลสีน้ำเงิน 2	-	-
3	010103L	CS201313	มีพาสเทิลสีน้ำเงิน 2	-	-
4	010104L	CS203018	มีพาสเทิลสีน้ำเงิน 2	-	-
5	010105L	CS202048	มีพาสเทิลสีน้ำเงิน 2	-	-
6	010106L	-	ว่างไม่มีพาสเทล 1	-	Dis
7	010107L	CS202245	มีพาสเทิลสีน้ำเงิน 2	-	-
8	010108L	-	ว่างไม่มีพาสเทล 1	-	Dis
9	010109L	-	ว่างไม่มีพาสเทล 1	-	Dis
2	010202L	-	ว่างไม่มีพาสเทล 1	-	Dis
3	010203L	-	ว่างไม่มีพาสเทล 1	-	Dis
4	010204L	-	ว่างไม่มีพาสเทล 1	-	Dis
5	010205L	-	ว่างไม่มีพาสเทล 1	-	-

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AGV / AMR Fleet Integration 4-Way Shuttle System

AGV / AMR Fleet Integration

Connect WMS/WCS with RCS or fleet managers for tasks, routes, stations, traffic and charging coordination.

Supports REST APIs, TCP sockets and vendor protocols.

4-Way Shuttle System

Multi-shuttle simulation and control, deep locations, relocation, path planning and collision avoidance.

Use simulation to evaluate vehicle count, stations and throughput before deployment.

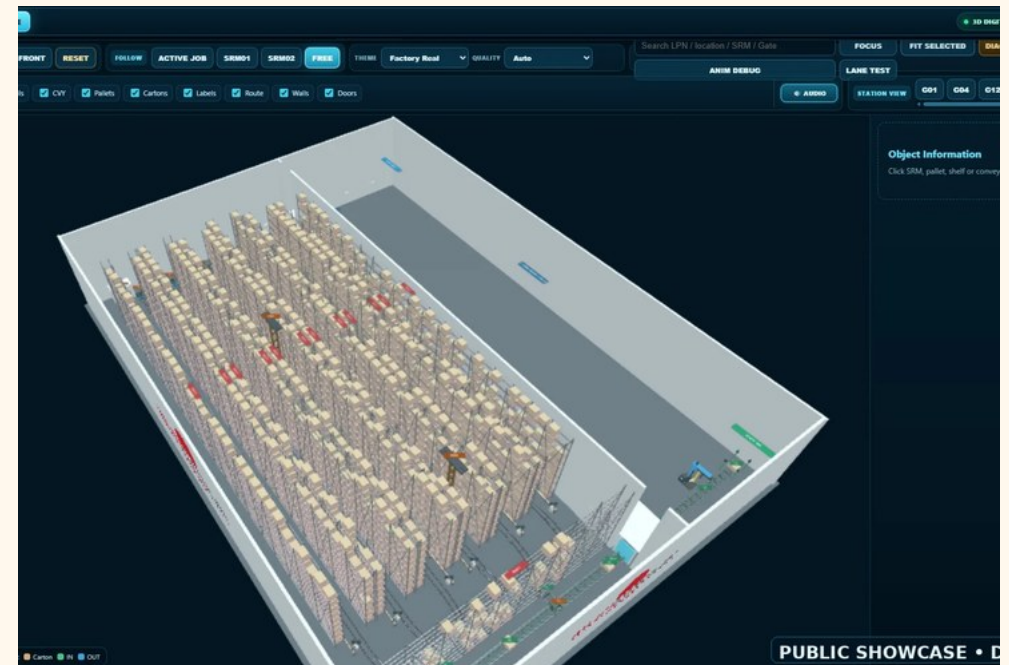
WCS / WMS Integration

Receive jobs, validate readiness, prioritise, select equipment, send commands, track execution and return traceable results.



Digital Twin & Simulation

2D/3D live views, scenario testing, replay, training and commissioning support connected to real operational data.



Smart Warehouse Automation

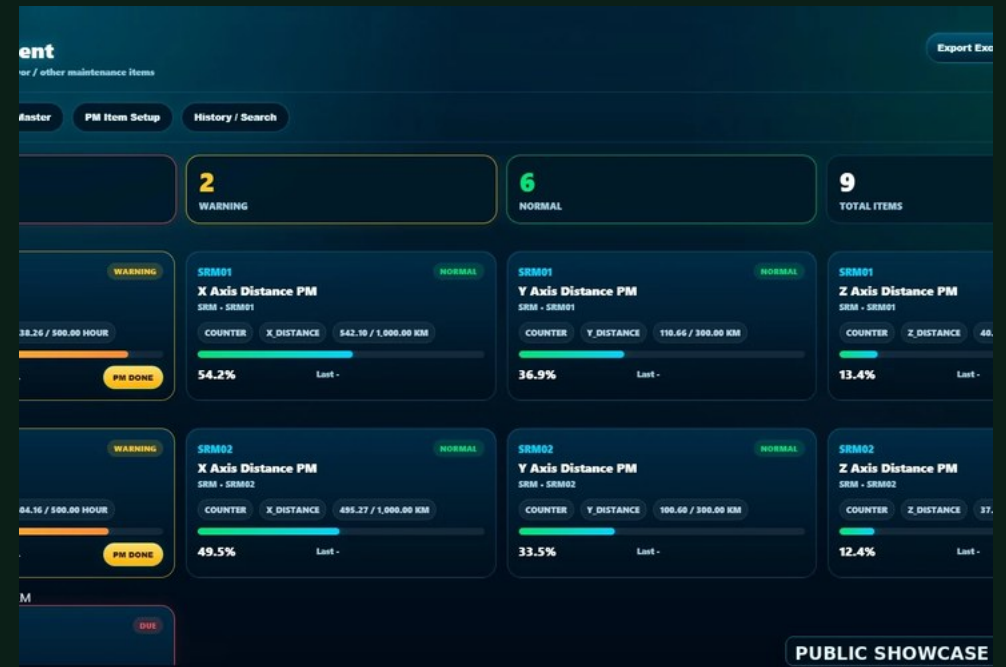
One system for SRM, conveyor, pallet, shelf, job queue, alarms, analytics and preventive maintenance.

2D / 3D LIVE

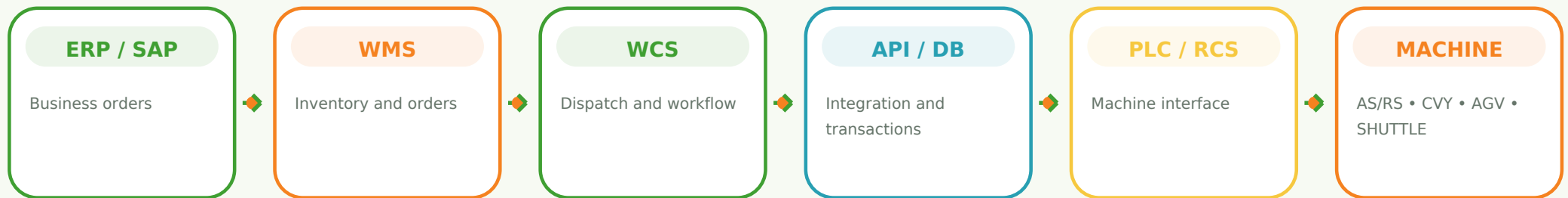
LOCATION

ANALYTICS

PREVENTIVE MAINTENANCE

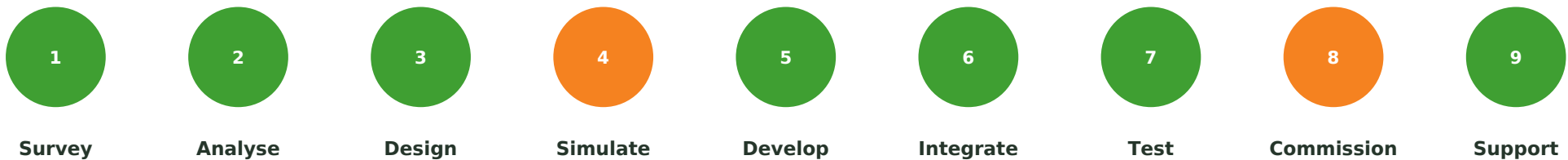


System Integration Architecture



Supports REST APIs, TCP sockets, Modbus TCP, OPC, PLC communication, SQL Server, PostgreSQL, SignalR and on-premise deployment.

Development and Testing Workflow



Project Deliverables

- System architecture and data flow
- Functional design and workflows
- Web monitoring and admin portal
- WCS and integration services
- Database, APIs and transaction logs
- Simulation and digital twins
- Source code and configuration as agreed
- Test scenarios, manuals, training and commissioning



Start with the essential information and shape the right approach together

Whether the requirement is a new system, monitoring for existing machines, WCS development, AGV/AMR integration, simulation or a digital twin, the discussion can begin with the current process, layout and available interfaces.

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