

 Ubisense

SMARTSPACE

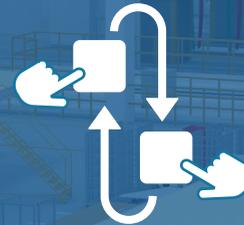
Industrial IoT at enterprise scale



Maximise
PRODUCTIVITY



Improve
QUALITY

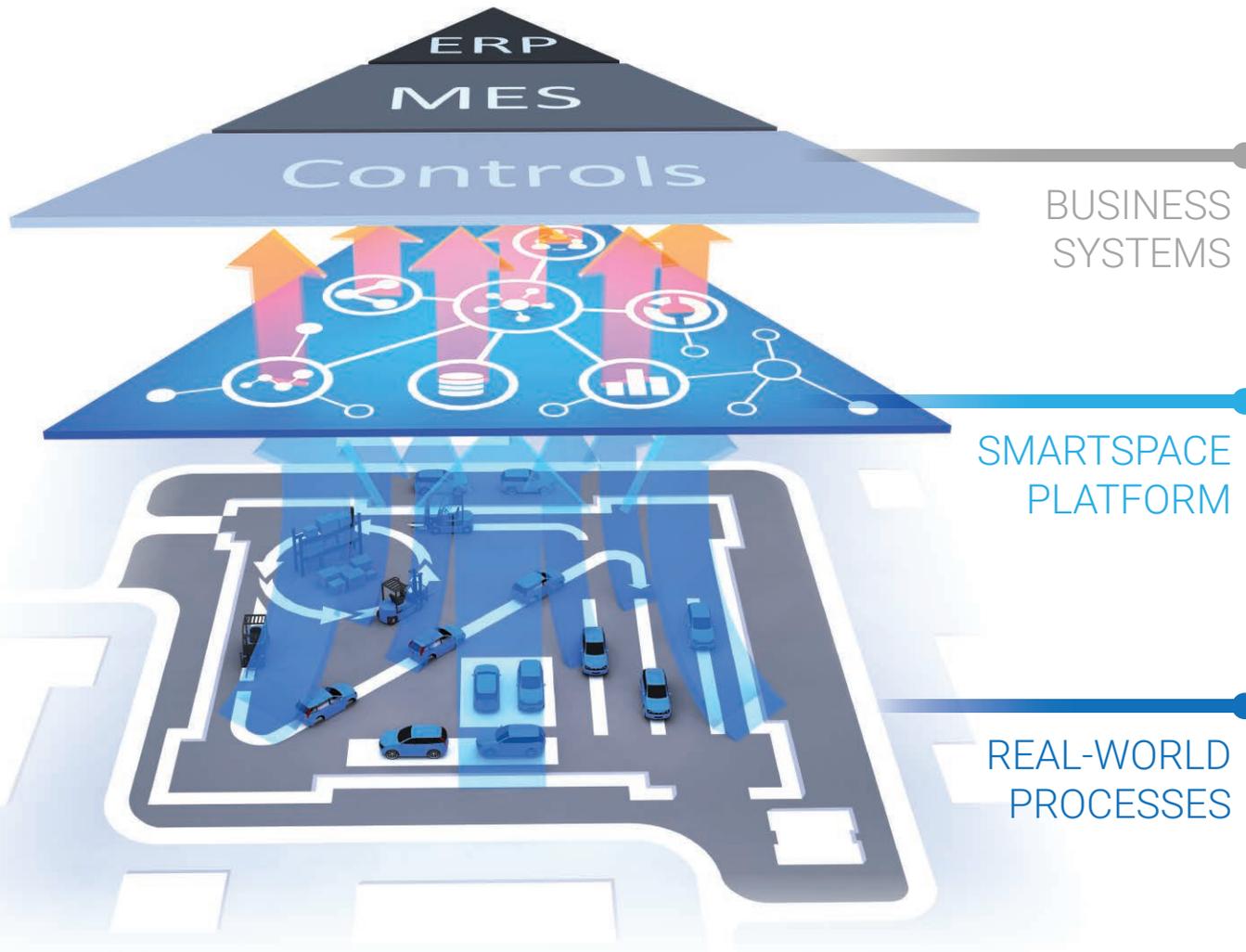


Increase
FLEXIBILITY



Embrace
COMPLEXITY

Bridge the data-gap between your business systems and your business process.



SmartSpace brings visibility of the physical world

to planning, management and control systems, making **real-world processes** involving moving assets **visible and measurable**.

By **location-enabling the environment** with any number of location and identification technologies, SmartSpace handles the **complexity of location** so existing business systems don't have to. It turns location into **language that the business systems understand**.

SMARTSPACE SOFTWARE STACK



SMART APPS

SMART FACTORY ASSEMBLY

Build location driven assembly lines that adapt process in real-time to context-relevant events from tools, devices and product



PROCESS MONITOR

Monitor complex flows of products and objects for real-time insight into process conformance and KPIs



PROCESS IMPROVEMENT

Uncover hidden inefficiencies in production processes that involve the movement and flow of product and assets



SMART DEVELOPER

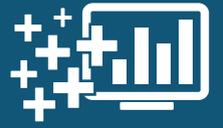
RULES ENGINE DEVELOPER

Develop custom business logic using a drag and drop interface for application specific context-relevant events and application behaviour



REPORTS ENGINE DEVELOPER

Develop custom reports using a drag and drop editor for application-specific consumption of process data



SMART WORKERS

LOCATION RULES

Make location conform to real-world constraints



BUSINESS RULES

Make location context-relevant with logic



VISIBILITY

Configurable graphical interfaces for people to see processes



REPORTING

Persistent storage and graphical reporting of process data



APPS INTEGRATION

Integration with the business ecosystem



CONTROLS INTEGRATION

Control industrial systems with real-time protocols



RFID INTEGRATION

Integration with passive identification technologies



RTLS INTEGRATION

Integration with 3rd party RTLS



ADVANCED IT

Tools and interfaces for operational support and monitoring



CORE

OBJECTS & SPACES

Build rich object and environment models and describe the interactions between them using spatial relationships



SENSORS

LOCATION & IDENTIFICATION

Easily integrate and combine a broad array of location and identification sensing technologies



SmartSpace uses location and identification to create visibility of real-world objects and their interactions, enabling complex manufacturing processes with high levels of variability to be more flexible, easier to manage and easier to control.



SmartSpace enables higher productivity, increased quality and reduced costs through:

- More flexible assembly processes
- Context-aware error-proofing
- Reduced lead-time on finished product
- Reduction in waste from over-processing
- Reduction in WIP-inventory costs
- Reduced capital expenditure
- Reduction in necessary floor space
- Reduced payroll and overtime



SENSOR-INDEPENDENT

- Use any location or identification source to create new levels of visibility and control
- Combine different sensing modalities into a single unified architecture



ENTERPRISE SCALABILITY

- Designed to be massively scalable from the ground up through a cellular service architecture
- Support arbitrarily large installations with guaranteed real-time performance



MISSION-CRITICAL RELIABILITY

- Designed to filter and optimise location data in a way that generates accurate and reliable process-critical events
- Scalability, failover and redundancy are built deep into the core architecture



INDUSTRIALLY-PROVEN

- Deployed at very large scale in some of the harshest industrial environments
- Mature operational support tools enable mission critical applications with no downtime



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