

# COMAU

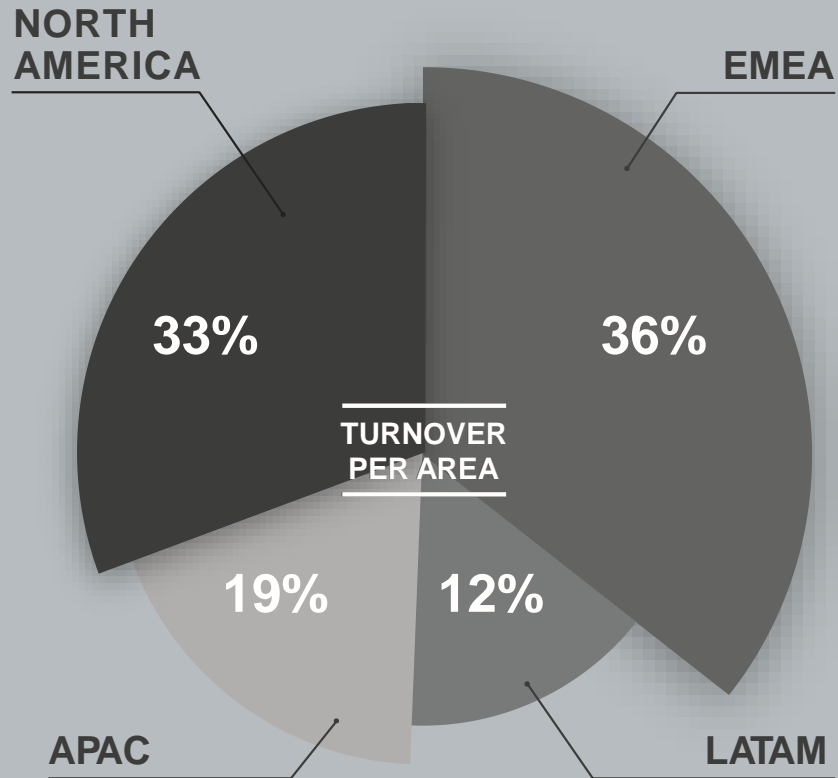
## CORPORATE PRESENTATION

G. Di Stefano – CTO Electrification

19/06/2020

# OUR KEY FIGURES

Giovanni Di Stefano – COMAU - EPIC Online Technology Meeting on Laser Beam Welding



PEOPLE

9300

Employees

<40

Age Average

1800

Graduate Education +

3300

Millennials

200

Certified PMI Project Managers

>200

Electrification Specialists



ACTIVITIES  
(Last 3 years)

>250

Comau #projects

>20

Comau #product launches

>150

Client #products with Comau technologies

# OUR GLOBAL FOOTPRINT

Giovanni Di Stefano – COMAU - EPIC Online Technology Meeting on Laser Beam Welding

14

Countries



# OUR OFFERING

Giovanni Di Stefano – COMAU - EPIC Online Technology Meeting on Laser Beam Welding

Consultancy

Body Assembly

Machining

Powertrain Assembly

Electrification

Process Technologies

Automation for General Industry

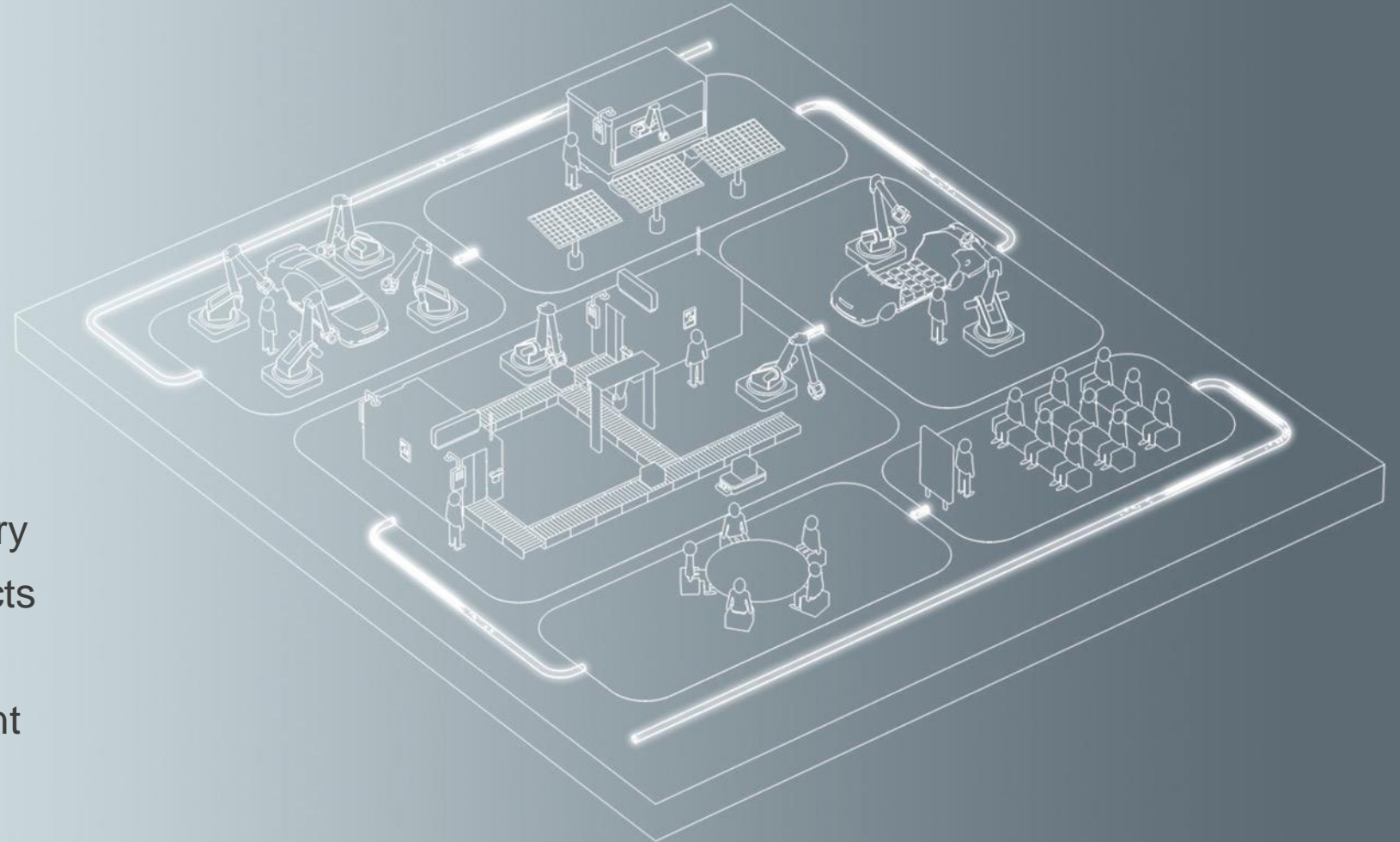
Robotics & Automation Products

HUMANufacturing Products

Enterprise Asset Management

Digital Transformation

Academy



# Process Technologies for Battery Assembly

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## COMAU Technology Integration

**LASER  
SOURCE**



**COMAU  
Lhyte**

**ROBOT**



**COMAU  
NJ-Family**

**WELDING  
HEAD**



**COMAU  
Custom Head**

**PROCESS  
CONTROL**



**COMAU  
Hybrid  
Thermography**

**BIG DATA  
PLATFORM**

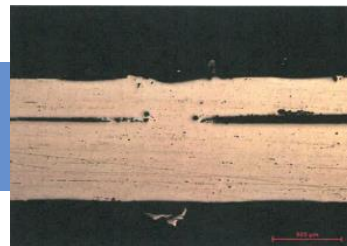
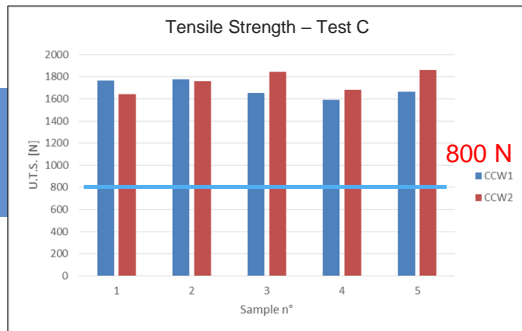
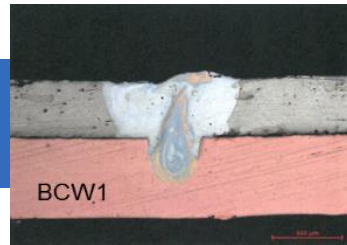
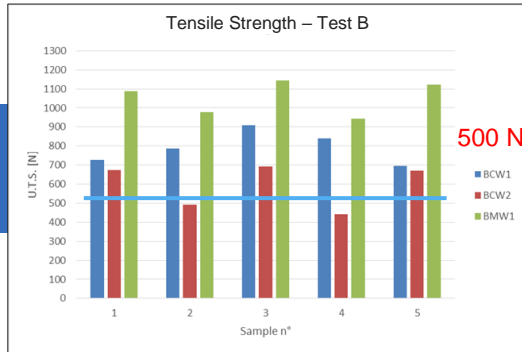
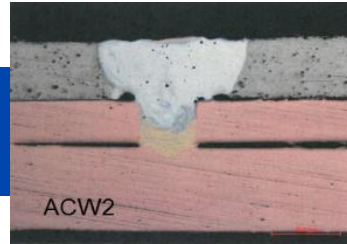
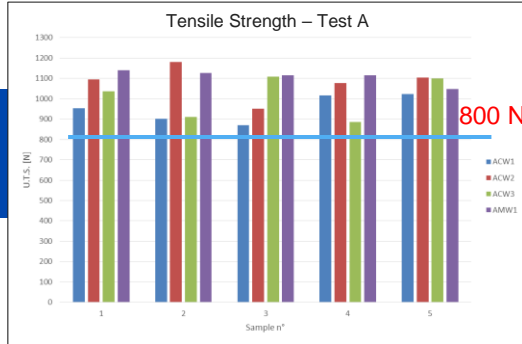


**COMAU  
In.Grid**

# Battery Assembly Process Validation

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## Tab Laser Welding



# Hybrid thermography

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Infrared military cameras



Low cost cameras

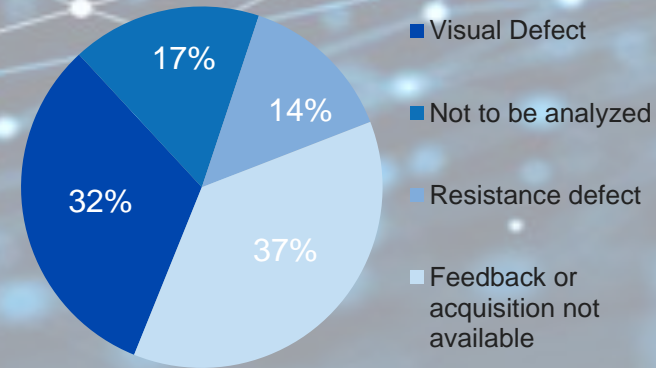
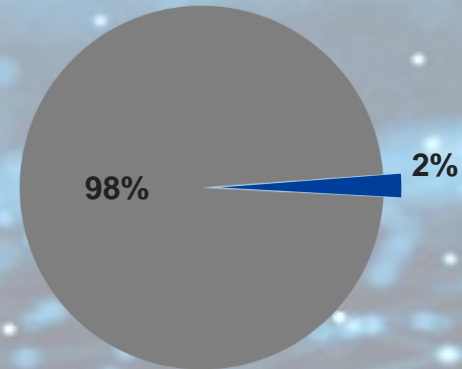


Melting pool inspection



## DATASET

■ No defective ■ Defective



## Confusion Matrix

		Predicted Class	
		no defect	defect
Target Class	no defect	3471	241
	defect	3	46

Accuracy: 94%

Conservative approach:  
*prefer to predict more samples as defective*



# COMAU

Motor behind imagination

A brand of **FCA**  
FIAT CHRYSLER AUTOMOBILES

Property of **Comau** - Duplication prohibited

Classification Level: GENERAL BUSINESS