

SMART FACTORY

MANUFACTURING OPERATIONS MANAGEMENT (MOM)
FOR CONSUMER PACKAGED GOODS INDUSTRY



HOW LEADING CPG MANUFACTURERS ARE MANAGING CHANGE IN A HIGHLY VOLATILE AND DYNAMIC INDUSTRY TO DELIVER INNOVATION FASTER, CHEAPER, AND SMARTER



**VIRTUAL
PLANNING FOR
PRODUCTION**

**SMART
PRODUCTION
PROCESS**

**OPTIMIZE
RESOURCE
ALLOCATION**

**LEVERAGE THE
4TH INDUSTRIAL
REVOLUTION**

**SIMPLIFIED
MONITORING OF
MANUFACTURING
OPERATIONS**



WHAT SMART FACTORY LOOKS LIKE

PLAN

Perfect launches are **planned** with real-time visibility to manufacturing data across the enterprise

EXECUTE

Operational excellence is **executed** by synchronizing plant operations

OPTIMIZE

Continuous improvement is **optimized** with global manufacturing operations management and quality process standardization



SMART FACTORY PERFECTLY LAUNCHES PRODUCTS UP TO 20% FASTER

PERFECT LAUNCH, ENABLED BY:

- Digital continuity of data across the value chain
- Product design and manufacturing systems are digitally integrated (V+R)
- Simulation based decision support based on multi-scale global production model



SMART FACTORY REQUIRES OPERATIONAL EXCELLENCE

OPERATIONAL EXCELLENCE, ENABLED BY:

- Vertically integrated and networked manufacturing systems
- Dynamic production, warehouse, quality, and maintenance processes
- Synchronized material flows to production, fulfilling demand-oriented production



SMART FACTORY REQUIRES CONTINUOUS IMPROVEMENT

CONTINUOUS IMPROVEMENT , ENABLED BY:

- Real-time visibility, delivered across global, horizontally integrated value chain
- Global process consistency, while accommodating local variances
- A global approach to traceability and containment



PERFECT PRODUCTION INDUSTRY SOLUTION EXPERIENCE

- New product introductions delivered up to 20% faster
- Lower Cost-of-Goods Sold by up to 27%
- Reject rate close to zero
- Throughput increase without additional resources
- Transparency across production sites



L'ORÉAL PARIS

GENERATING VALUE

- Brand integrity with interlocking traceability, including suppliers
- Enforce best practices across evolving supply chain
- FDA compliant Batch Records (eBR), adherence to ISO 14001
- Solution facilitates >80 ECO /week under validated environment
- Visibility and control over 30 sites, globally coordinating NPI

L'ORÉAL DEPLOYS MONTHLY PROCESS IMPROVEMENTS TO OVER 30 SITES ACROSS THE GLOBE

> CLICK TO ACCESS VIDEO

L'ORÉAL
PARIS

SÜDZUCKER

GENERATING VALUE

- Enterprise warehouse, quality & production solution
- 3 to 6 Million Euro cost savings
- Line efficiency, material usage, overfilling and storage costs
- Visibility, synchronization, control of mfg. assets for analysis & continuous improvements
- KPI's to drive reductions in QA/QC cycles

SÜDZUCKER CENTRALIZES AND ANALYZES DATA TO IDENTIFY AND REPLICATE BEST PRACTICES ACROSS HUNDREDS OF PRODUCTS AND THOUSANDS OF BARCODES

> CLICK TO ACCESS VIDEO

SÜDZUCKER



SMART FACTORY

PLAN

End-to-end digital integration of data across value chain to increase the **agility** of the organization

EXECUTE

Optimize resource allocation and increase **efficiency** in the plants to drive revenue

OPTIMIZE

Optimize the global supply chain with smart and simplified processes to **accelerate innovation** and manage quality

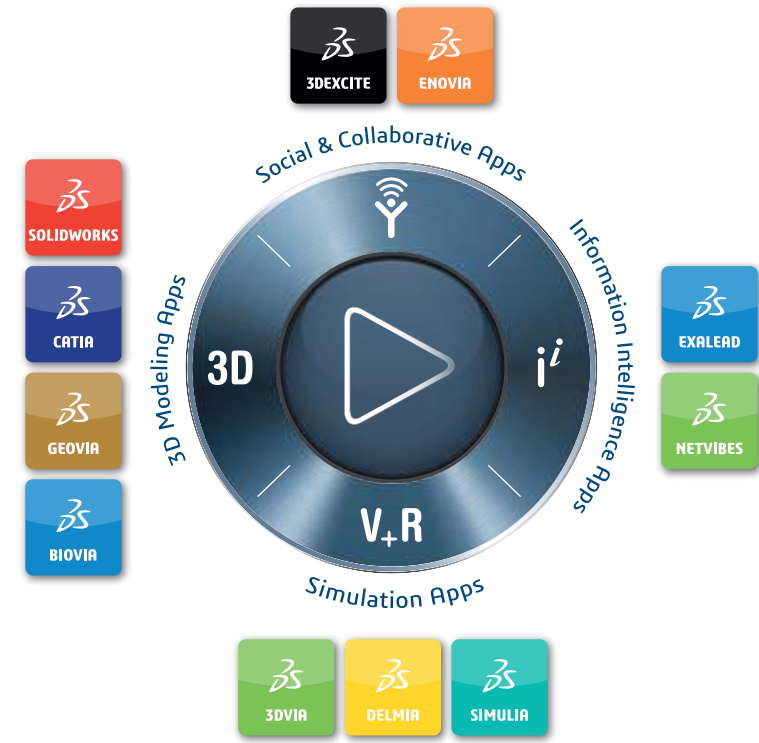
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Europe/Middle East/Africa
 Dassault Systèmes
 10, rue Marcel Dassault
 CS 40501
 78946 Vélizy-Villacoublay Cedex
 France

Asia-Pacific
 Dassault Systèmes K.K.
 ThinkPark Tower
 2-1-1 Osaki, Shinagawa-ku,
 Tokyo 141-6020
 Japan

Americas
 Dassault Systèmes
 175 Wyman Street
 Waltham, Massachusetts
 02451-1223
 USA

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