# *Company Presentation*

**Plastic Systems & Components for Automotive Exteriors, Interiors, and Powertrain**

SELMAT AUTOMOTIVE  SELMAT VEICOLI SPECIALI  martinplast moulded solutions  JCM  Top PLASTICS ITALY Srl

# Company Profile & Strategy

**As automotive company, Selmat Group develops, manufactures and distribuites plastic system components for vehicle exterior, interior and engine compartment.**

**Founded in 1957 is a privately held company, over the last years Selmat Group has developed capability from a manufacturer of industrial plastic components into a systems supplier completely vertical integrated**

**Innovation, Technologies, Quality and People are the Key Factors of our Group**

**with the aim to be the « Best in Class » and preferred partner to our customers with a balanced customer portfolio and global presence**

- **maintain and develop a best in class technology**
  - **Development new material**
  - **Design and Mould construction**
  - **Process**
  - **Product**
- **provide efficient simultaneous engineering skills and services**
- **implement strong management rules**
- **Optimize industrial footprint**
- **Optimize a balanced customer portfolio**
- **2013 Selmat has acquired Top Plastics Italy. Top is a recognized leader in the field of car air vents and interior components** http://kpitaly.com/

# Holding Chart

- *Subsidiary Poland*
- *Subsidiary Turkey*
- *Subsidiary China*
- *Subsidiary Brazil*
- *Subsidiary Romania*
- *Subsidiary Russia*

SELMAT AUTOMOTIVE

SELMAT VEICOLI SPECIALI

martinplast moulded solutions

CM

TOP PLASTICS ITALY Srl

**Technologies:**

- ✓ Injection Molding
- ✓Painting and Assemblies
- ✓ Polyurethane Injection
- ✓ Composites Materials for special applications
- ✓Vacuum Forming
- ✓Compression Forming
- ✓ Assembly Design
- ✓ Mold construction for injection molding and compression molding.

# Company Plants

SELMAT group

SELMAT AUTOMOTIVE | martinplast moulded solutions | SELMAT VEICOLI SPECIALI | HCM

**Sant'Antonino di Susa (To) Plant**

Headquarters Group Research and Development Production Center
Quality Lab Injection Department: presses up to 4000 ton

Built up area 15.000 m2

**Airasca (To) Plant**

Painting automatic system with 6 robotic stations and 1 automatic flaming station
Washing system by 4 stages with automatic transfer to the painting line
Paint static system for small series and prototypes
Built-up area 6.000 m2

**San Martino Alfieri (At) Plant**

Production Shops:

Injection Department: presses up to 4000 ton

Assembly Department: assembly and testing airvent

Built-up area 13000 m2

**HCM**

Mold construction for injection molding and compression molding.

**Dronero (Cn) Plant**

Production Shops:

Assembly Department: assembly and testing airvent

Built-up area 18000 m2

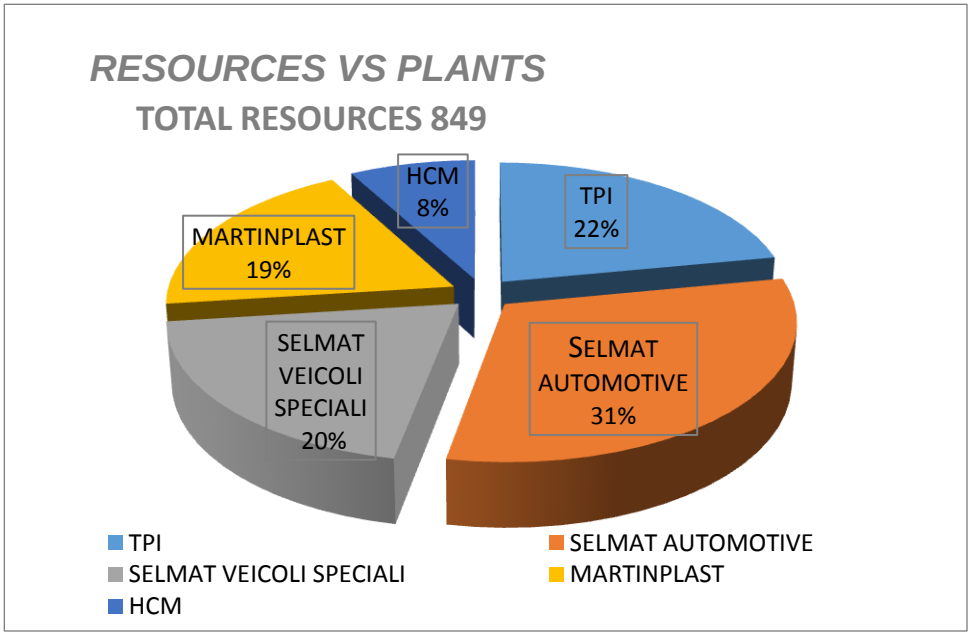
**Rosta (To) Plant**

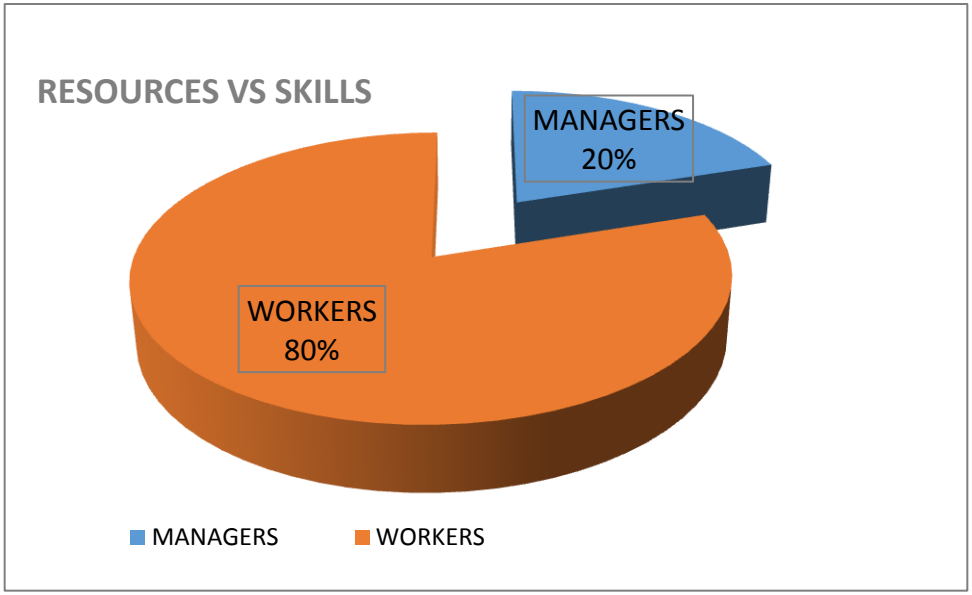
Tool shop and Design

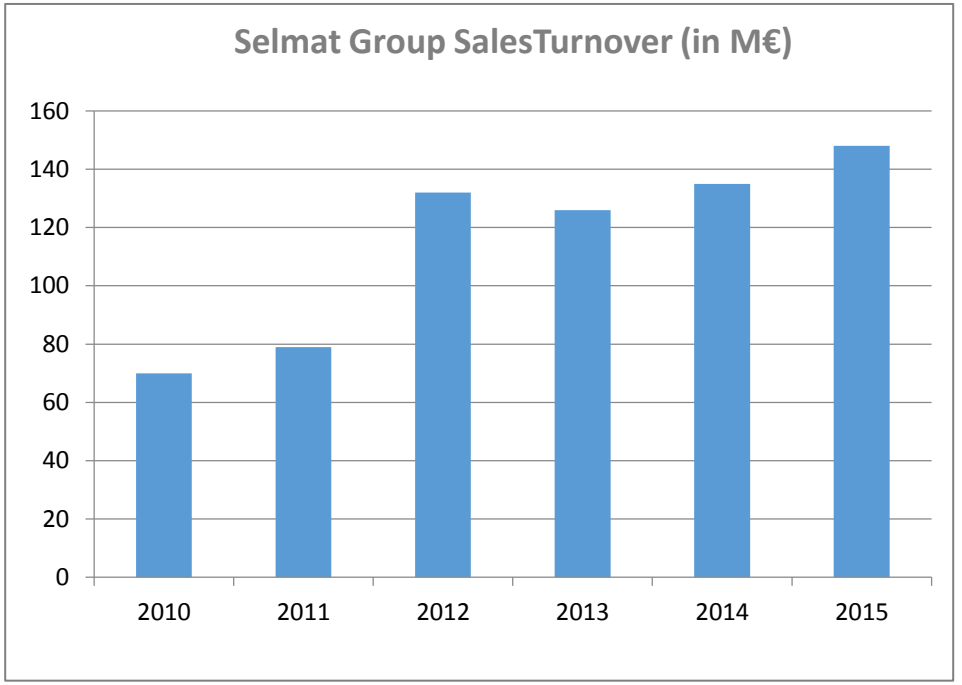
# Overview Sites

- Italy (4 plants)
- Turkey (1 plant)
- Poland (1 plant)
- China (1 plant)
- Russia tbd 2014
- Romania tbd 2014
- Brazil tbd 2015

# Figures: Employee / Skills & Turnover



# *Customer Portfolio Automotive*

# *Customer Portfolio Other Productions*

SAME DEUTZ-FAHR

CATERPILLAR®

DAF

MAGNETI MARELLI

Johnson Controls

IVECO

ASTRA
Veicoli Industriali

Visteon

PLASTIC OMNIUM

ARGOTRACTORS
Landini

irisbus
IVECO

kiekert

DENSO
DENSO THERMAL SYSTEMS S.p.A.

CNH
Case New Holland

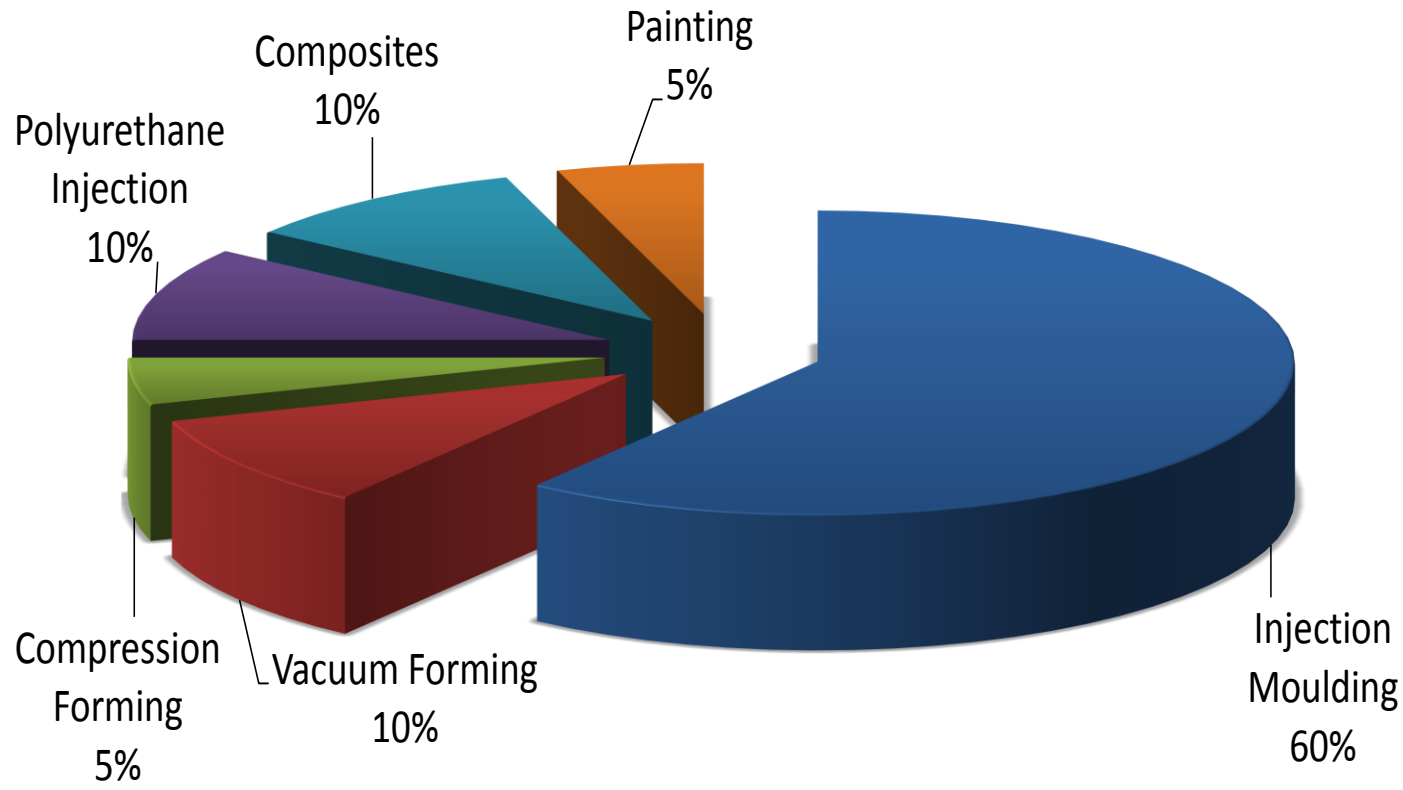
PIAGGIO

faurecia

TRW
Automotive

# *Customer Portfolio Moulds*

# Technology Competence vs Turnover




***Our extended range of core technologies allows our Development team to freely compare different product and process solutions in order to choose the best one according to Customer Specification.***

# Services Offered: Component / System Supplier Approach

**Engineering Service vs Component/ System**

- Engineering Concept Activities
- Engineering Series Activities
- Validation Activities
- Engineering Problem Solving Activities
- Engineering Support up to SOP

**Engineering Process**

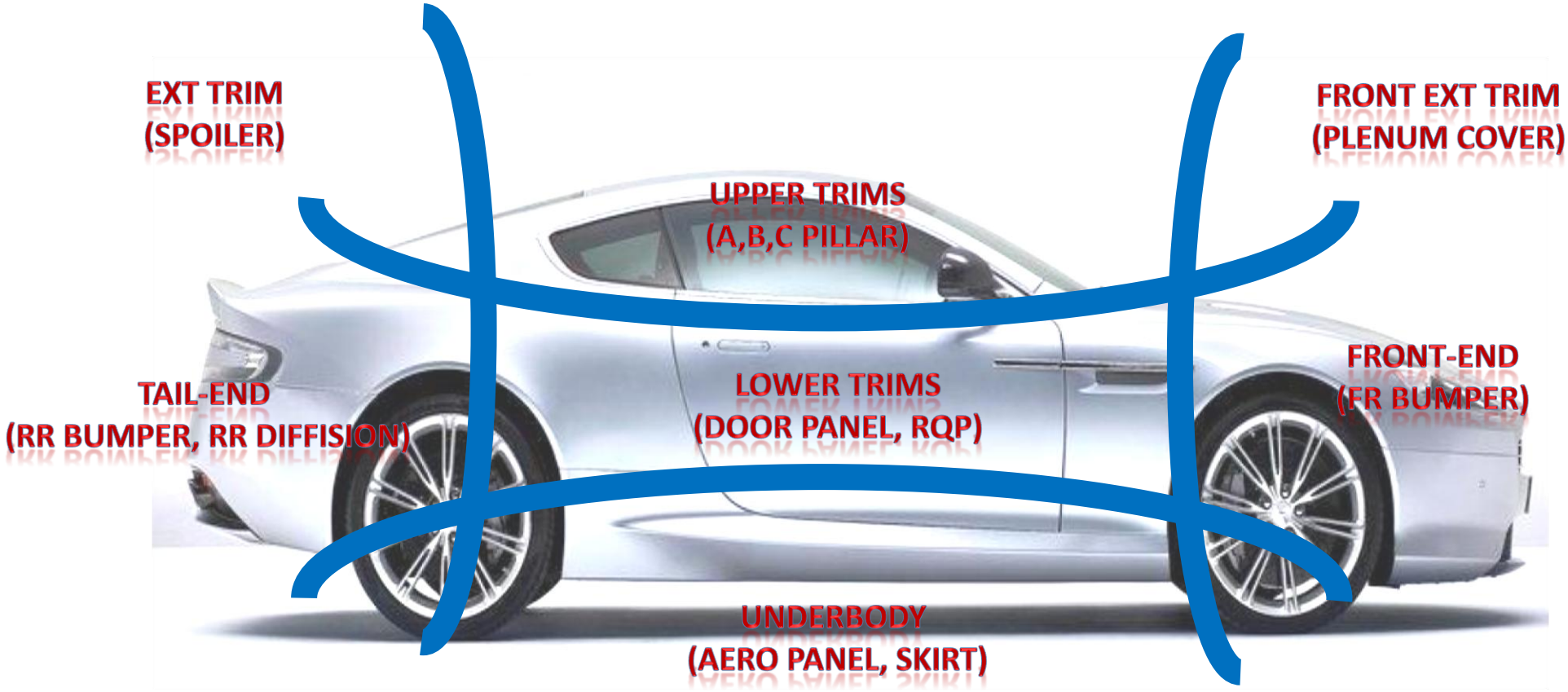
- Analysis Mold Feasibility
- Modelling & Rapid Prototyping
- Mold Design
- Mold Manufacturing
- Checking Gauge Manufacturing
- Assembly Fixture Manufacturing

**Production**

- First off tool
- Quality Loop
- Off tool part
- Off process part
- Quality Maturation
- Production Activities inlc. Paint / Assy
- Logistic Activities

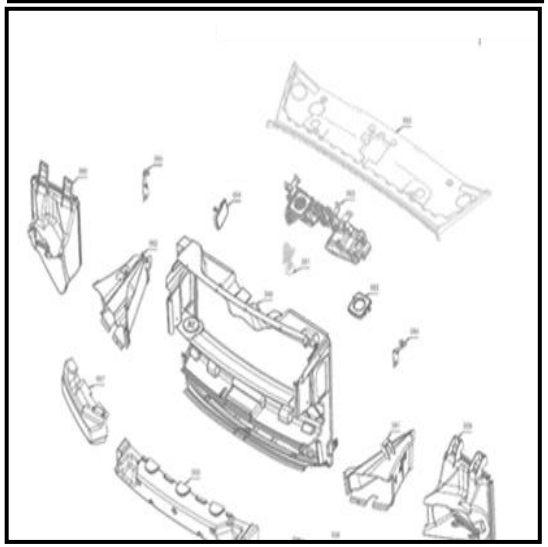
- ***Services Offered:***

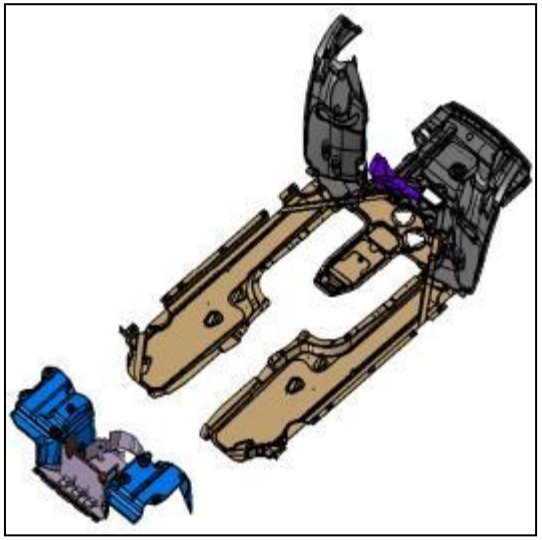
  ***Component Production & System Supplier Approach***



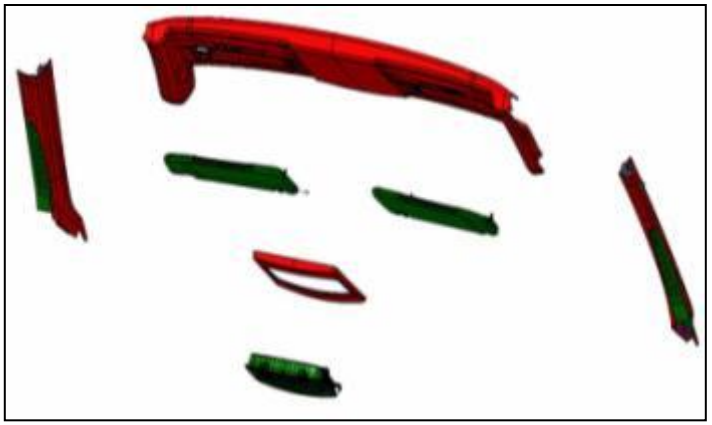

***Rear Spoilers, Rocker Panels, Front Panels, Bumpers, Dashboard, Wheel house moldings, Interiors trim, Airvents, Ashtrays***

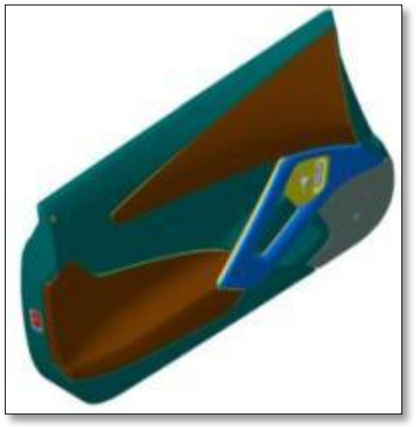
# *Services Offered: Component / System Supplier Approach*
# *Exterior Trim System*

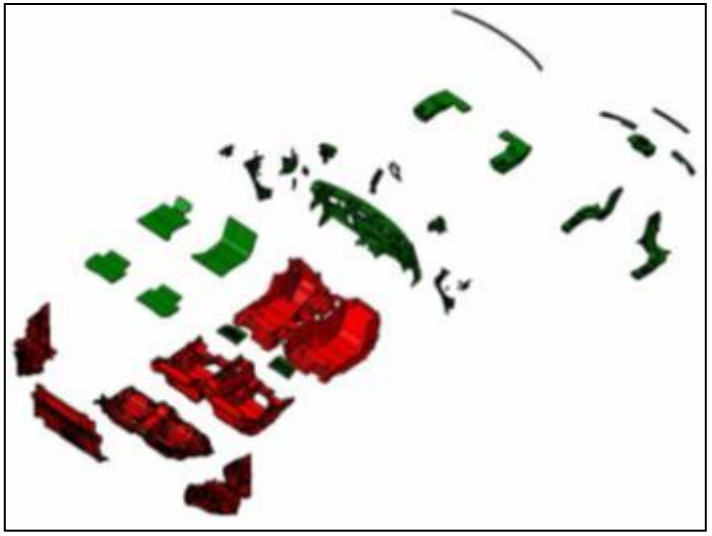


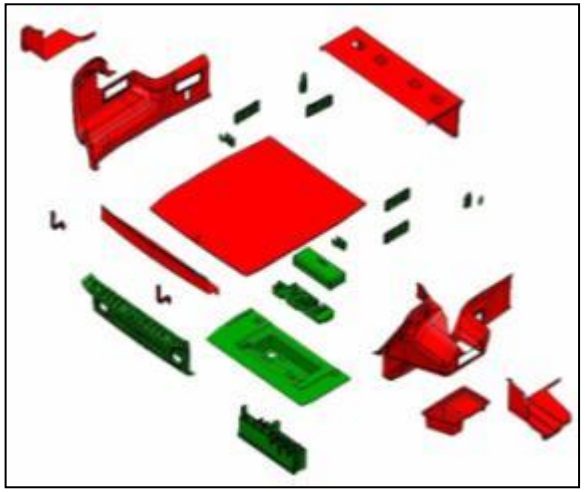


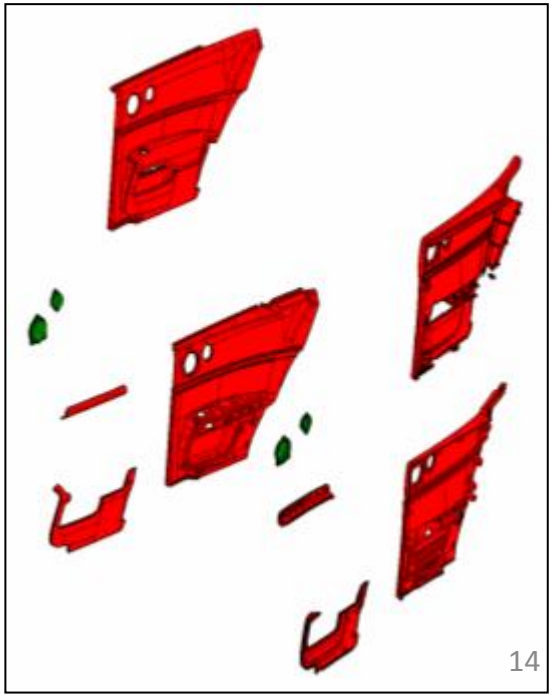
# *Services Offered: Component / System Supplier Approach*
# *Interior Trim System*











# *Details Interior Items Expertise Details 1/2*

## *Cockpit*

# *Details Interior Items Expertise Details 2/2*

## *Maserati – Aston Martin*

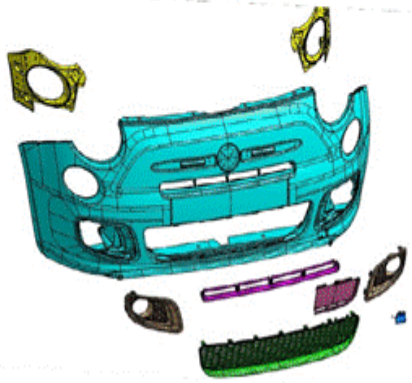
# Production Exterior Trim Overview

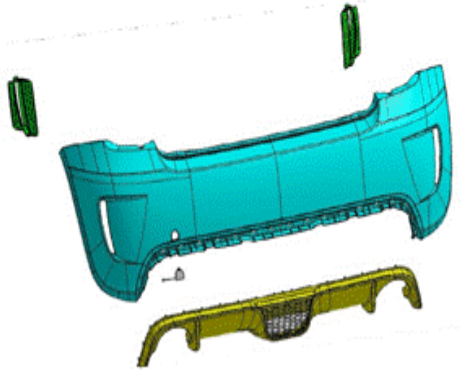
- ***Bumper Systemn Fr & RR***
- ***Fr Grille***
- ***Spoiler System***
- ***RR diffuser***

# *Production Exterior Trim Expertise Details 1/3*

# *Production Exterior Trim Expertise Details 2/3*

# *Exterior Trim Expertise Details 3/3*

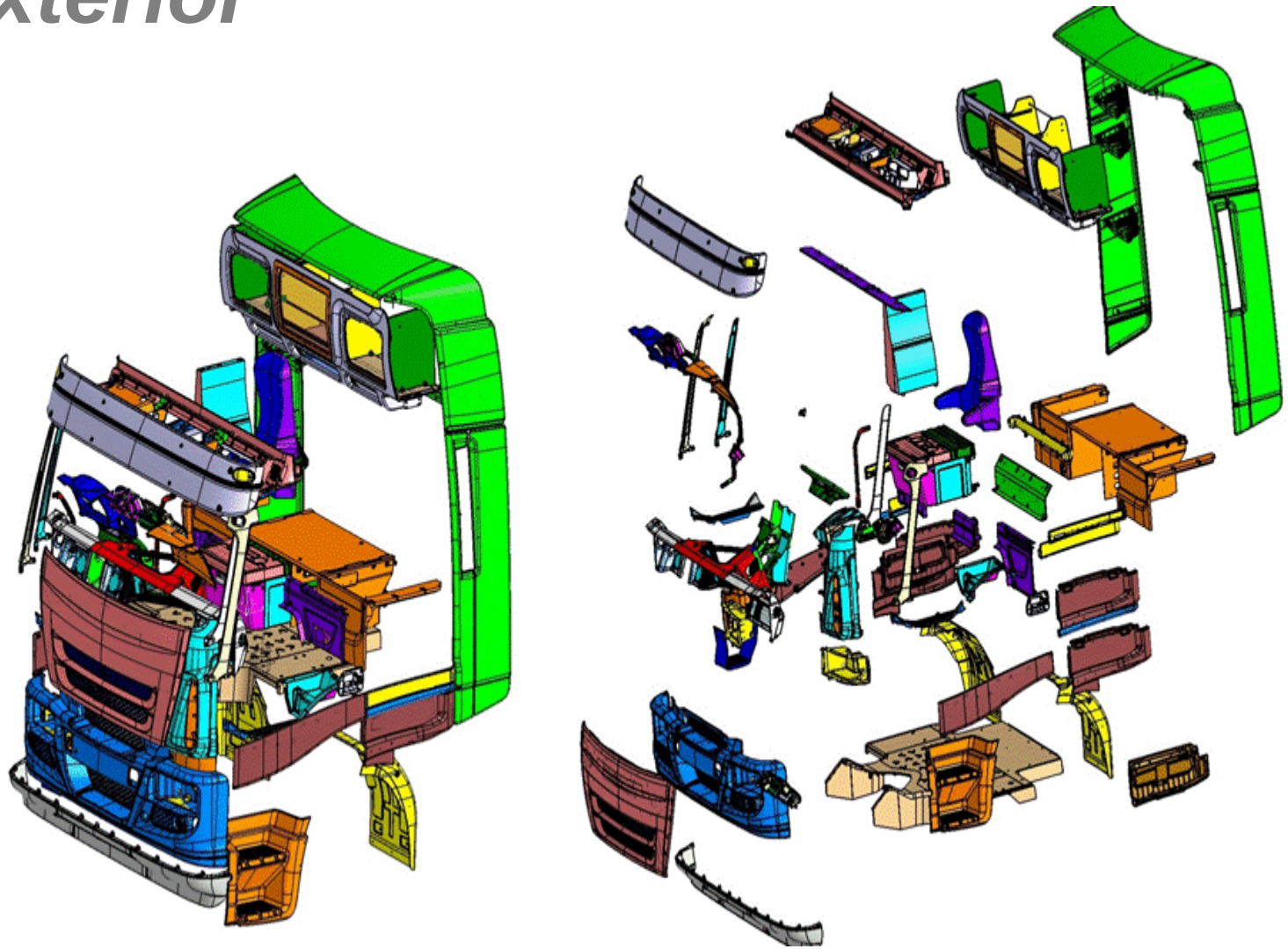




# *Products Overview commercial Vehicles: inside and outside*

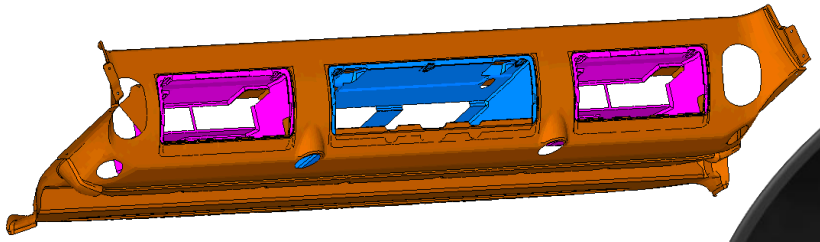
**Dashboard**
**Door panels and Interior trims**
**Floor mats**
**Air Vents and Ashtray**
**Handles**
**Bumpers**
**Aerodynamic Kit**
**Front Panels**
**Spoilers**
**Sun Visors**
**Interior trims**
**Front Grille**

# *Overview Truck & Bus Interior & Exterior*



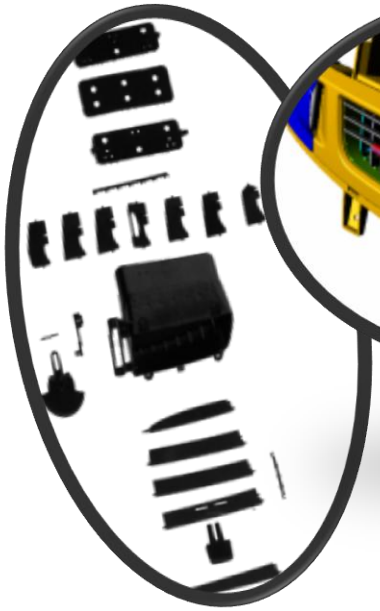
# *Interior Trim Expertise*

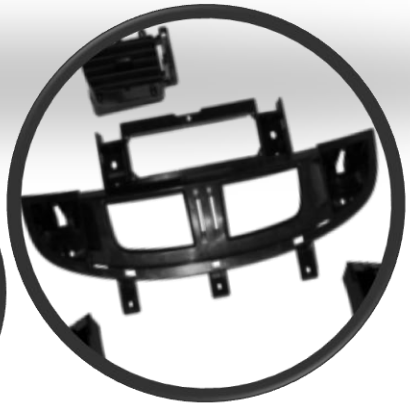
## *Truck Iveco Stralis*



# *Interior Trim Expertise*

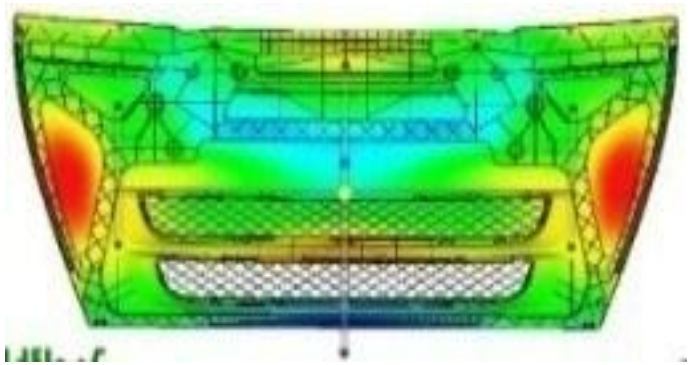
***Truck***

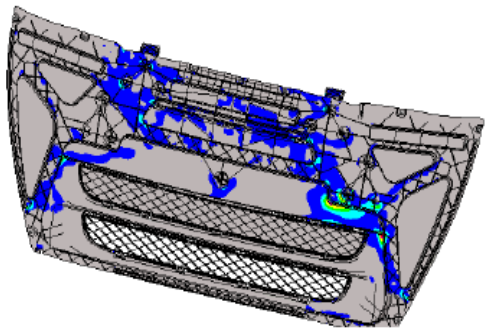




# Exterior Trim Expertise

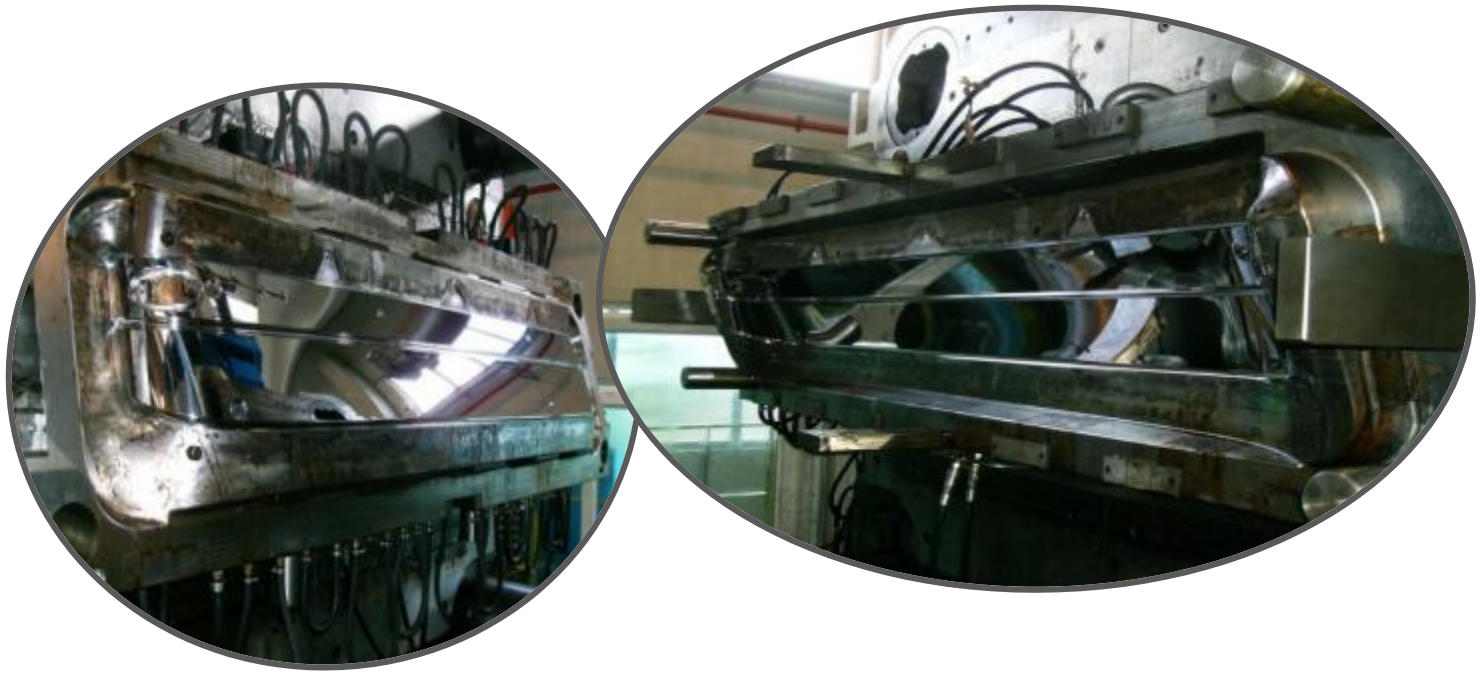
## *Truck Iveco Eurocargo*





# *Exterior Trim Truck Expertise*

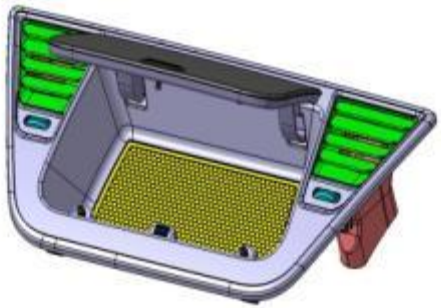
## *Truck Stralis Iveco*

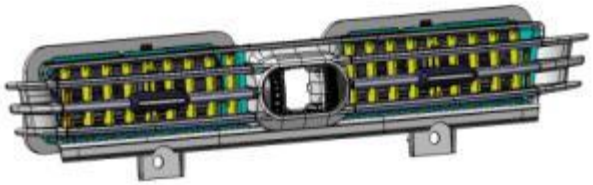


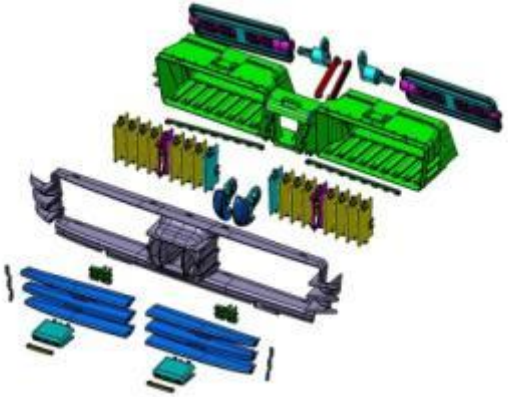
# *Details Cockpits Items Expertise*

## *Air vents*

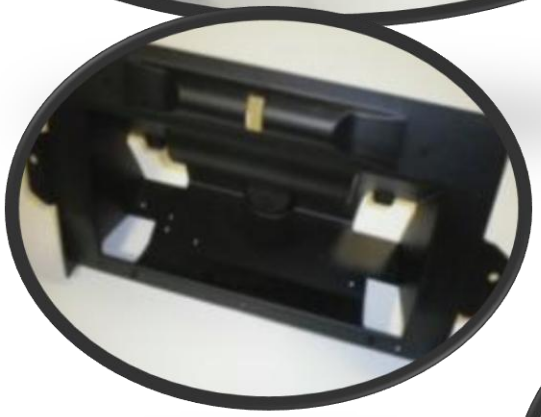
## *Stowage box*



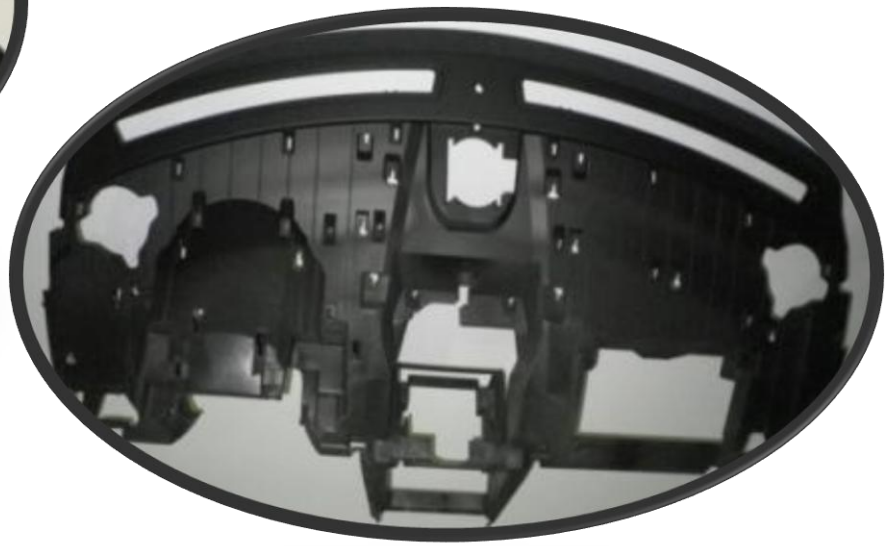




# Details Interior Items Overview
# Cockpit



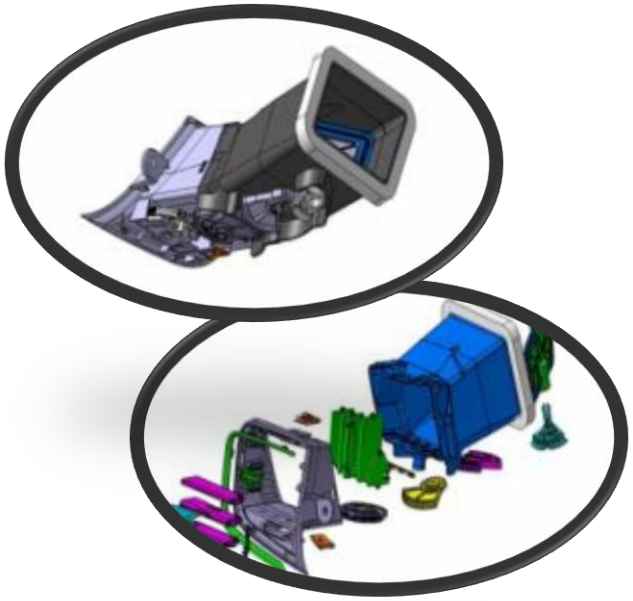
- ***Cockpit: cockpit main structure central stack , central console, glove box, air vent***

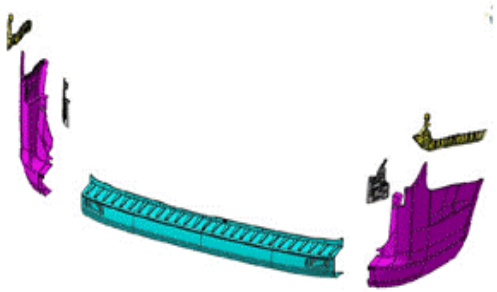


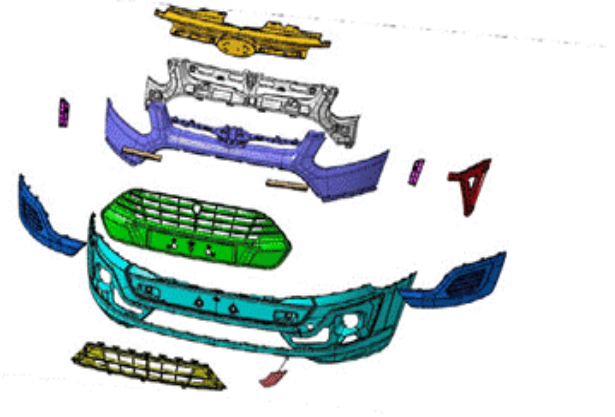
# Details Interior Items Overview

- ***RQP system***
- ***Door Panel system***
- ***Interior A, B C pillars***
- ***Tank lining***

# *Expertise Exterior Trim*







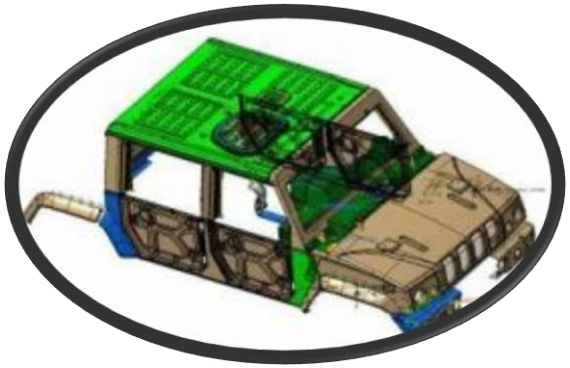
# *Interior Trim Expertise*

## *Iribus Magelys*

# Expertise Tractor

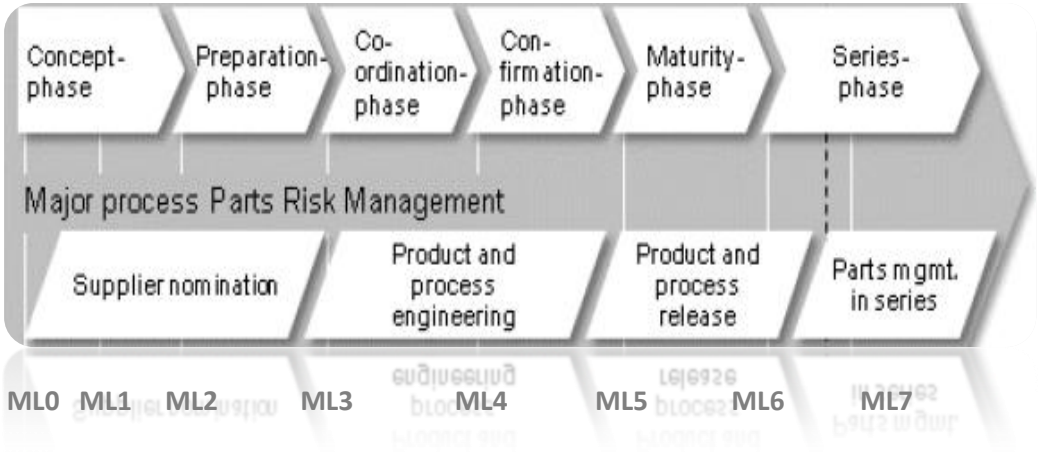
- ***Dashboard***
- ***Airvents***
- ***Fenders***
- ***Interior Trims***
- ***Roof  Cover***

# *Expertise Special Vehicles*

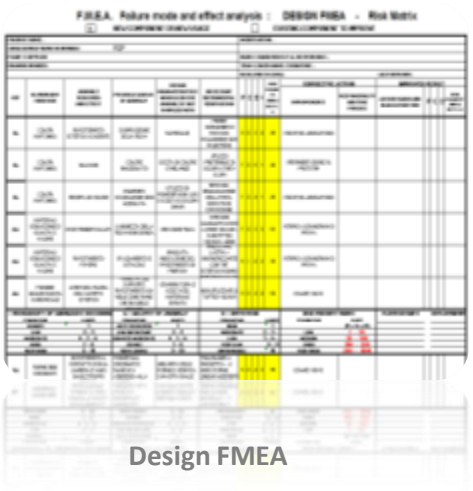


***Hood,Bumpers, Fenders, Pillars ,Windshield frame, Doors, Roof, Armoured plates…***

# Quality Production



Risk Matrix



Design FMEA

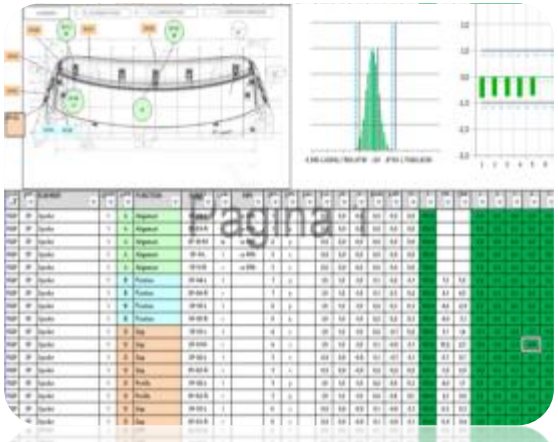
Process FMEA

# Quality Production

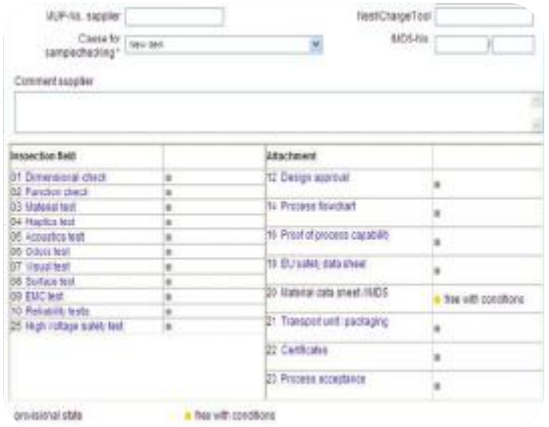
Control plan

***Selmat Group has its own intern laboratory that is able to satisfy most of the requirements of the main Car Makers Specifications, with reference to the Sperimentation and Validation Phases.***

Self validation plan



Measurement Report & SPC analysis

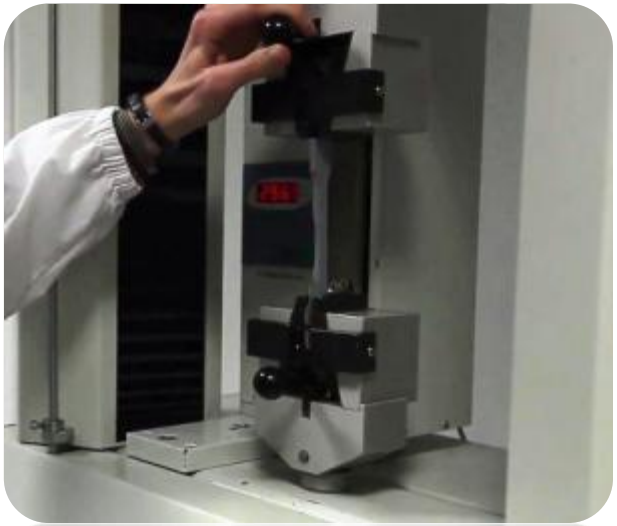


Initial Sample Inspection Report

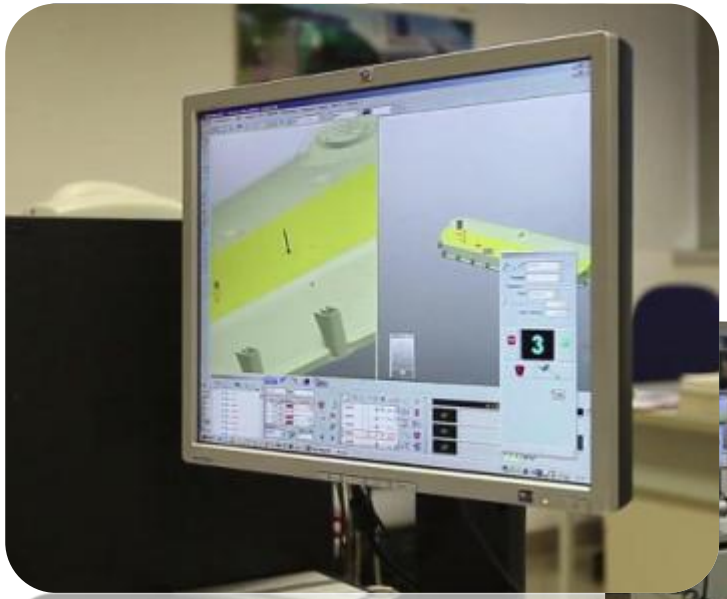
Lesson Learned

# *Quality Production*

# *Laboratory Facilities Overview*



**Dynamometer**
(Load max 5000N)



**3D CMM**
(L=3000W=1500H=1500)

# Laboratory Facilities Overview

Climatic Chamber
(90°C / -40°C L=2000 W=1000H=700)

Climatic Chamber 100°C / -45°C
(L=1000 W=1000H=100)

Dynamometer
(Load cell max 5000N)

Izod Charpy

Vicat HDT

Spectrophotometer

Glossmeter

Melting points
(up to 600°C)

Corrosion Chamber

# Quality: ISO TS 16949 & ISO 14000

**Headquarters**
**Via Abegg 36**
**10050 Sant'Antonino di Susa**
**Torino – Italy**
**Tel. + 39 011 9639000**
**Fax + 39 011 9639860**
**info@selmat.it - www.selmat.it**