

MARTURFOMPAK

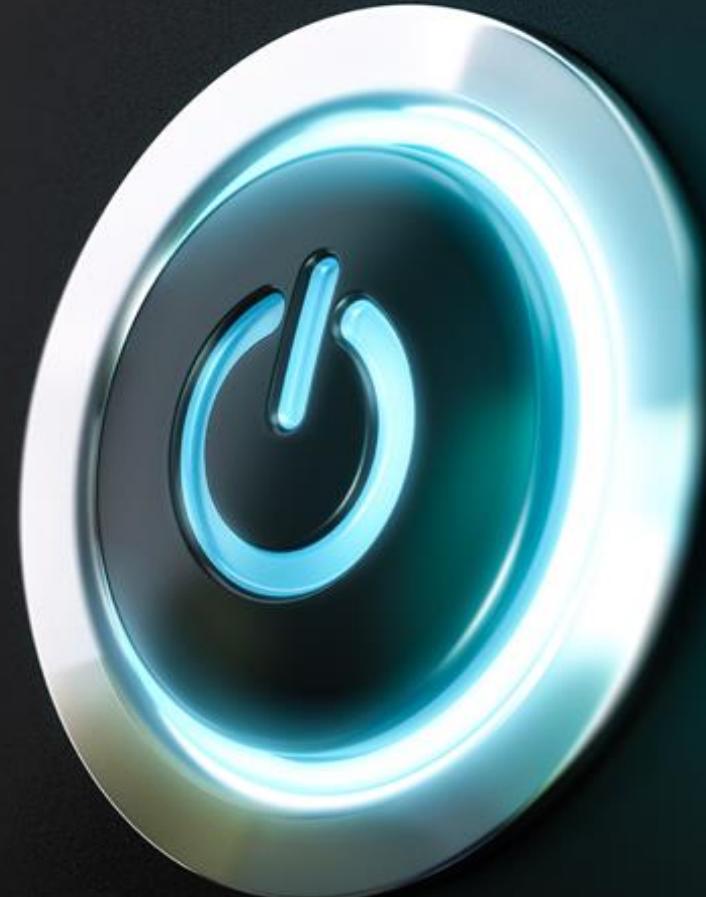
INTERNATIONAL

Company Presentation
October 2024

Reshaping mobility with responsible solutions

VISION

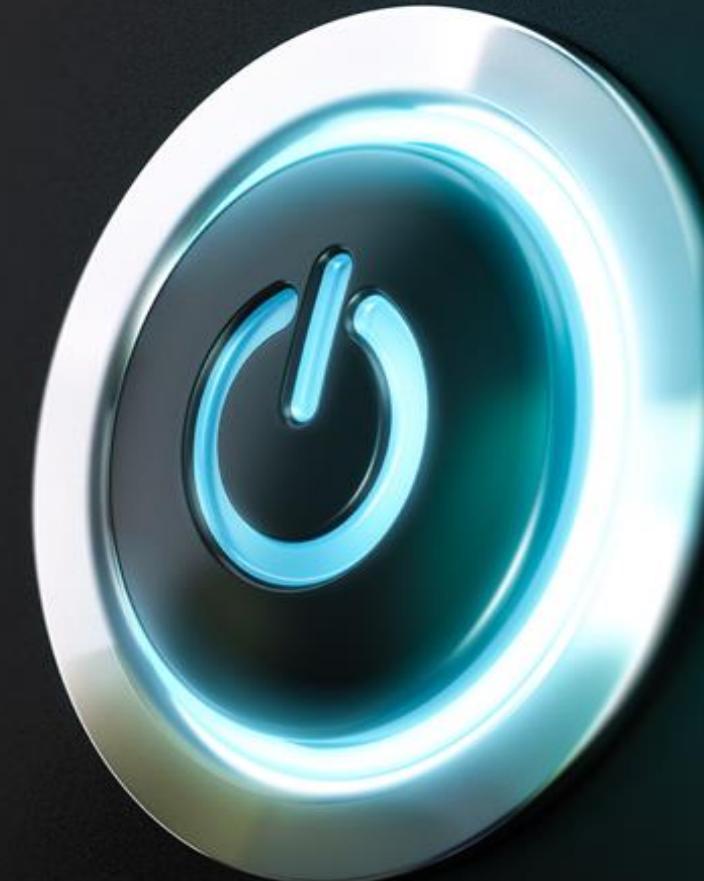
Reshaping mobility
with responsible
solutions



FUTURE

MISSION

As an innovative strategic partner, we supply the highest standards of services through sustainable and accessible cockpit systems.



CORE VALUES

WE CARE

- For people
- For our company
- For transparent communication
- For quality
- For customers
- For the environment

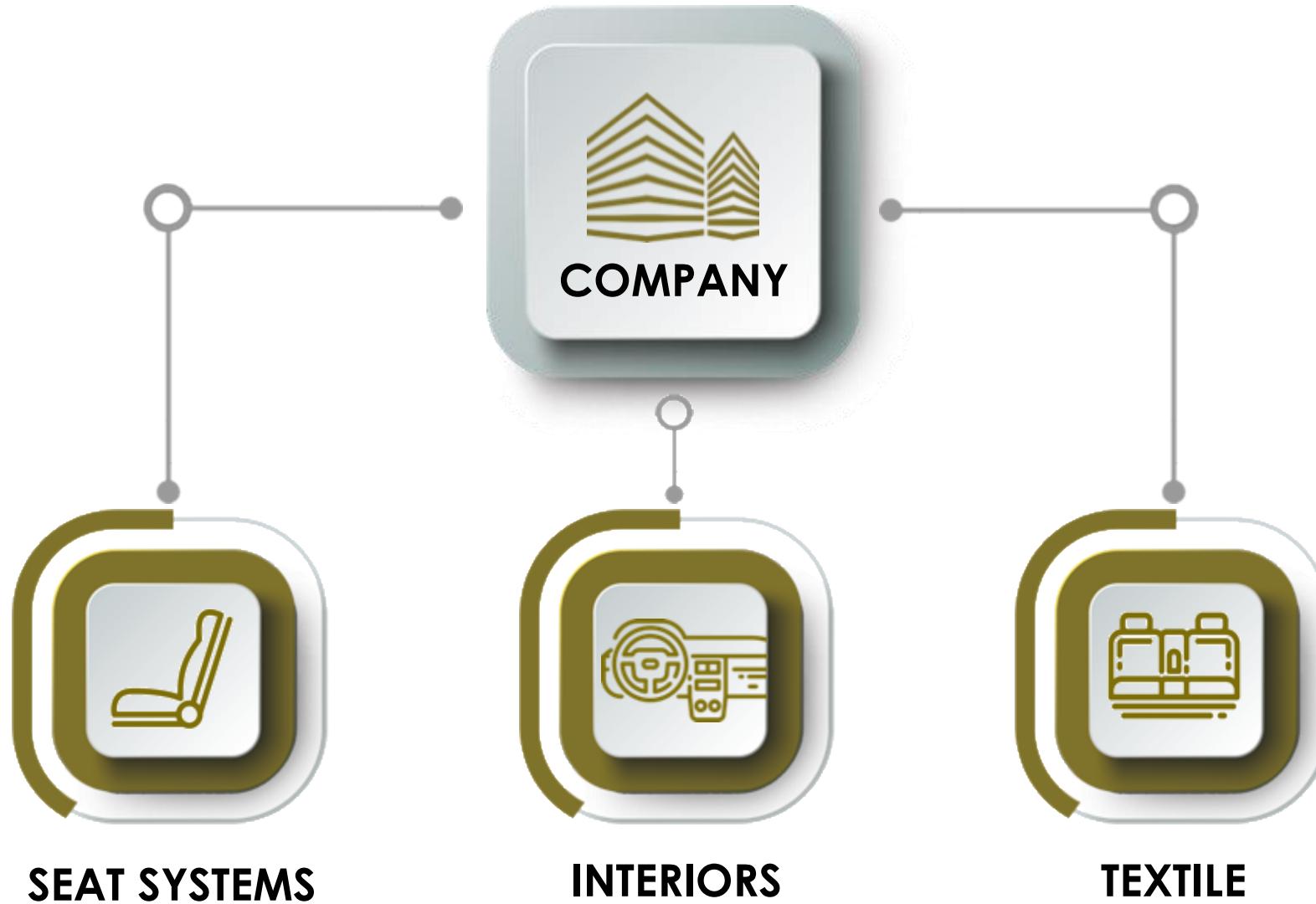
WE SHARE

- Success and experience
- Innovation and technology

WE DARE

- To try
- To evolve
- To create
- To develop

FUTURE



Since 1986,
a strategic global
presence to offer
the best service

Since 2017,
**World Bank is a
stakeholder:**
a sign of reliability

5 R&D Centers
6 E&D Centers,
globally positioned,
highly dedicated and
specialized design
teams

**A vertical
integration,**
from raw
materials to final
products

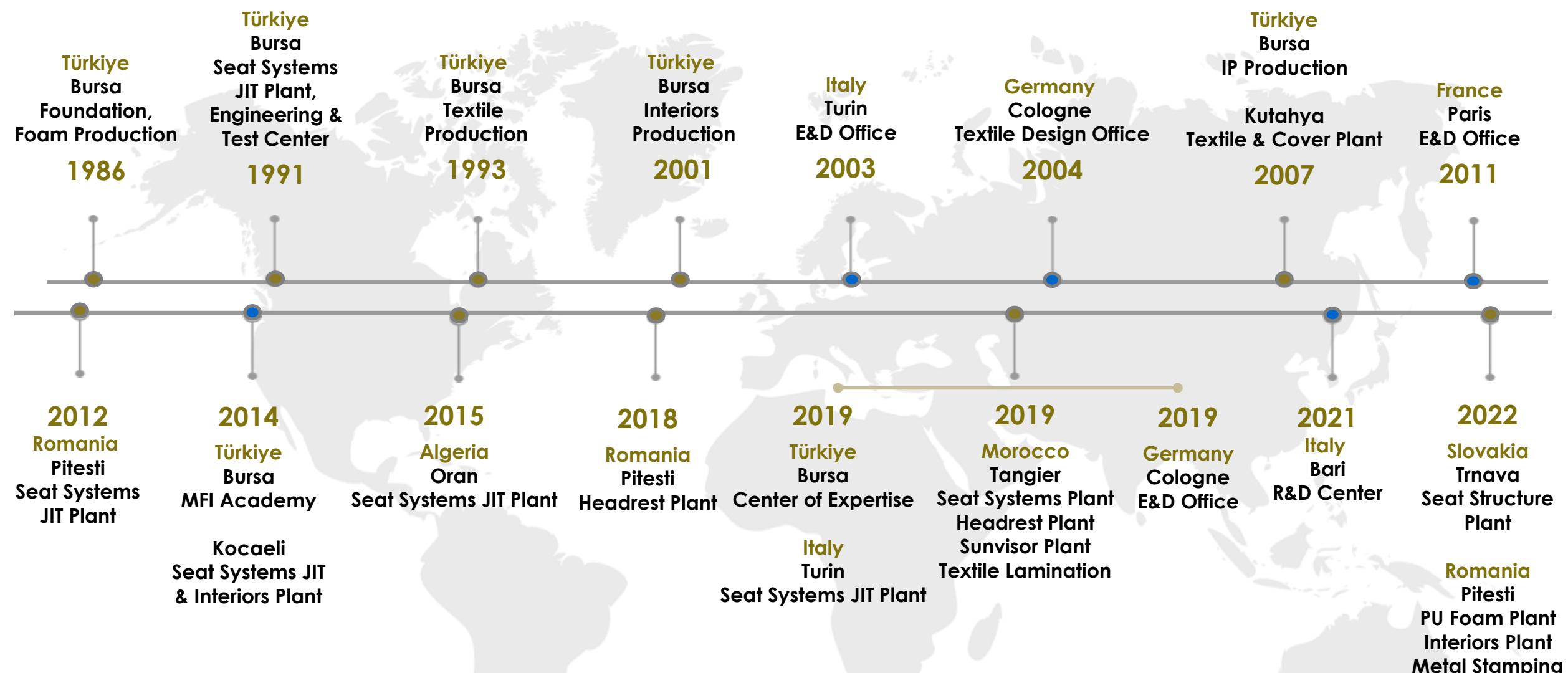
**Global
footprint**
by strategic
alliances

17 sites
30 plants

8.200+
employees
worldwide

Production in
6 countries,
3 continents

Milestones



Abarth

Alfa Romeo

Alpine

Audi

Citroën

Dacia

Dodge

DS

Fiat

Ford

Lancia

Maserati

Nissan

Peugeot

Renault

Škoda

Togg

Toyota

Volkswagen

HEADQUARTERS

INTERIORS PLANTS

SALES OFFICES

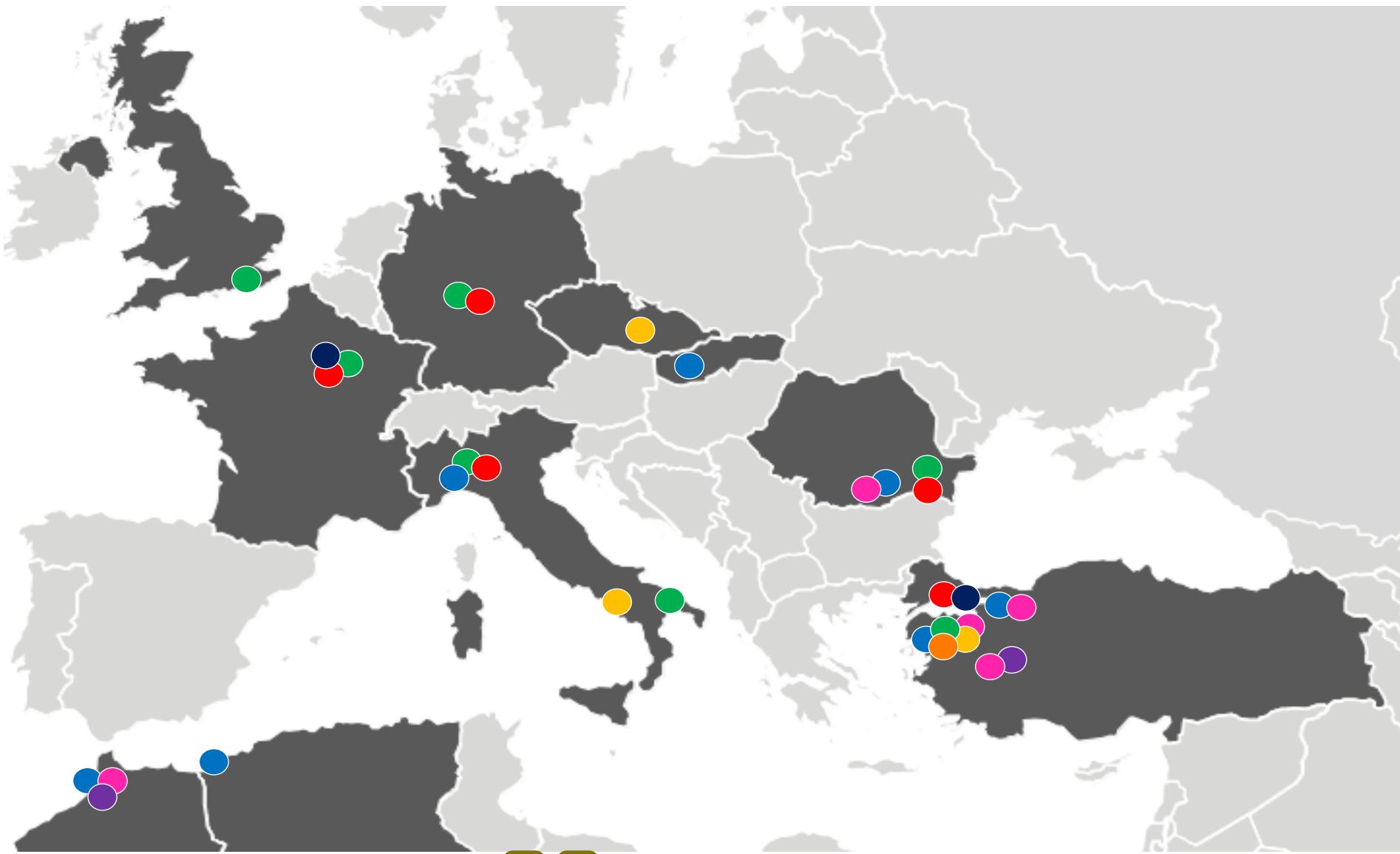
TEXTILE PLANTS

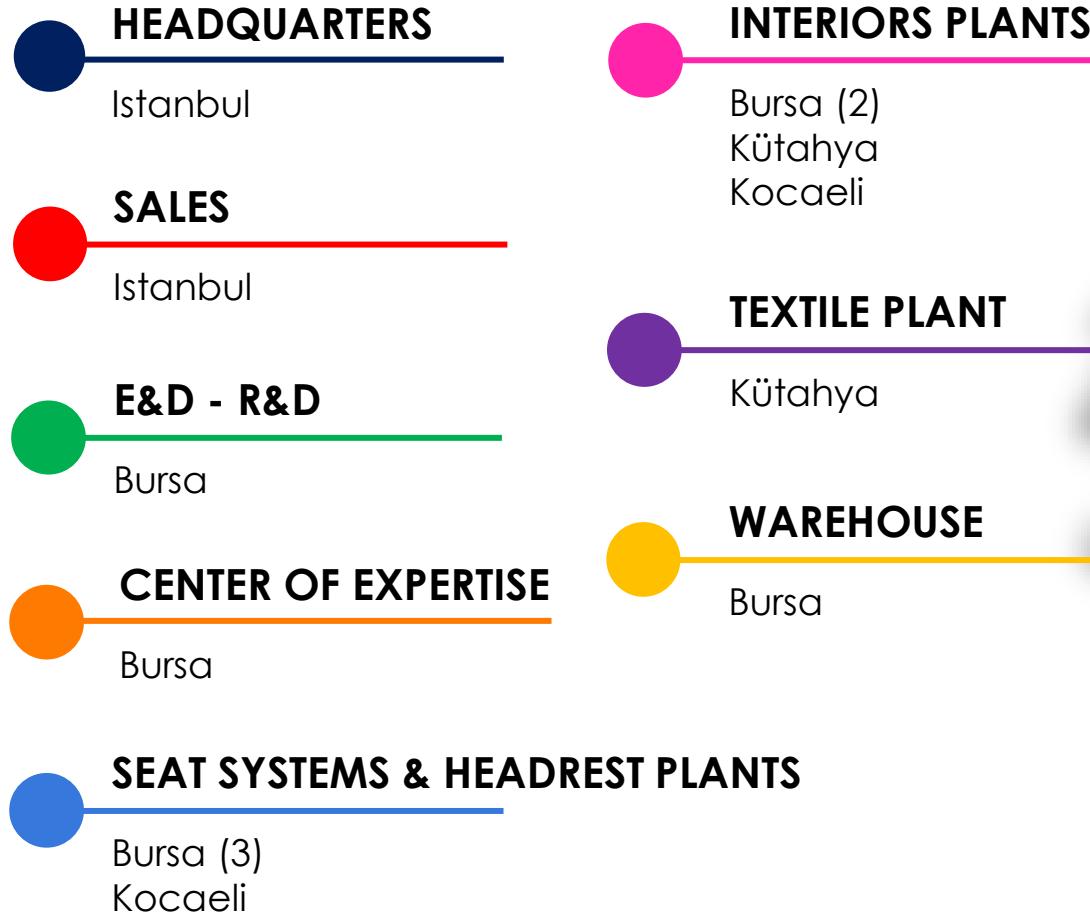
E&D - R&D

ADVANCED WAREHOUSES

CENTER
OF EXPERTISE
(Test Center)

SEAT SYSTEMS PLANTS





- HEADQUARTERS**
Paris
- SALES**
Paris
- E&D - R&D**
Paris



SALES

Turin

E&D – R&D

Turin, Bari

ADVANCED WAREHOUSE

Salerno

SEAT SYSTEMS PLANT

Turin



SALES
Bucharest

E&D
Bucharest

SEAT SYSTEMS & HEADREST PLANT
Pitesti

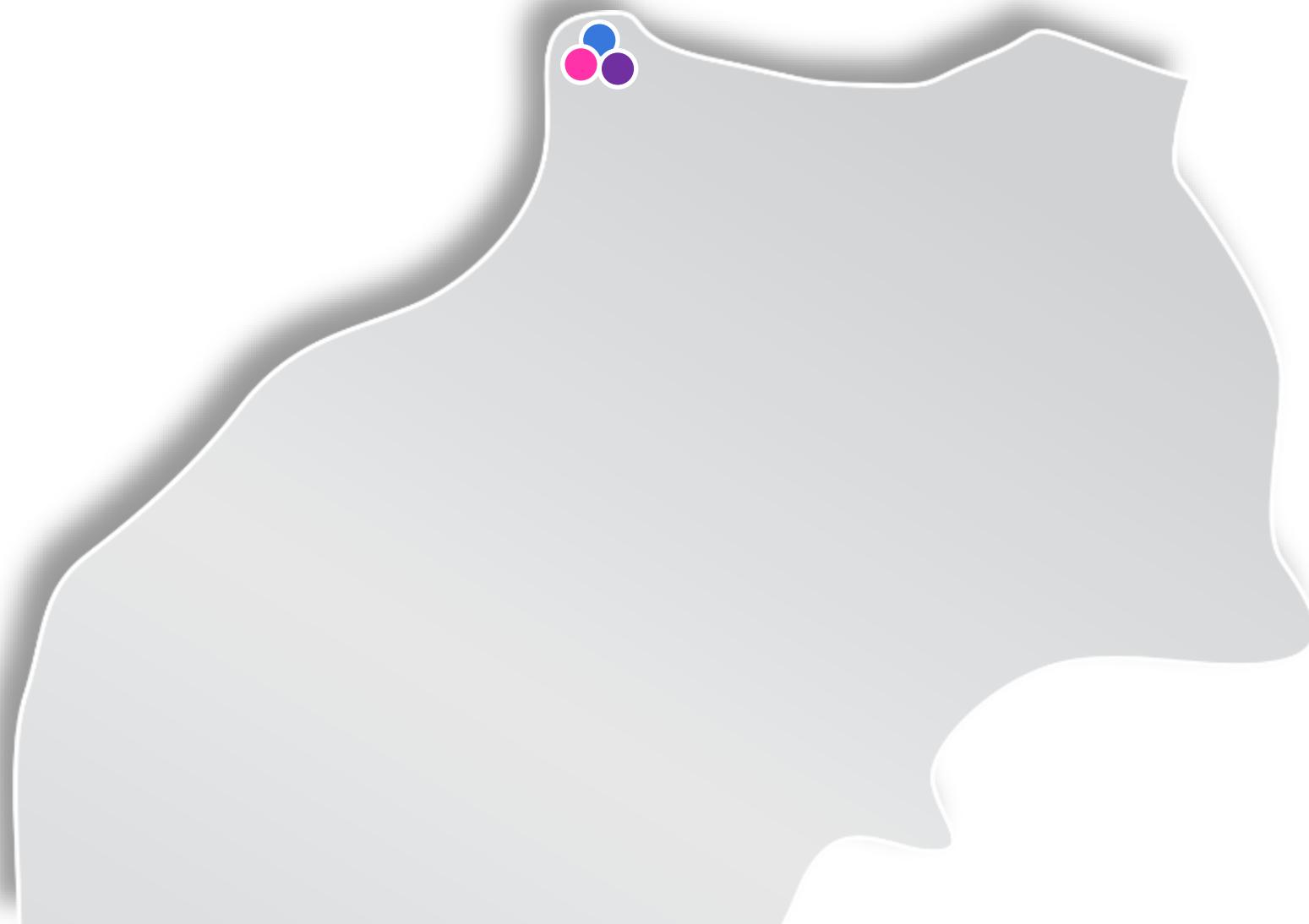
INTERIORS PLANT
Pitesti



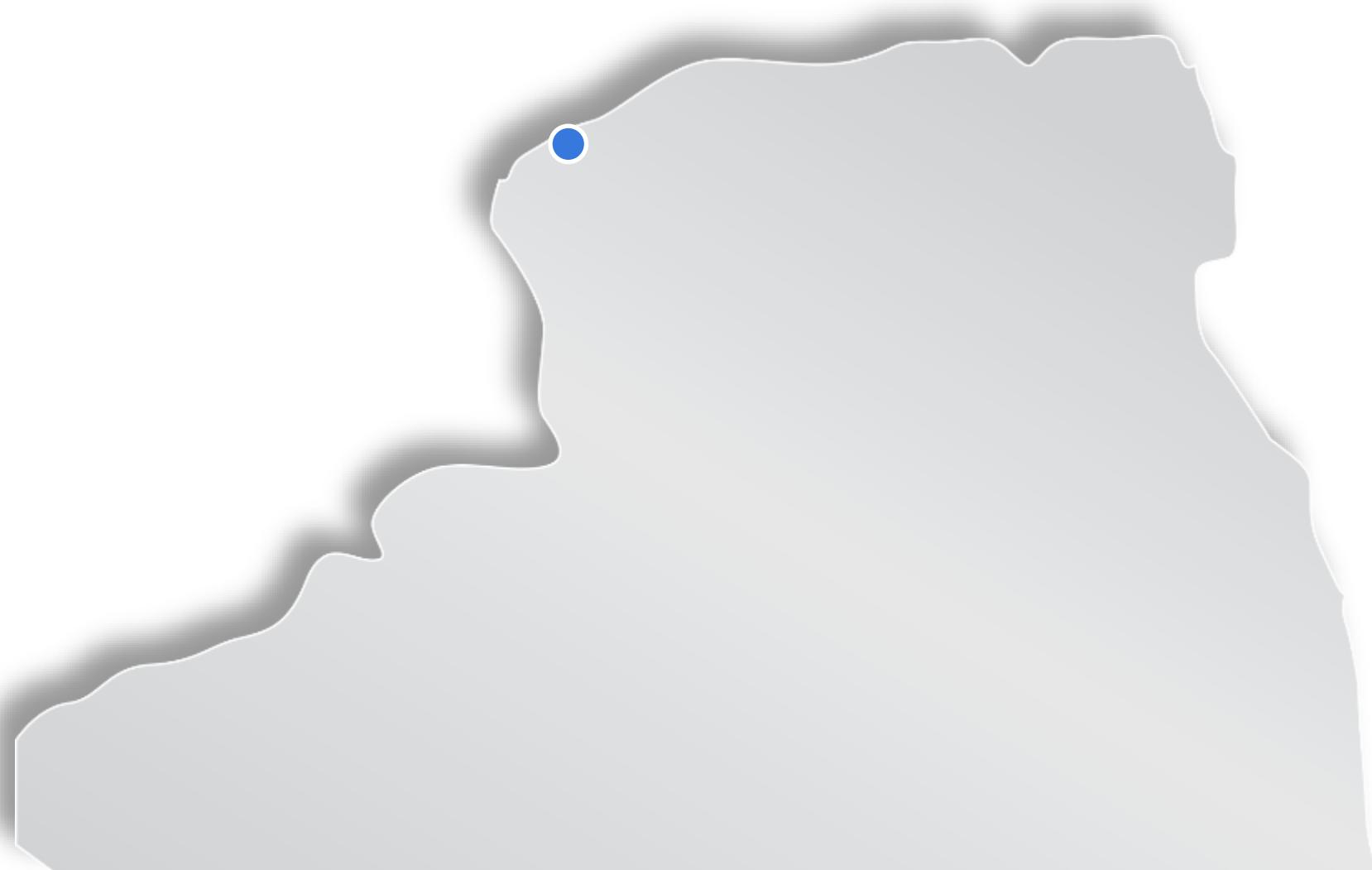
SEAT SYSTEMS & HEADREST PLANT
Tangier

INTERIORS PLANT
Tangier

TEXTILE PLANT
Tangier



SEAT SYSTEMS PLANT
Oran



SEAT SYSTEMS PLANT
Trnava



- SALES**
Cologne
- E&D – R&D**
Cologne





R&D

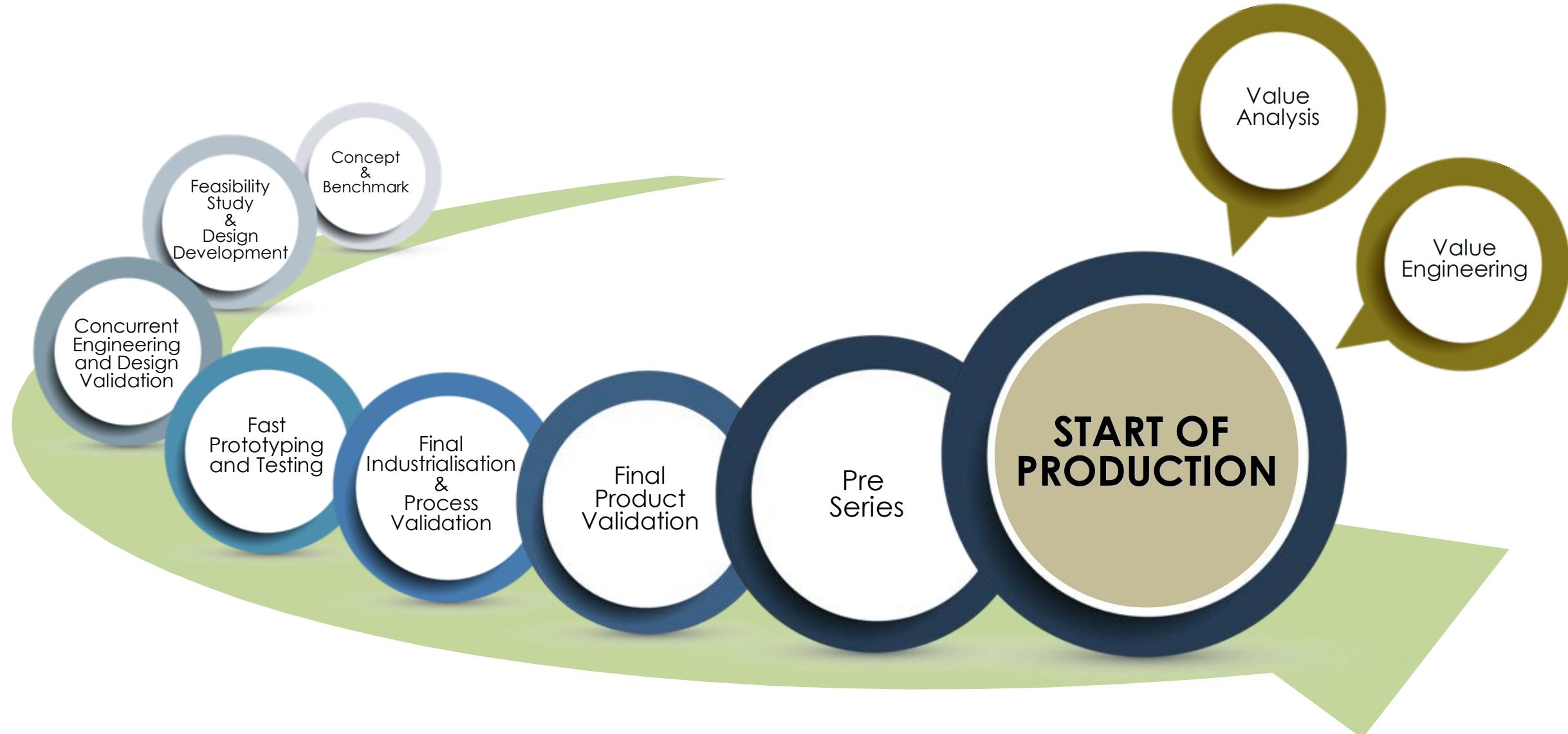
London

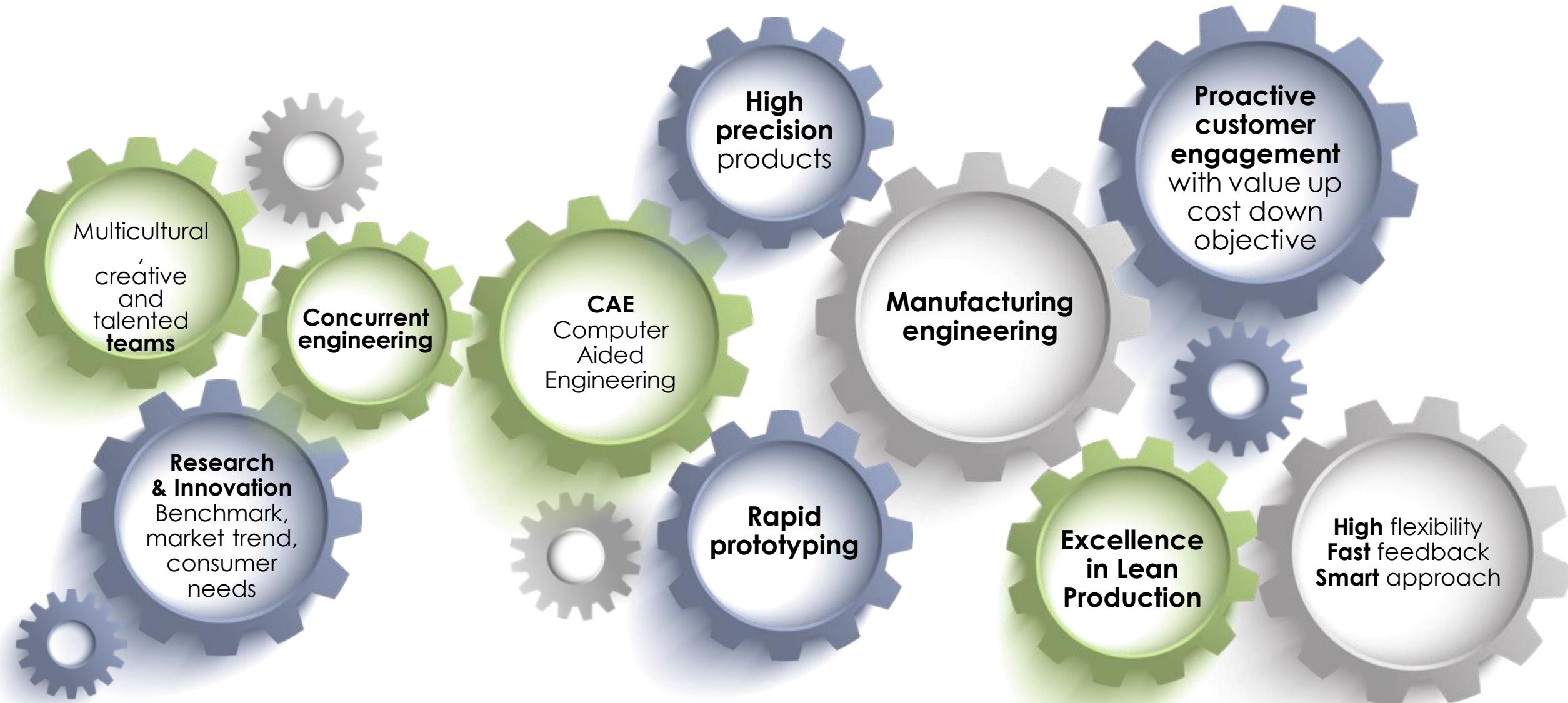


ADVANCED WAREHOUSE

Prague







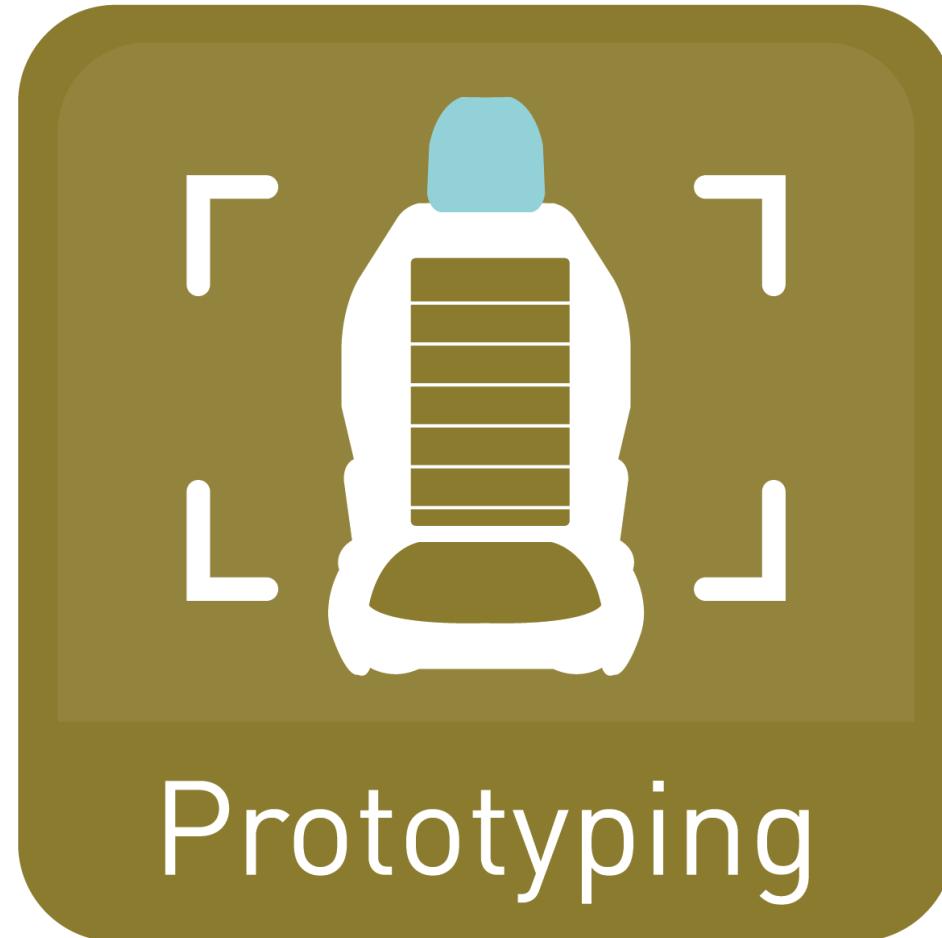
E&D Softwares



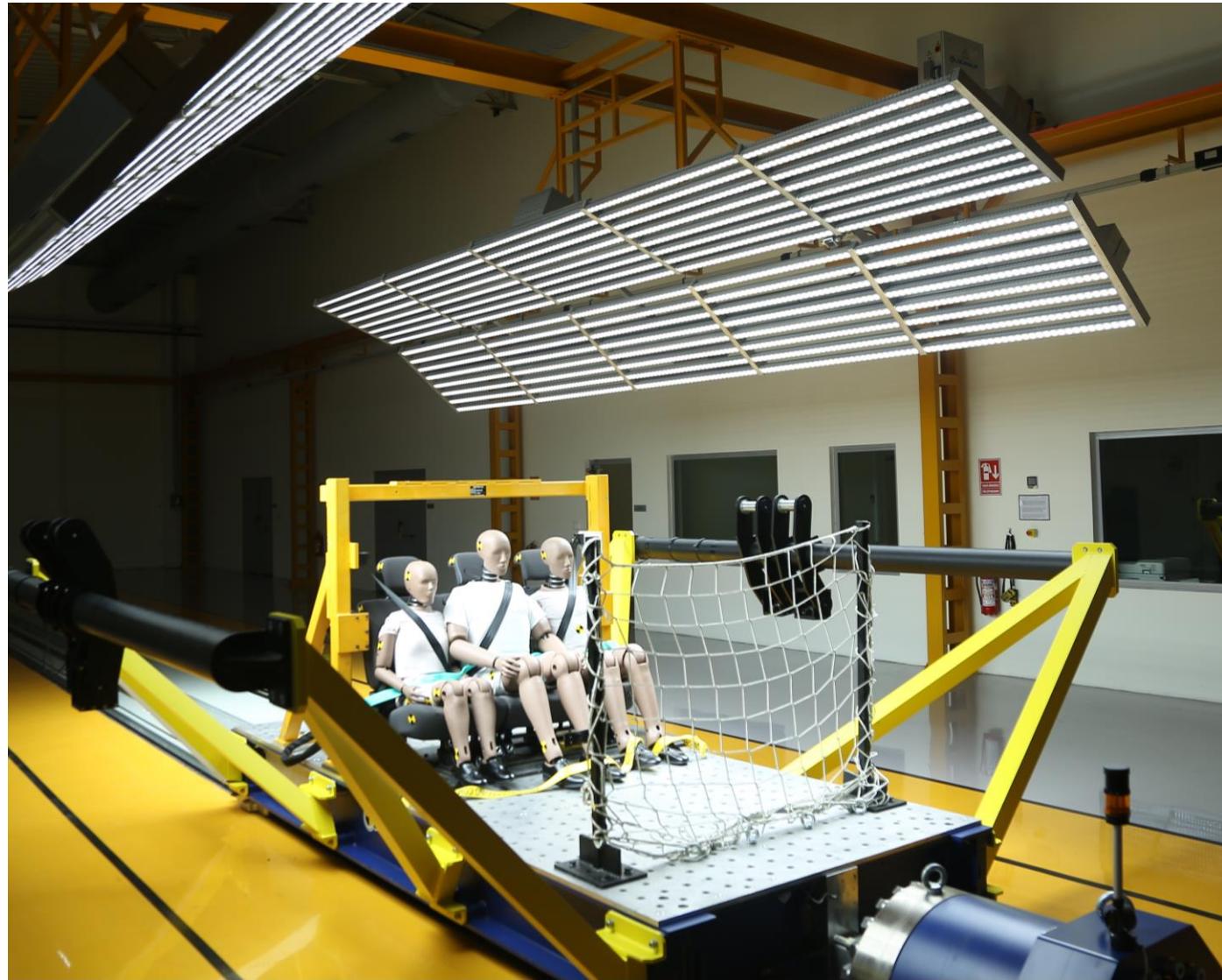
6 Development Centers







- Sled Test Lab
- Vehicle Level (BIW)
- Seat and Restraint Systems
- Airbag Deployment Tests
- Fatigue Tests in Climatic Conditions
- Seat Belt Anchorage Tests
- Robot Test Banches
- Static Load Tests
- Physical Characteristics Measurement
- Atos Compact Scanner
- Adhesion Tests
- Appearance Tests
- Flammability Tests
- Light Fastness Tests
- Spectrometer
- Acoustic Tests



Partnerships

Raw Material Producers

(Research Innovation Technical Centers)

Fine Blanking Producers

Electronic Devices Producers

(microcameras, sensors, nano-biotechnologies, etc.)

Alliances

Mario Levi (Italy - leather covers)

Tachi-S Co. Ltd (Japan - US) to ensure our customers a global service related to seat frame & seat supply



The Company is fully oriented to the future

Several programs are launched with the major world universities to establish projects for future innovative cockpit

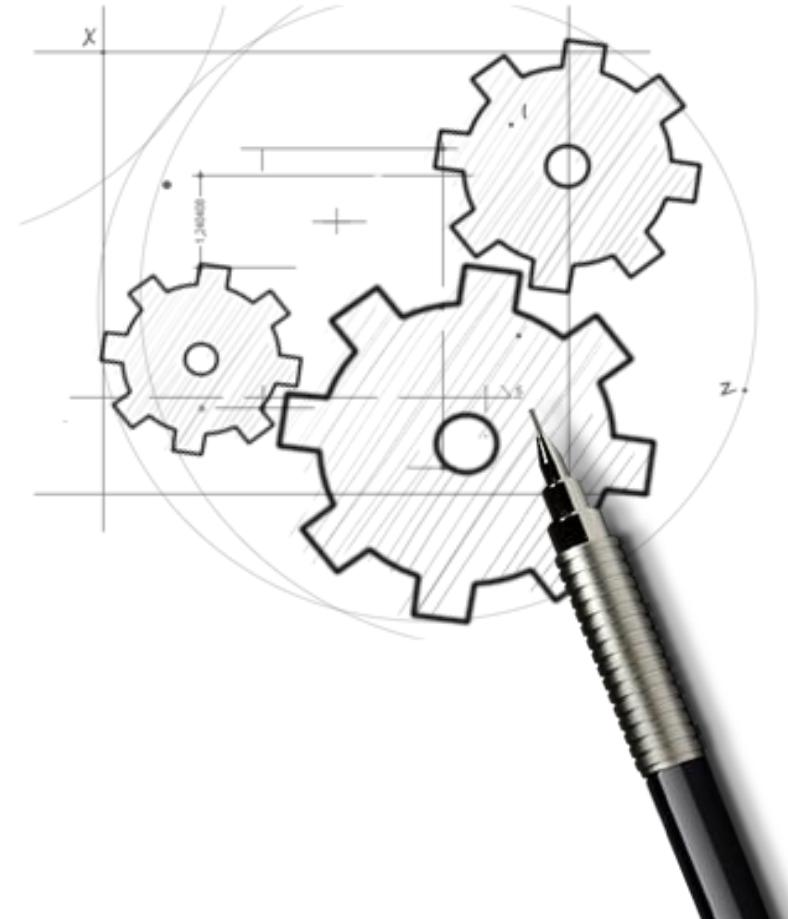
Politecnico / Turin, Italy

TU Delft / Holland

I.T.U. / Istanbul, Türkiye

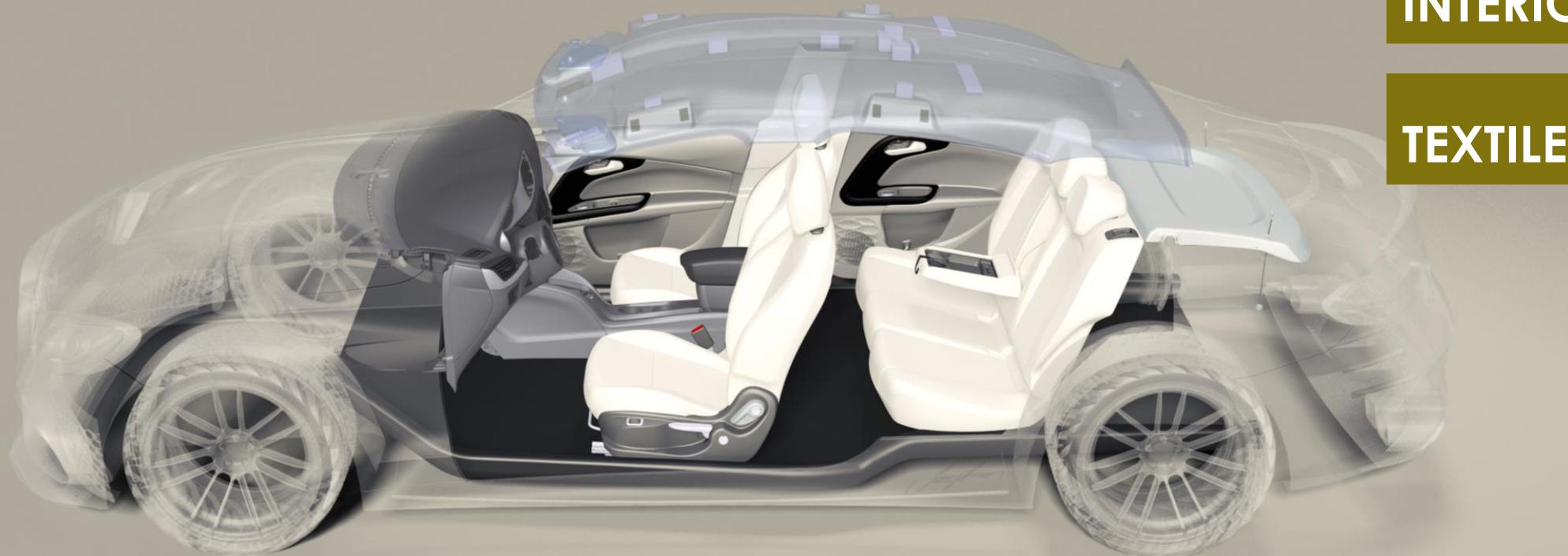
IBV / Spain

METU / Ankara, Türkiye



- **Sustainability** : We are committed to UN Global Compact principles
- Support to **Education & Training**
- **Environmental** sensitivity
- **Sports** summer camps and tournaments
- Online and Offline **Social activities**





SEAT SYSTEMS

INTERIORS

TEXTILE



SEAT SYSTEMS



INTERIORS



TEXTILE



E&D - R&D

Bursa
Paris
Turin
Bari
Cologne
Bucharest



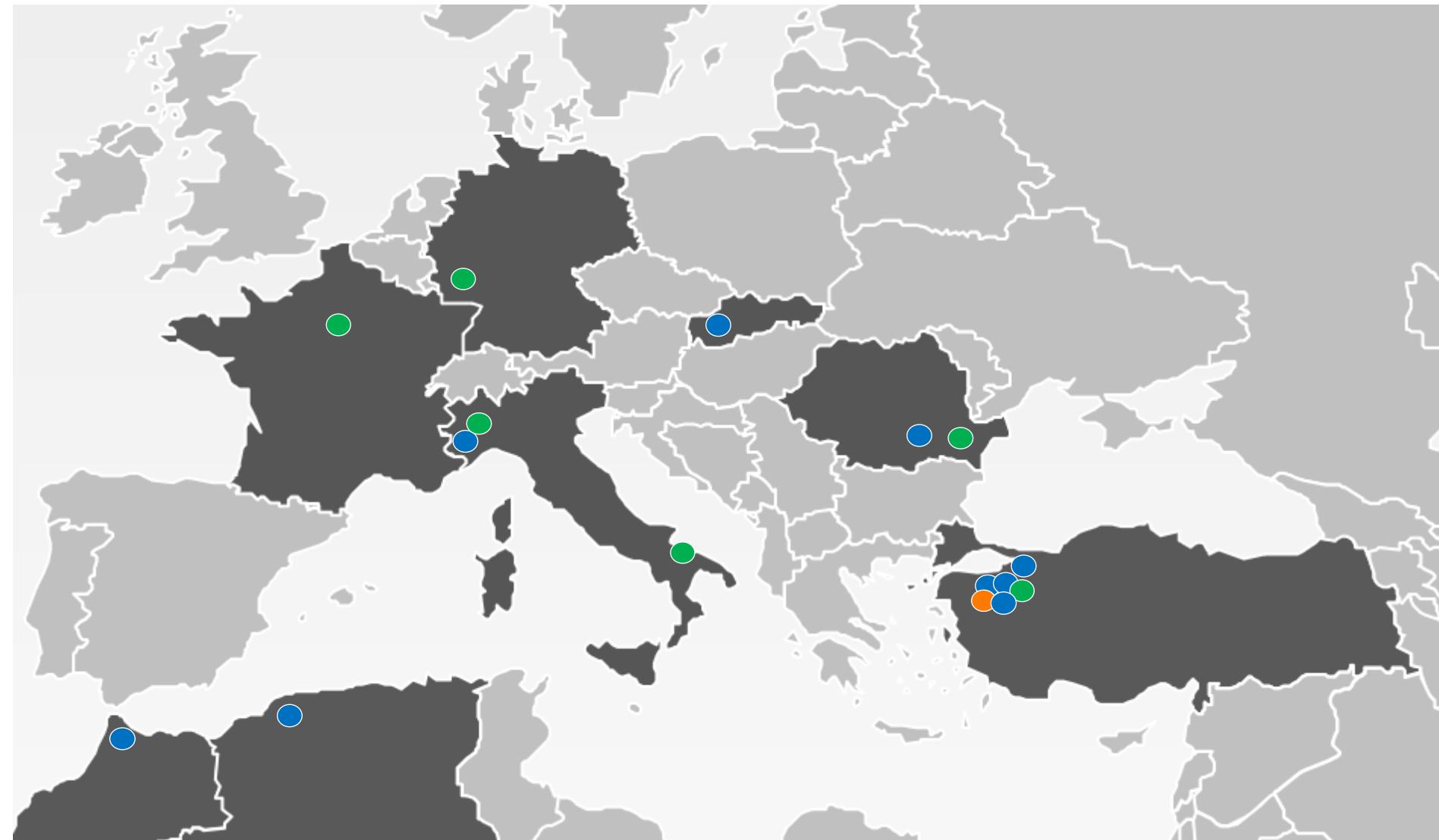
SEAT SYSTEMS PLANTS

Bursa (3)
Kocaeli
Pitesti
Oran
Tangier
Turin
Trnava



CENTER OF EXPERTISE (Test Center)

Bursa



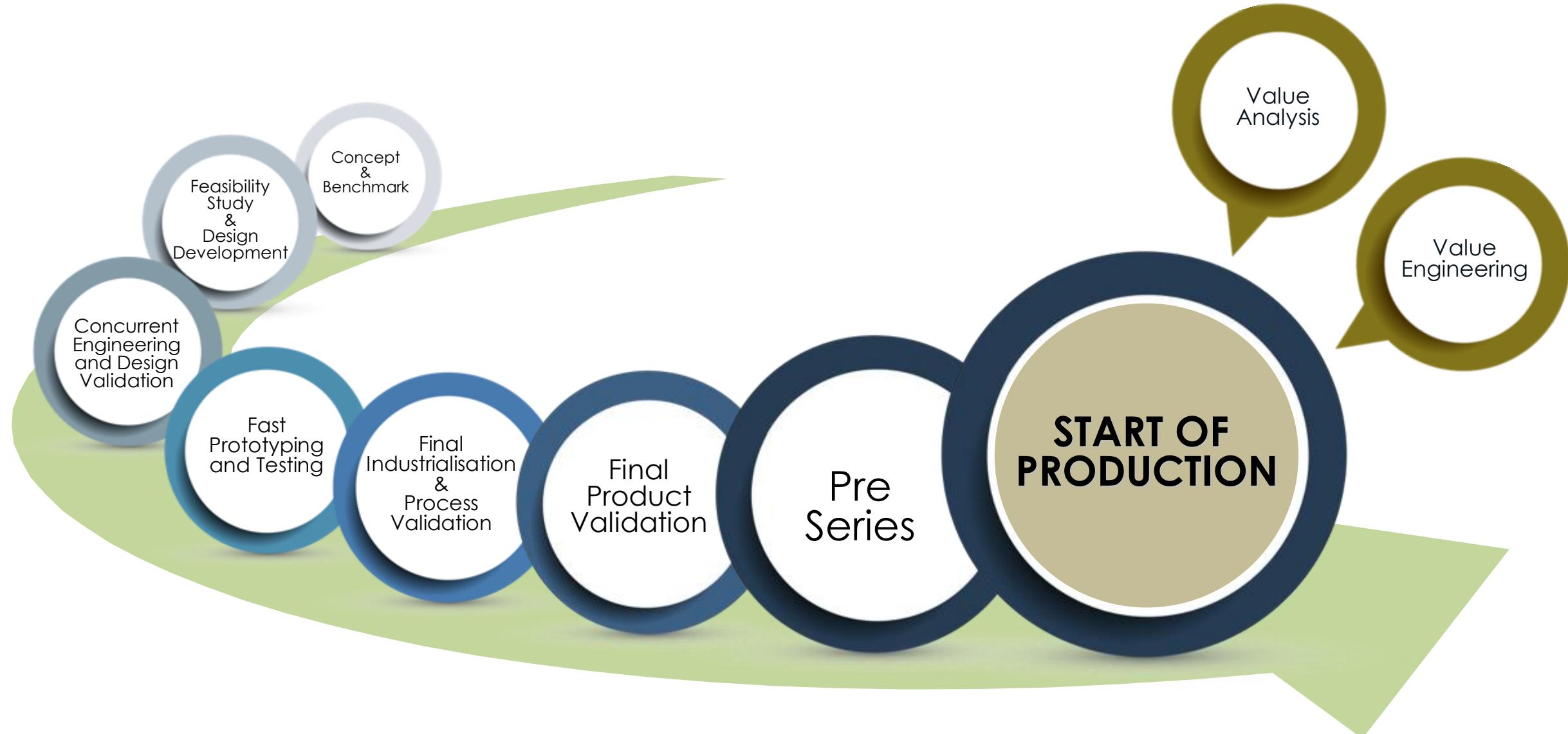
Sites

9

Total
employees

5.500+





ENGINEERING

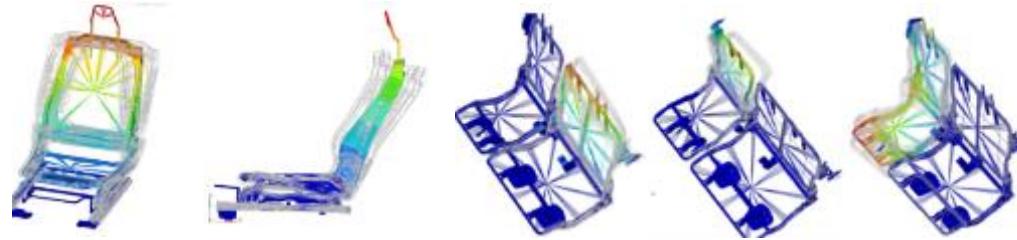
- 3D modeling
- Material allocation
- 2D component & assembly drawings
- Geometrical tolerancing & worst case and statistical tolerance analysis
- Complete seat drawings
- Installation drawings



CAE - FEA

NVH

- Vibration Durability
- Natural Frequency



Durability

- Optimization
- Strength
- Cyclic Fatigue



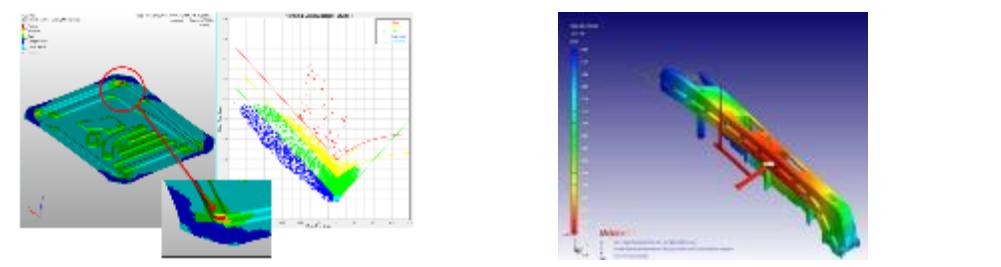
Dynamic

- Crash Safety
- Whiplash
- Quasi-Static

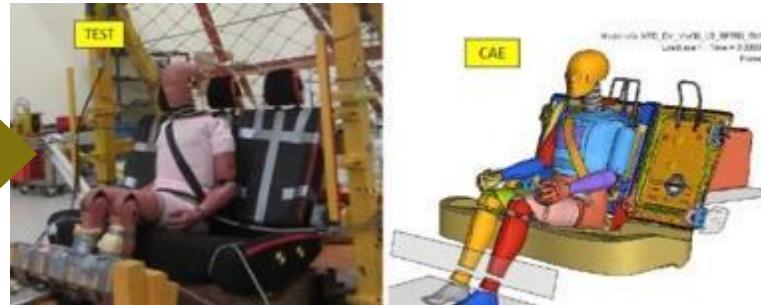


Manufacturing

- Metal Forming
- Plastic Injection



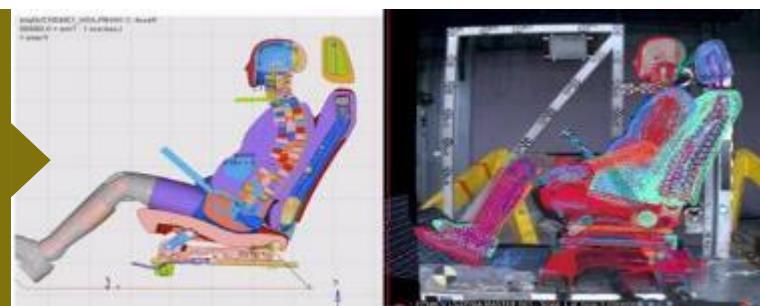
TEST vs. FEA set-up



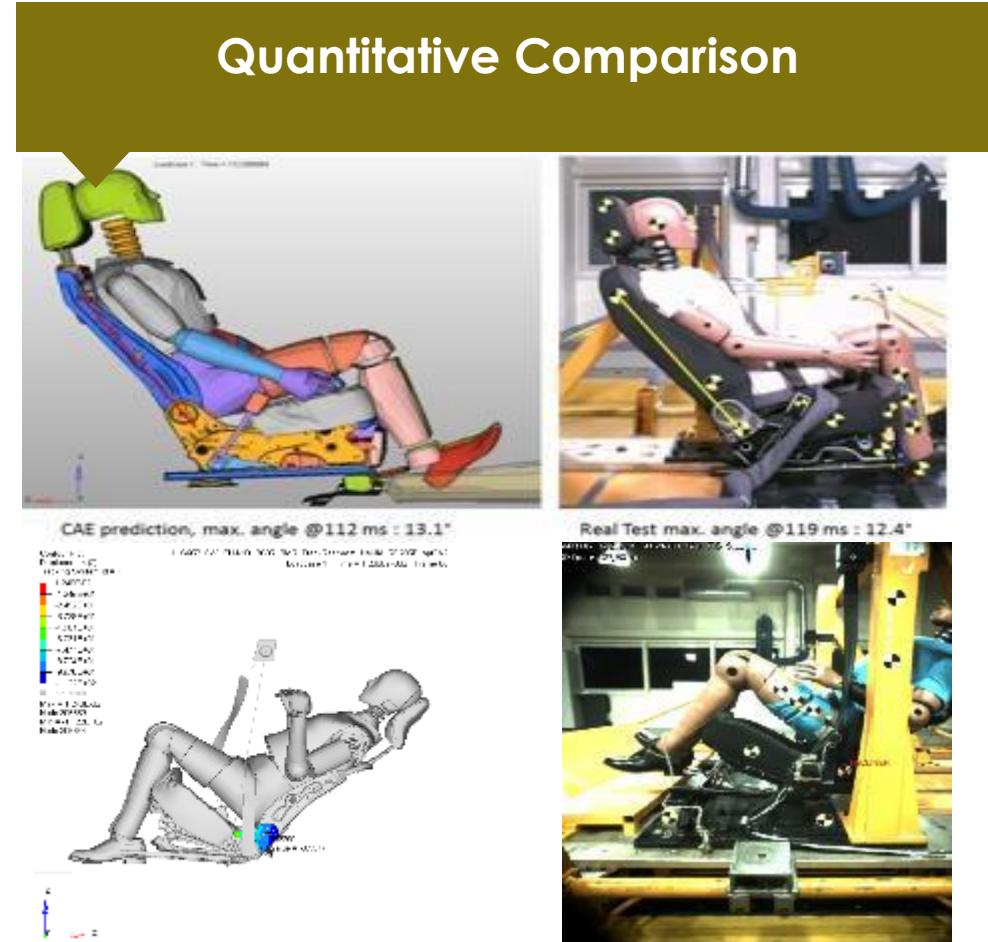
Deformation (qualitative comparison)



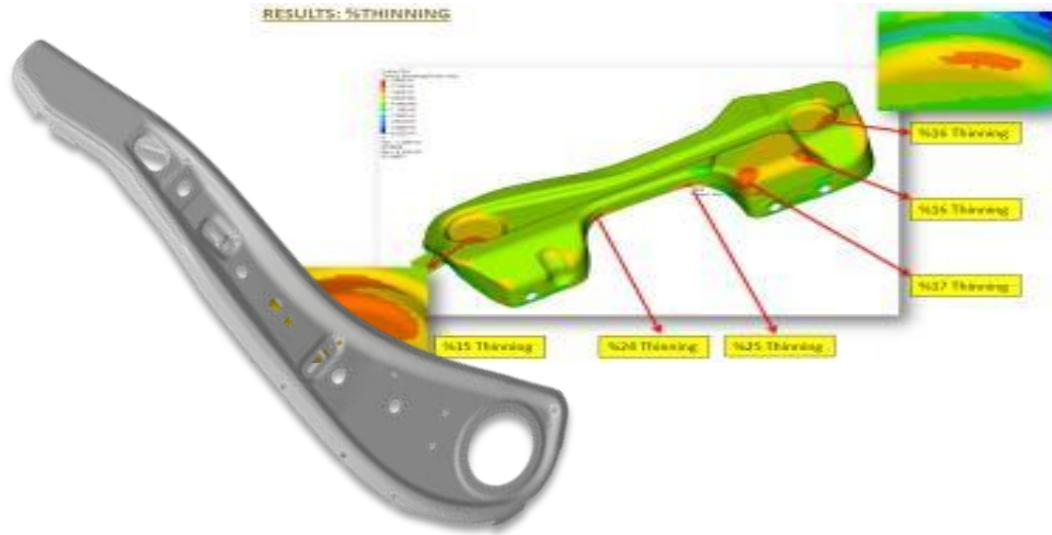
Whiplash (qualitative and quantitative comparison)



Quantitative Comparison



MATERIALS

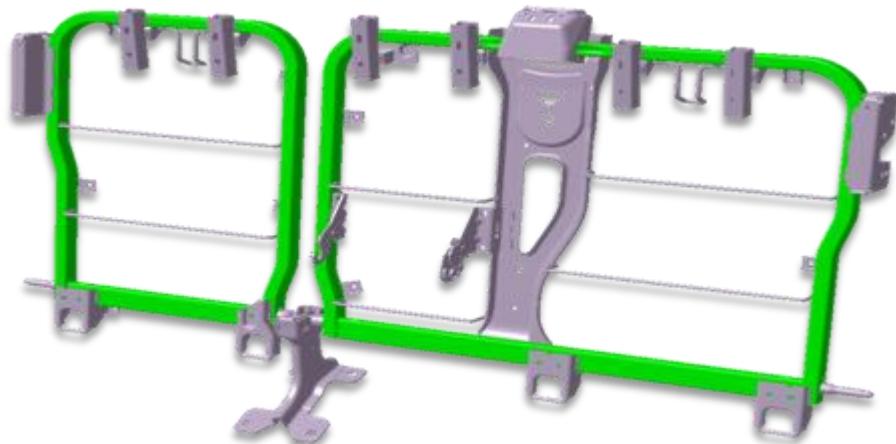


HIGH STRENGTH STEELS

- Dual Phase Martensitic Steels
- FortiForm 1050
- TWIP Steels 980/1180

VARIABLE THICKNESS TUBE & PROFILES

Variable thickness profiles





Smart Connectivity



Seat & Interior Systems



Textile



Mechanism



Process

Voice Control

Gesture Control

Face Detection

Stress Monitoring

Health Monitoring

Artificial Intelligence

Conductive Dashboard

Adaptive Seat

Light Weight Structure

Self Healing Materials

Thermo & Sound

Conductive Material

Noise Cancellation

Shock Absorber Material

Biodegradable Materials

Nano Materials

Sustainability

3D printing

Track

Recliner

Height Adjuster

Seat Latches

Industry 4.0 Tools

MES (Manufacturing

Executing Systems)

Real time parameters

control from machines & IoT sensors



FAST PROTOTYPING

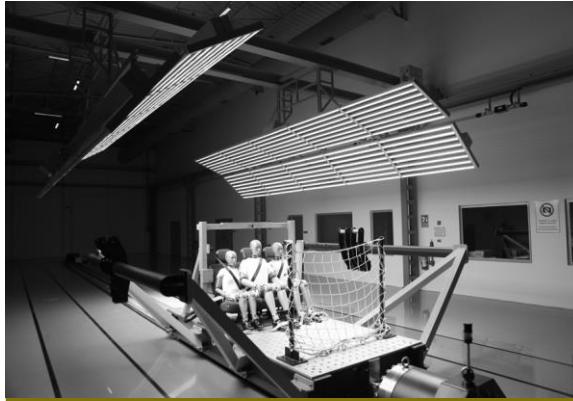
Handmade 1:1 scale prototype - foams, resin tools foam, 3D print plastic - to represent dimensions and kinematics of the product

OFF TOOL PROTOTYPES

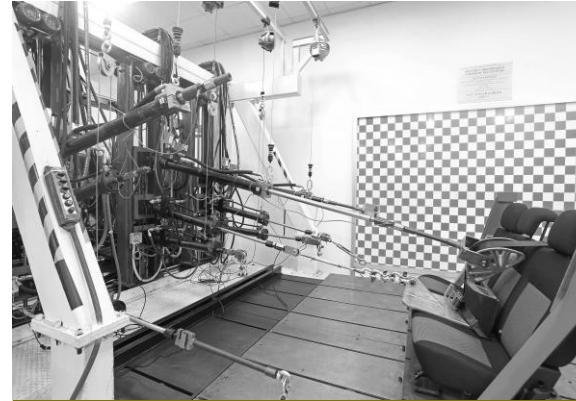
Prototypes - foams, metals, plastic - to be subjected to destructive testing for design verification



Static Test



Sled Test



Pulling Strength Test



Airbag Deployment Test

- Sled (Crash) Test Lab
 - Vehicle Level (BIW)
 - Seat and Restraint Systems
- Airbag Deployment Tests
- Fatigue Tests in Climatic Conditions

- Seat Belt Anchorage Tests
- Robot Test Benches
- Static Load Tests
- Physical Characteristics Measurement
- Atos Compact Scanner

- Adhesion Tests
- Appearance Tests
- Flammability Tests
- Light Fastness Tests
- Spectrometer
- Acoustic Tests

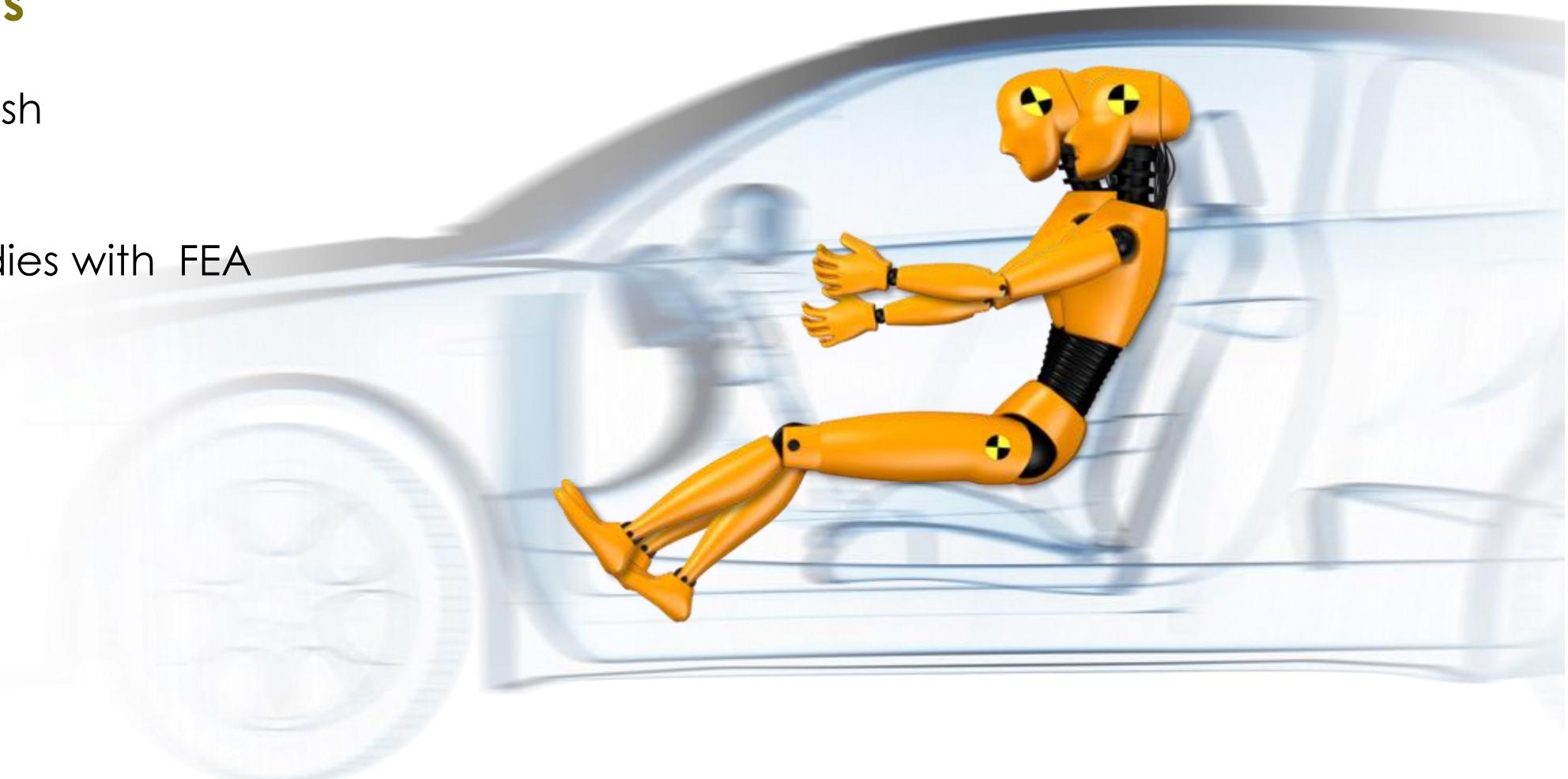
Dynamic tests

Frontal/rear crash

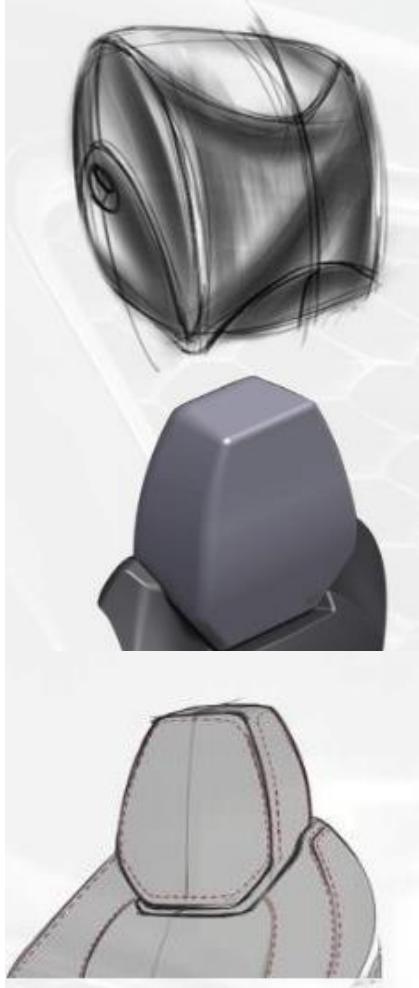
Whiplash

Luggage

Correlation studies with FEA



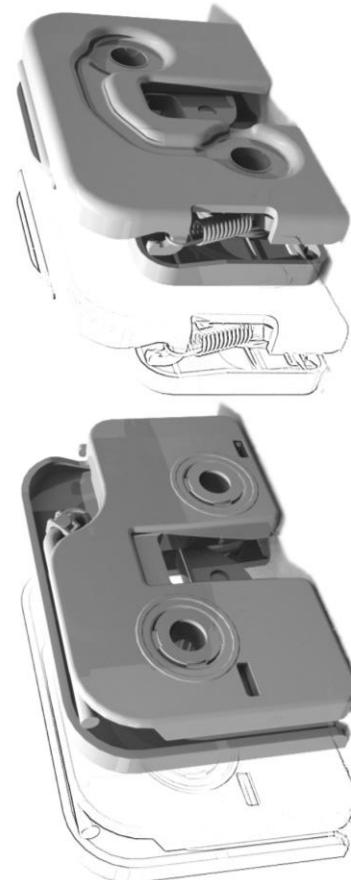
Flexible Headrest
In-situ Headrest



Flexible Armrest
In-situ Armrest



Latch



FIAT 500 BEV



ABARTH 500 BEV



CITROËN C3



STELLANTIS

Turin, Italy



Turin, Italy



**Trnava, Slovakia
Oarja, Romania**



FIAT EGEA/TIPO SEDAN

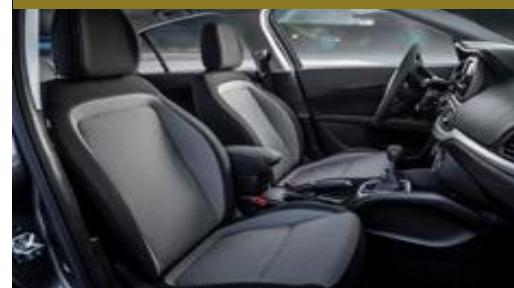


FIAT EGEA/TIPO HB



STELLANTIS

Bursa, Türkiye



Bursa, Türkiye



OPEL VIVARO/ZAFIRA



PEUGEOT EXPERT/TRAVELLER



CITROËN DISPATCH/JUMPY



FIAT SCUDO/ULYSEE



STELLANTIS

Bursa, Türkiye



Bursa, Türkiye



Bursa, Türkiye



Bursa, Türkiye



TRANSIT



Kocaeli, Türkiye



E-TRANSIT CUSTOM



Kocaeli, Türkiye



TOURNEO COURIER



Pitesti, Romania



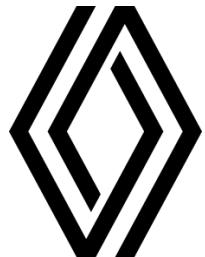


VOLKSWAGEN CARAVELLE



Kocaeli, Türkiye





DACIA

NEW SANDERO



NEW LOGAN

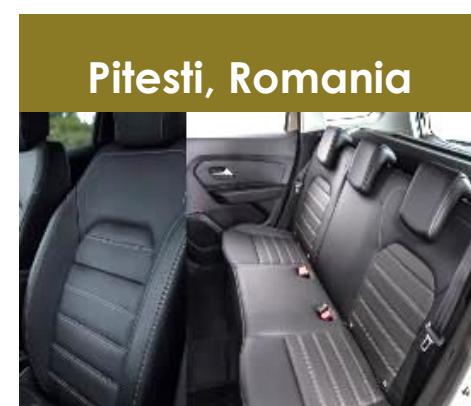
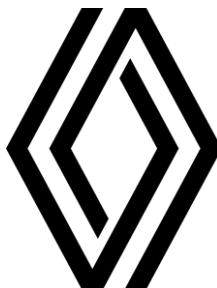


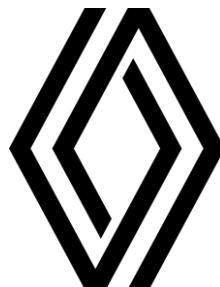
MEGANE



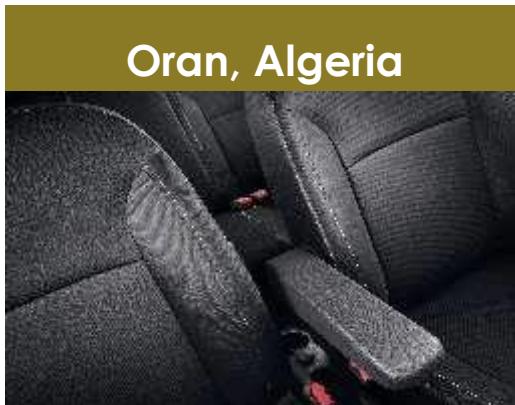
**Pitesti, Romania
Tangier, Morocco**







SYMBOL

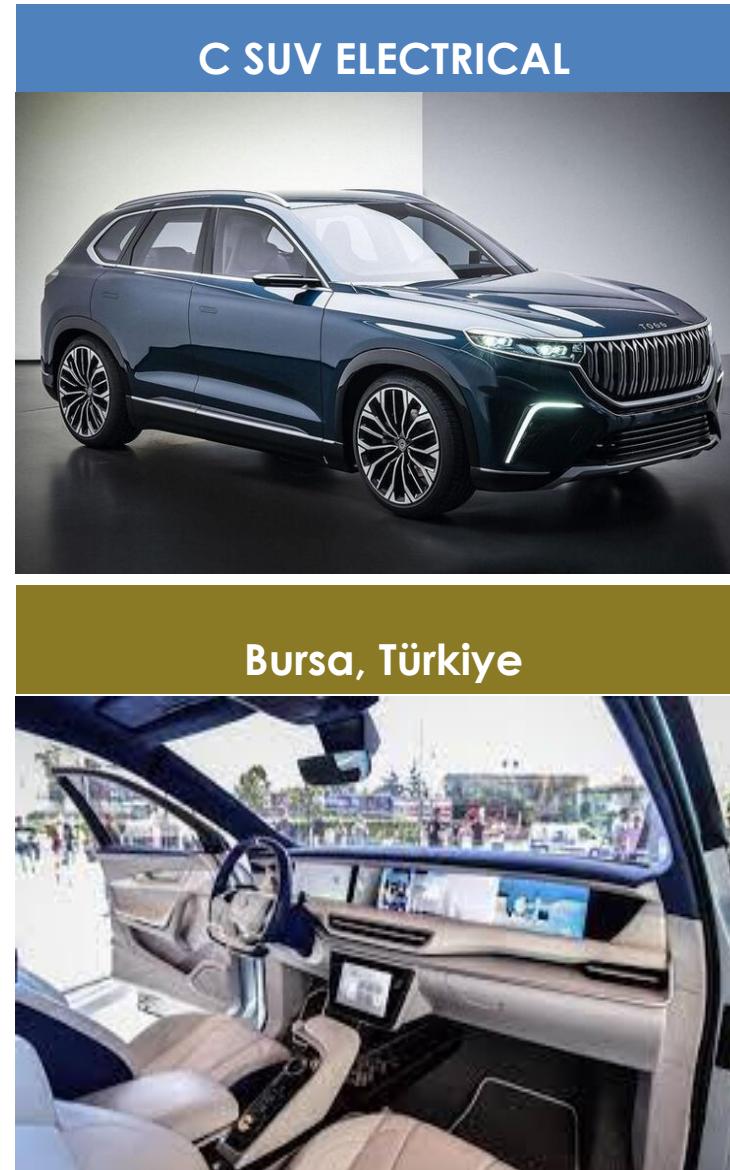


SANDERO



Oran, Algeria

A photograph showing the interior of a Renault Sandero car, specifically the rear seats, which are upholstered in a dark, textured material.





EQ5 – EQ6



Bursa, Türkiye

Bursa, Türkiye

Kocaeli, Türkiye

SKODA

KODIAQ

FIAT EGEA/TIPO





**FIAT
EGEA/TIPO**



Bursa, Türkiye



CITROËN C3



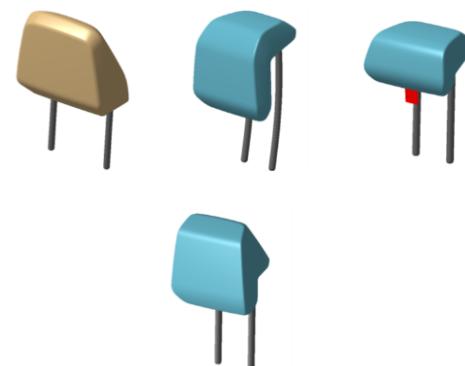
**Trnava, Slovakia
Oarja, Romania**



**OPEL
GRANDLAND**



Oarja, Romania

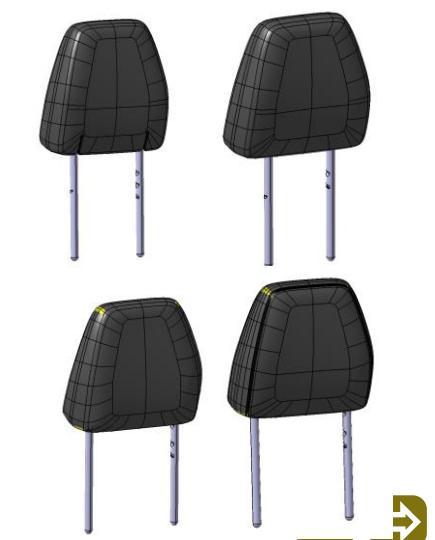




Bursa, Türkiye



Kocaeli, Türkiye



Pitesti, Romania





DUSTER



Pitesti, Romania



JOGGER



Pitesti, Romania



NEW SANDERO



Pitesti, Romania
Tangier, Morocco



NEW LOGAN



Pitesti, Romania
Tangier, Morocco



SKODA

FABIA



Pitesti, Romania



audi

Q4 E-TRON



Pitesti, Romania

toyota

YARIS



Pitesti, Romania

VW

CADDY 5



Pitesti, Romania

VW

ID BUZZ



Pitesti, Romania



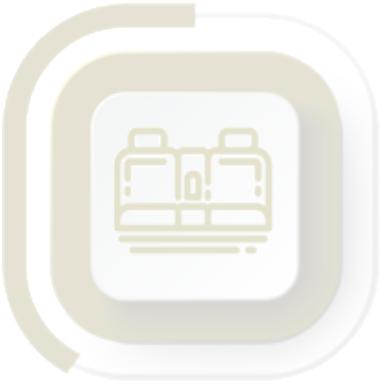
- **SAP** : 2024 AI-Driven Sustainable Innovation Award
- **SAP** : 2022 Innovation Award in Industry Leader Category
- **FORD** : 2020 Supplier Conference, Golden Award
- **RENAULT** : 2020 Quality & Customer Satisfaction Award
- **AON** : 2018 Employee Engagement Success Award
- **FCA**: 2017 WCM Bronze Level
- **RENAULT**: 2017 Quality Award
- **FORD**: 2016 Q1 Supplier
- **FCA**: 2014 Best Supplier in Europe



SEAT SYSTEMS



INTERIORS



TEXTILE



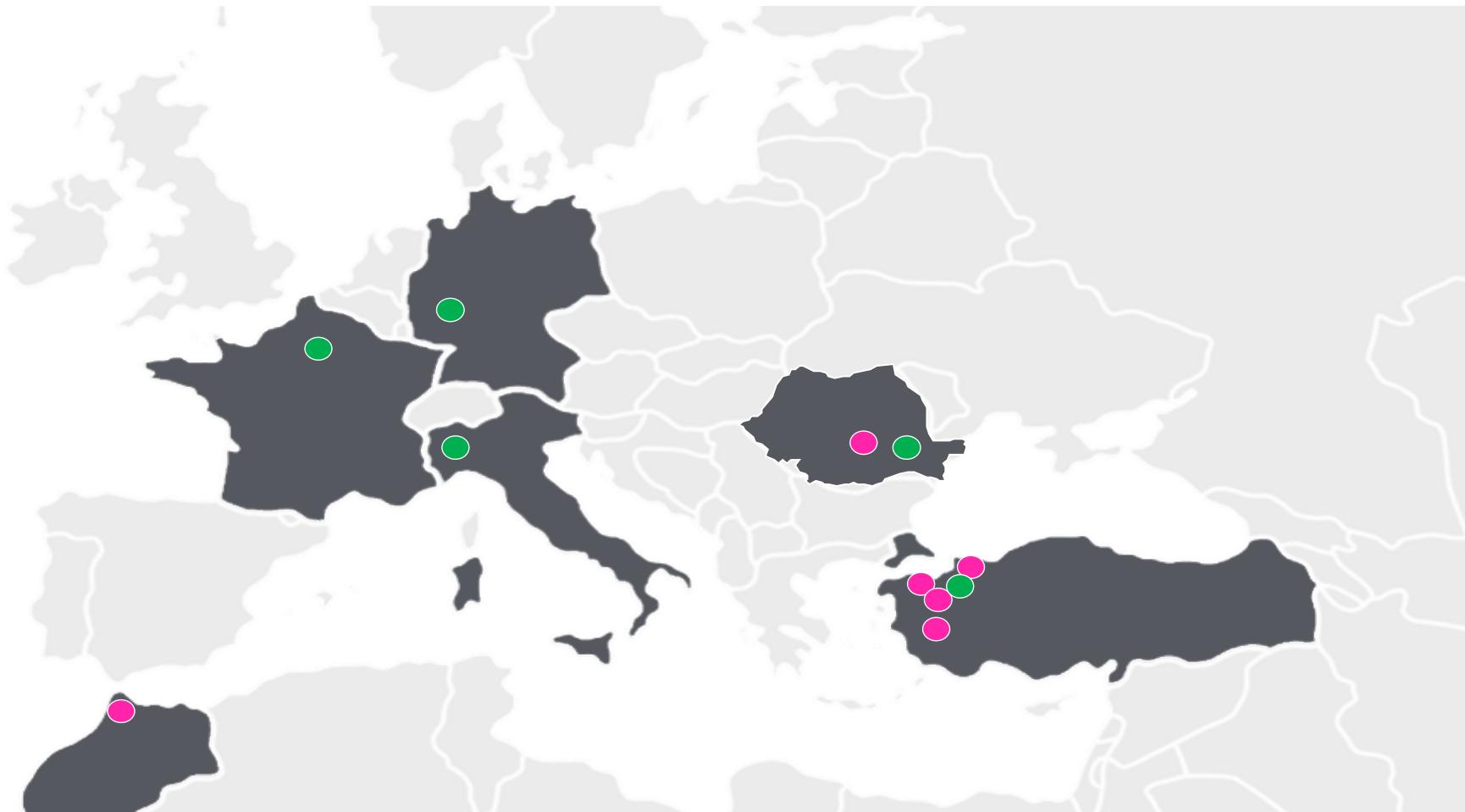
E&D - R&D

Bursa
Paris
Turin
Cologne
Bucharest



INTERIORS PLANTS

Bursa (2)
Kütahya
Kocaeli
Tangier
Pitesti



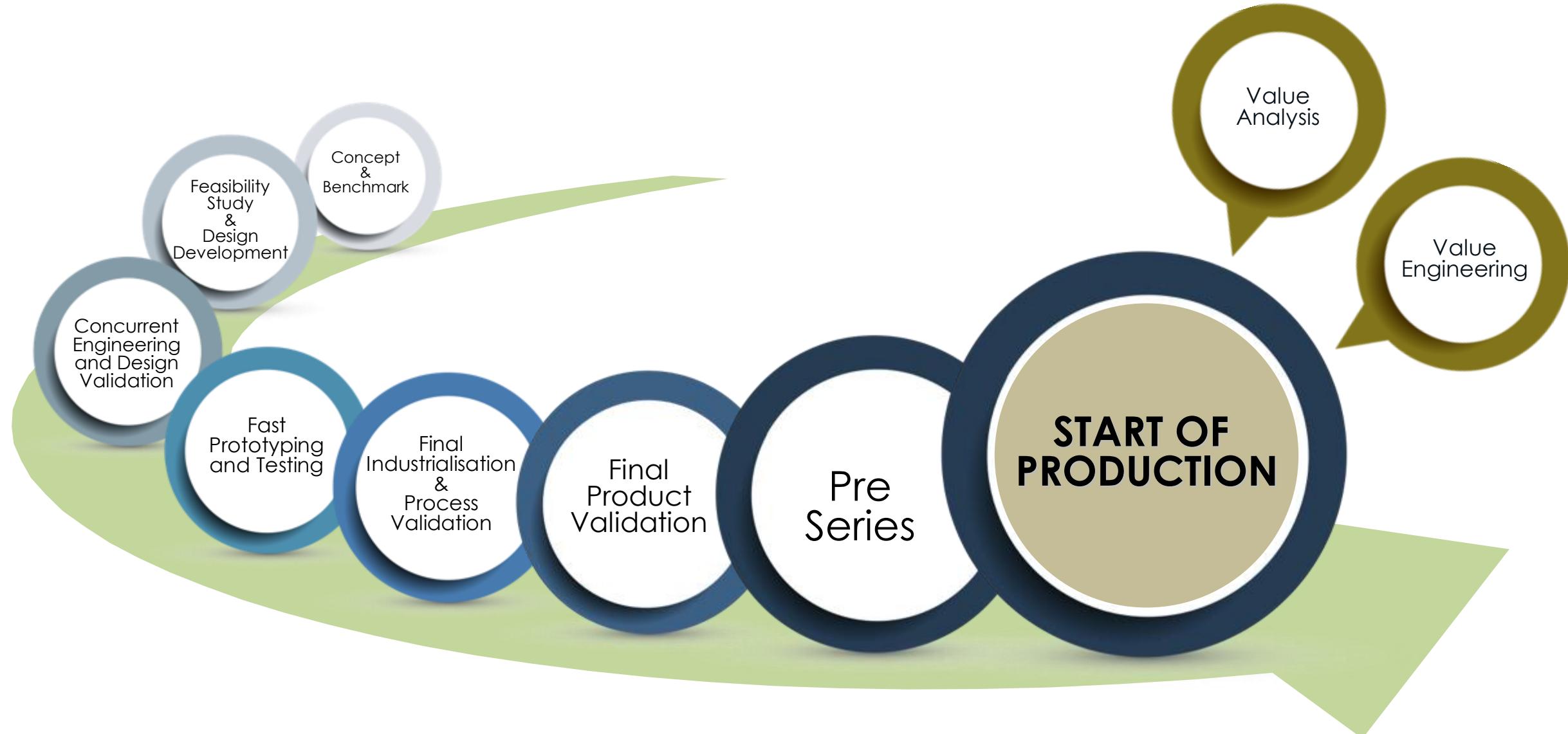
Sites

6

Total
employees

1.100+





INSTRUMENT PANEL

DOOR PANEL

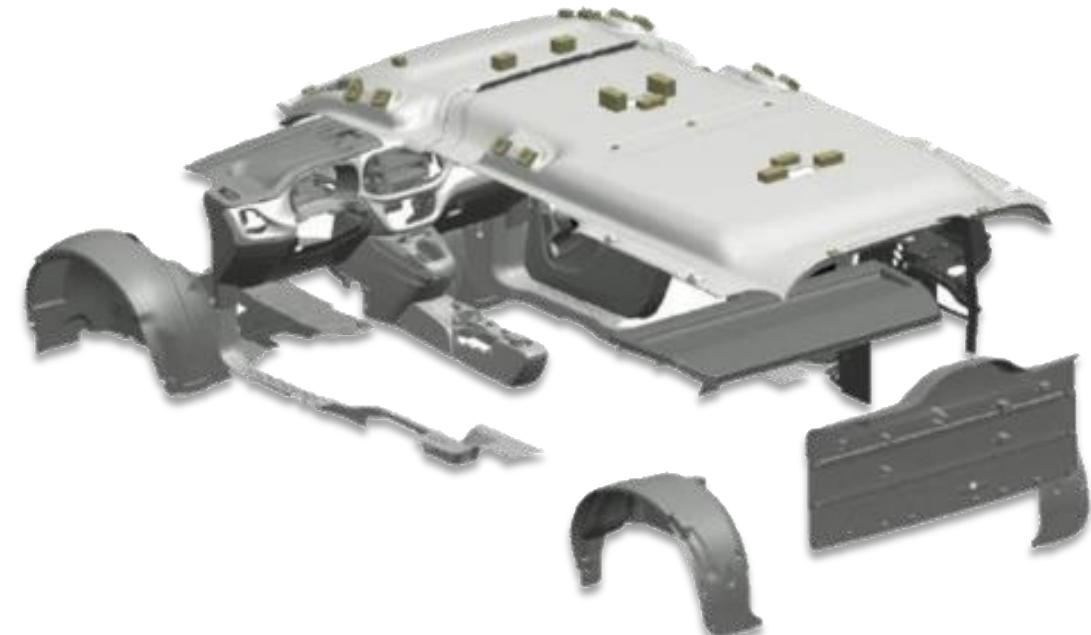
CENTER CONSOLE

**HARD TRIM
INJECTIONS**

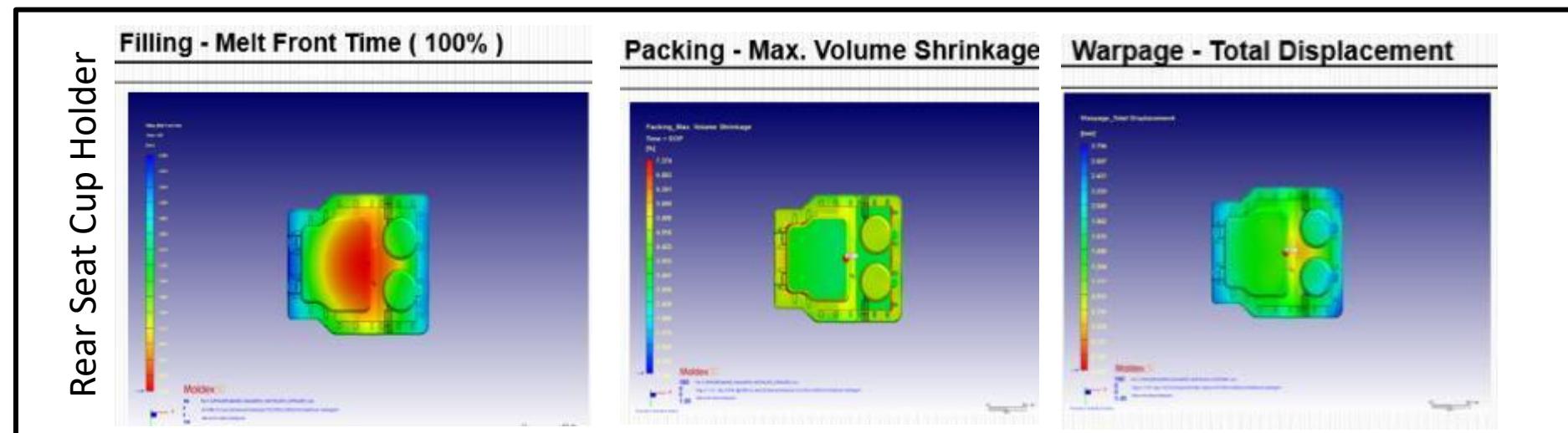
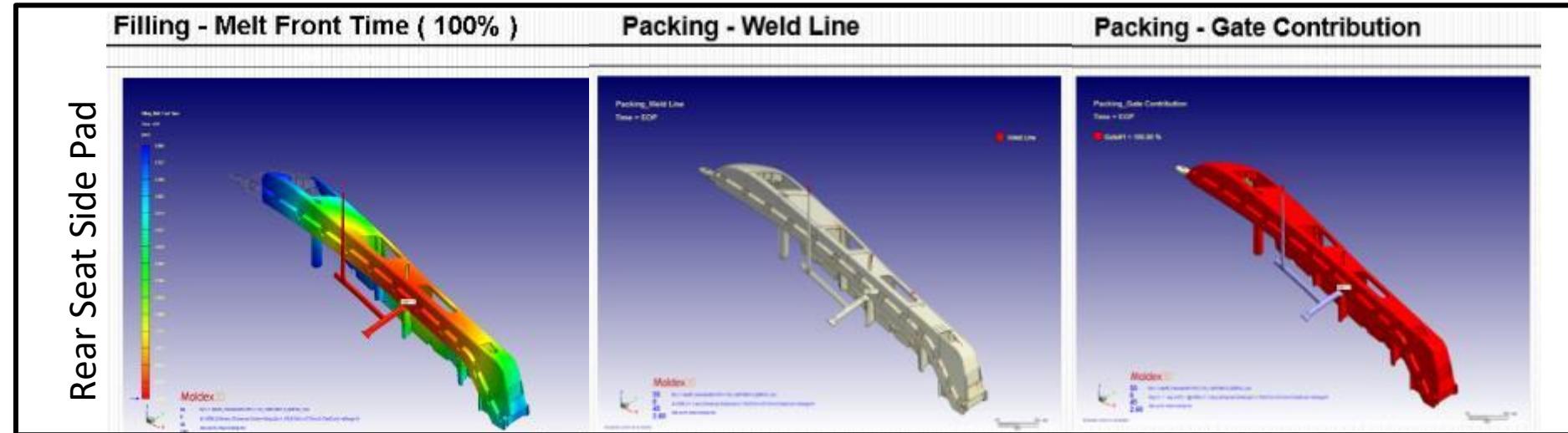
SUNVISOR

HEADLINER

PARCEL TRAY



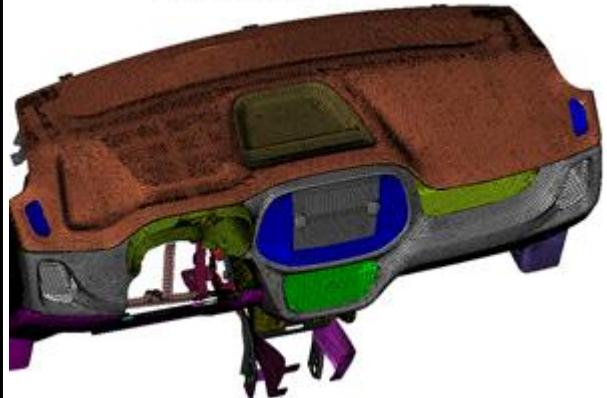
Manufacturing Simulations



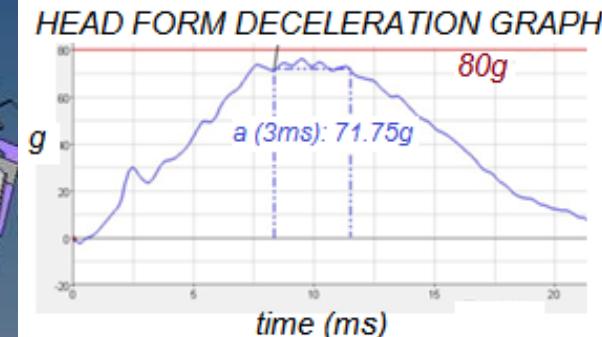
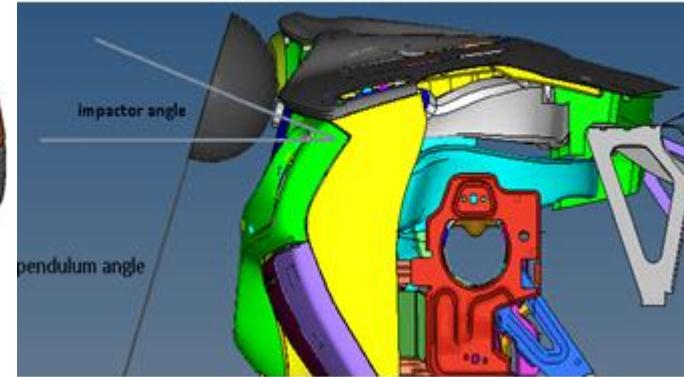
Validation Simulations

Dashboard Head Impact, FMVSS201

FE MODEL

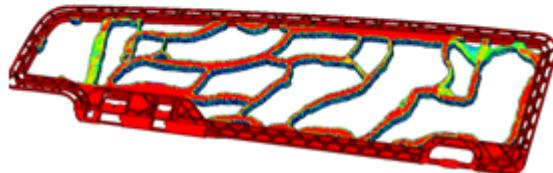


SIMULATION SETUP

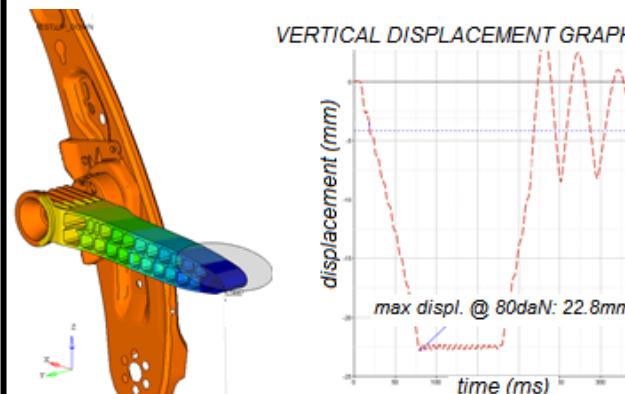


Sunvisor frame topology optimization

objective : minimize weight
constraint : displacement < 45mm
manufacturing : single draw direction
min member size

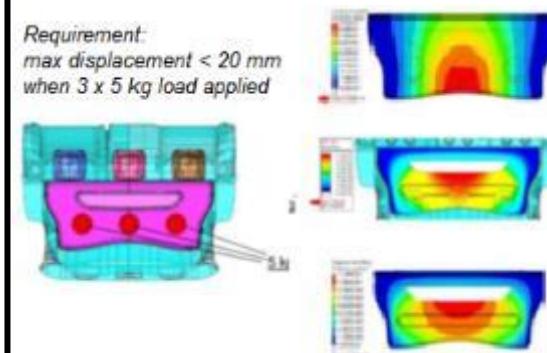


Armrest Static Loading



Parcel Tray Static Loading

Requirement:
max displacement < 20 mm
when 3 x 5 kg load applied



Interiors Lab is able to **perform 95% of the tests** according to OEM specifications on final products, materials and characterization analysis

- Sunload
- Airbag Deployment
- Road Simulator
- Climatic Chamber
- Squeak Rattle
- Alpha Cabin
- Cold Knife Scoring
- Laser Scoring
- PU Strength & Hardness Control
- US Welding & Strength Control



FIAT EGEA/TIPO SEDAN



STELLANTIS

Bursa & Kütahya, Türkiye

IP, Front/Rear Door Panels,
Central Console, Headliner



FIAT EGEA/TIPO HB



Bursa & Kütahya, Türkiye

IP, Front/Rear Door Panels,
Central Console, Headliner, Parcel Tray



FIAT 600



DODGE NEON



ALFA ROMEO JUNIOR



STELLANTIS

Kütahya, Türkiye

Parcel Tray



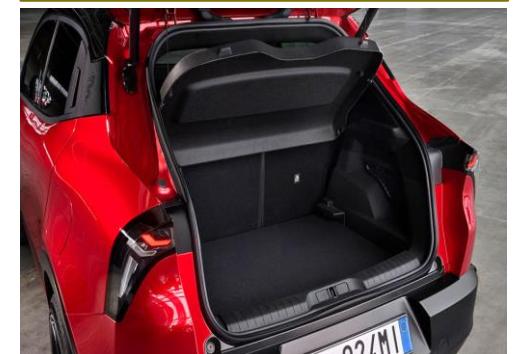
Bursa & Kütahya,
Türkiye

IP, Front/Rear Door Panels,
Central Console, Headliner



Kütahya, Türkiye

Parcel Tray



OPEL VIVARO/ZAFIRA



PEUGEOT
EXPERT/TRAVELLER



CITROËN
DISPATCH/JUMPY



FIAT SCUDO/ULYSEE



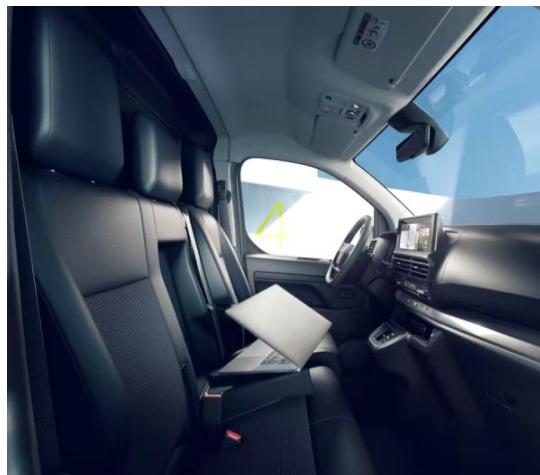
Bursa, Türkiye

Instrument Panel, Headliner,
Body Side Trim



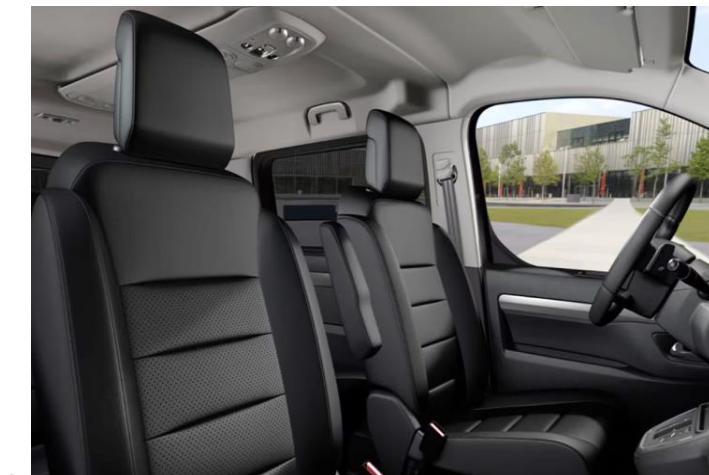
Bursa, Türkiye

Instrument Panel, Headliner,
Body Side Trim



Bursa, Türkiye

Instrument Panel, Headliner,
Body Side Trim



Bursa, Türkiye

Instrument Panel, Headliner,
Body Side Trim

CITROËN C3



CITROËN C3 AIRCROSS



OPEL FRONTERA



STELLANTIS

Kütahya, Türkiye

Headliner



Kütahya, Türkiye

Headliner



Kütahya, Türkiye

Headliner





COURIER



**Pitesti, Romania
Kütahya, Türkiye**

Front/Rear Door Panels,
Headliner, Body Side Trims



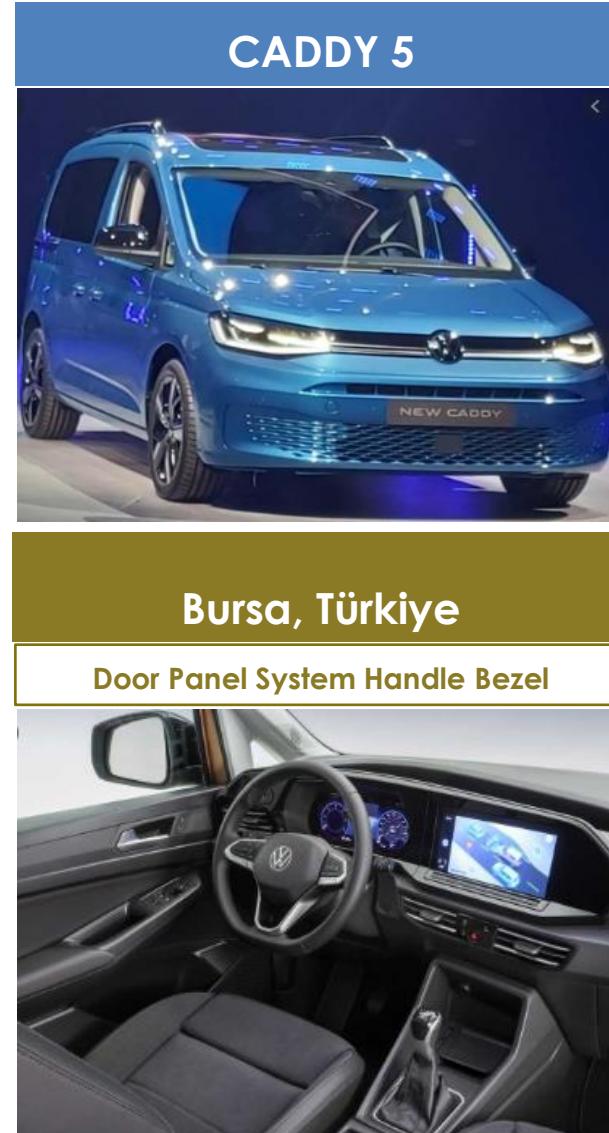
TRANSIT

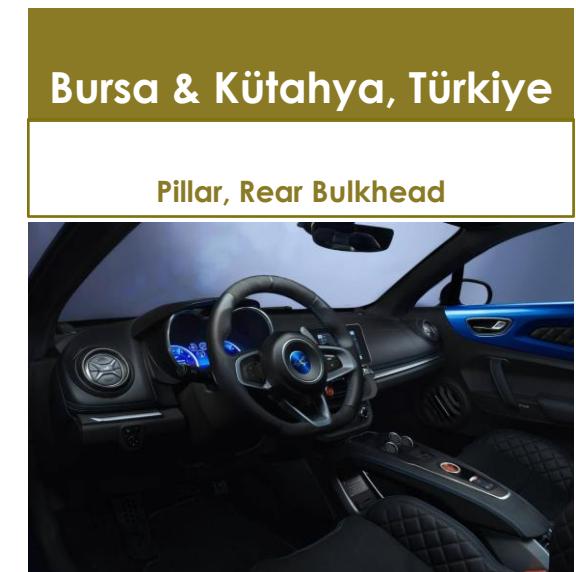
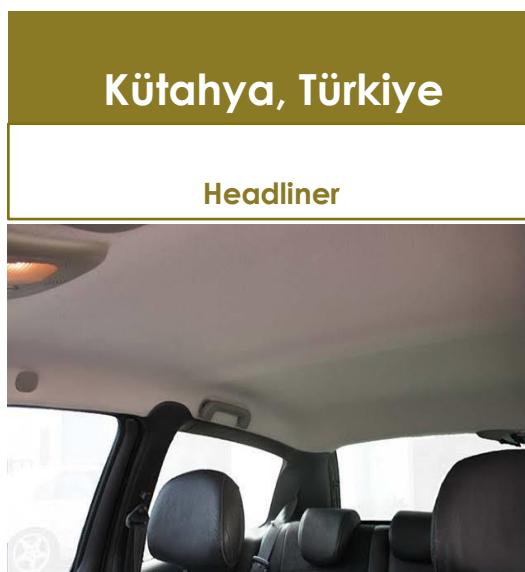
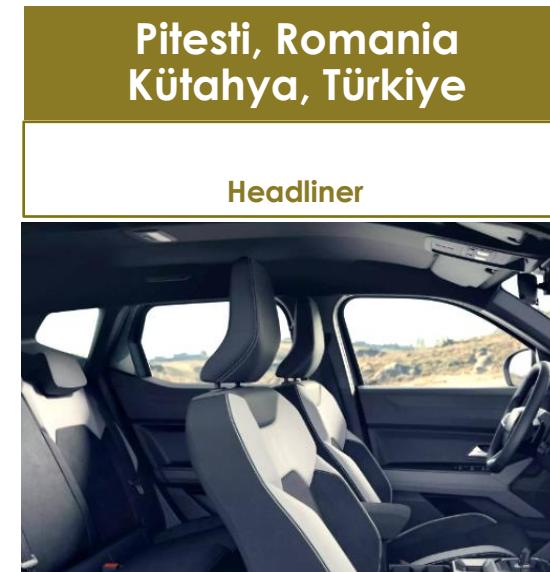
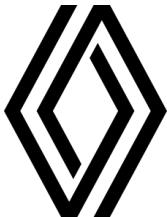


Bursa & Kütahya, Türkiye

Scuff Parts







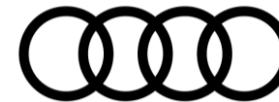
KODIAQ



SKODA

Bursa, Türkiye

Console, Armrest



EQ5 – EQ6



Bursa, Türkiye

Armrest







- **FORD** : 2021 Supplier of the Year Bronze Award
- **FCA**: 2018 WCM Bronze Plant Level
- **FORD**: 2018 Q1 Supplier
- **FCA**: 2018 Development of Cooperation
- **FCA**: 2017 New Product Launching
- **RENAULT** : 2017 Ecovadis Supplier Gold Level
- **FCA**: 2016 Development of Cooperation
- **Tofaş**: 2008 Supplier Quality Award



SEAT SYSTEMS



INTERIORS



TEXTILE



E&D - R&D

Bursa
Paris
Turin
Cologne
London



TEXTILE PLANTS

Kütahya
Tangier



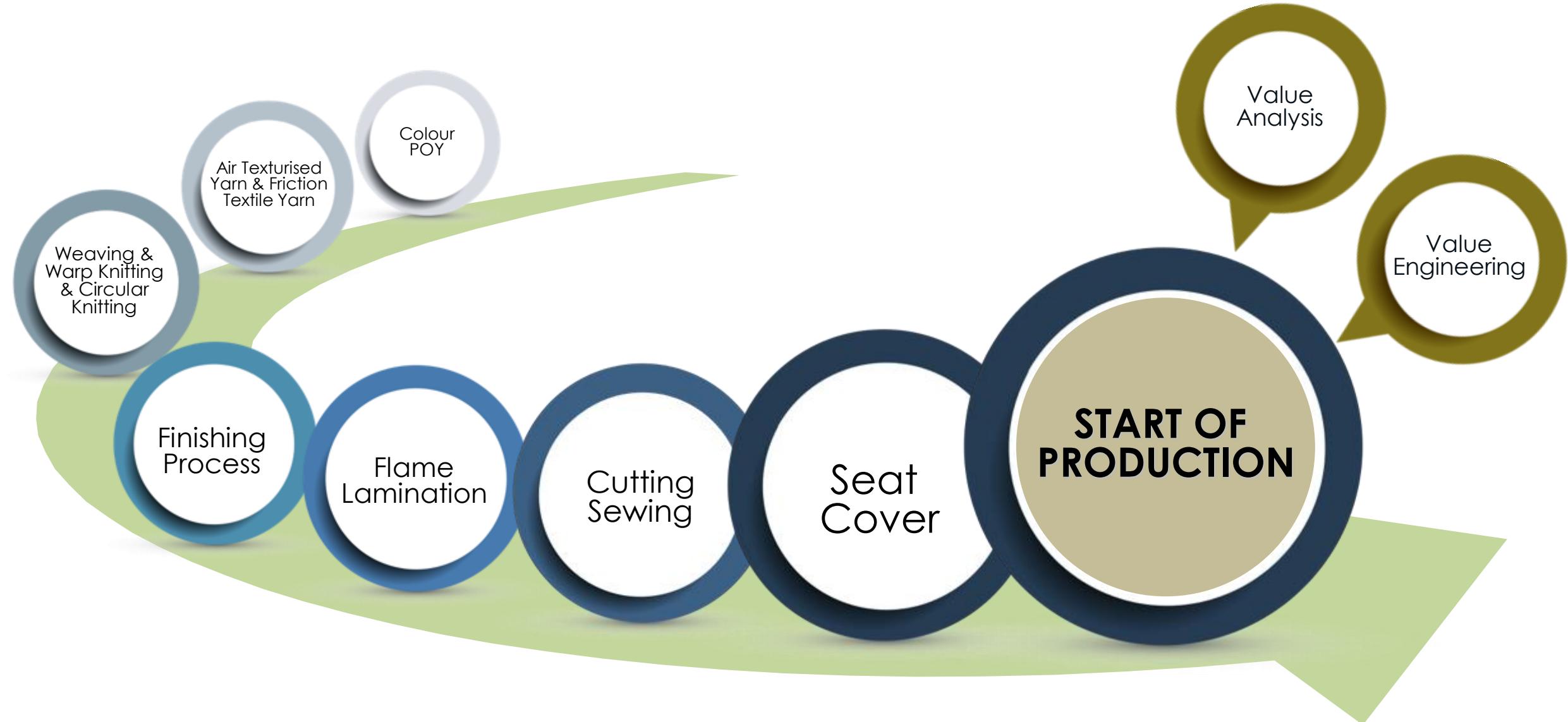
Sites

2

Total
employees

1.600+





GLOBAL ECONOMY



Sustainability

- Natural resources
- Recycled materials
- Monomateriality (MONOM ®)

Circularity

- Waste free product/production solutions
- Recyclability

Digitalization

- VR/AR for textiles
- Digital collections for future

NEW MATERIAL/PROCESS



Functionality

- Anti-microbial
- Self-cleaning & Anti-stain
- PFAs free solutions

Smart

- Heatable textiles
- Sensor based textiles
- Smart printing solutions

COLLABORATIONS



Funding Calls

- National funding projects
- EU Horizon projects

Advanced Material Innovations

- Piezo-electric & energy-harvesting
- Supercapacitor/Photovoltaic applications
- Self Healing/Shape Memory Materials
- Bio-Mimetic materials



TREND COLLECTION

Combining all research and development to create a collection and presentation which maps out the future of automotive. Sharing inspiration and ideas with all customers.

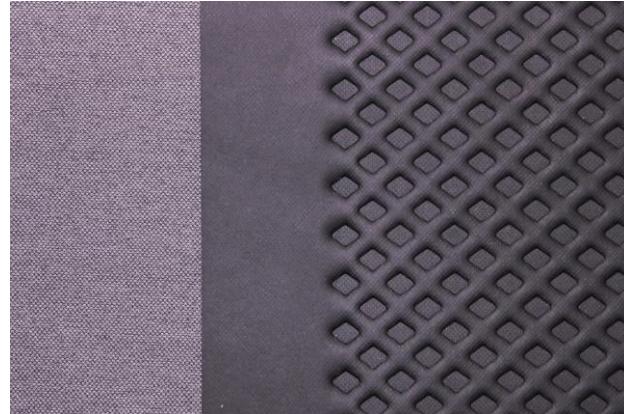
TESTING CAPABILITIES

Taber Abrasion Tester
Ice Mace Snag Tester & Viewing Cabinet
Martindale Abrasion & Pilling Tester
Cesconi Pilling Tester
Schopper Abrasion Tester
Surface Abrasion Tester
Stoll Abrasion Tester
Brush or Sponge Pilling Tester
Crockmeter / Rubbing Fastness Tester
Ash Oven
Specimens Physical and Functional Changing Test System
Climatic Chamber
Combustion Chamber
Light Fastness Test Machine (Weather-Ometer)
Fogging Test Chamber
Colour Spectrophotometer
Universal Testing Machine
Sliding Test Equipment
Light Cabin
Wear MIE Abrasion Test Machine
Autoclave
Breaking Angle Test Fixture
Trim Tester
Static Friction Test Machine
Taber Shear/Scratch Tester
Antistatic Test Machine
Seam Line Fatigue Tester
Frazier Type Air Permeability Test Machine
Tetrapod Test Machine

- Stellantis
 - FCA
 - PSA
 - Opel
- Toyota
- Renault
- Ford
- Volkswagen



TEXTILE APPLICATIONS



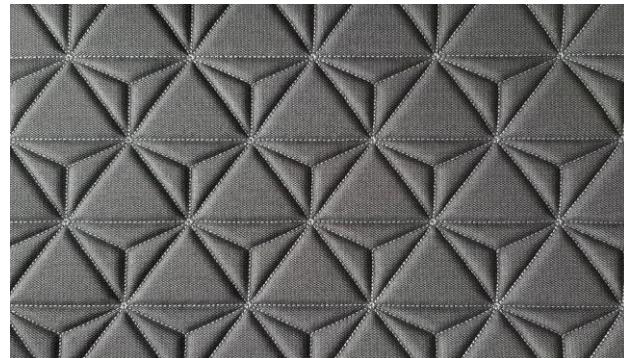
HF Embossing



Calender (Cylinder)
Embossing



PVC & Fabric on
Fabric Embossing



Embroidery



Hot Plate Embossing



Multistitch



DACIA

Duster
Bigster
Sandero
Lodgy
Logan

FIAT

Tipo – Tipo Cross

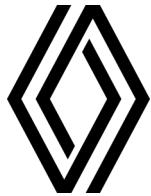
CITROËN

C3
C3 Aircross

FORD

Transit
Transit Courier





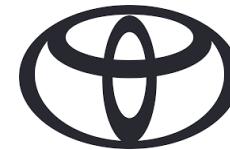
RENAULT

New Clio
R5 (Echo)



TOGG

C SUV Electrical



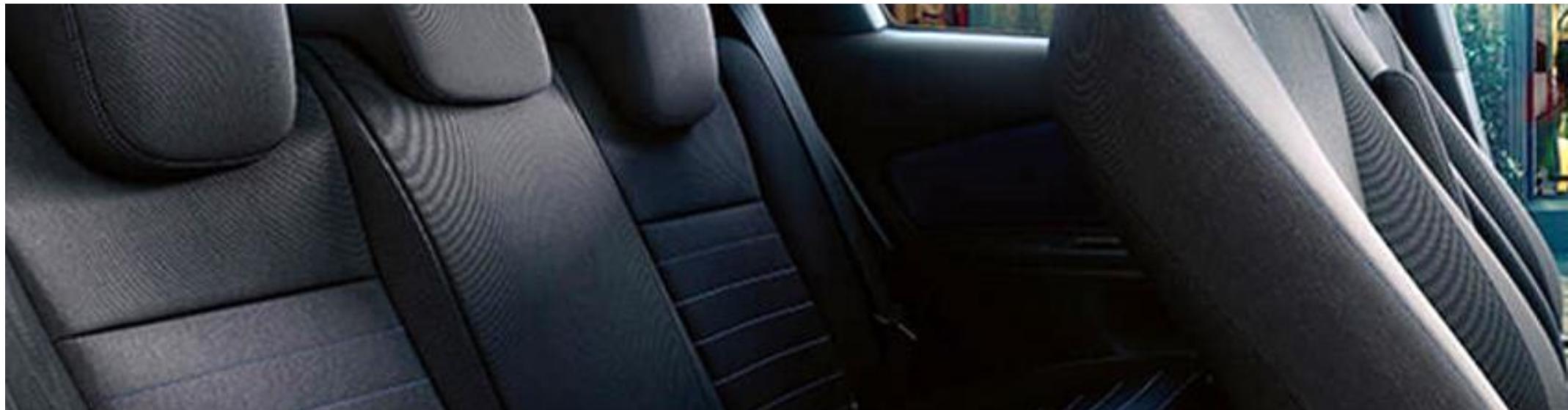
TOYOTA

Corolla HB - Sedan
Yaris – Yaris Cross
Aygo



VOLKSWAGEN

Transporter
ID-Buzz





- TISAX
- ISO 50001
- IATF 16949
- ISO 14001
- ISO 45001

- **TOYOTA**: 2016 Value Analysis Award
- **RENAULT**: 2016 ASES Qualification
- **FORD**: 2011 Q1 Supplier
- **Ministry of Türkiye**: since 2011 Govermental Supported R&D Center



Thank you...

Mulțumesc
Teşekkürler

Merci
Grazie
Ďakujem

Vielen Dank
Спасибо
ありがとうございます

شكرا
Dziękuję Ci
Obrigado
ευχαριστούμε
Děkuji