



MANUFACTURING and DIGITAL TRANSFORMATION

AUTOMOTIVE TECHNOLOGY CENTRE OF GALICIA

PRIVATE AND INDEPENDENT DEVELOPMENT CENTRE FOCUSED ON THE AUTOMOTIVE & MOBILITY SECTOR

automotive sector. More than 900 engineers and technicians develop and test innovative new products.

CTAG works at different stages of the development of new products and processes, from applied research to product life validation. It offers comprehensive solutions for the development of innovations and large industrial projects. It integrates the design of body-in-white, sub- and components as well as the integration of systems.

It also approaches the domain of digitalization and development of new products, contributing to the digital transformation of industry through customised solutions. Its activities include data and other key technologies in the automotive.

The CTAG Electro and ITS departments are experimental workshops, technicians and experts are dedicated to ADAS & sensor calibration, connectivity, comfort & interior HMI & design, EV & SW and validation.

CTAG has its own laboratories to carry out complete component and system validation, engine, vehicle, engine laboratory, chassis and more. It also has its own quality management system and IT infrastructure.

YOUR PARTNER IN TECHNOLOGY AND INNOVATION.

CTAG is a R&D service center dedicated to the automotive sector. More than 900 engineers and technicians develop and test innovative new products.

CTAG works at different stages of the development of new products and processes, from

+1.200

PROFESSIONALS

56M€

T.O. 2022

+70M€

TOTAL INVESTMENTS

50%

OEMs

50%

INTERNATIONAL ACTIVITY

+120

PATENTS

+90

EUROPEAN PROJECTS

95%

AUTOMOTIVE & MOBILITY

CTAG has its own laboratories to carry out complete component and system validation: electric vehicle, climatic laboratory, acoustics and vibration, fatigue, passive safety, engine and electronics and ITS test tracks.

TESTING AND VALIDATION

ELECTRONICS AND ITS

PASSIVE SAFETY

GENERAL SERVICES

ITS TEST TRACK

MANUFACTURING

EV LAB

BOOSTER LAB 4.0

TEST TRACKS

Main features:
- Outer area with interchanges and traffic lights
- Confidential boxes and offices in the test track
- 160 m of straight
- 8 parking places
- Track oval length:
- Width per lane: 3.5 m
- Curve radius: North: 45 m, South: 20 m
- 90 m diameter lagoon

Polígono Industrial A Grouba,
Calle A. parcelas 348 250
E-36470 Porrino (Pontevedra),
Spain

◀ **MANUFACTURING and DIGITAL TRANSFORMATION**

IMPROVE MANUFACTURING EFFICIENCY, QUALITY and PRODUCTION

R&D in PROCESS + FACTORY IMPLEMENTATION

>130 PROFESSIONALS

MAIN CLIENT: AUTOMOTIVE FACTORIES

TYPICAL SCENARIO: R&D PROJECT TO DEVELOP, INTEGRATE, EVALUATE, ADAPT

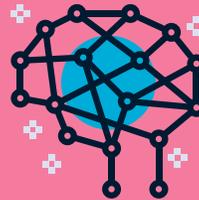
**INTERNATIONALLY
AT THE FOREFRONT
OFFERING NEW
TECHNOLOGICAL
SOLUTIONS**

STRATEGIC LINES MANUFACTURING

ACTIVITIES



**GREEN &
HYPERFLEXIBLE FACTORY**

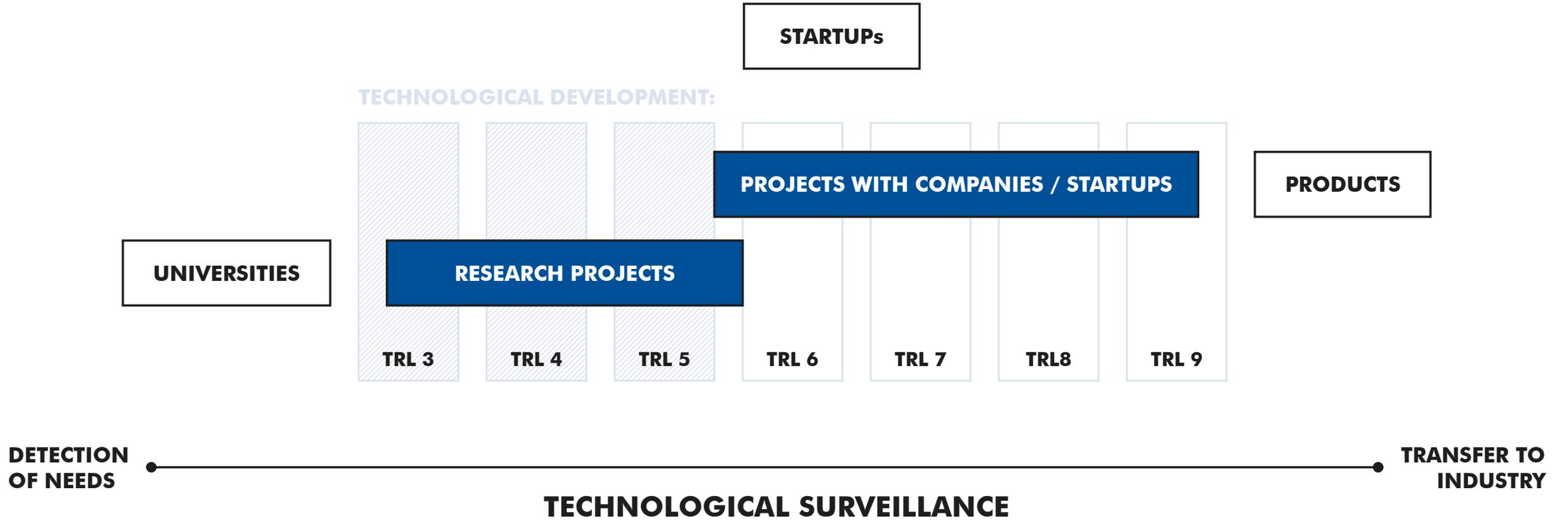


SMART FACTORY



HUMAN FACTORY

OUR STRATEGY:



OUR METHODOLOGY:



01. PRE-PROJECT
Economic
Technical Analysis

**02. INITIAL
FEASIBILITY**
Technology
Analysis

**03. PRE-ASSEMBLY
IN LABORATORY**
PoC Development
Collaboration With StartUps

**04. FINAL
VALIDATION**
In-line Validation



BOOSTER MANUFACTURING LAB

TESTING AND EXPERIMENTATION FACILITIES FOR FACTORIES, START-UPS AND ENGINEERING COMPANIES

TECHNOLOGY CONSULTANCY

TECHNOLOGY ASSESSMENT

MENTORING

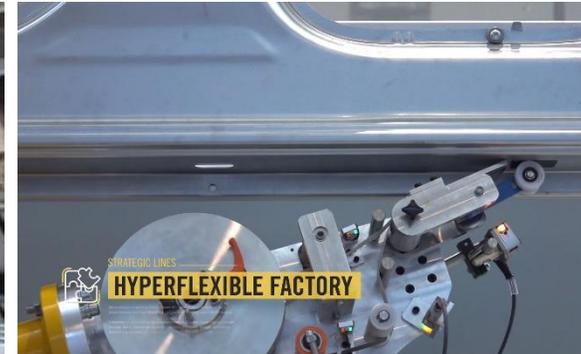
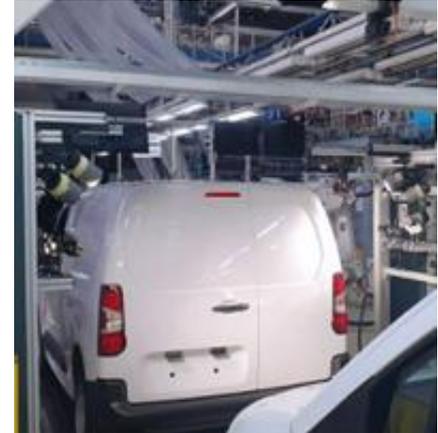
LEARNING ENVIRONMENT

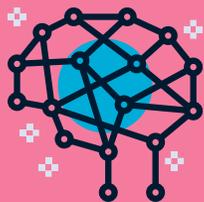




GREEN & HYPERFLEXIBLE FACTORY

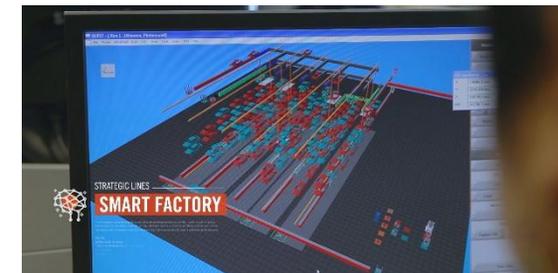
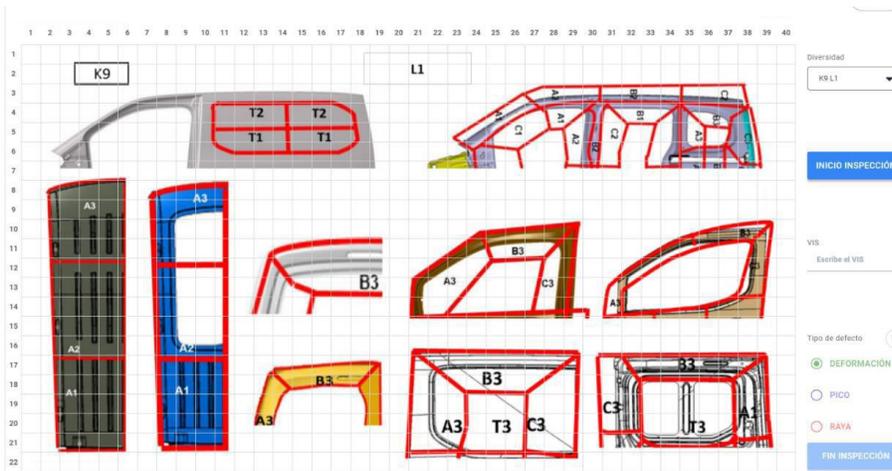
PROCESS ENGINEERING
ROBOTICS & AUTOMATION
SMART LOGISTICS
MACHINE VISION & BINPICKING





SMART FACTORY

IA
BIGDATA IN THE FACTORY
PAPERLESS FACTORY
DIGITAL TWIN
CONNECTED FACTORY & 5G



API 018 - Plan de vigilancia FER

16 - Sondeo No Destructivo Via Verificación Visual ZF 49454 **

17 - Ensayo Destructivo - Diámetro ZF 49454 **

18 - Sondeo No Destructivo Via Verificación Visual ZF 49476

17 - Ensayo Destructivo - Diámetro ZF 49476

API 018 · Posiciones

Posiciones de apriete frente al tiempo

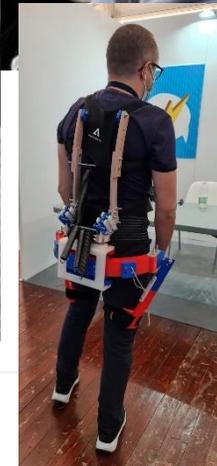
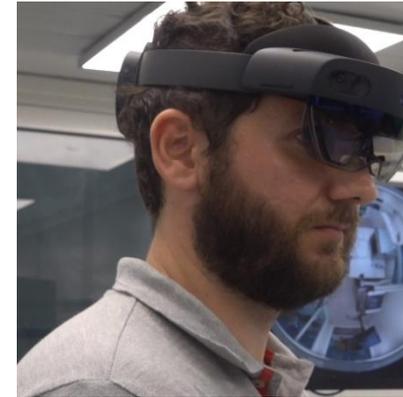
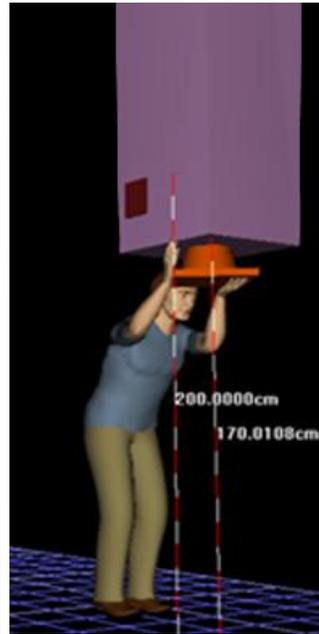
Recorrido de un ciclo por código ciclo y semanas

Código Ciclo 1 - Recorrido de un ciclo por turnos y ser



HUMAN FACTORY

EXOSKELETONS
COGNITIVE ASSISTANCE
SOFT ROBOTICS/GRASPING
MECHATRONICS



Supporting innovation in manufacturing companies through training programs and an open networks of facilities and services.

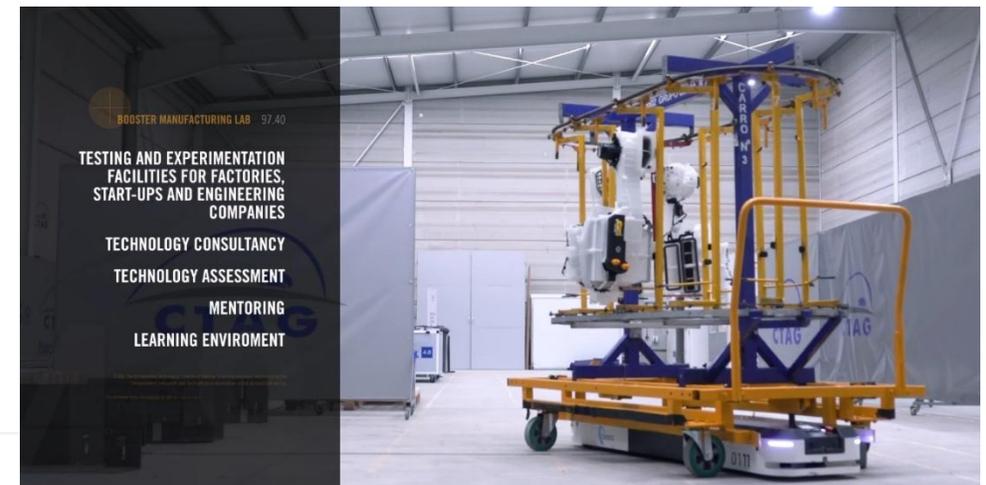
OPENLABS – Open network of industrial laboratories for digital and sustainable transformation of companies.

Business Factory Auto (BFA) – Mentoring SMEs in automotive .

STRADA – Leadership programme for women in manufacturing.

We lead the Digital Twin Topic Group at ADRA.

TECHNOLOGY ACCELERATION



BOOSTER MANUFACTURING LAB 97.40

TESTING AND EXPERIMENTATION
FACILITIES FOR FACTORIES,
START-UPS AND ENGINEERING
COMPANIES

TECHNOLOGY CONSULTANCY
TECHNOLOGY ASSESSMENT
MENTORING
LEARNING ENVIROMENT



THANKS!

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