

# Semiconductor-Related Business Briefing

The logo for AGC, consisting of the letters 'AGC' in a bold, blue, sans-serif font. A small red square is positioned above the letter 'C'.

**AGC Inc.**

June 2, 2026

Your Dreams, Our Challenge



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Semiconductor-Related Businesses:		
Electronics	_____	p. 14
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# AGC Group Technology Development Strategy and Semiconductor-Related Businesses

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The aspiration at the time of founding

Inherited thoughts



Now

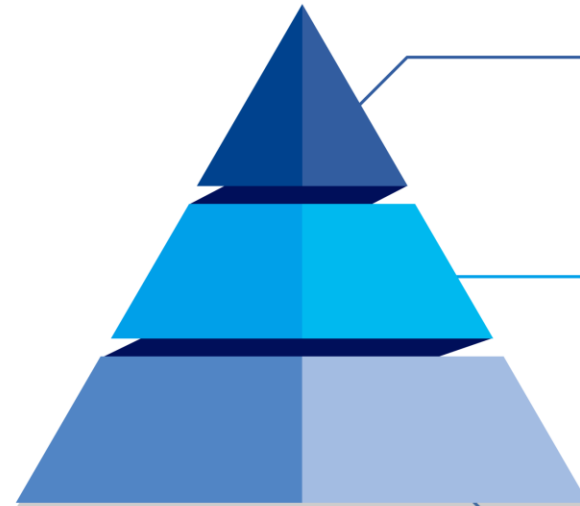
I want to contribute to the development of society through the domestic production of flat glass.



Founder Toshiya Iwasaki

Take on difficult challenges with determination

**“Look Beyond”**



Our Purpose

**“AGC, an everyday essential part of our world”**

We **“Look Beyond”** to make people’s lives better around the world by delivering our unique materials and solutions.

Our Shared Values

- Innovation & Operational Excellence
- Sustainability for a Blue Planet
- One Team with Diversity
- Integrity & Trust

Our Spirit

**“Never take the easy way out, but confront difficulties.”**

# Evolution of AGC Group Products and Services

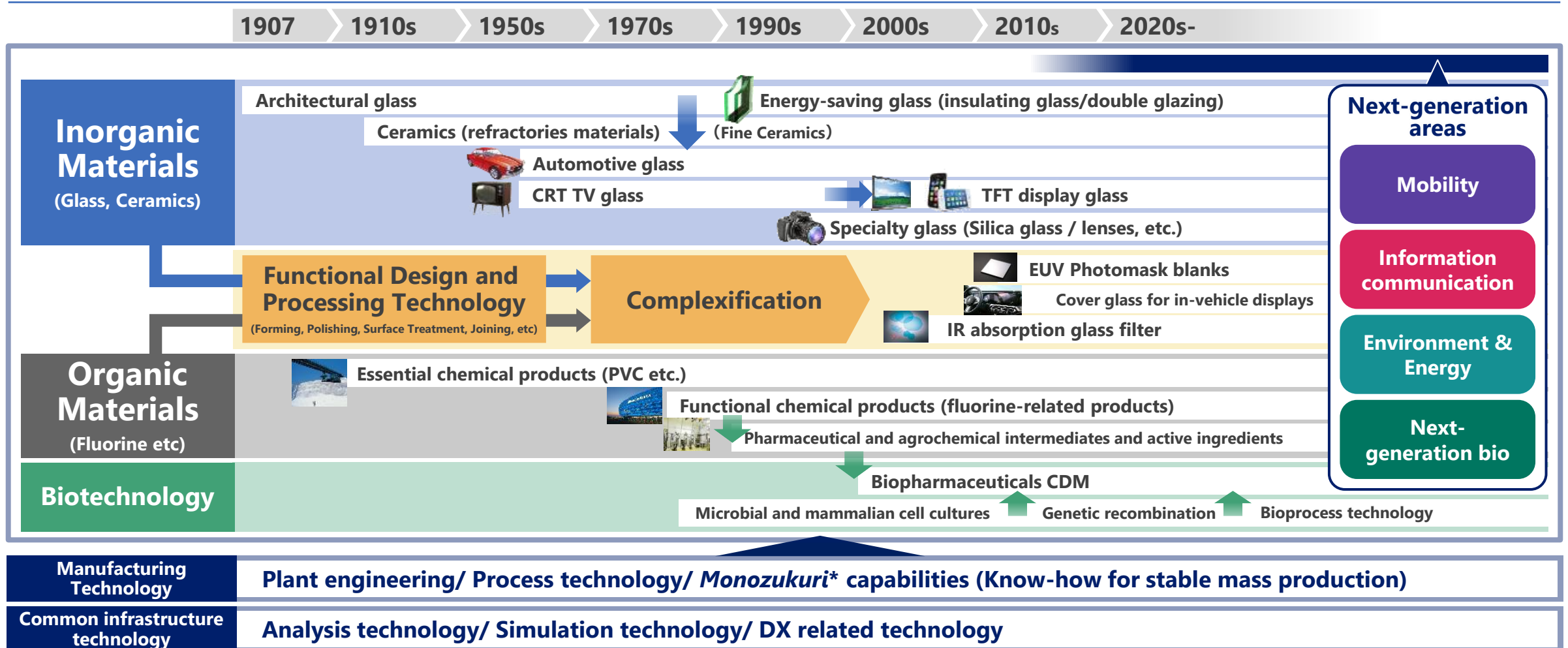
- Embodying the spirit of our foundation, we have continued to provide materials and solutions that meet the needs of each era.



# Unique Materials and Solutions

## AGC's technological strengths

Material technologies with unique advantages (inorganic/organic), design and processing technologies enabling high functionality, black-boxed manufacturing technologies (glass processes, chemical processes, bioprocesses), and common infrastructure technologies.



# Medium to Long-term Initiatives for Value Creation

2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 **2030**

## Corporate transformation Chapter 1

Defined “Core businesses” and “Strategic businesses” and promoted the ambidextrous way of business management

## Corporate transformation Chapter 2

Clarified the direction of the Group’s business portfolio transformation and declared on the acceleration of the initiative

## Vision 2030

**By providing differentiated materials and solutions, AGC strives to help realize a sustainable society and become an excellent company that grows and evolves continuously.**

## Overall Strategy

**Leveraging the core businesses and the strategic businesses as two wheels, we will shift to an optimal business portfolio and continuously create economic and social value.**

### Core Businesses

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



### Strategic Businesses

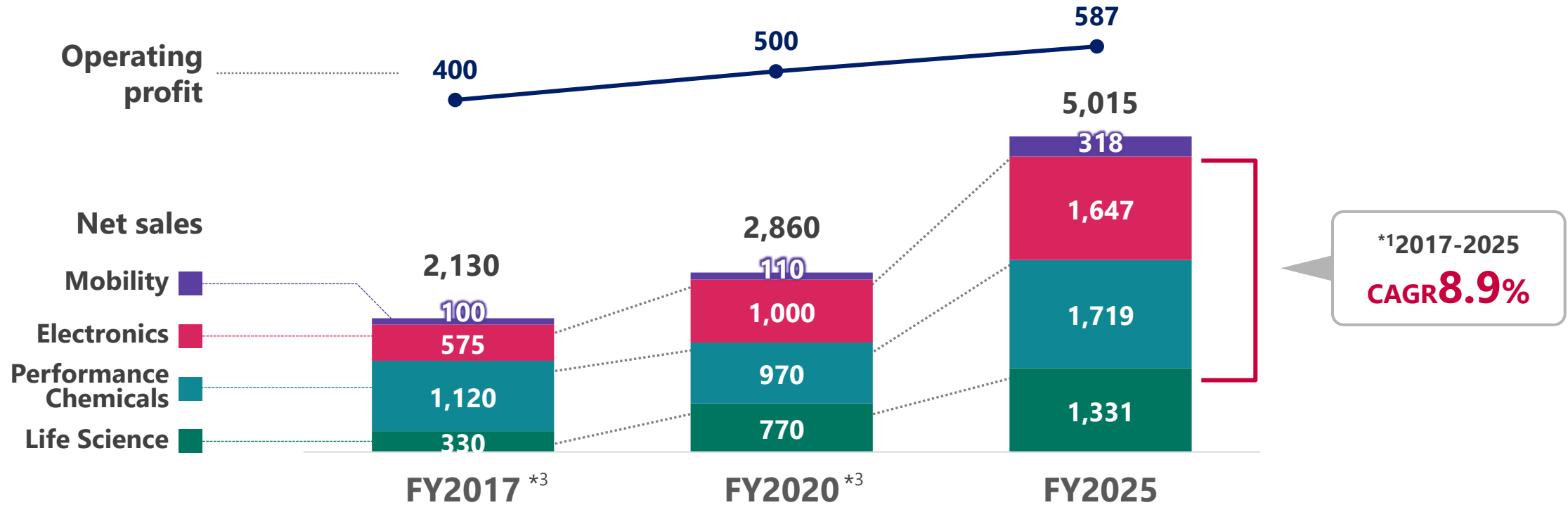
Create and expand highly profitable businesses that will become future pillars by using AGC's strengths in high-growth fields



# Strategic Business Performance Trend

- Net sales from strategic businesses have increased by approx. 2.4 times from 2017.
- The average sales growth rate for Electronics and Performance Chemicals including semiconductor-related businesses was 8.9%\*1.

## Performance trend of strategic businesses\*2 (100 million JPY)

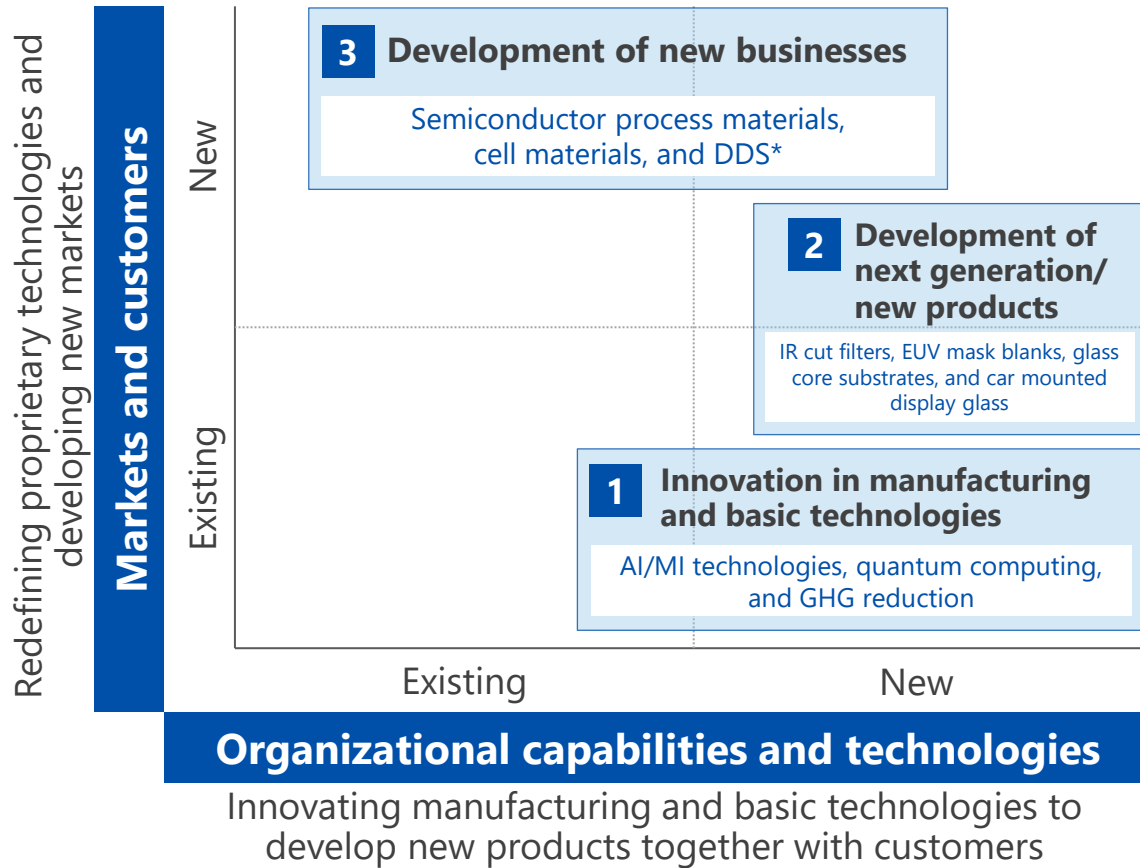


\*2 New definition of strategic business revised in February 2024 \*3 FY2017 and FY2020 sales and operating profit figures are approximate

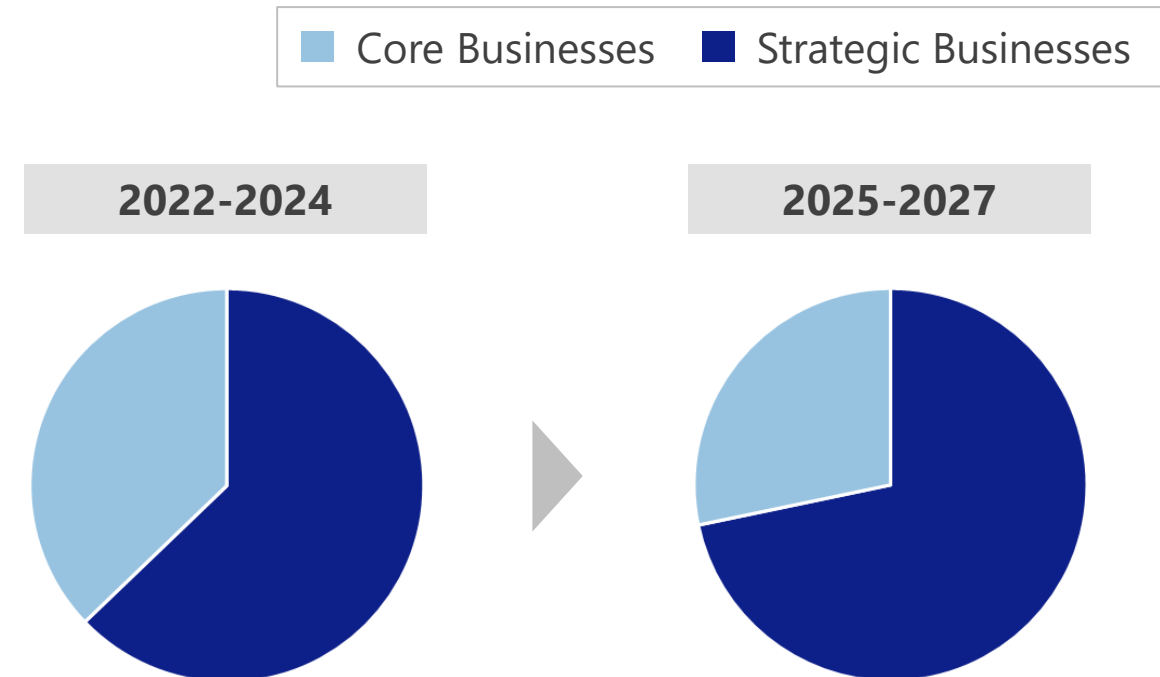
※ As a result of \*2\*3, some figures differ from those previously published

# R&D Investment Direction

- We will accelerate the ongoing portfolio transformation through technology development.
- We will select development areas according to market and technology perspectives, and increase the share of strategic areas in R&D investment.

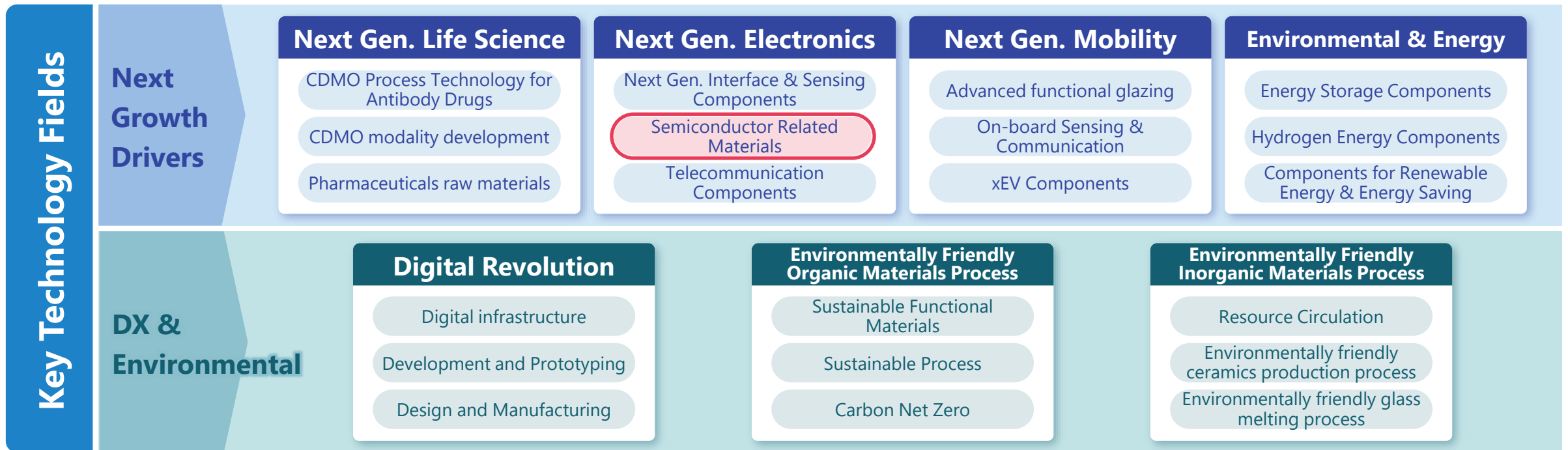
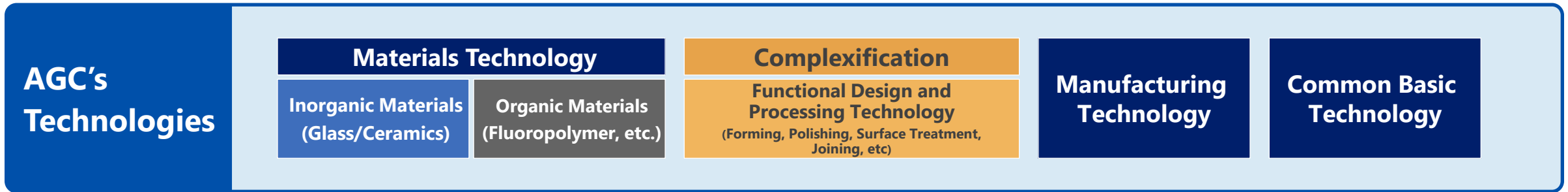


## R&D investment areas

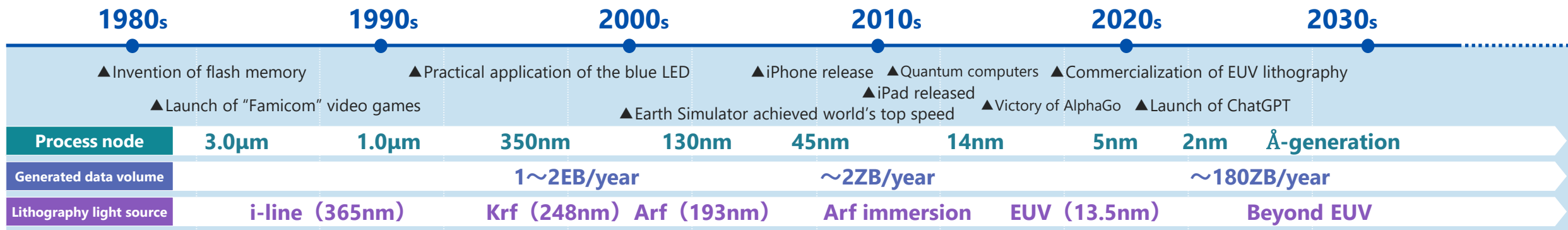


# Seven Key Technology Fields and Focus Areas

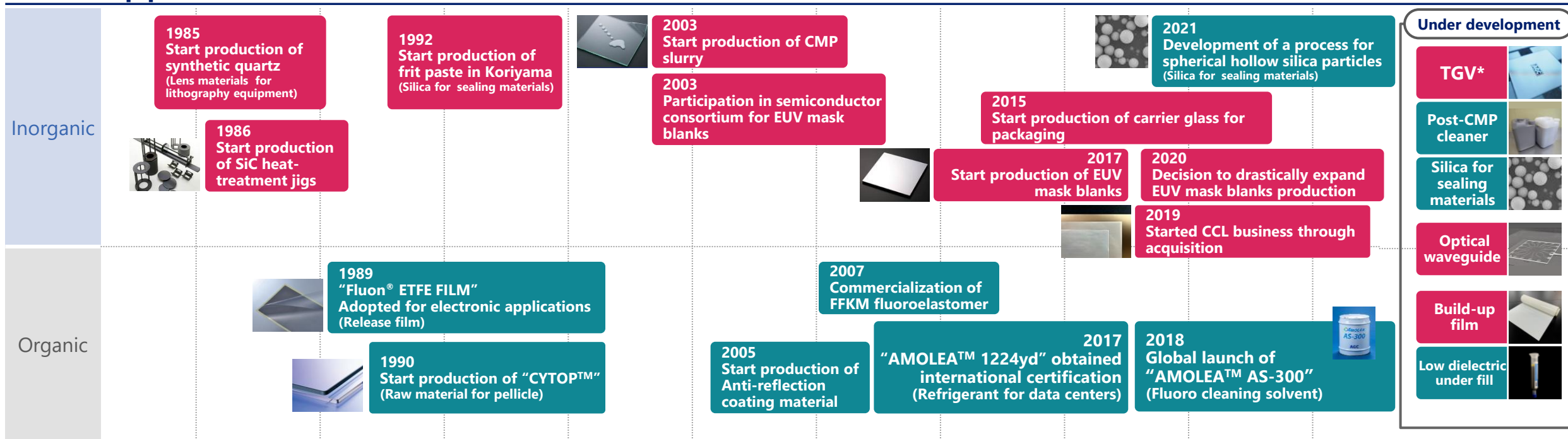
- Resources to be allocated to the selected "Seven Key Technology Fields" and their corresponding "Focus Areas."



# Evolution of Semiconductor-Related Technology Development



## AGC Group products



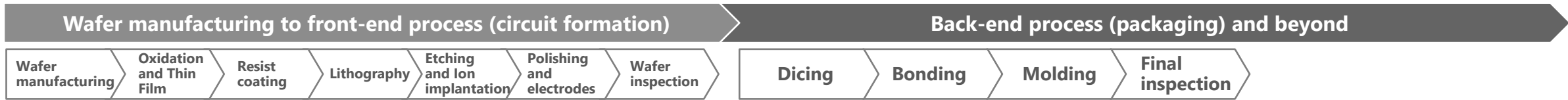
\*TGV: Through Glass Vias

# Product lineup by semiconductor manufacturing process

- We provide diverse products for semiconductor manufacturing, achieving a high market share.
- Going forward, we will also focus on packaging materials, a growth area.

## Semiconductor-related Products

■ Electronics ■ Performance Chemicals



Semiconductor process products

<p><b>EUV mask blanks</b> </p> <p><b>CMP slurry</b> </p>	<p><b>Carrier glass for packaging</b> </p>	<p><b>Packaging Materials</b></p> <table border="0"> <tr> <td><b>TGV*1</b> Under development </td> <td><b>CCL</b> </td> <td><b>Optical waveguide</b> Under development </td> </tr> <tr> <td><b>RCC*2</b> Under development </td> <td><b>Silica for sealing materials</b> </td> <td><b>Build-up film</b> Under development </td> </tr> <tr> <td><b>Low dielectric under fill</b> </td> <td><b>Low dielectric fluoropolymer resin</b> </td> <td></td> </tr> </table>	<b>TGV*1</b> Under development	<b>CCL</b>	<b>Optical waveguide</b> Under development	<b>RCC*2</b> Under development	<b>Silica for sealing materials</b>	<b>Build-up film</b> Under development	<b>Low dielectric under fill</b>	<b>Low dielectric fluoropolymer resin</b>	
<b>TGV*1</b> Under development	<b>CCL</b>		<b>Optical waveguide</b> Under development								
<b>RCC*2</b> Under development	<b>Silica for sealing materials</b>	<b>Build-up film</b> Under development									
<b>Low dielectric under fill</b>	<b>Low dielectric fluoropolymer resin</b>										
<p><b>Raw material for pellicle</b> </p> <p><b>Gas materials for etching and cleaning</b></p> <p><b>Anti-reflection coating material</b></p> <p><b>Thermal medium</b> Under development</p>	<p><b>Post-CMP Cleaner</b> Under development</p> <p><b>Release film</b> </p>										

Semiconductor manufacturing equipment products

<p><b>SiC fixtures</b> </p>	<p><b>Lens materials for lithography equipment</b> </p>	<p><b>Lens materials for lithography equipment</b> </p>
<p><b>Fluoropolymer and fluoroelastomer for semiconductor manufacturing equipment components</b></p> <p>■ Tube ■ Valve ■ Seal Ring ■ Wafer Carrier ■ Fittings and nuts</p>		

\*1 TGV: Through Glass Vias \*2 RCC: Resin Coated Copper

# Semiconductor-Related Businesses : Electronics

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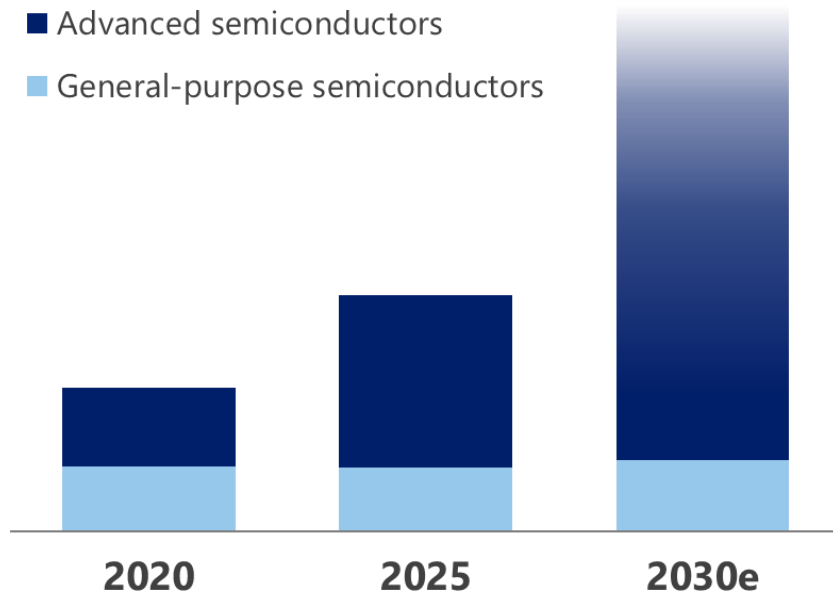
## Providing AGC's unique solutions through the integration of material, processing, and design/evaluation technologies.

		AGC's technologies		
		Materials	Processing	Design and evaluation
Product examples	<b>CMP slurry</b>	<ul style="list-style-type: none"> <li>Inorganic: High-purity glass and ceramics</li> <li>Organic: Fluororesins, polymers, and fluorinated solvent</li> </ul>	<ul style="list-style-type: none"> <li>High-precision grinding, dispersion, and polishing</li> <li>High-precision coating and patterning</li> <li>Laser and molding technologies for miniaturization and high-aspect-ratio structures</li> </ul>	<ul style="list-style-type: none"> <li>Composition design and optical design</li> <li>High-performance inspection equipment</li> <li>Proprietary simulation technologies tailored to customers' manufacturing processes</li> </ul>
	<b>Mask blanks</b>	Inorganic + Organic	Abrasive particle synthesis + dispersion	Composition design + analysis + polishing evaluation
	<b>CPO</b> <small>(related components)</small>	Inorganic (ultra-low thermal-expansion glass materials)	Ultra-flat polishing + thin-film coating	Glass composition design + film structure design + defect inspection
		Organic (polymers) + inorganic (glass)	Photolithography + etching	Optical design + optical property evaluation

# Strategy for Semiconductor Field – Electronics

- Focusing on materials for advanced semiconductors, with plans to expand sales of packaging materials.
- Strengthening partnerships with leading companies, along with proactive technology development and production capability enhancement.

## Sales trend of the Electronics company's semiconductor-related business



Existing front-end semiconductor materials

Materials for semiconductor manufacturing equipment

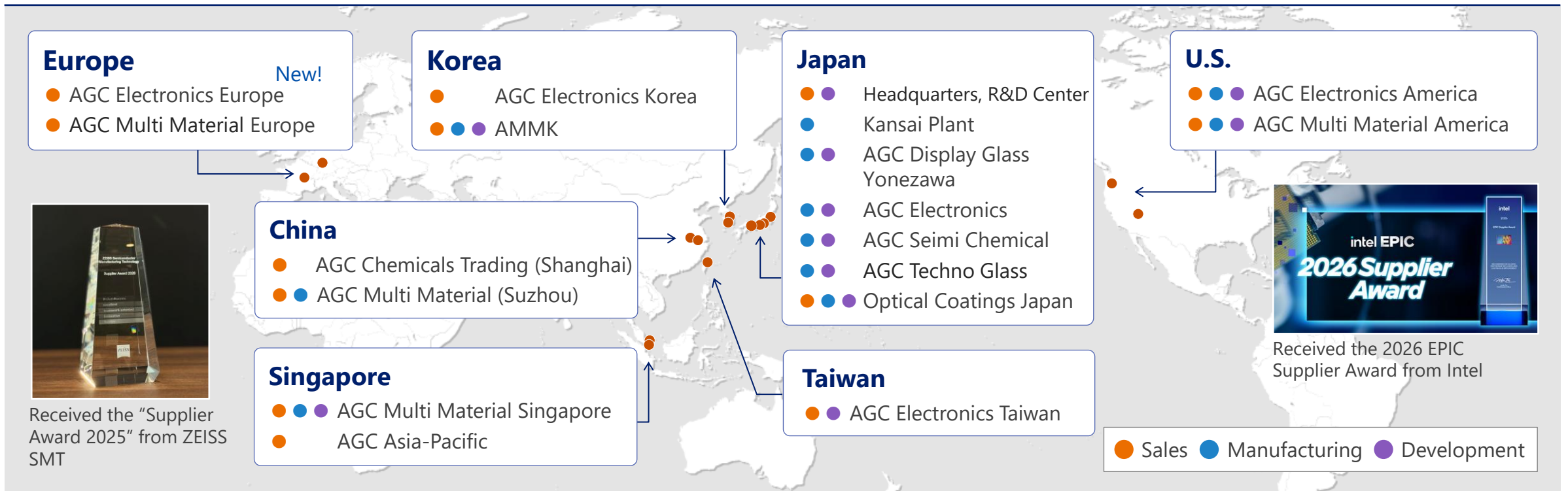
New products for back-end (packaging) processes

- Strengthening partnerships with leading companies
- Focusing on next-generation product development to maintain and increase the share of advanced products
- Proposing composite materials that combine organic and inorganic technologies
- Providing optimized solution proposals that include adjacent layers
- Accelerating development through open innovation

# Semiconductor-related Business – Marketing

**We will continue to strengthen relationships with end users and leading companies, focusing on cutting-edge and next-generation technologies.**

- Maintaining global bases in the U.S., Taiwan, Korea, China, and Europe to directly engage with end users
- Providing timely supply of next-generation products through solution proposals
- Creating synergies in the semiconductor field through collaboration between Electronics Company and Chemicals Company



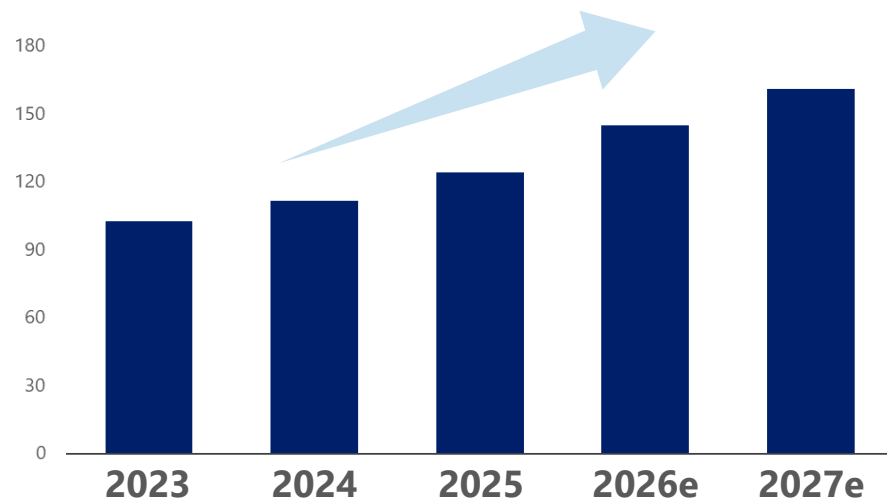
# ① Lens Materials for Lithography Equipment

## Market overview

- The semiconductor market is driven by AI and data centers.
- Major advanced semiconductor manufacturers continue to invest at high levels, and the equipment market is expected to remain solid over the medium-term.

**Semiconductor manufacturing equipment market\***  
( billion USD )

Market growth



## Strength

- Manufactured based on AGC's long-standing expertise and R&D in glass, chemicals, and ceramics.
- Holding the No.1 share in synthetic quartz lens materials for ArF lithography tools, also used in various optical components for semiconductor processes.
- High transmittance from deep UV to infrared, excellent optical homogeneity, and high laser durability.

## Strategy

- Maintaining a high market share by leveraging properties optimized for lithography lenses.
- Driving business growth by capturing expanding demand for semiconductor manufacturing equipment materials.

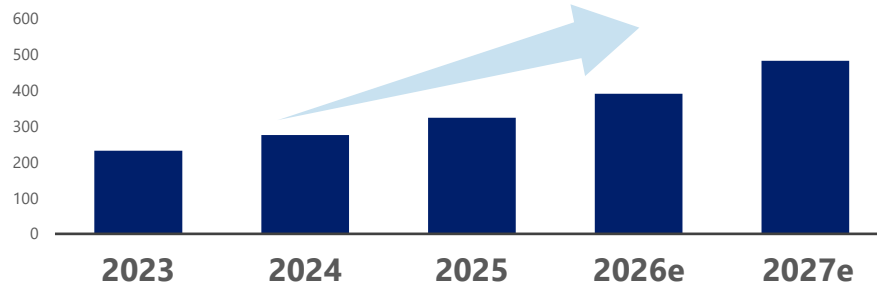


## Market overview

Shipment volume

- The growth in shipments of EUV lithography equipment is accompanied by increased use of EUV mask blanks.

Shipments of EUV lithography equipment \*1 (units)



Technological development

- Developing next-generation products that can improve throughput and resolution of lithography systems for each semiconductor device generation and lithography system model.

Device Generation	Lithography System	Development Status of AGC
Logic 7~2nm DRAM D1Z~D1D	Low NA (NA0.33)	Completed
Logic 1.4~0.7nm DRAM D0X~	High NA (NA0.55)	Under development
Logic <0.7nm	Hyper NA (NA>0.7)	Under development

## Strength

- The sole blanks manufacturer in the world that covers the whole production process from glass materials to polishing and deposition.
- Strengths include flexibility to customer requests, technical proposals and support to customers.
- In-house film structure design capability.

## Strategy

- Continue to invest intensively in line with market growth.
- Armed with strong technological capabilities, we will drive the development of next-generation blanks for leading-edge nodes.



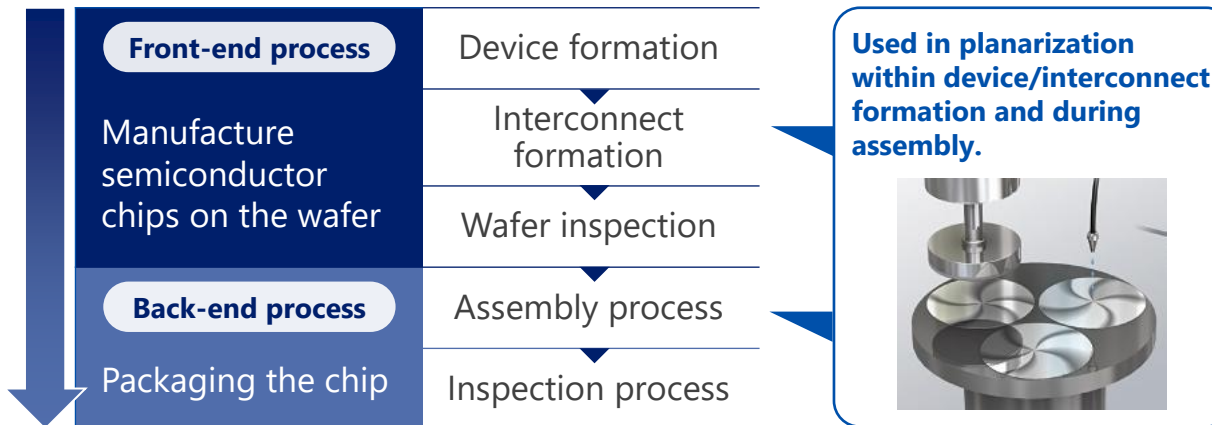
**AGC is one of the market's leading two players worldwide**

\*1 Source: estimated based on ASML materials and data from research companies; cumulative.

## Market overview



## Use cases of CMP slurry in semiconductor manufacturing processes

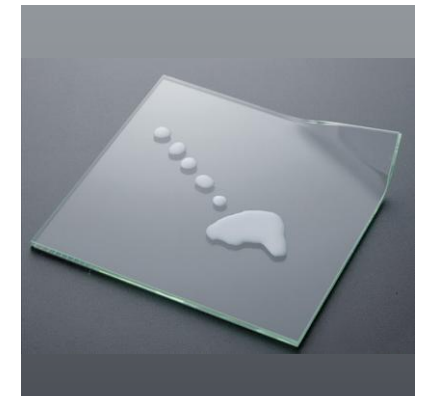


## Strength

- Technological development capabilities that enable integrated production from raw material abrasive powder to slurry.
- Providing high-quality slurry and solutions to meet customers' design rules and processes.
- Flexibly aligning our technology with customers' needs, while ensuring consistent quality stability.

## Strategy

- Maintain leading position in ceria slurry
- Expanding sales to new applications (3D mounting\*2, etc.)

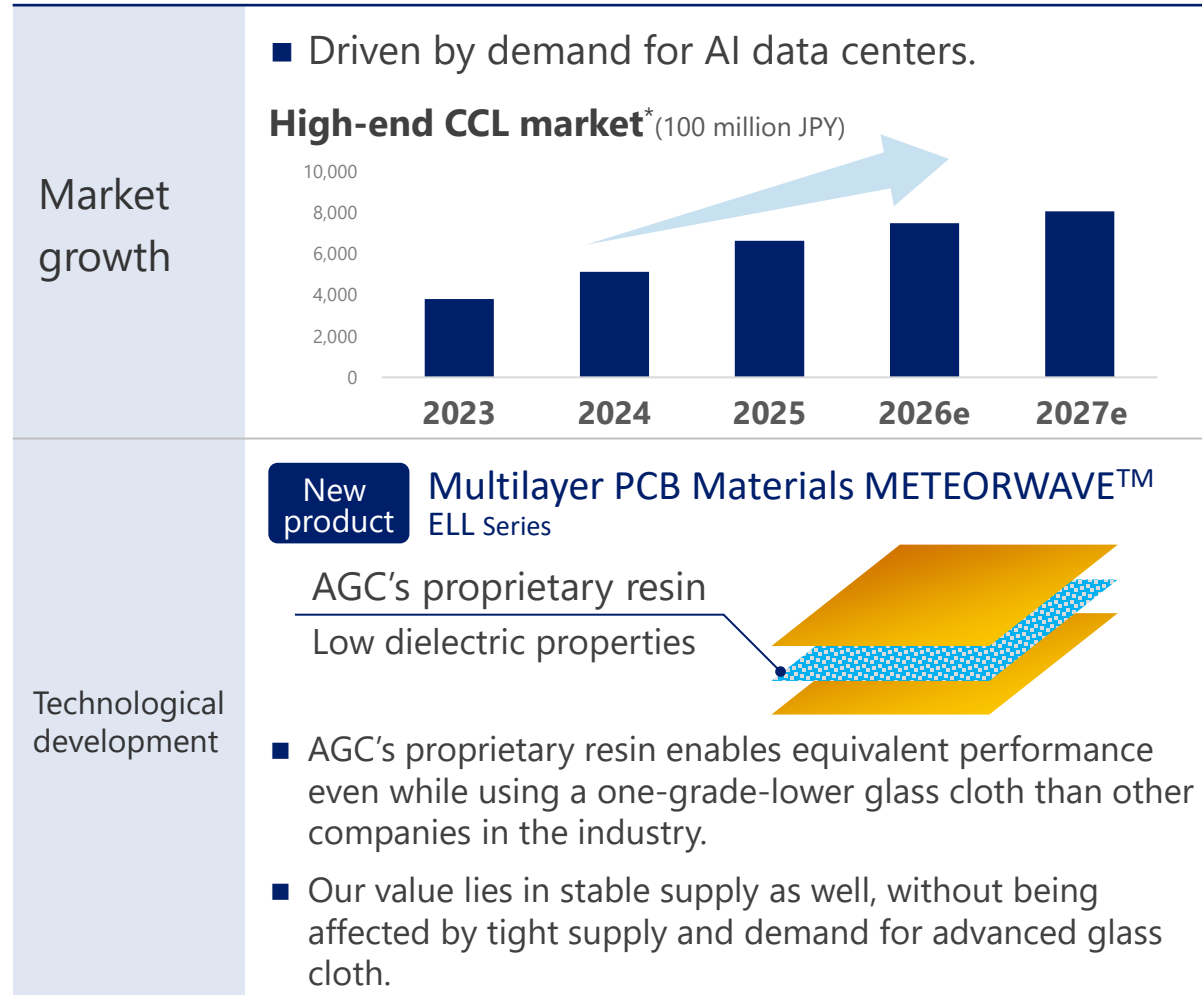


\*1 Estimated by AGC based on data from research company materials.

\*2 A technology that achieves higher integration by vertically stacking semiconductor chips and interconnecting.

# ④ CCL (Copper Clad Laminates)

## Market overview

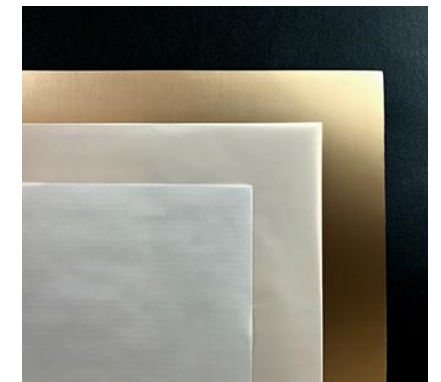


## Strength

- Offers a wide range of products.
- Material development technology centered on low dielectric loss resins, resin coating technology, and electrical property evaluation technology.
- Low dielectric loss enabled by our chemical-related technologies.

## Strategy

- Expanding sales for AI data center applications.
- Expanding into a wide range of businesses, such as high-speed communications, automotive, and aerospace/space applications.

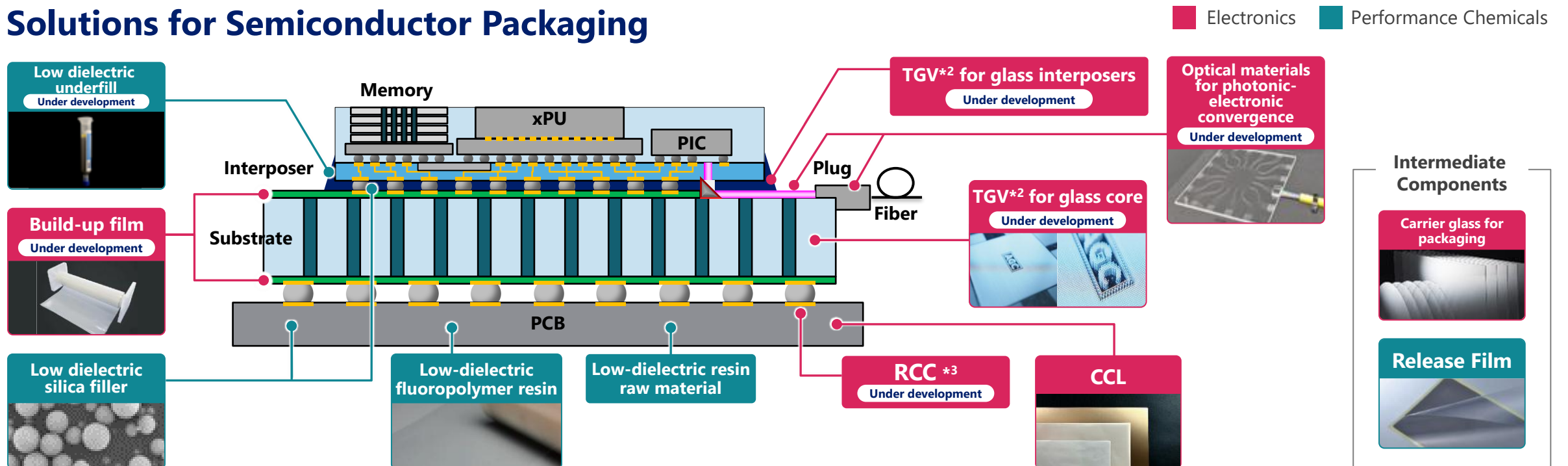


\* AGC estimates based on research company materials.

# Initiatives in Semiconductor Packaging

- Today, differentiation comes from combining front-end miniaturization with back-end processes, including assembly and packaging.
- On top of the materials portfolio focused on conventional front-end processes, we are leveraging the assets held by the Electronics segment and the Chemicals segment to offer wide range proposals covering all layers\*<sup>1</sup>
- This enables us to advance “solution proposals” that materializes an optimized package as a whole, including adjacent layers.

## Solutions for Semiconductor Packaging



\*<sup>1</sup>Top layer (logic/HBM, etc.) , interposer, package substrate, and PCB substrate \*<sup>2</sup>TGV: Through Glass Vias \*<sup>3</sup> RCC: Resin Coated Copper

# Semiconductor-Related Businesses : Performance Chemicals

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- Fluorochemicals exhibit multiple superior characteristics simultaneously, **making them difficult to be replaced with alternative materials—particularly in the highly demanding semiconductor sector.**

## AGC's Performance Chemicals

### Background

- Competitive business foundation utilizing in-house resources (chlorine, hydrofluoric acid, natural gas etc.) developed through an integrated production system which started from brine electrolysis,
- Fluorochemicals business expanded with growing demand for high-performance materials by industrial advancement after 1960s,

### Strength

① Fluorochemical synthesis technology	Robust development and mass-production capabilities built on advanced synthesis technologies for fluorochemicals, which are inherently difficult to handle.
② Supply chain	A strong and cost-competitive supply chain that begins with brine electrolysis and extends through in-house production of hydrofluoric acid and *TFE, ultimately leading to a wide range of fluorochemicals.
③ Resource procurement & recycling	Recovering fluorine that was previously discarded and re-utilizing it as "Circular Fluorspar™", aiming to achieve both stable procurement and enhanced sustainability.
④ Group synergies	<b>Leveraging synergies within the group—including the Electronics segment</b> , a core supplier to semi manufacturers—proposals spanning materials, components, and processes.

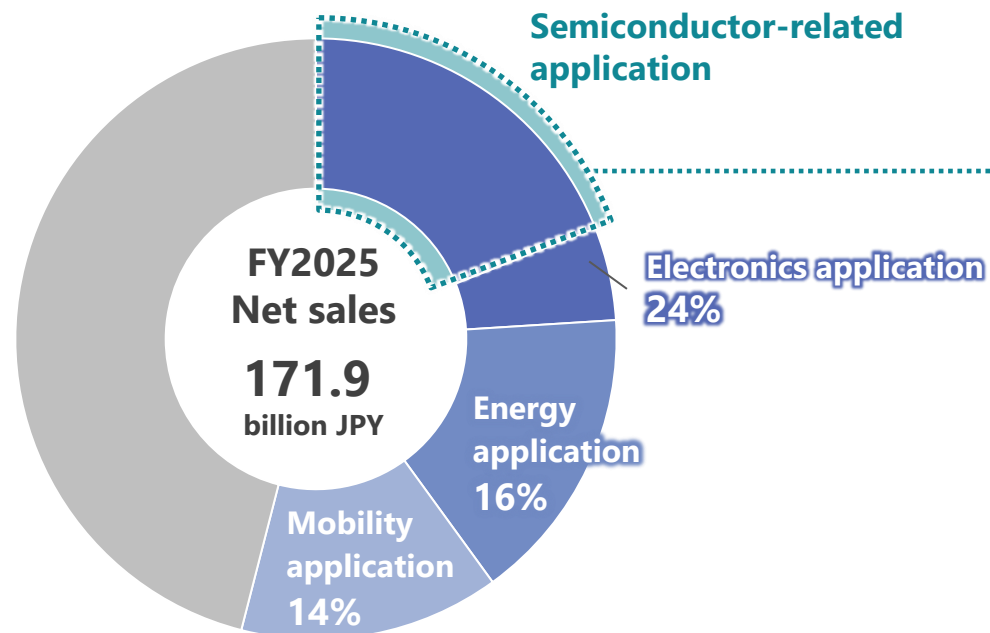
## Use cases and required performance of fluorochemical products in the semiconductor field

	Heat/Cold Resistance	Chemical resistance	Weatherability / Durability	Water and oil repellency	Mechanical characteristics	Electrical characteristics	Optical characteristics
Fluoro polymer/elastomer for semi manufacturing equipment	●	●	●				
Release films	●		●	●	●		
Pellicle raw materials	●	●	●	●		●	●
Heat-transfer fluids	●	●					
Packaging materials	●			●		●	

\*TFE: tetrafluoroethylene

- Capture growing demand for semi-related materials by leveraging differentiated fluorochemical synthesis technologies, advanced development and mass-production capabilities and strong cost competitiveness developed through its robust supply chain.
- Accelerate development of semi process materials that meet customer needs by utilizing strong customer relationships and synergies with the Electronics segment and other AGC Group units.

**Sales composition of Performance Chemicals\*1 for semiconductor-related applications (Image)**



## Existing areas where fluoropolymers and fluoroelastomers have traditionally been used

**A Semiconductor manufacturing equipment products**

Meet expanding demand by leveraging differentiated technologies (heat resistance and chemical resistance), and newly added production capacity\*2.

### <Key features of AGC’s fluoropolymers and fluoroelastomers>

- Timely development and supply meeting market needs such as heat resistance and plasma resistance.
- Stable supply of high-purity materials with low metal and low particle contamination through continuous improvement of clean manufacturing environments.
- Partial use of “Circular Fluorspar™”\*3 to effectively utilize fluorine, a scarce resource.

## Future business expansion areas

**B Semiconductor process products**

Building on established customer relationships, expand into semiconductor process materials and accelerate deployment into high-speed communication material markets.

\*1Performance Chemicals as a Strategic Business

\*2AGC to Expand Production Capacity for Fluorochemical Products

\*3Aiming to Realize a “Circular Fluorine Society”

# ① Fluoropolymer and Fluoroelastomer Components for Semiconductor Manufacturing Equipment (AFLAS™ FFKM) 1/2

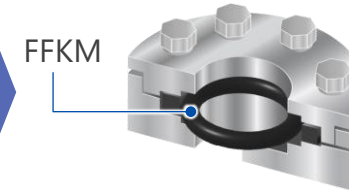


## Market overview

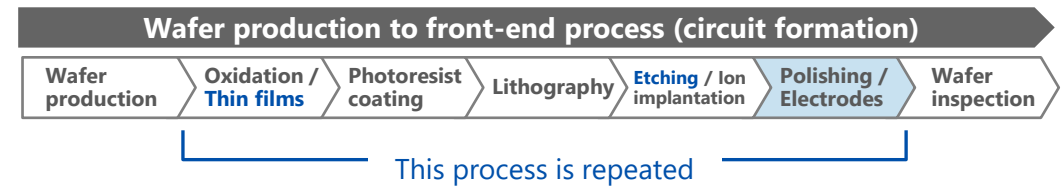
What is FFKM	<ul style="list-style-type: none"> <li>Common name for perfluoroelastomers</li> <li><b>A high performance fluoroelastomer</b> with a fully fluorinated structure in which all hydrogen atoms are replaced by fluorine.</li> </ul>
Applications	Used as sealing materials inside semiconductor manufacturing equipment.
Required characteristics	<ul style="list-style-type: none"> <li><b>Resistant to a wide range of chemicals</b>, including acids, bases, solvents, and oxidizers.</li> <li><b>Maintains long term elasticity and sealing performance under high temperature conditions.</b></li> </ul>
Market growth	<ul style="list-style-type: none"> <li>Demand for FFKM continues to grow each year in line with increasing semiconductor demand.</li> <li>Although demand fluctuates with equipment utilization rates, stable replacement demand is expected. (In etching processes, the harsh plasma environment requires replacement once every quarter.)</li> </ul>

## FFKM application areas

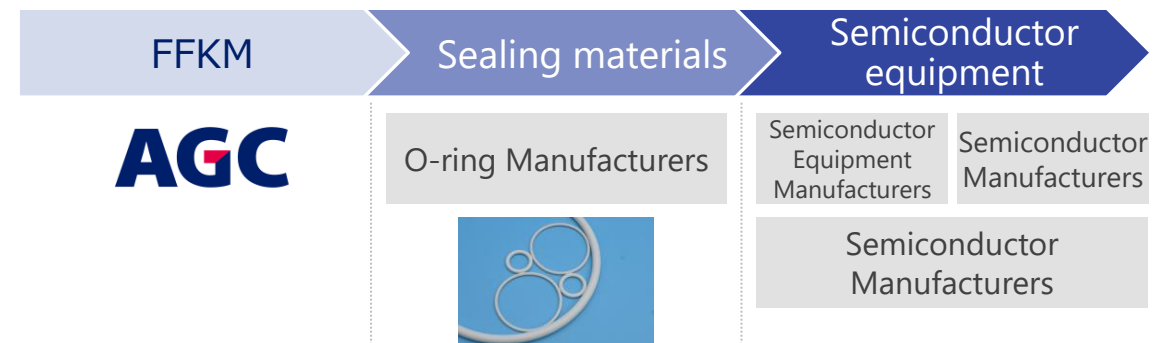
Cross-sectional Image of a CVD Chamber (Partial)



Used to seal substrates in deposition (CVD) and etching processes



## Supply chain



# ① Fluoropolymer and Fluoroelastomer Components for Semiconductor Manufacturing Equipment (AFLAS™ FFKM) ) 2/2



## Strength

- **Industry leading heat and plasma resistance**, enabling stable performance even under extremely harsh plasma environments
- **Commercialized PO-based\*1 FFKM with excellent chemical resistance ahead of competitors, without using emulsifiers or fluorinated polymerization solvents.**

## Future initiatives

### 1 Response to technology trends

- As semiconductor miniaturization advances, manufacturing processes are becoming increasingly severe.
- Even higher chemical, heat and plasma resistance are required for FFKM sealing materials.

**FFKM applications** Used in semiconductor manufacturing equipment, industrial plants, food processing, and the oil & gas industry.

### AGC's FFKM lineup

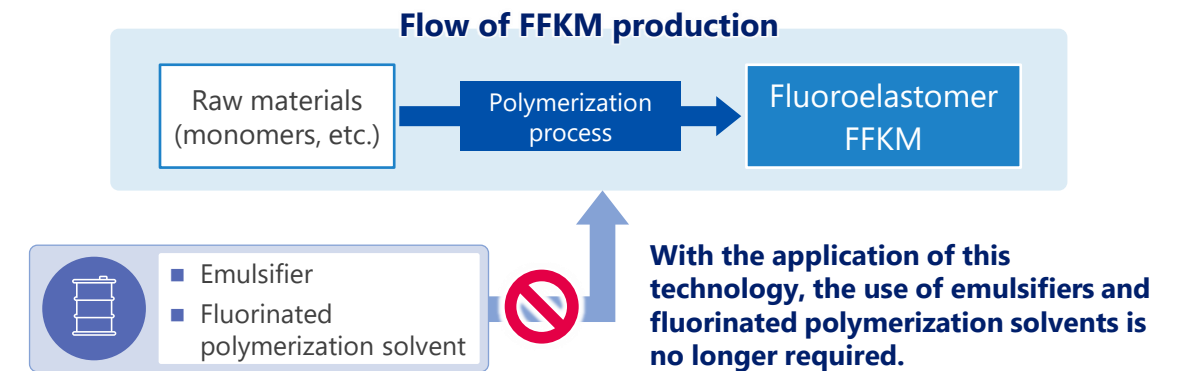
PO-based\*1 FFKM

		High-Temperature Grade				
		~200°C	200°C	250°C	300°C	300°C~
Performance	Standard grade	Future development areas	PM-1100	PM-3000	PM-5000 PM-5500	Future development areas
	Plasma-resistant grade			CP-4010 PM-3500	CP-7000	
	Low-melting grade(excellent processability)		PM-1200			

### 2 Response to emerging market needs

- Recovering discarded fluorine and recycling it as "Circular Fluorspar™\*2". Achieving **industry-leading recycling levels** to strengthen differentiation.
- Developing FFKM without the use of emulsifiers or fluorinated polymerization solvents.

### Innovative polymer manufacturing technology (Surfactant Free & Fluoro Solvent Free)



\*1Po-based materials: Processing method that uses organic peroxides to crosslink rubber molecules. Features include heat resistance below 300°C and excellent chemical resistance within that temperature range.

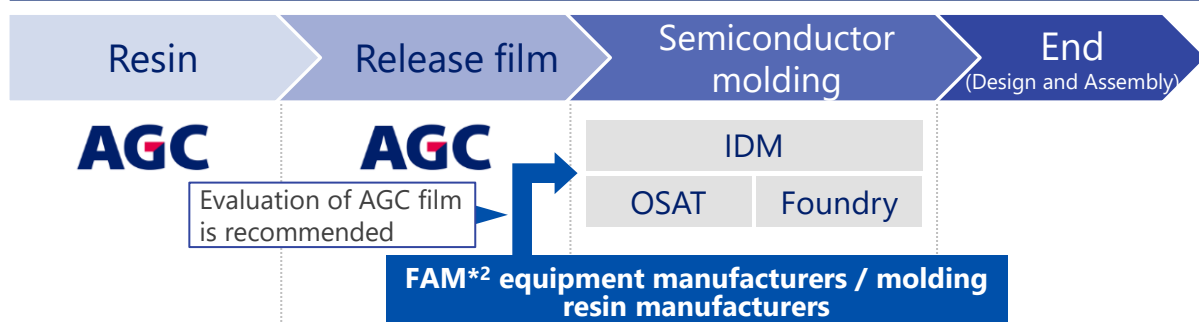
\*2Derived from recycled fluorspar <https://www.agc-chemicals.com/jp/en/company/vision/innovationstory/vol02/index.html>

# ② ETFE-based Release Film (Fluon™ ETFE FILM) 1/2

## Market overview

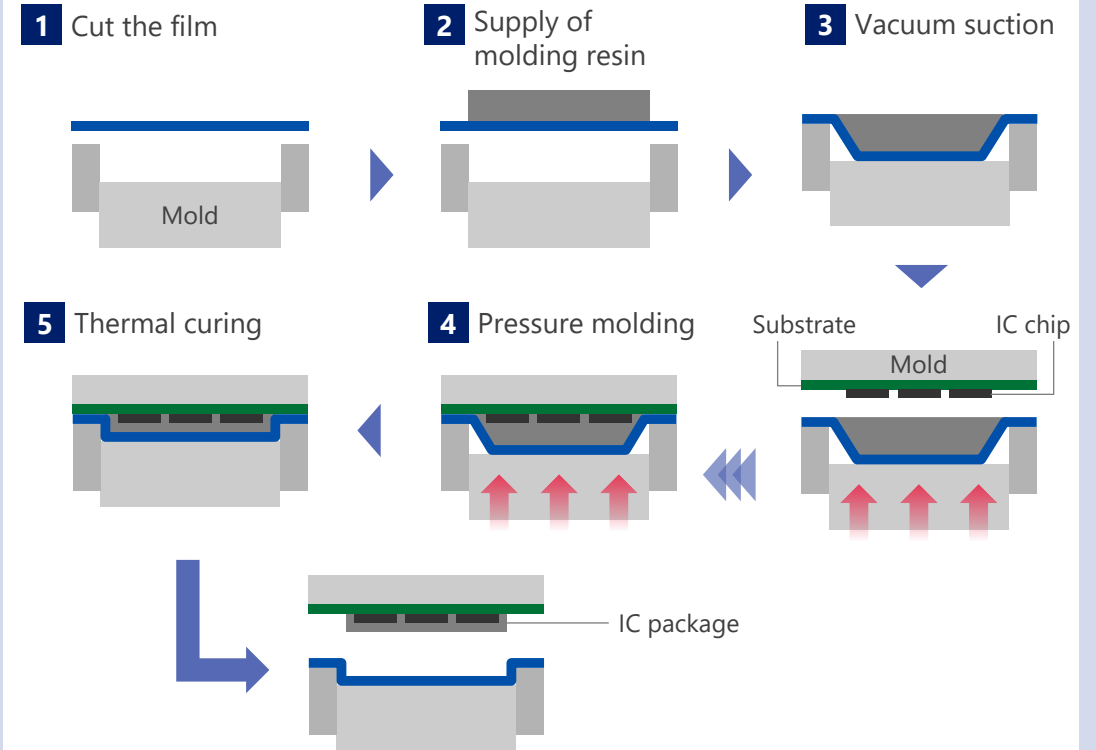
Applications	Release film used in the semiconductor back-end molding process (consumable)
Required characteristics	Release properties / Mold-following capability Heat resistance / Purity Cushioning properties
Market	<ul style="list-style-type: none"> <li>■ <b>AGC share: No.1 in the world</b>*1</li> <li>■ Correlates with semiconductor production volume. Expected to increase in quantity in line with market growth</li> <li>■ Also used in HBM</li> </ul>

## Supply chain



## Illustration of how release films are use

### Compression molding process



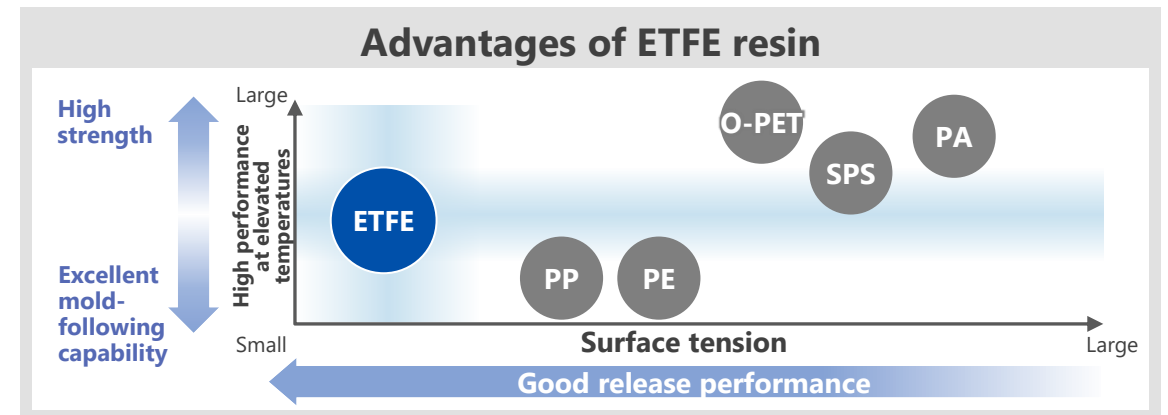
\*1Based on sales / estimates by AGC \*2FAM: Film Assisted Molding A high-precision molding method in semiconductor packaging that uses film during resin molding.

## ② ETFE-based Release Film (Fluon™ ETFE FILM) 2/2

- By integrating proprietary resin design and molding technologies, **we maintain the world's No.1 share in semiconductor release films.**
- We will expand into next-generation molding processes that accommodate increasing package sizes.

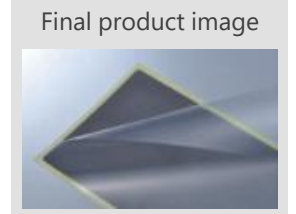
### Strength

- **Achieving strength, mold-following capability, and release performance simultaneously—properties difficult to balance with other materials—establishing the industry's de facto standard.**
  - ➔ Customizable solutions are available.
- The world's No.1 ETFE resin supplier and **the only company capable of integrated development and production—from raw resin to film—for semiconductor applications.**
- Strong relationships with equipment manufacturers and semiconductor manufacturers.
  - ➔ As molding processes is highly stringent in changes, switching suppliers is extremely difficult, enabling us to maintain a high market share.



### Future initiatives

- Maintaining high share in the existing (general-purpose semiconductor) market
- Strengthening development for cutting-edge packages such as HBM
- Development and expansion of AGC's proprietary antistatic film lineup.
- ➔ Adoption in advanced applications requiring electrostatic discharge protection

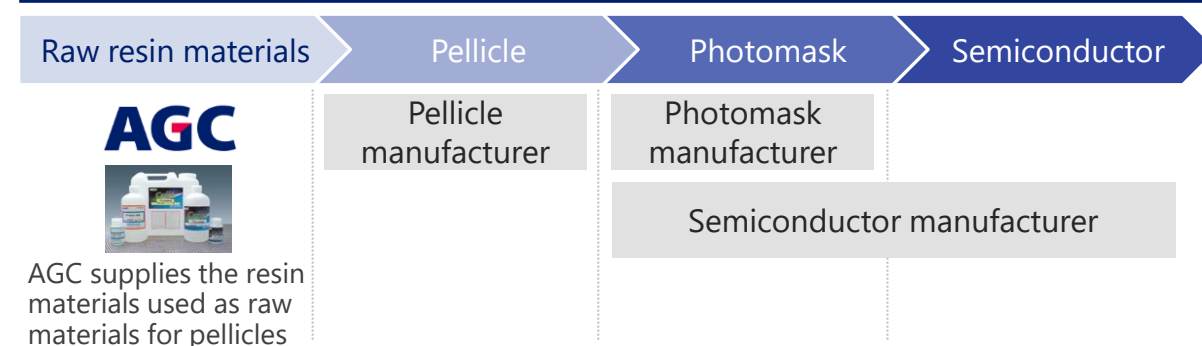


# ③ Pellicle Raw Material (CYTOP™) 1/2

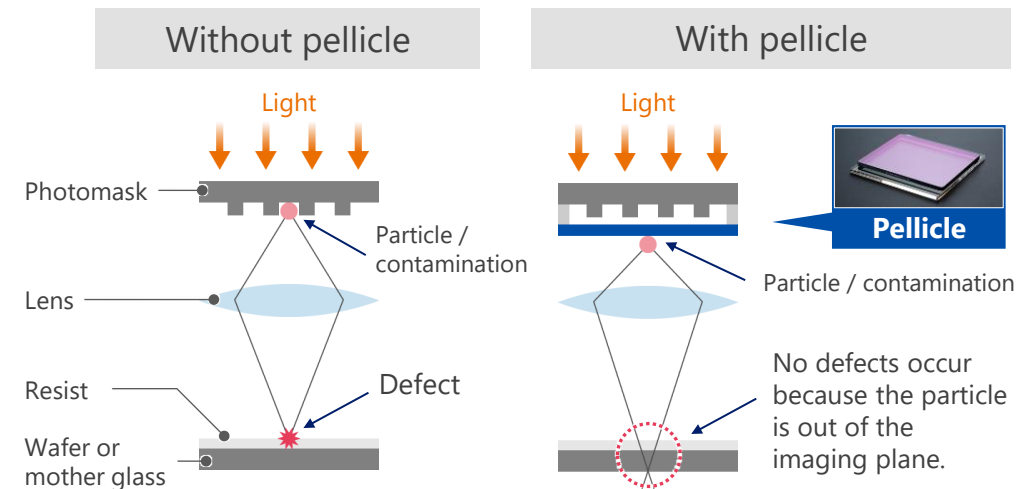
## Market overview

Applications	<ul style="list-style-type: none"> <li>Protective film used as a cover for photomasks</li> <li>Prevents foreign particles from adhering to the photomask and being transferred onto the silicon wafer during the lithography process in semiconductor manufacturing.</li> </ul>
Required characteristics	UV durability and high UV transmittance
Market growth	<ul style="list-style-type: none"> <li>The pellicle market grows in line with the expansion of semiconductor manufacturing equipment and increasing demand for photomasks.</li> <li>Even in mature semiconductor manufacturing field*, the market continues to grow steadily, supported by the long-term operation of major logic and memory semiconductor production lines.</li> </ul>

## Supply chain



## Illustration of pellicle operation



Particles attached to the mask are transferred onto the wafer through the lithography process, causing pattern defects.

Particles on the surface of the pellicle are not transferred onto the wafer through the lithography process, allowing pattern defects to be avoided.

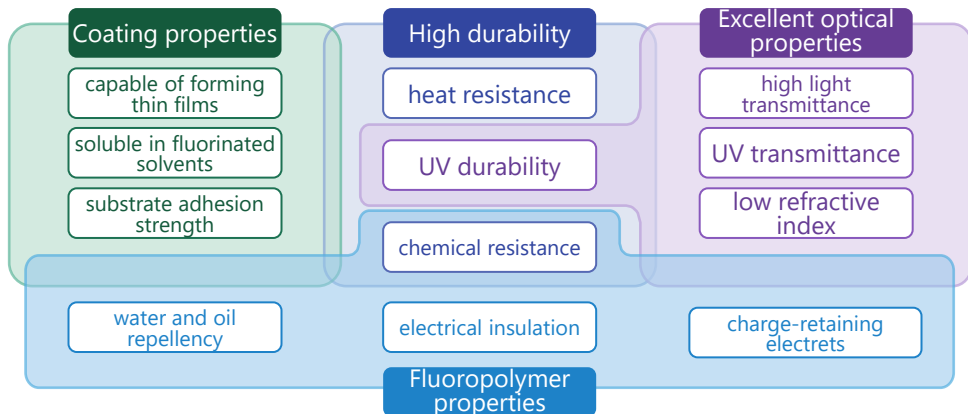
\*Semiconductors manufactured with established production technologies and used in fields with long-term stable demand, such as consumer electronics, industrial equipment, and automotive applications

# ③ Pellicle Raw Material (CYTOP™) 2/2

- CYTOP™ is used in a wide range of fields, such as electronics, information and communications, and life sciences.
- Leveraging its high durability and excellent optical properties, **we have established a position with virtually no substitutes for major ArF/KrF pellicle raw materials.**

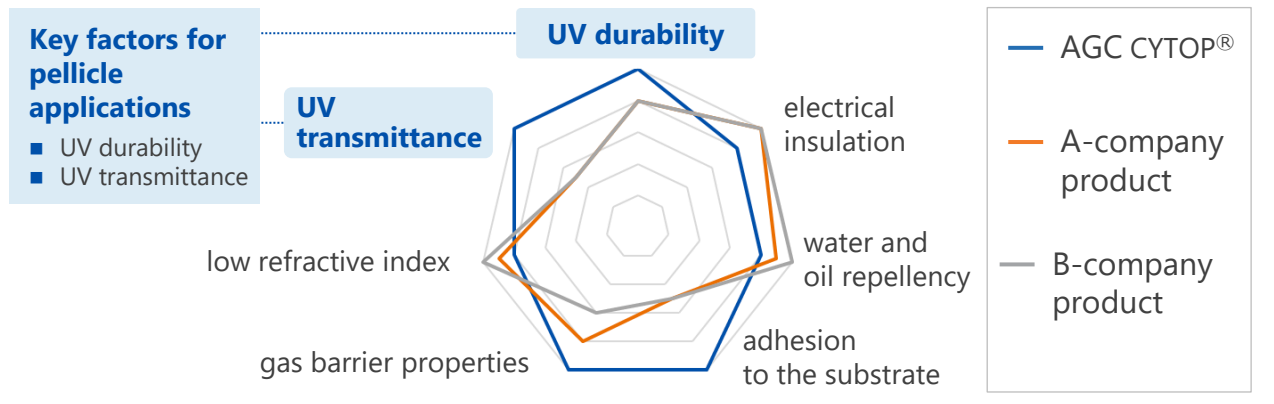
## Strength

- Capable for thin-film coating as it is solution-based.
- The amorphous structure provides high transparency.
- Delivers different properties simultaneously, such as “electrical insulation”, “water and oil repellency”, “UV transmittance”, and “chemical resistance”.



## Differences from fluoropolymer competitor products (image)

- Advanced pellicle raw material, featuring excellent thin-film formation technology and outstanding weatherability and reliability.
- Not easy to be substituted with competing products due to its high compatibility with photomasks and exposure processes.

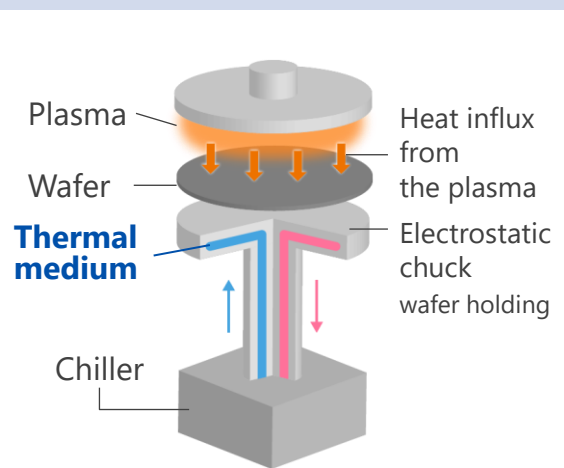


# ④ Thermal Medium for Semiconductor AMOLEA™ AF-164 (Under Development) 1/2

## Market overview

Applications	Precise temperature control in semiconductor manufacturing processes (deposition, etching, and ion implantation).
Required characteristics	<ul style="list-style-type: none"> <li>■ Non-flammability, high thermal conductivity, thermal stability, and electrical properties</li> <li>■ Low GWP</li> </ul>

### Illustration of thermal medium use in the etching process



### Reasons for requiring a thermal medium

- Large amounts of heat are generated locally and instantaneously.
  - With the increasing number of process steps and further structural miniaturization, precise temperature control directly impacts yield and device performance.
- ➔ Precise temperature control is required.

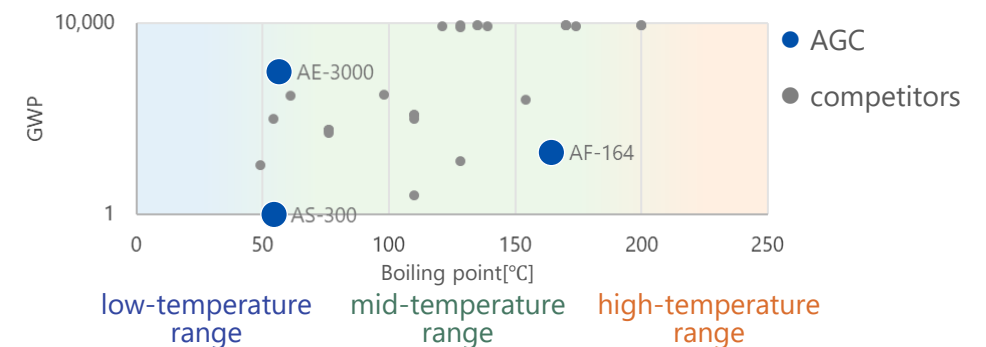
### Market size

**AGC is advancing its development with a focus on the mid-latitude region, where demand is expected to be large.**

#### Product lineup of fluorine-based liquids for use as thermal media

Market size: 30 billion JPY (AGC estimate)

Applications: Semiconductor manufacturing, chemical production, power generation, data centers, and others.



### Market growth

**The semiconductor thermal medium market is driven by AI servers, with growth of over 10% per year.**

# ④ Thermal Medium for Semiconductor AMOLEA™ AF-164 (Under Development) 2/2



- Newly developed AMOLEA™ AF-164 with a competitive advantage. Built based on relationships with equipment manufacturers fostered through fluoropolymer and fluoroelastomer supply, as well as the know-how gained through the development and mass production of refrigerants and cleaning agents.
- Continue to expand the business by exploring further applications in semiconductor manufacturing processes.

AF-164

- A fluorinated solvent with a boiling point of 164°C as a single chemical substance.
- Used in semiconductor manufacturing etching processes

## Strength

- With AF-164 alone, a wide temperature range can be covered. No need to switch between multiple thermal medium, **reducing customers' equipment operation and procurement burdens and helping lower total costs.**
- Small environmental impact with low GWP.
- Low geopolitical risk. Produced domestically in Japan from upstream raw materials.

## Comparison with competing products

Product	Manufacturer	Operating temperature range for use in the mid-temperature band	GWP (environmental considerations)	Country of manufacture (geopolitical risk)
AF-164	AGC	-30~130°C	◎	◎
-	B-company	-10~100°C	×	×
-	C-company	-30~90°C	○	○
-	D-company	-30~80°C	○	◎
-	E-company	-60~60°C	◎	?

# ⑤ Post-CMP Cleaner (Under Development) 1/2

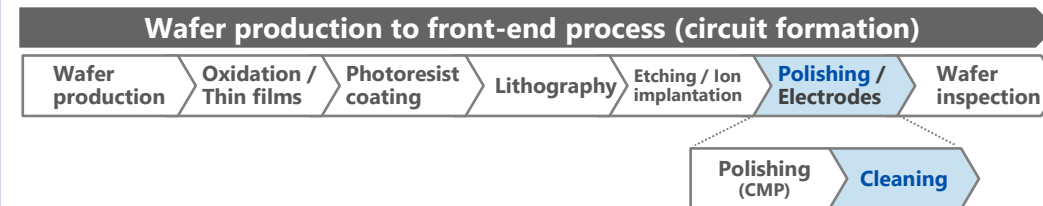
## Market overview

Applications	A cleaning solution used to remove micro-particles and chemical residues remaining on the wafer surface after the CMP (chemical mechanical polishing) process in semiconductor front-end processes.
Required characteristics	High cleaning performance and low damage to the substrate and wiring materials.
Competitors	Chemical manufacturers for semiconductors
Market growth	<ul style="list-style-type: none"> <li>With the expansion of CMP processes, demand is expected to increase steadily.</li> <li>Driven by semiconductor miniaturization, steady growth is expected to continue.</li> </ul>

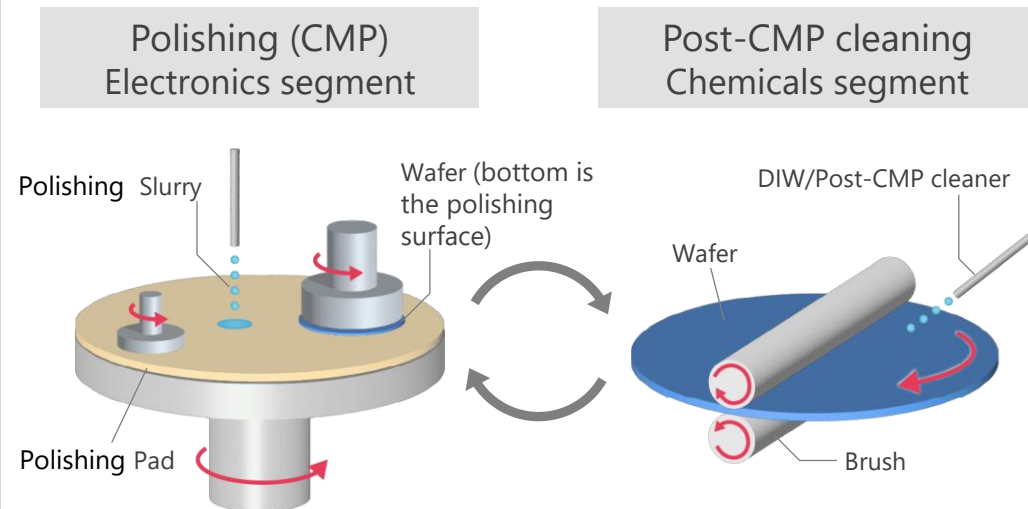
## Supply chain



## Process flow and illustration of the Post-CMP cleaner



## Total Solution for CMP process

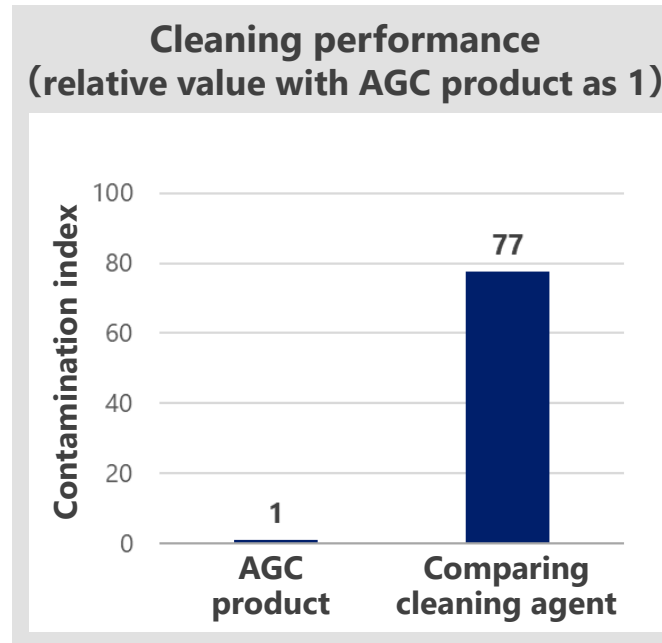


# ⑤ Post-CMP Cleaner (Under Development) 2/2

- Provide a total solution covering from CMP slurry to post-CMP cleaning solution leveraging collaboration between the Electronics and Chemicals segments,
- Established a Chemicals Technical Center\* In Hsinchu, Taiwan, where many semiconductor-related companies are concentrated, driving initiatives end-to-end, from understanding customer needs to proposing products and services, and developing new products.

## Strength

- Competitive advantage across the entire process **leveraging its know-how and accumulated technologies specialized in ceria-based CMP slurry.**
- CMP slurry performance based desing.
- **Performance suitable for cleaning after the CMP process** than water or conventional surfactants.



## Future initiatives

- Develop a total CMP solution leveraging its technical foundation in ceria-based CMP-related materials.
- Target demand for leading-edge nodes and advanced packaging.
- Stable growth centered on high-value, eco-friendly products.



Technical Center housed in a building at Taiwan's Hsinchu "Damyuan Science Park,"

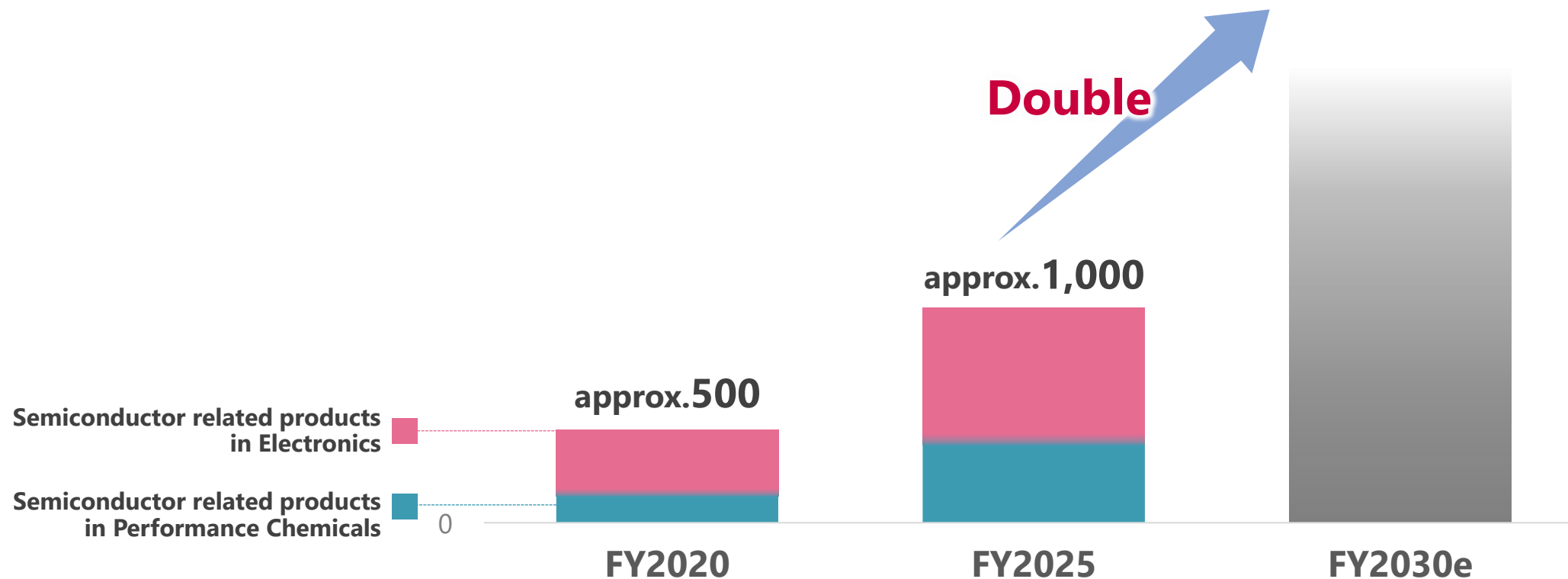
# Conclusion

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# Semiconductor-Related Businesses Sales Trend

- Aim to double our 2025 revenues by 2030, leveraging AGC's full capabilities.
- Existing products will continue to drive growth.
- Focus as well on development and launch of new products, including packaging materials.

## Semiconductor-related businesses sales trend (100 million JPY)



**END**

**AGC**

Your Dreams, Our Challenge