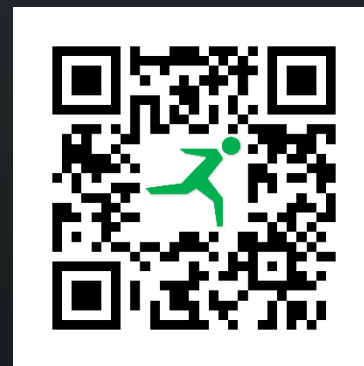


REPLY

Enabling Industry 4.0 Execution

Jason Miller, CSCP



About **REPLY**

DRIVERS & KEY FACTS

Specialized competencies in Consulting, System Integration and Digital Services

Vertical market Core Process knowledge.

Network Model: autonomous and specialized companies that share philosophy, goals and functional standards.

Focus on Digital Transformation and continuous investments in Innovation and Know-How.

Strategic Partnership with Leading Market Vendors.



Founded in 1996

To achieve excellence within Internet Consulting Market. Reply is today a leading international IT Services company.

Established in US on 2012 (MI,IL,WA)



6,000+ Employees
Distributed across
specialized network
companies



Impressive Track Record
From 20M\$ in 1999 to 847 M\$
(780.7 M€) in 2016



**Consistent Double-digit
company Ebit growth**

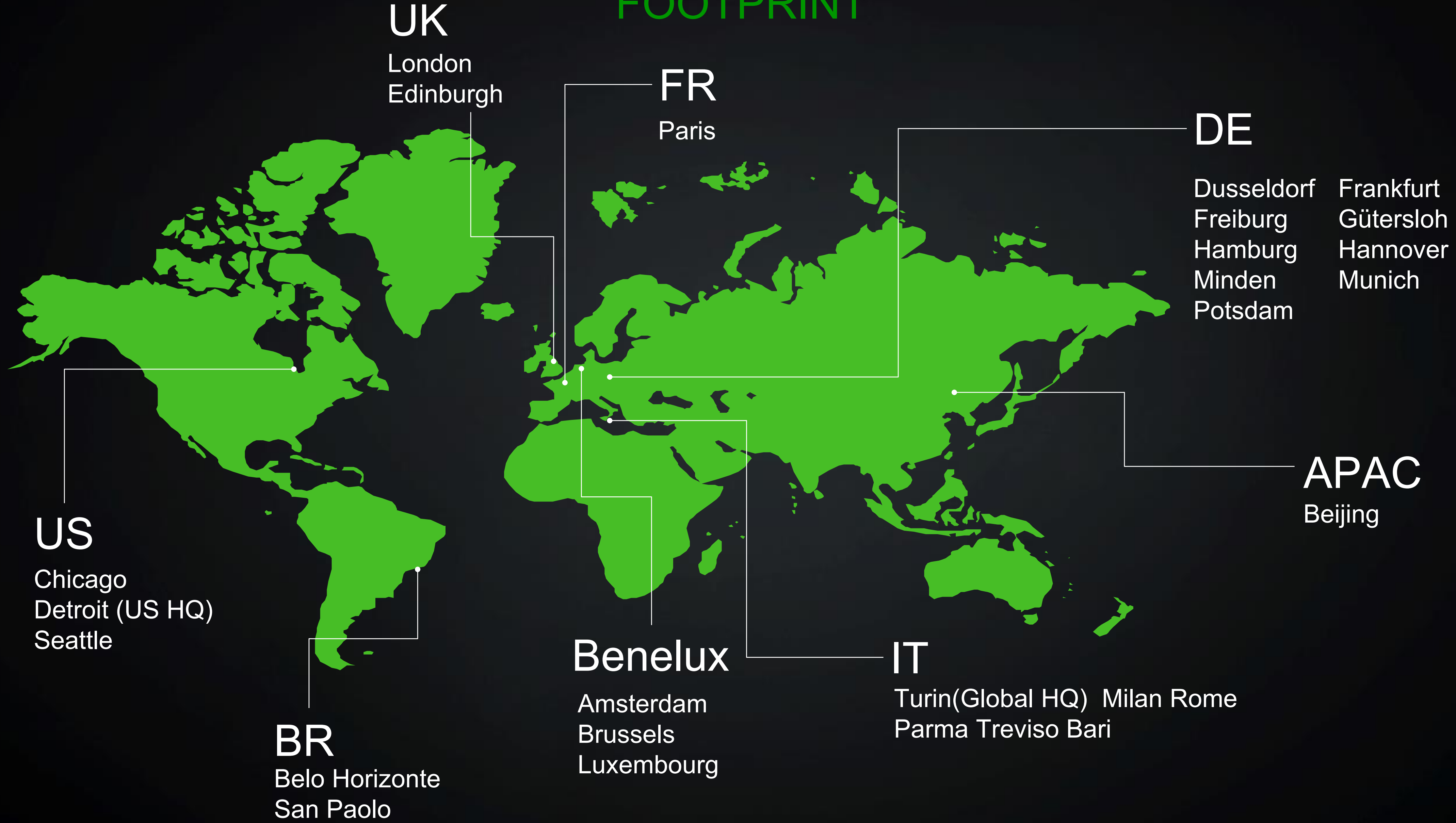


Large Customers
With a very high
retention



About REPLY

FOOTPRINT



TO PROGRESSIVELY
MAKE THE ENTIRE
FACTORY A
COMPREHENSIVE
INFORMATIVE
SYSTEM, ABLE TO
CONNECT THE
REAL WORLD OF
GOODS TO THE
DIGITAL WORLD OF
DATA, ENABLING
COOPERATION
BETWEEN HUMANS
AND MACHINES



FACTORY

PRODUCTS
FORECAST

ADAPTIVE
PLANNING

MASS
PRODUCTS

CUSTOMIZED
PRODUCTS

HUMAN
DRIVEN

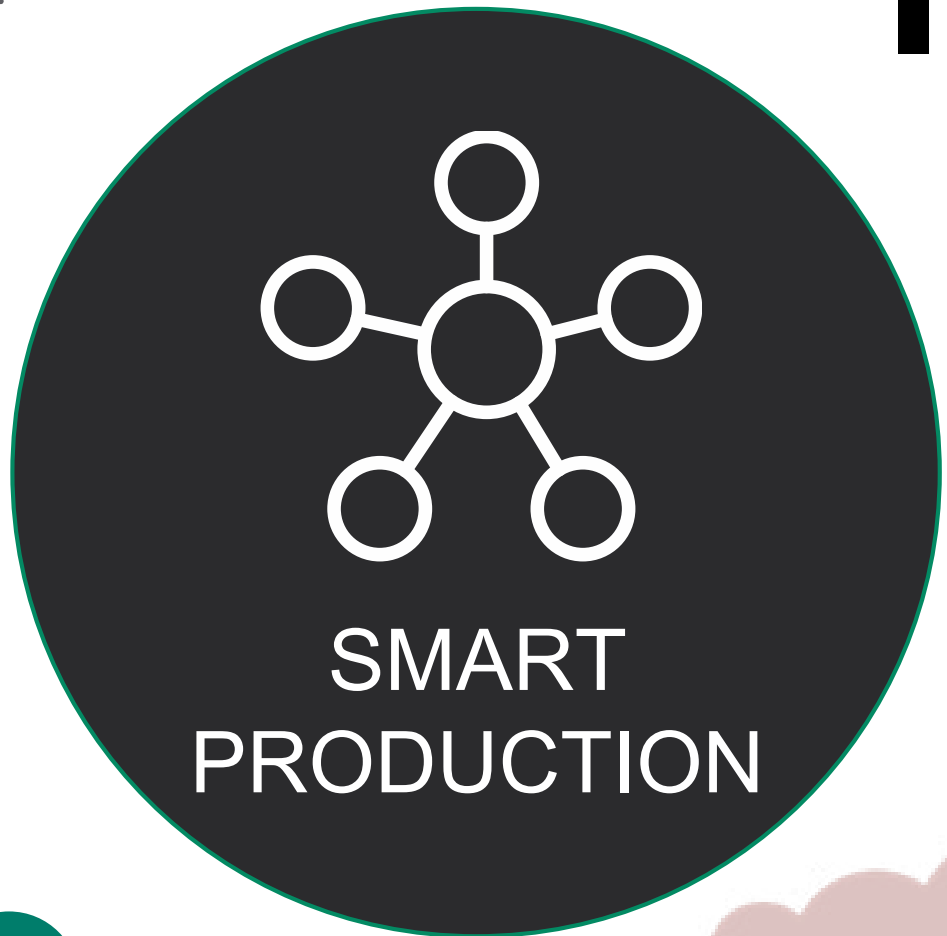
MACHINE
DRIVEN

SMART FACTORY



Industry 4.0 Offering

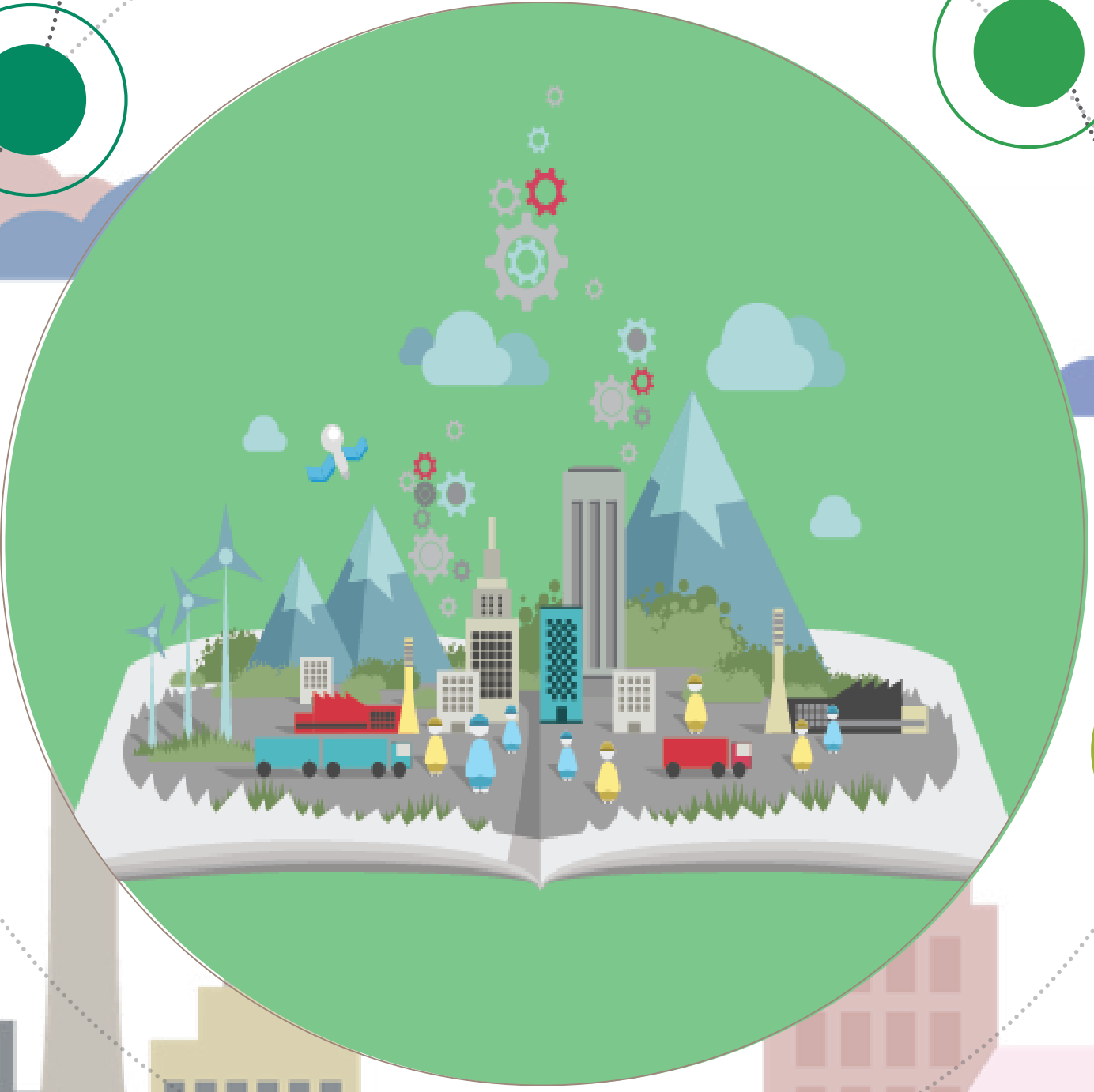
Proficiency Areas



- IOT
- CLOUD COMPUTING
- OBJECTS TAGGING



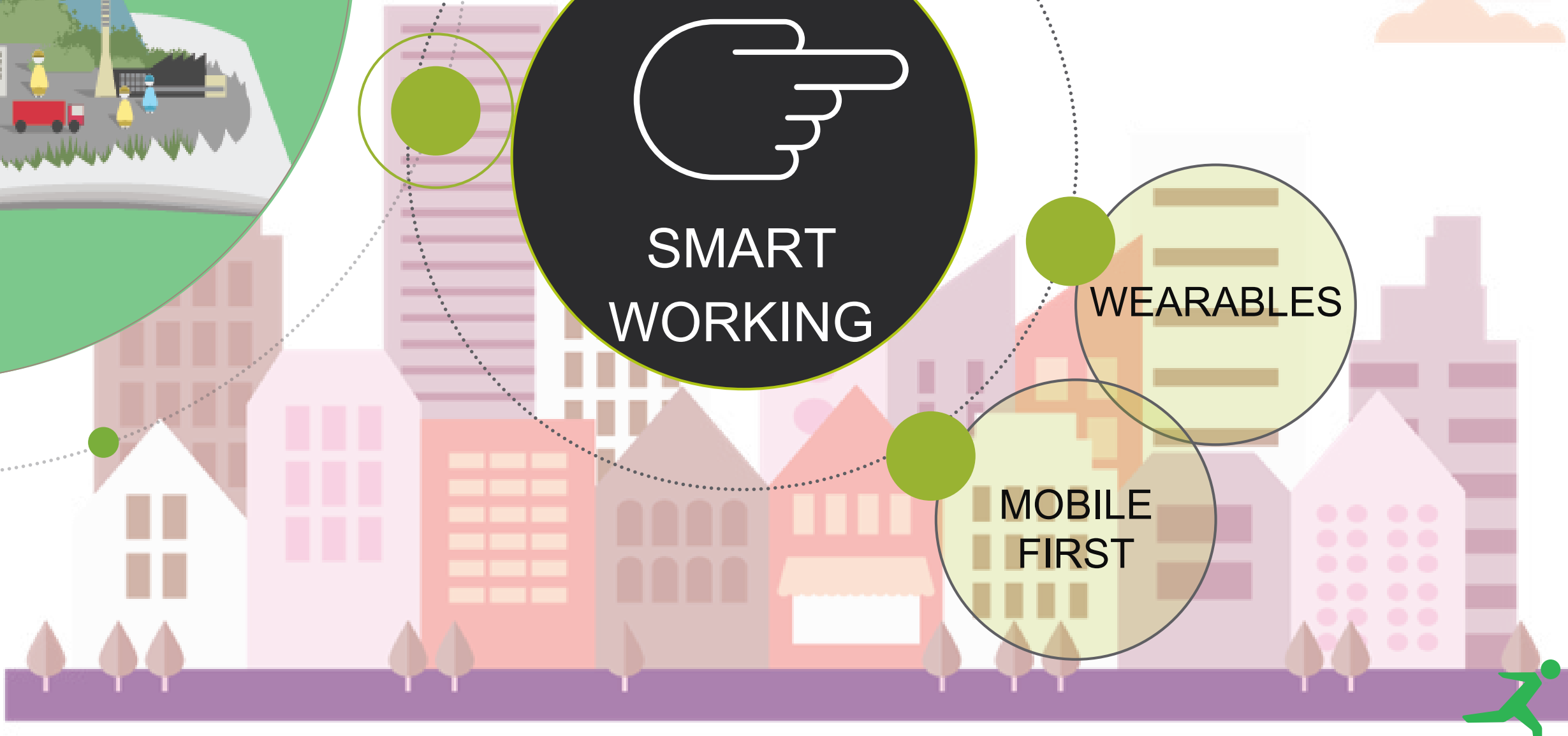
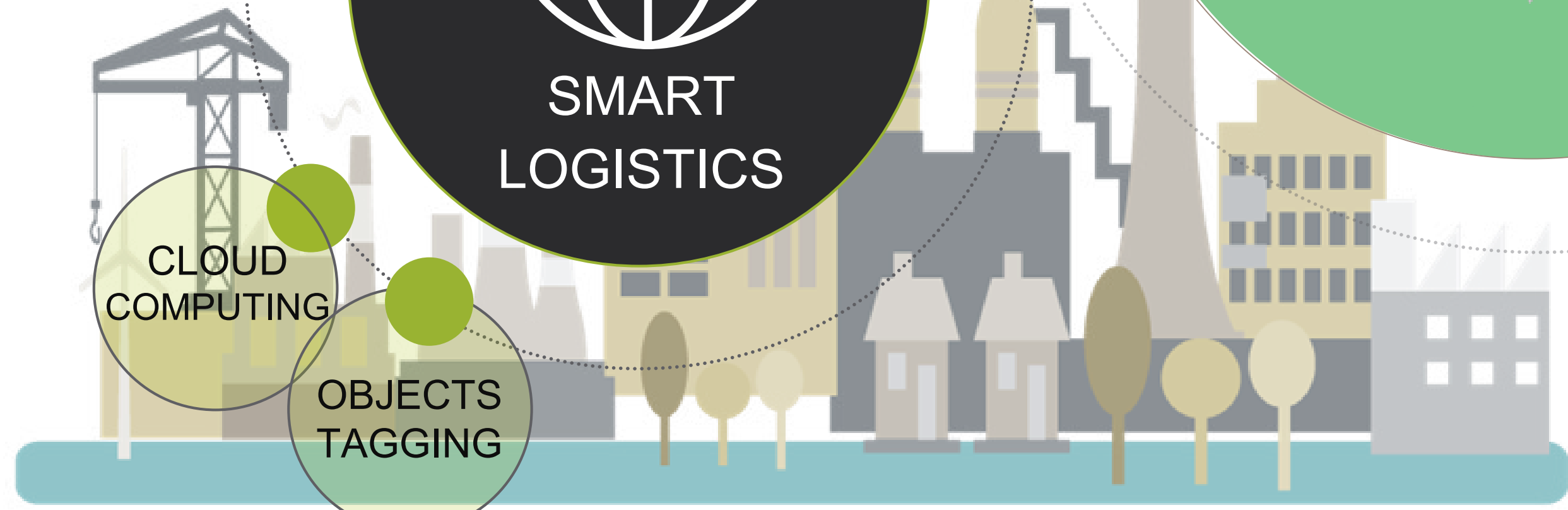
- MACHINE LEARNING
- BIG DATA
- CLOUD COMPUTING



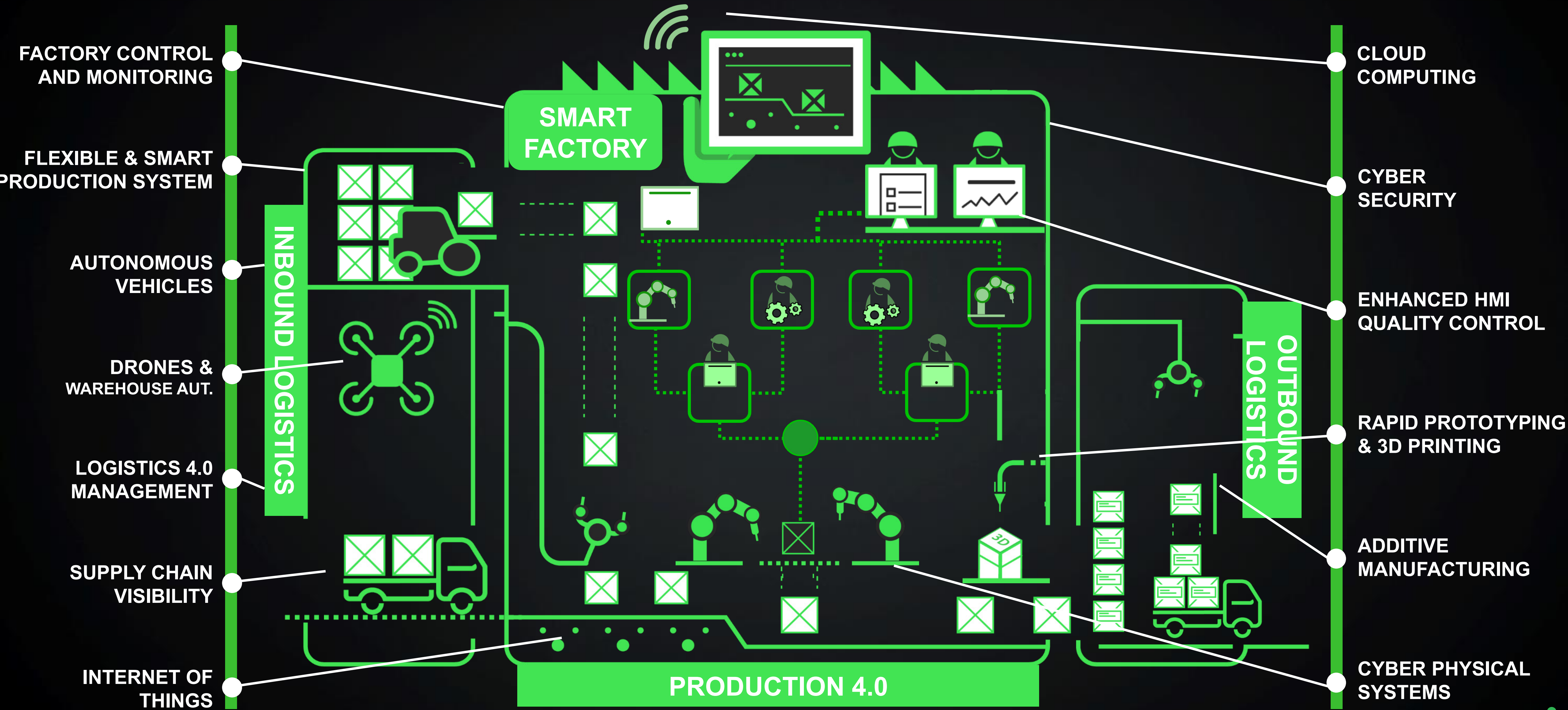
- CLOUD COMPUTING
- OBJECTS TAGGING



- WEARABLES
- MOBILE FIRST



Industry 4.0 Landscape



Supply Chain Execution

Reply LEA Logistics Execution Architecture

LEA TECHNOLOGIES

**IoT MACHINE
INTEGRATION**

**CLOUD
NATIVE**

**MACHINE
LEARNING**

**HUMAN-MACHINE
XFACE**

**APP-IZATION
MICROSERVICES**

LEA APPs



**Supply Chain
Replenishment**



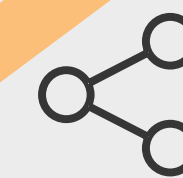
**Yard
Management**



**Warehouse
Billing**



**Logistics
Analytics**



**Hub / Transit
Point**



**Appointment
Schedule**



**Labor
Management**



**Warehouse
Management**



**Proof of
Delivery**



**Store
Logistics**

SUPPLY CHAIN EXECUTION

**PRODUCTION
SITES**

**CENTRAL
WAREHOUSES**

**TRANSIT POINT
HUB**

**DISTRIBUTION
CENTERS**

SUPPLIERS

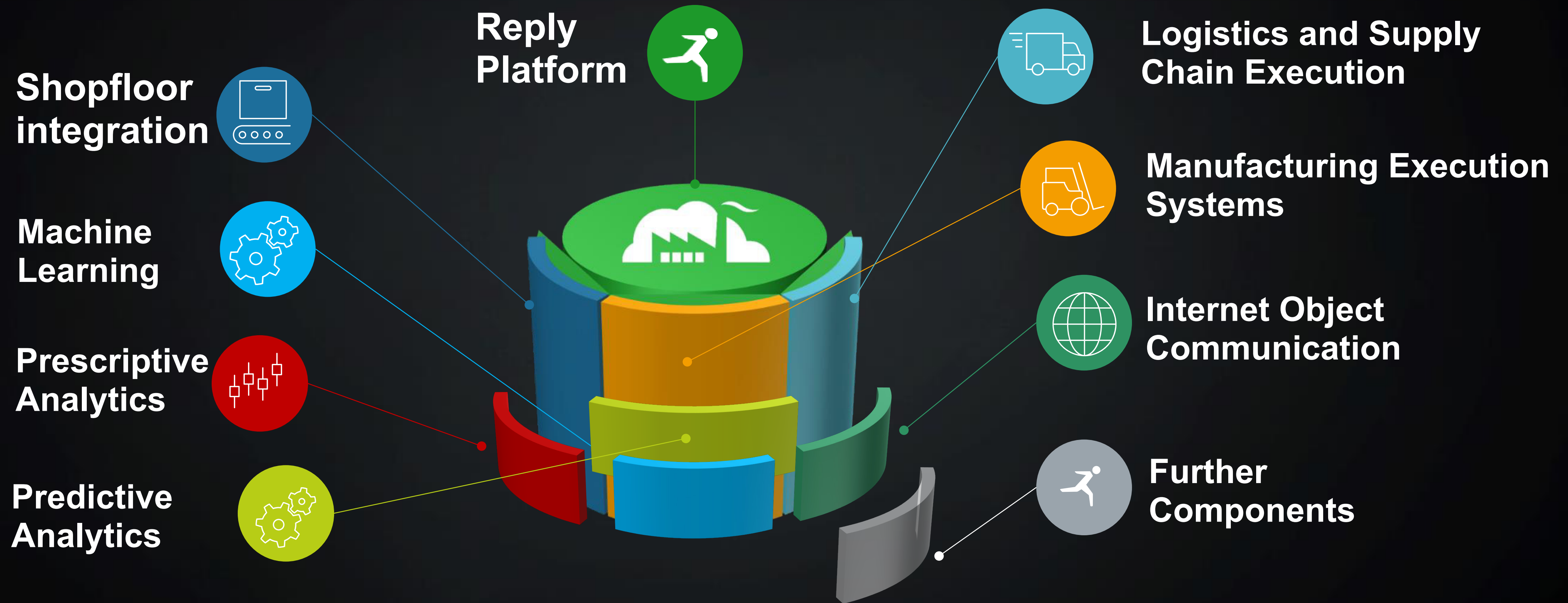
CUSTOMERS

POINT OF SALE



Reply Offering

Within Industry Sector



SCE applications like **WMS** move from a monolithic domain to a combination of independent **Sub-Systems**. All capable of functioning in a **decoupled** and **individually meaningful** manor

All Applications interact through a **catalog of elementary business services** to allow end-to-end process orchestration for SCE convergence.



- Purchase Order
- Inbound ASN and trips
- Receiving reconciliation

RECEIVING SYSTEM

- Accounting ledger entities
- Accounting Stock
- External Sites

ACCOUNTING SYSTEM



- Shipment & Sales Order
- Stock availability pre-check
- Fulfillment reconciliation

ORDER FULLFILLMENT SYSTEM

- Stock Handling
- Picking Disposition
- Job and movements

PHYSICAL STOCK SYSTEM



- Parcel and delivery notes
- Outbound trips and loading
- Packaging process

SHIPMENTS SYSTEM

- Slot, shelf and path
- Space management
- Location selection strategies

MAP-LOCATION SYSTEM



Industry 4.0 Offering

Logistic 4.0



HOW IT WORKS

Click Reply™ is designed to create a cloud-native & in-memory infrastructure displaying internal and third party resources and using a single standardized platform. This allows the management of structured and heterogeneous data, speeding up the development and deployment of web and mobile applications.

RELEVANT FEATURES



RFID

To manage and control of a wide range of devices for reading and writing tags based on RFID technology.



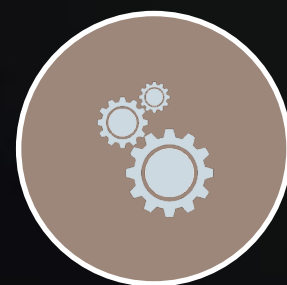
Voice Recognition

for performing purely vocal processes "hands-free" and "eyes-free"



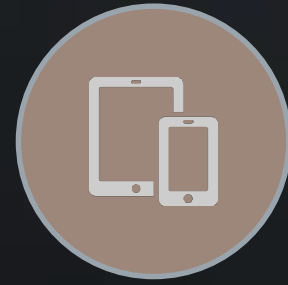
Productivity

To measure, monitor and improve business performance by modeling the processes to be monitored and featuring automated timing and performance measurement capability



WCS

To provides a uniform interface to a broad range of material handling equipment such as ASRS, carousels, conveyor systems, sorters, palletizers



Mobile

To support on-line and off-line supply chain execution processes based on the most common mobile platforms

BUSINESS BENEFITS

ACCURACY

Reduction of delivery times, Increased efficiency in orders fulfilment, Lower number of incomplete orders, Errors reduction in picking and deliveries, Increased stock accuracy, Lower percentage of waste, Less back-up stock, Higher warehouse saturation

OPERATIONS

High operational flexibility, Advanced compatibility with future releases, Collaboration between trading partners, Labor cost reduction, Paperwork reduction, Business logics and operational procedures highly configurable, Increased flexibility in exceptions management

IT

Web access to the system, Comprehensive 3-Tier architecture, Seamless Integration, Centralised and/or distributed architecture, HW and SW scalability, New developments "Capitalization", Reduced Application Management costs, Reduced Facility Management costs





a **Connected Enterprise platform** which combines processes and devices.

a comprehensive **Manufacturing Operations** product aimed to manage all production activities, integrating ERP, connecting equipment and machinery, processing and monitoring results.

available in different services level, from **SaaS** and **PaaS** models to **IaaS** and **on-premise** on client infrastructure.





HOW IT WORKS

Brick Reply manages a Factory integrating Machines, Devices and Human Activities. It is able to communicate with equipment on different protocols (IIoT, OPC, PLC, IoT, etc) giving the opportunity to use such information for the production management, along with human interaction, orders workflow and overall reporting and maintenance management.

RELEVANT FEATURES



IoT Integration

Brick supports IoT protocols of new generation of industrial equipments. Brownfield is supported via OPC-Server on local shopfloor devices.



User Experience

User Experience is designed for all users target, from workers to Managers.



Open for the future

We are working on big data and machine learning capabilities, opening for future support of predictive and prescriptive analysis on client data.



As A Service

Platform tailored to customer needs, whether is completely on cloud, in SaaS model it can also be delivered on-premise or IaaS scenarios.



Manufacturing Process Control

The platform can be configured and tailored to fit different production processes within different industries and different plant layouts.

BUSINESS BENEFITS

EASE OF INTEGRATION

MoM Solution based on new technologies (IoT, Cloud, Big Data) can be used as Full cloud solution or hybrid/on premise solution
Able to receive signals from PLC and new IoT Sensors

NO UPFRONT COSTS

No HW investments (for cloud version)
No License Maintenance (permanent license)

WORKERS TRAINING COSTS REDUCTION

Intuitive way of use, supporting any kind of devices
Integrated video tutorial and enhanced User Experience

EASE OF CHANGE MANAGEMENT

Completely configurable (plant layout, production cycles, reporting, etc). Integrable with ERP and shopfloor systems



BRICKREPLY Industry 4.0 Landscape

Cloud & Plant scenario

