

# AGC Glass Europe SA

WELCOME TO THE TECHNOVATION CENTRE | 3 November 2022



**AGC**

Your Dreams, Our Challenge



During your visit, please stay within view of your group



Safety shoes are mandatory in labs



Smoking is not allowed  
Zones for smokers have been fitted out outside the building.



No pictures, please



Alarms

1. Discontinuous alarm : emergency situation, be ready to evacuate.
2. Continuous alarm : Evacuation of the building and gathering in the car park south

**1** **AGC Group : Worldwide**  
Main Segments | Glass Segment

**2** **AGC Glass Europe**  
History | Main Segments | Figures

**3** **Technology & Innovation**  
AGC T&I Worldwide | AGC Technovation Centre

# 1 AGC WORLDWIDE

Main Business Segments



Your Dreams, Our Challenge

Our motto

“ *Your dreams, our challenge.* ”

**AGC**

Your Dreams, Our Challenge

## Core Business



Establishing long-term, stable sources of earnings by increasing competitiveness of each business



**Architectural Glass**



**Automotive Glass**



**Display**



**Ceramics**



**Chlor-Alkali / Urethane**

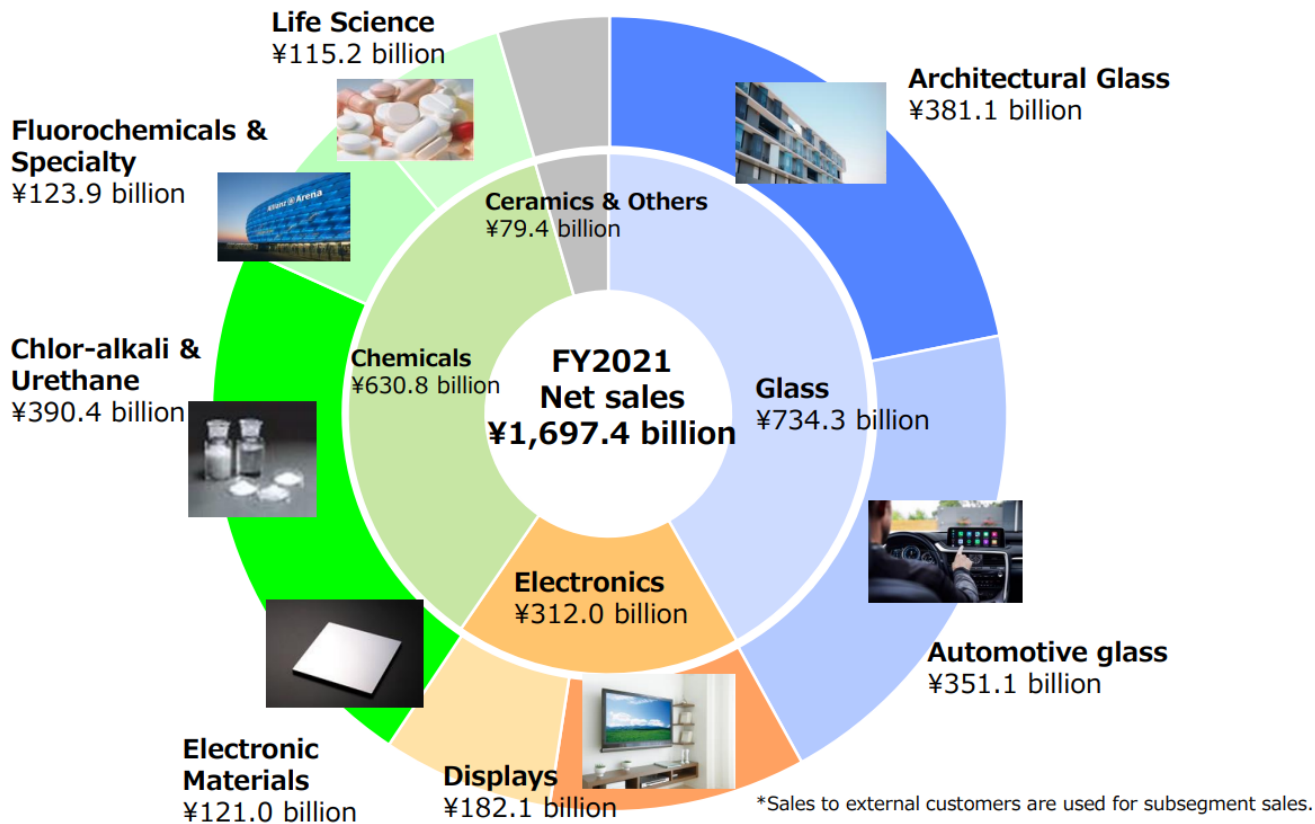


**Fluorochemicals & Specialty**

## Strategic Businesses

Create and expand highly profitable businesses that will become future pillars by using AGC's strengths in high-growth fields







Sales: 13.068 million € \*  
Operating profit: 1.587 million € \*



56.000  
employees\*



206 companies in  
over 30 countries



Headquarters and stock  
exchange listing: Tokyo



# 1 AGC WORLDWIDE

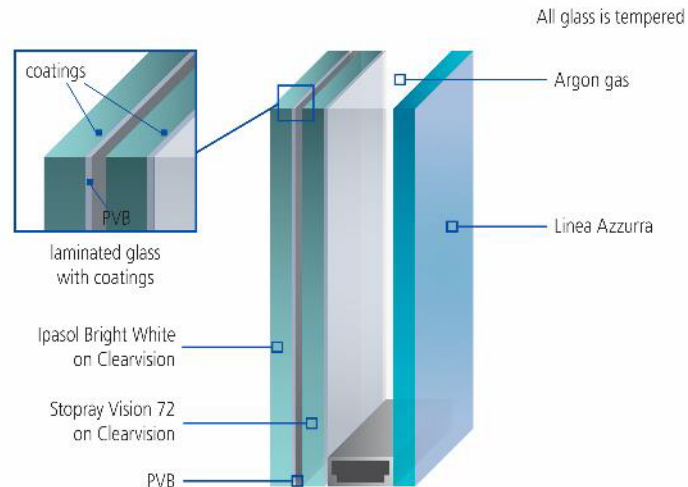
Glass Segment



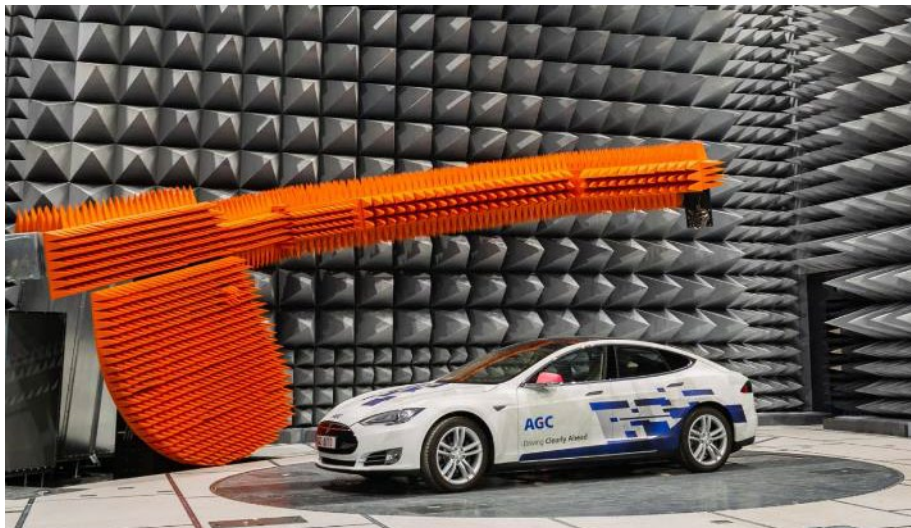
Your Dreams, Our Challenge



Lakhta Tower, St. Petersburg, Russia



The **Lakta Tower**, its façade is formed of double-glazing units incorporating three different glass components, with a total estimation of **450,000 sqm**



ATC anechoic chamber, Gosselies, Belgium



**On-glass Antenna design**, seamless integration of antennas in glazing to preserve the vehicle design.

**The anechoic chamber** is an advanced facility for measuring the quality of reception and transmission of antennas.

## The Americas

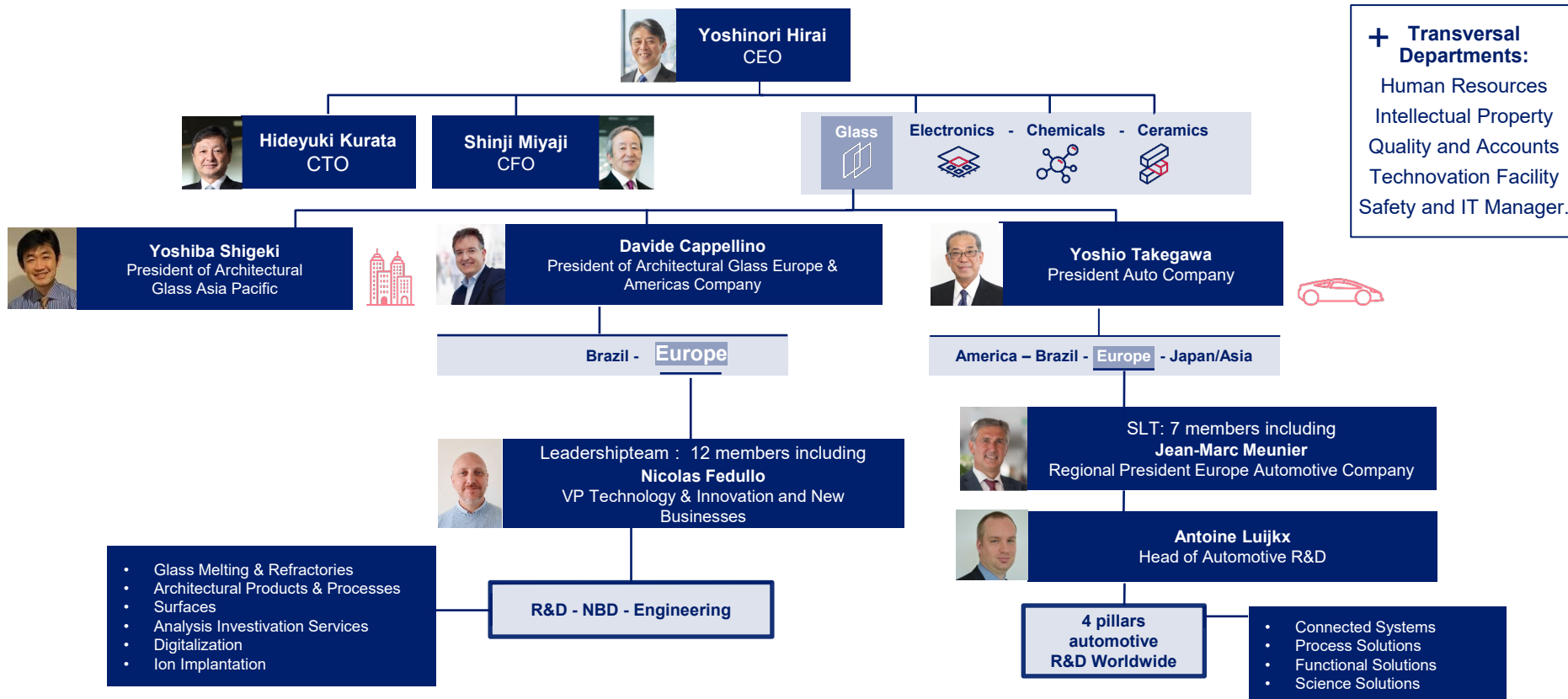
- **3** float plants
- **2** primary transformation & patterned glass plants
- **4** automotive plants
- **9** AVO plants
- ARG network
- **1** R&D Centre
- **3.200** employees

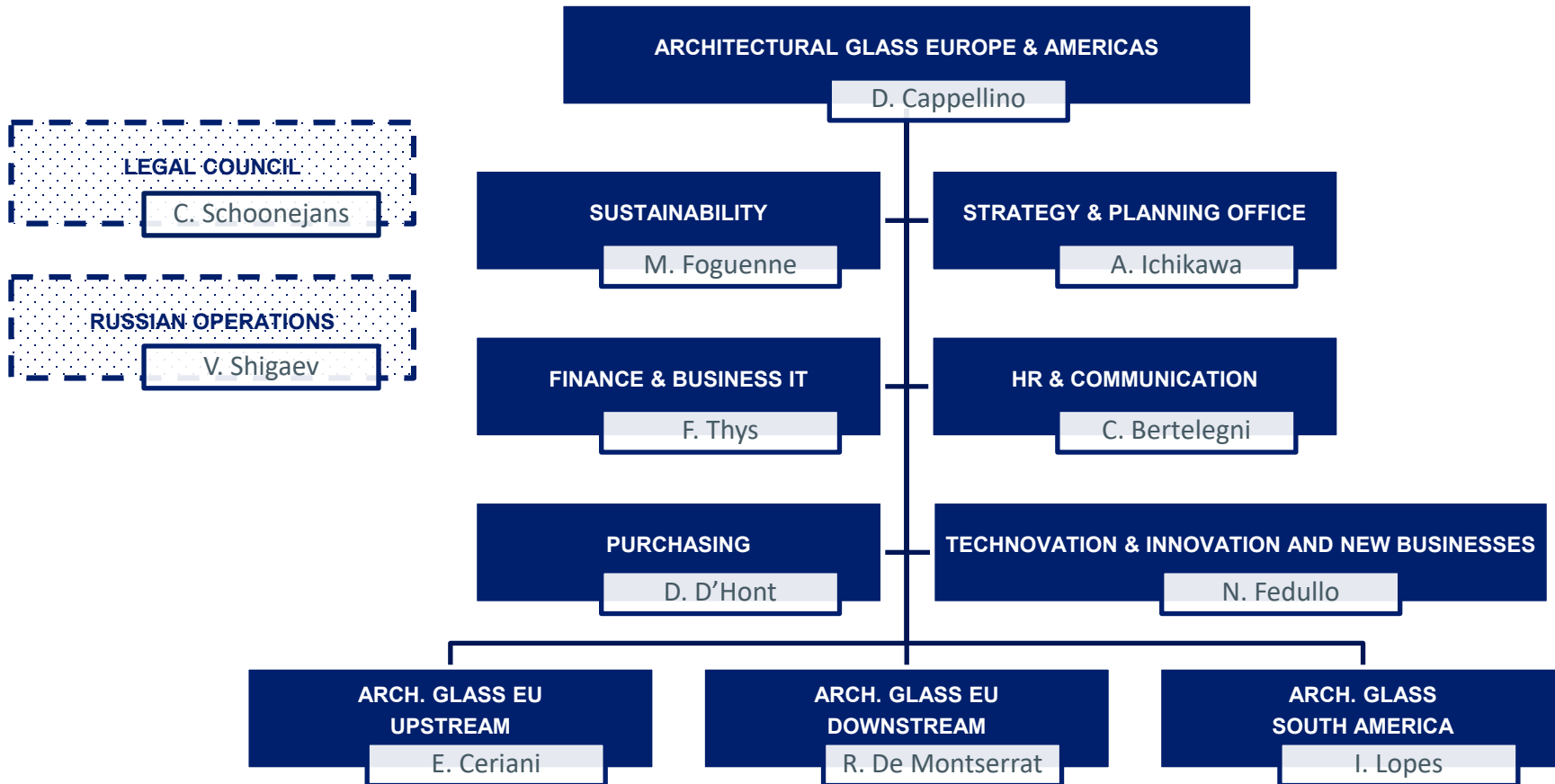
## Europe (incl. North Africa)

- **16** float plants
- **28** primary transformation & patterned glass plants
- **40** processed glass network
- **7** automotive plants
- **11** AVO plants
- ARG network
- **1** R&D Centre
- **15.200** employees

## Asia / Japan

- **10** float plants
- **11** primary transformation & patterned glass plants
- **17** processed glass network
- **7** automotive plants
- **17** AVO plants
- ARG network
- **3** R&D Centre
- **12.900** employees





Glass will play a central role in the world of tomorrow  
And we want to play a leading role in the future of glass

Our ambition is to be the most profitable player in each of our business segments

**BE THE BEST PLAYER IN OUR CORE BUSINESSES**

We will focus resources, innovate, and build the best supply chain to become the most reliable and the most profitable player in each of our markets.

**INTEGRATED VALUE CHAIN APPROACH**

We will continue optimizing our upstream/downstream approach (balance between primary, processing, distribution, new businesses) in every market to maximize profitability and resilience.

**QUICK INNOVATION, WITH A PURPOSE**

We will improve speed and efficiency of innovation on products, business models and processes.  
We will focus innovation efforts where we can be winners.

**LEADER IN SUSTAINABILITY**

We will be the leader in our industry in the transformation of markets and technologies driven by sustainability.

**BUSINESS EXCELLENCE AND WINNING CULTURE**

We will establish a culture of challenge, courage and obsession with continuous improvement.

**2** AGC EUROPE  
AGC Glass Europe

**AGC**

Your Dreams, Our Challenge



Our motto



*We lead the way for a better world*



**AGC**

Your Dreams, Our Challenge

1961	Glaverbel, born from the union of Glaver and Univerbel	2002	Glaverbel joins the <b>AGC worldwide organisation</b>
1981	<b>Asahi Glass Company</b> takes over Glaverbel	2007	One global brand, AGC. Glaverbel becomes <b>AGC Flat Glass Europe</b> and <b>AGC Automotive Glass Europe</b>
1988	Launch of <b>expansion strategy</b> in Western Europe	2009	One company, <b>AGC Glass Europe</b>
1990	First West European industrial company to invest in <b>Czech Republic</b>	2012	Alliance with <b>Interpane</b> (Germany, Austria, and France)
1997	First West European glassmaker to invest in <b>Russia</b>	2015	Acquisition of <b>NordGlass</b> (Poland)
1998	Acquisition of <b>PPG's European Glass business</b> (France and Italy)	2019	Opening of <b>AGC Automotive Induver</b> Morocco's plant

# 1

## Building & Industry



- External glass
- Decorative glass
- Glass for high tech applications

# 2

## Automotive



- Original Equipment Manufacturer (OEM)
- Automotive Replacement Glass (ARG)

**N°1**

In RU, Central Europe, Benelux



15.200  
people\*

**>100**

Over 100 sites from Portugal to Russia



R&D Center and  
Headquarters in Belgium

**~1/4**

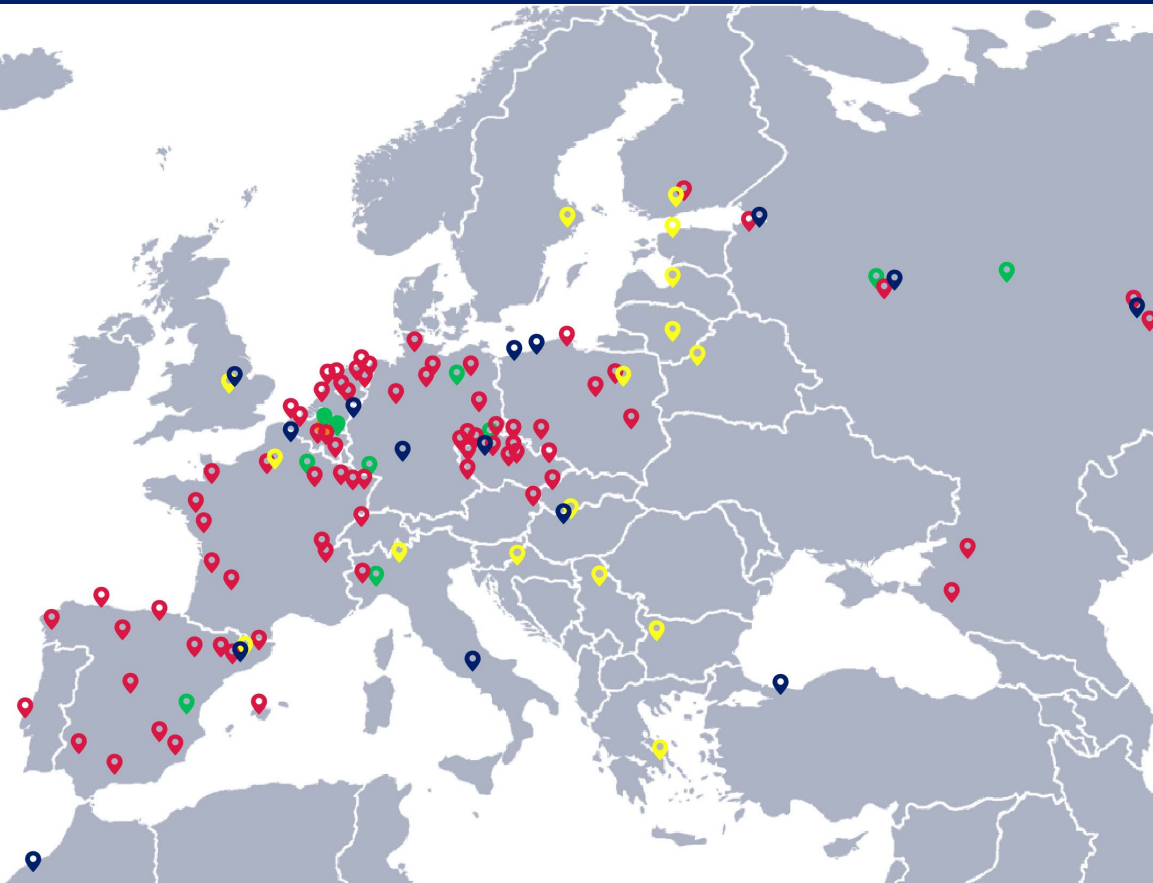
Car & buildings are coated with AGC's glass



Worldwide sales  
network

(\* End 2021)

-  Headquarters and R&D Centre
  -  Float Plants
  -  Processing/ Distribution (Building and Industrial)
  -  Sales agencies (Building)
  -  Production OEM and ARG (Automotive)
- 

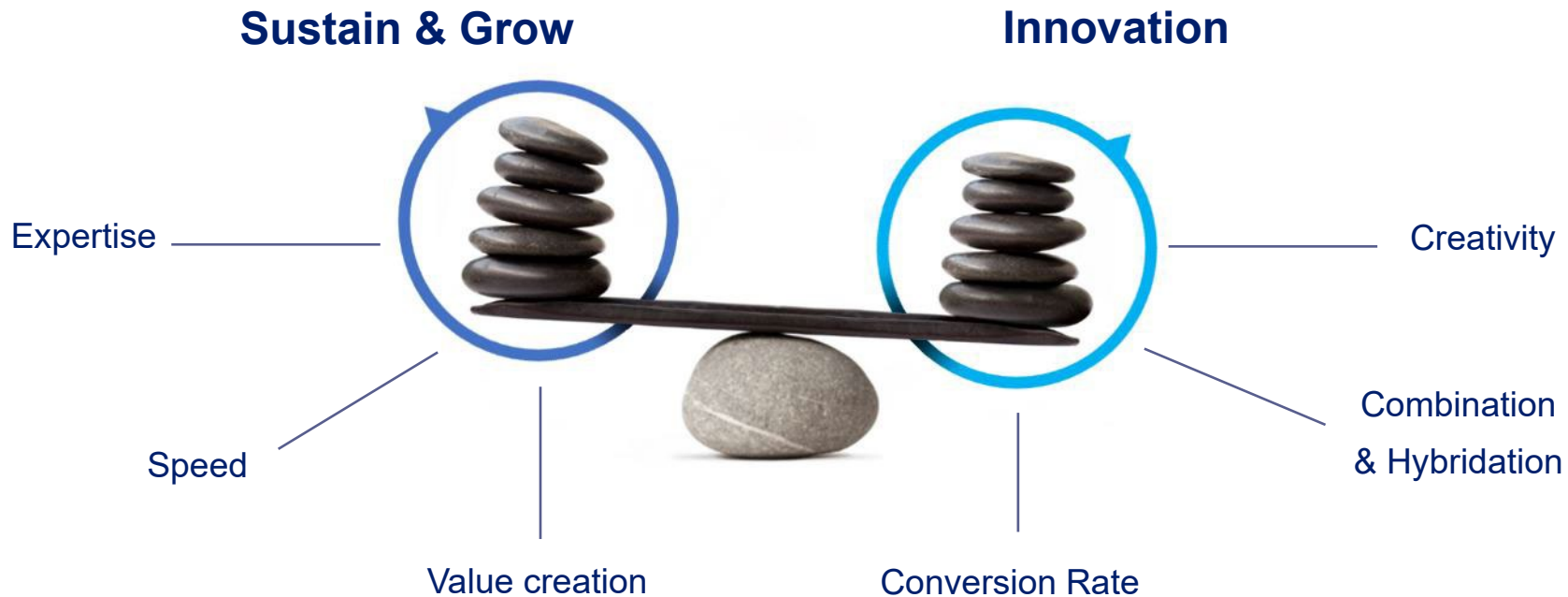


# 3 TECHNOLOGY & INNOVATION

AGC T&I Worldwide



Your Dreams, Our Challenge





<https://www.agc-glass.eu/en/innovation>

The **world** around us is **changing fast**: smarter greener cities, advanced connectivity, and new models of mobility.

By reinventing glass and continuously improving what we can do, AGC makes sure that **glazing is a central part of enabling these technological revolutions**.

Some of these glass advances are already shaping our future way of living, moving and communicating. **Your dreams are our challenge**.



**Ypsilanti, MI**

**Aniche, FR**  
**Development Process**  
**Auto**

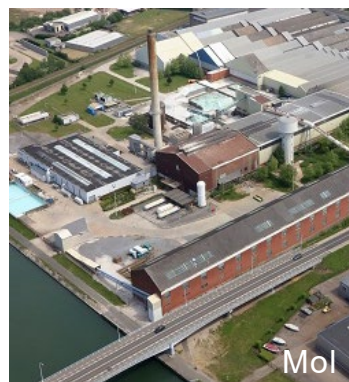
**Gosselies, BE**

**Mol, BE**  
**Development Process**

**Lauenförde, GE**

**Yokohama Technical Centre**  
**(YTC)**





« Heart of AGC's Technological know how in Europe »



Technovation Centre, Gosselies : 285 people

# 3 TECHNOLOGY & INNOVATION

AGC Technovation Centre



Your Dreams, Our Challenge

Our motto

“ *Towards a sustainable future,  
with people as our best assets.* ”

**AGC**

Your Dreams, Our Challenge

## Products development

- Clearsight
- Fineo

## Service

- Coating on Demand

## New Technology

Thin glass processing

## Engineering

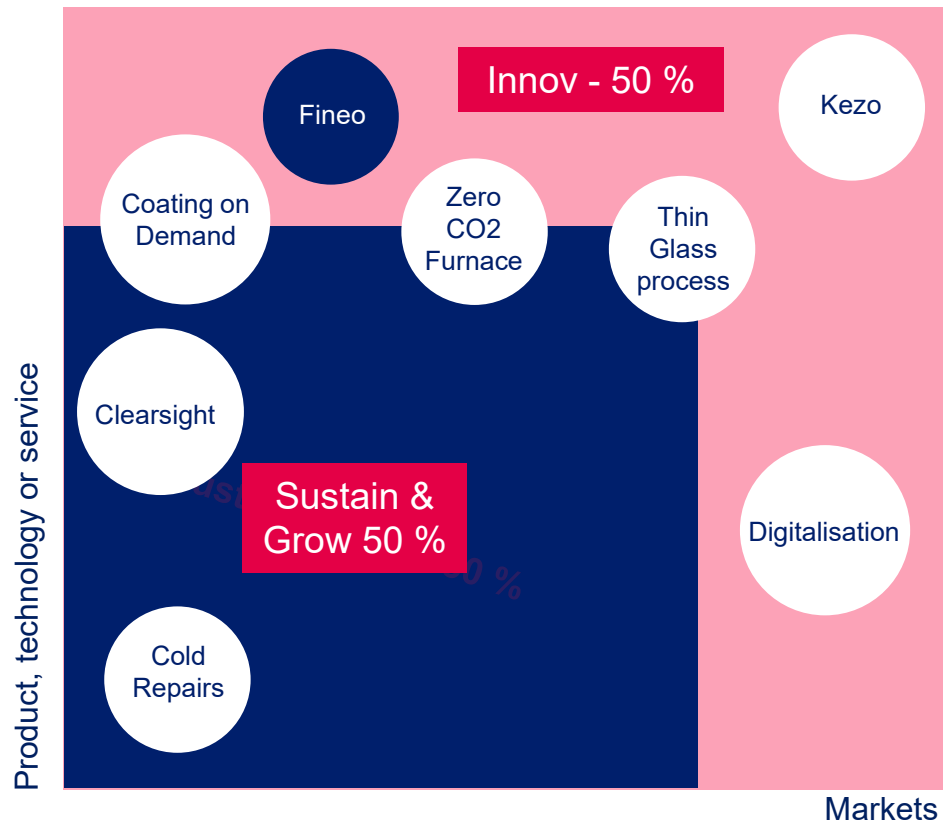
- Cold repair Klin

## Environment

- Zero CO2 Furnace

## NBD

- Kezo
- Digitalisation



To support a **customer portfolio getting larger**

- **OEMs**, through classical sales channels: Daimler, Toyota, BMW, Volvo, Stellantis...
- **Aftermarket**, including end-customers, through our Automotive Replacement Glazing (ARG) Division
- **Tier 1s, insurance, mobility providers**, through our internal startups:



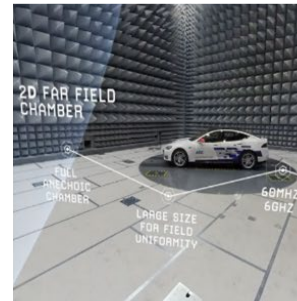
Feeling Glass



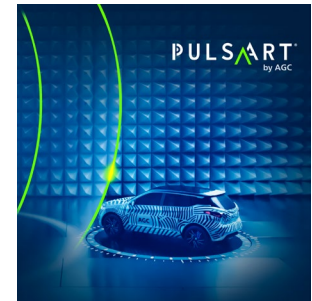
Wide Eye



Jack

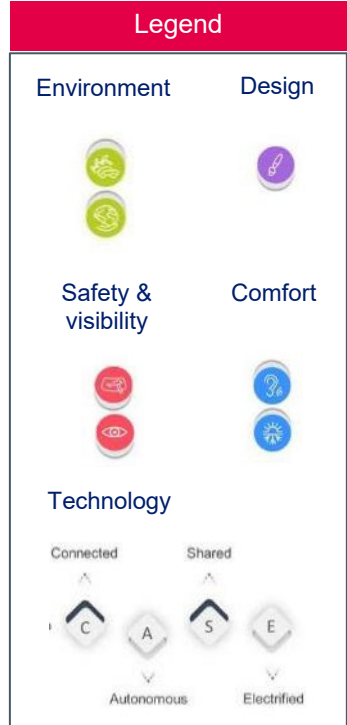
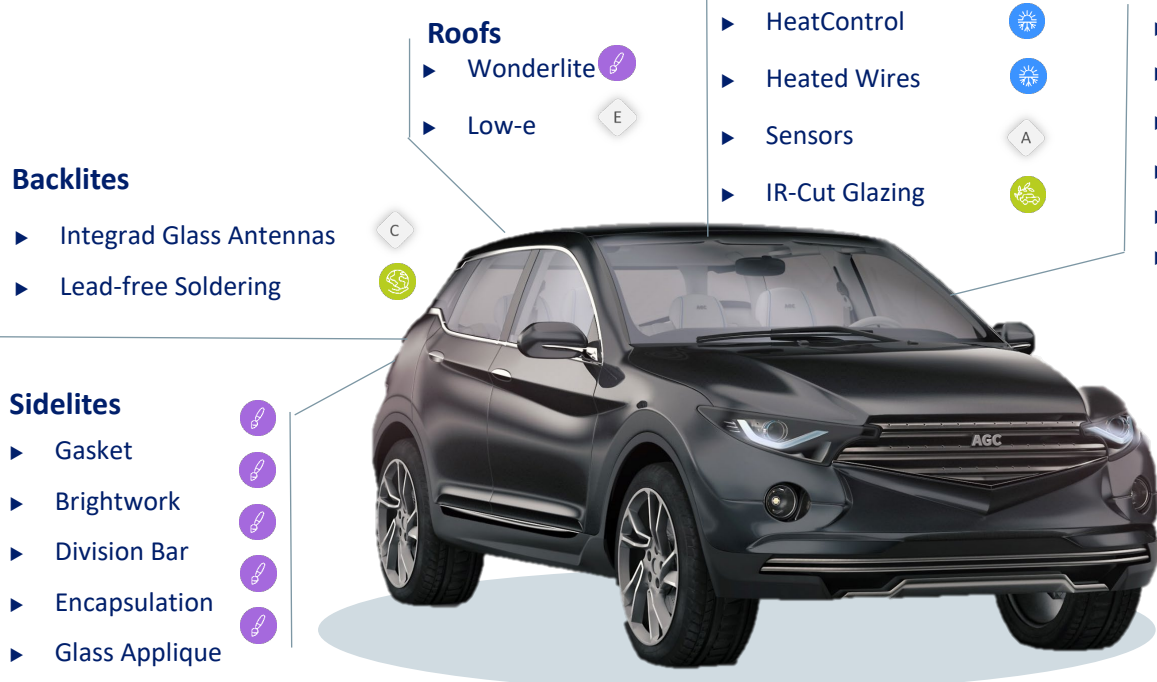


Antenna services



Pulsaart

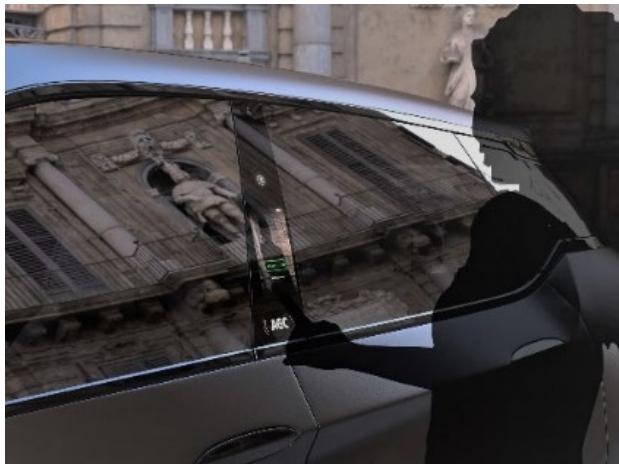
To support **existing product ranges**





And **create products & services of tomorrow**

- Connected services
- Next generation p-polarized HUD (Head Up Display)
- Interactive Applique solutions
- New switchable glass generation



Interactive Applique



Head Up Display



## Intellectual Property

- 43 patents (Patent Stats) per year  
22 Automotive – 21 Architectural Glass
- 271 collaboration & confidentiality agreements



## Visits of the Technovation Centre

- 217 visits for 636 visitors
- 70 visits of the discovery room for 408 visitors



## Human Resources

- 285 people: 194 researchers & 91 technicians
- Increasing set of skills & competences
- 25 Internships – 7 VIE
- 22 nationalities working at ATC
- Diversity : 81% men 19% women
- Entrepreneurship bootcamp

Never take the easy way out, but confront difficulties  
Trust is the best way to inspire people  
Strive to develop technologies that will change the world  
A sense of mission leads us to advance

For more than a century, AGC has been guided by these founding spirits. Our unique materials, solutions and reliable partnerships have facilitated leading innovations across diverse industries and markets.

Today, by working with others to combine knowledge and advanced technology, we help make ever greater achievements possible, and bring bolder ideas to life

# Your Dreams, Our Challenge



**THANK YOU**  
For your visit today !



**AGC**  
Your Dreams, Our Challenge