

**GEICOTAISHA**  
Turnkey original coating plants for the vehicle industry

**DS** DASSAULT  
SYSTEMES

# Geico Taikisha Digital Factory Showcase

September 9, 2020  
3PM CET







# Geico Taikisha Digital Factory Showcase

Visit Geico Taikisha virtually at the Pardis Innovation Centre in Cinisello Balsamo, Italy and learn firsthand how Geico Taikisha and Dassault Systèmes have implemented DELMIA to unlock the full potential of a Smart PaintShop.

With hands-on experience you will be able to see how Geico Taikisha used DELMIA Apriso to create deep insights in the entire range of processes in the Paintshop, from the arrival of a dirty car body to the exit of a perfectly painted one, to manage and guide each step with precision starting with the production order and resulting with the desired quality result, all documented in each car body logbook.

## Our host at Geico Taikisha:

**Daryush Arabnia**, Chairman, President & CEO

**Frank Levering**, New Technologies & IT Senior Manager

**Daniel Raspone**, Digital Transformation and Product Manager

**Juan Sebastian Avila Cortés**, Junior Automation Integrator





# Geico Taikisha

Geico Taikisha is a global leader in the planning and construction of turnkey automated car painting systems. The partnership between Taikisha Ltd., a Japanese giant specializing in the construction of car painting systems, and Geico Spa began in 2011. However Geico, headquartered in Italy, has been designing and manufacturing complete turnkey car painting systems for over 50 years.

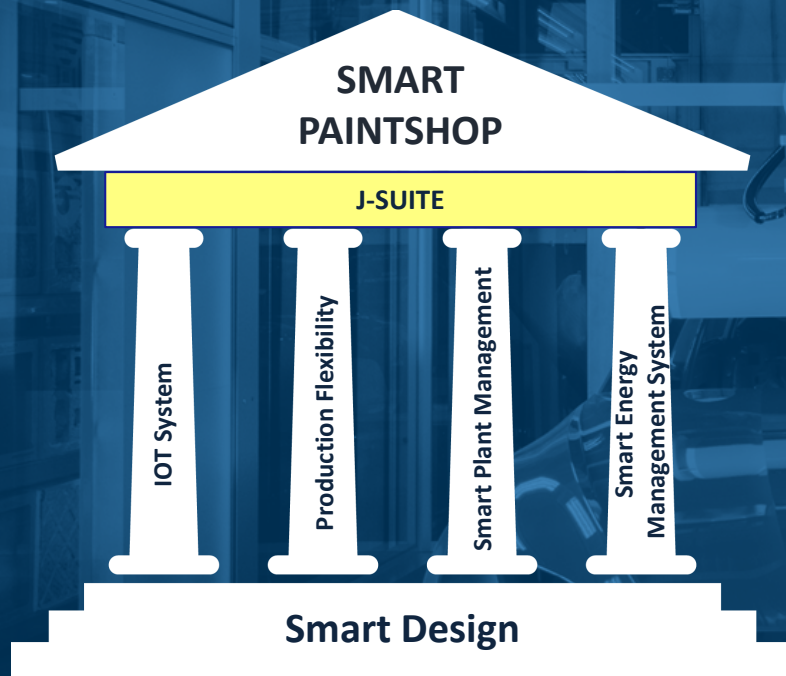
Geico and Taikisha's main customers are global car manufacturers. They have a joint presence in 20 countries with a network comprising over 43 offices and 6 manufacturing units, with average annual turnover of \$2 billion. Geico and Taikisha currently have a joint market presence with over 5,000 employees.

## Pardis Innovation Centre

In 2013 Geico Taikisha has opened the Pardis Innovation Centre in Cinisello Balsamo, Italy. A innovative 3,600 square meters big R&D center, where more than 40 working prototypes of different technological car painting solutions are displayed.

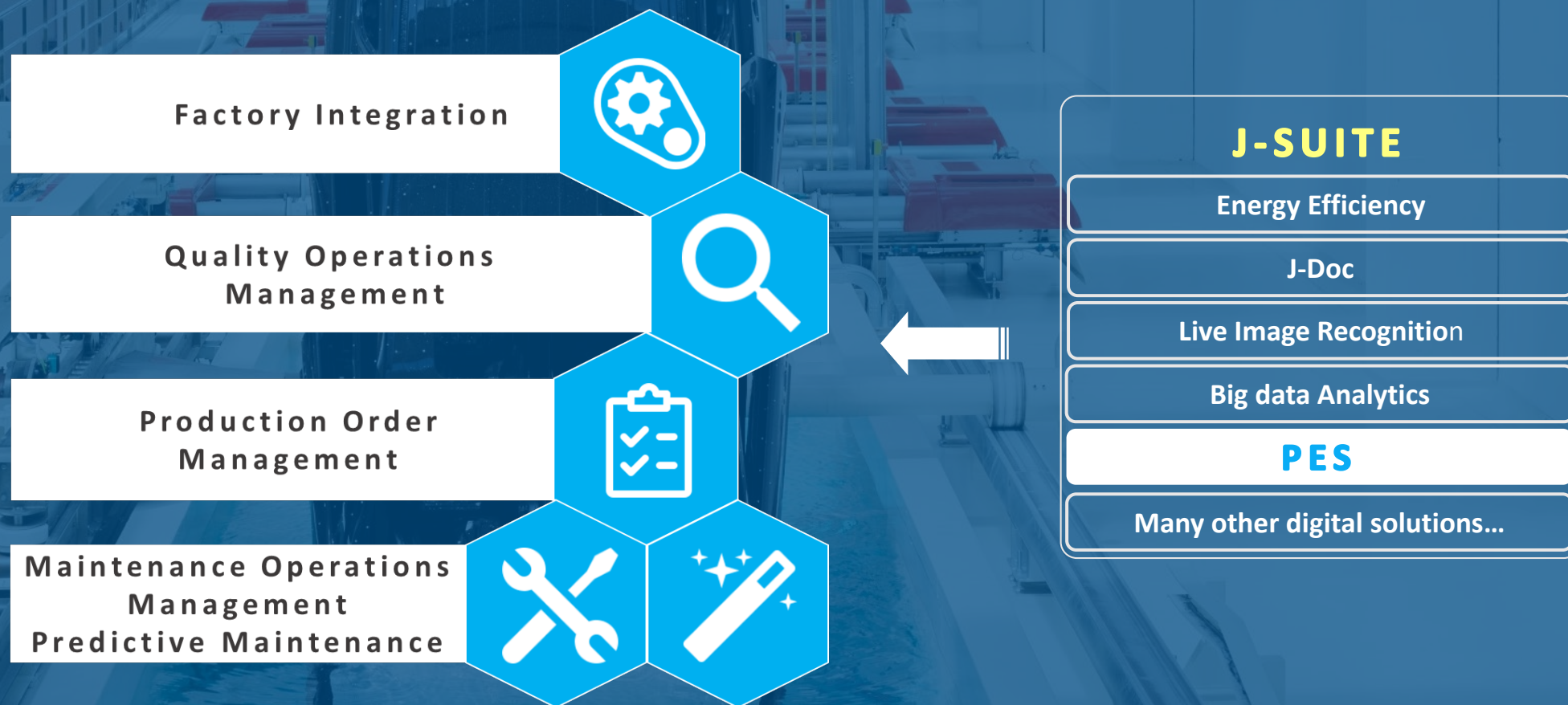


# Smart PaintShop



- **J-Suite** – The brain of PaintShop, a digital platform that manages communications between processes and systems of the end customer (MES, ERP, PLM, etc.)
- **IOT System** – Recording and data analysis for a more efficient paint shop through sensors and processing capabilities that are superior compared to the past
- **Production Flexibility** – Technologies that allow the plant to adapt to real production needs
- **Smart Plant Management** – Technologies that enable human-machine cooperation within the paint shop
- **Smart Energy Management System** – Technologies that monitor energy consumption and effectively support paint shop activities
- **Smart Design** – Impact on internal processes with the aim of drastically reducing plant delivery times

# Smart Paintshop Project – PaintShop Execution System



The PaintShop Execution System is a MES system fully adapted to match the requirements of its specific environment.



# What has improved in the Paint Shop?

**Increased Production Flexibility** with digital Strip Out capabilities and changes to production orders, as changing circumstances require it

- Production order management
- Maintenance management
- Quality management
- Buffer management

**Smarter and more Insightful**, with the ability to view an entire car body's history instantly and controls to observe all KPIs in a single glance

- Car Body Logbook
- Manual and Automated Quality log options
- KPI Dashboards







# What has improved in the Paint Shop?

**More Efficient** through sensors and processing capabilities, that allow for the right decision at the right moment by the right people

- Industrial IoT
- Optimized HMI
- Edge processing of the sensor data



Buffer

ALL

No Auto Refresh

REFRESH

Orders found: 1

Visual Inspection Station - CO000235

OVEN

Skid No  
SK347Skid No  
SK348Skid No  
SK349Skid No  
SK350Skid No  
SK351Skid No  
SK352Skid No  
SK353Skid No  
SK354Skid No  
SK355Skid No  
SK356Skid No  
SK357Skid No  
SK358

EMPTY BUFFER

QA

Carbody logbook

CB0003299 - CB Model 001

Started

DEFECTS  
No defects found.START DATE  
30/06/2020 02:26:25END DATE  
...

Tracking Info

Visual Defects

30/06/2020 02:31:08

30/06/2020 02:33:20

1 Tank 4

Completed

MACHINE  
2CL - Tank #4DEFECTS  
No defects found.START DATE  
30/06/2020 02:33:24END DATE  
30/06/2020 02:35:37

OVEN

Completed

DEFECTS  
No defects found.START DATE  
30/06/2020 02:35:44END DATE  
30/06/2020 02:52:45

HIDE DETAILS

1 stage 1

Completed

MACHINE  
Oven - Stage #1DEFECTS  
No defects found.START DATE  
30/06/2020 02:35:49END DATE  
30/06/2020 02:38:49TUNNEL TEMPERATURE 1 - END\_CYCLE  
30.00°C 150.00°C 140.00°C 140.00°CTUNNEL TEMPERATURE 2 - END\_CYCLE  
30.00°C 200.00°C 170.00°C 210.00°CTUNNEL TEMPERATURE 1 - START\_CYCLE  
30.00°C 150.00°C 140.00°C 140.00°C

TUNNEL TEMPERATURE 2 - START\_CYCLE

Quality Check

SK187 CB0000275 MODEL001

DONE

Visual Defects

Generic Defects List

View by

Position

FRONT 1

QD0000077 - Coat

Normal

View

LEFT 0

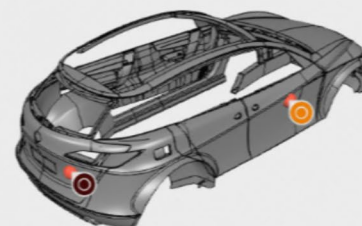
REAR 1

QD0000078 - Coating

Normal

View

RIGHT 0



View Tools Reports

NEW DEFECT





REGISTER >

## Event Registration & Info



### Event Registration

Register now for this digital event. After validation by the hosting company you will receive a confirmation email with your personal link to join the event.

We may respectfully deny competitor participation.



Check the current agenda on the event website



Contact the DELMIA team with any questions