COMMITTED WITH INNOVATION CONNECTED TO THE FUTURE

FICOSA

Corporate Presentation

2017

Group Highlights

Automotive Tier 1

Established in 1949 in Barcelona

Global partners with Panasonic

Decades of experience supplying all major OEMs

Global company

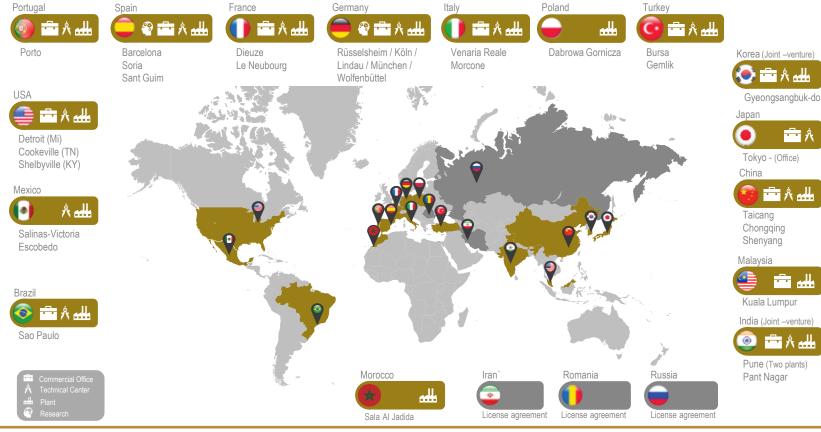
6.5% of sales invested in R&D





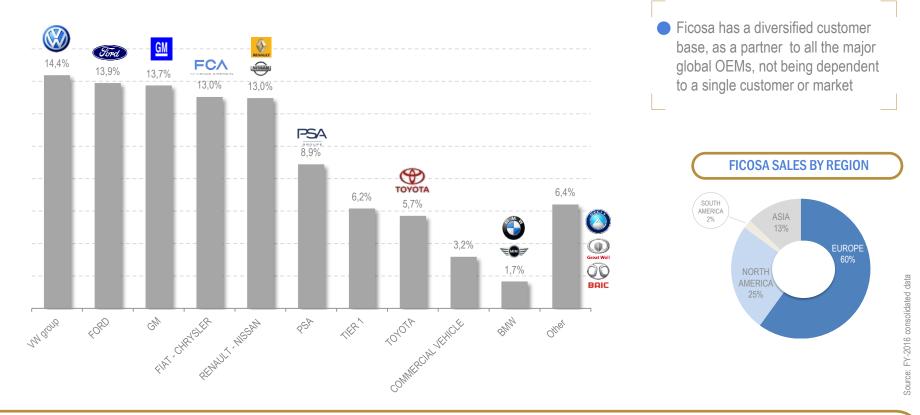
X FICOSA

Global Footprint



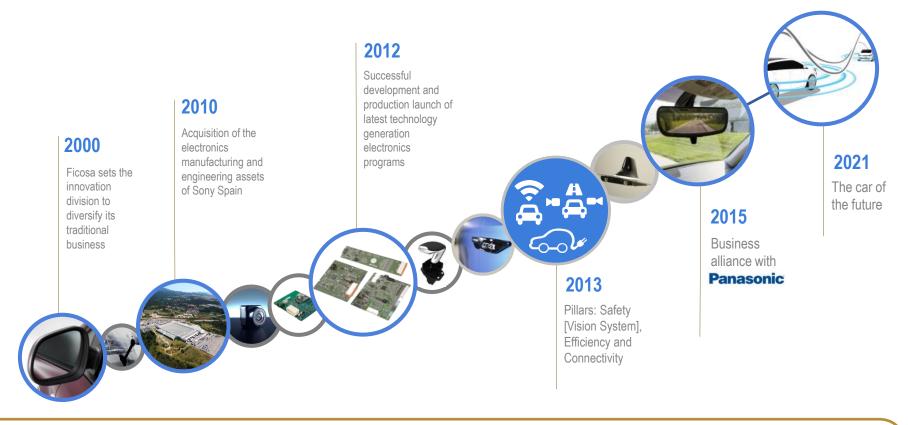
X FICOSA

Customer Diversification





A higher technological company





Business Units

UNDERHOOD SYSTEMS



• Exterior Mirrors

• Shifter systems

• Parking Brake

Systems

Interior Mirrors

REAR VIEW SYSTEMS

COMMAND & CONTROL

DOOR & SEAT SYSTEMS

• Comfort

• Light Cables

Washer Systems

 Sensor Cleaning System

COMMERCIAL VEHICLES

Enterior Misson

- Exterior Mirrors
- Interior Mirrors
- Camera Monitoring Systems
- Communication
 Modules



ADVANCED COMMUNICATIONS



Communication
 Modules



 Smart Connectivity Modules

eMOBILITY



- Battery Management Systems
- On Board Charger

ADAS



- Cameras
 - Camera Monitoring Systems



X FICOSA

Rear-view Mirrors Business Unit



Exterior rearview mirror



Exterior rearview mirror



Exterior rearview mirror With Light Signals



Intelligent rearview monitoring system



Intelligent rearview monitoring system



Light signals into rearview mirrors

- Ficosa produces 24 million mirrors per year growing to 28 million mirrors in 2021
- Global Tier 1 supplier with WW engineering & manufacturing footprint
- Among top 3 leading mirror suppliers
- Leading technological change to intelligent vision





Command and Control Business Unit











ATX Automatic shifter





Gearbox actuator



MTX Manual shifter

Since 1992 developing and producing manual, automatic and shift by wire systems

• Full system approach

- Embedded mechatronic solutions
- High degree of integration



Door and Seat Systems Business Unit



- Worldwide leaders in light cables
- Comforts expertise in steel and plastic materials
- Innovative solutions in Lumbar systems

Fully integrated process



Underhood Business Unit



*W*indshield and headlamp washer system



Windshield and headlamp washer tank





Wash pumps



Telescopic nozzles for headlamps

- Global Tier 1 supplier with worldwide engineering and manufacturing footprint
- Full system approach
- Main processes & components fully vertical integrated
- Leading technological change to assure safety and vision performance of new automotive sensor applications through new cleaning solutions



Commercial Vehicles Business Unit





Rear-view mirrors to Class II until Class VI





Telescopic mirrors for agricultural and construction equipment Specific V2V modules for trucks







Coach, city bus and trail Mirror solutions with integrated antennas



Rear view cameras

Expertise on rear-view mirrors technology for heavy duty and medium duty trucks

- Wide product portfolio for all passenger transportation vehicles - coach, city bus and trail
- Global leader in rear view systems for agricultural and construction equipment
- ADAS solutions for trucks with integrated detection features specific.
- TCU's for truck platooning and ERA GLONASS connectivity modules



Advanced Communications Business Unit

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Smart connectivity module - Shark fin

Smart connectivity module – Hidden antennas

Expertise in automotive connectivity

- 6 Telematic platforms experience
- + 2 Million Telematic units in the market
- Customers: 8 OEMs. Award of 2 programs with 2 new OEMs



eMobility Business Unit



High voltage box





Battery module and cell controller



On board charger



- Expertise in automotive electrical, hybrid and hydrogen vehicles
- Developing and producing for 5 OEMs
- ASIL-C software compliance as per ISO26262
- EMC & electrical safety compliance lab, high voltage lab & HIL/SIL lab



ADAS Business Unit



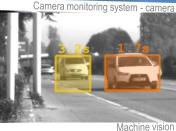


Camera monitoring system - Fender



Surround vision - 360°





Wachine visi



Expertise in automotive vision systems

- Machine vision specialists in Germany
- Awarded for ADAS systems and 2 million cameras per year
- Customers: 5 OEM's



What's new in Ficosa



- State of the Art Technical Center in Barcelona → 200 New Engineers Hired in 2016
- → 942 Engineers World Wide (≈10% of Group Employees)



New Technological Products Sales Achievement

→ First Company WW to be awarded with a CMS for a luxury OEM Brand
 → €320 M euros awarded program of Cameras for a German OEM
 → Ficosa-Panasonic awarded with a €800 M On Board Charger for EV (luxury Brand)
 → 2 New OEM Customers in Car Connectivity
 → Laserscaner Cleaning



New Turning Lights Activity in the Soria Plant → Fully Vertical Process Integrated



New "state of the art" plant in Cookeville, TN (USA) → Fully Vertical Process Integrated

- New Plant in **Shenyang (China)**
- - *New Plant Enhancement in Poland* for Die Casting and Command & Control
- Business transfer to a *New Plant in Brazil*
 - ADASENS 100% ownership
 - Iran technical agreement
 - Malaysia new plant



New Plant in *Morocco*



Soria Plant - New Blinkers Activity









Adasens (Lindau - Germany)



Commercial Highlights

		Rear-view Systems	 New Asiatic global customer Awarded important regional platform in NA & 5 important global platforms of several OEMs Awarded for 2 pre-developments of IRMS
		Command & Control	 Awarded new Shift by Wire with gearbox actuator Awarded AT shifter in China for global customer Awarded first AT project with Asiatic OEM
	\bigcirc	Underhood Systems	 Selected for the Sensor Cleaning Pre Development in luxury brand (Rear Camera Water & Air, Front Camera Ring Nozzle, Laserscaner Telescopic) First Nomination for luxury brand Telescopic Laserscaner Cleaning
	(÷	Advanced Communications	 Antenna supplier for Tesla Model X and S Awarded Telematic Control Unit TCU with 2 OEMs Mass production in Russia with full ERA GLONASS certification for 3 OEMs and new program awarded for 2017
	6	eMobility	 Production launch of BMS second generation vehicles Partner for the Battery management system & Junction box (BMCe+CMCe) development Research partner for semiconductor high voltage box
	** A	ADAS	 Parking Camera Supplier for 3 OEMS (5 by 2020) Camera Monitor System (CMS) nomination for a luxury brand. First one to be launched in the market Surround Viev System (SVS) nomination for a luxury brand



R & D

