# **Company Overview**





November, 2021

Your Dreams, Our Challenge

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# **1. Company Overview**

## **Basic Information**



Company name TSE code Established Representative director Paid-in capital Consolidated net sales Consolidated no. of employees No. of consolidated subsidiaries AGC Inc. 5201 September 8, 1907 Yoshinori Hirai ¥90.9 billion\* ¥1,412.3 billion\*

56,179\*

217 companies (Of which 179 are overseas)\* ~ Shareholder notes ~

□ Fiscal close

December 31

Annual general shareholders' meeting
 March of each year

Date of record
 Annual general shareholders' meeting

December 31

Year-end dividend

December 31

Interim dividend

June 30

- Shareholder registry administrator
   Mitsubishi UFJ Trust and Banking Corporation
- Number of shares per unit

100 shares

Number of shares outstanding

227,441,381 shares

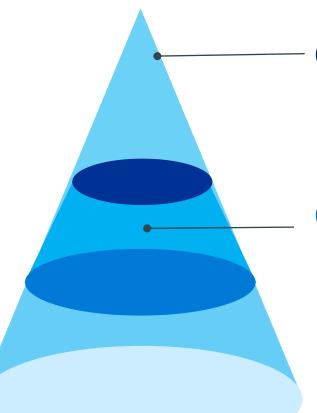
Representative director President & CEO Yoshinori Hirai



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# AGC Group Vision "Look Beyond"





# **Our Mission**

**AGC, an everyday essential part of our world** AGC's unique materials and solutions make people's lives better around the world every day.

# **Our Shared Values**

- Innovation & Operational Excellence
- Diversity
- Environment
- Integrity

# Our Spirit

Never take the easy way out, but confront difficulties.

New businesses that have continually supported the development of society and paved the way for the future









Motorization

Coming of the era of TV



Expansion of

businesses and products







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Arrival of the IoT era

Strat of 5G communication

1907 **1910s** 

Construction boom

**1950s** 

**1970s** 

**1990s** 

2000s

environment-conscious Advancement of IT

2010s

Started the business of

for smartphones

2020s



Founded Asahi Glass

Co., Ltd.

Started the flat glass

business

Started manufacturing of refractories

Started manufacturing of soda ash

Started the automotive alass business



Started the business of glass valves for CRTs



Succeeded in the development of ionexchange membrane

alternative CFC AK-225

ASAHIKLIA AK-225 Started the production of



Started the Started the business of filters business of alkalifor tone correction free glass for LCD for digital cameras



Started the contract production business of pharmaceutical and agrochemical intermediates



Started the business of chemically tempered glass EUV mask blanks

-	
П	
	WARD WARD

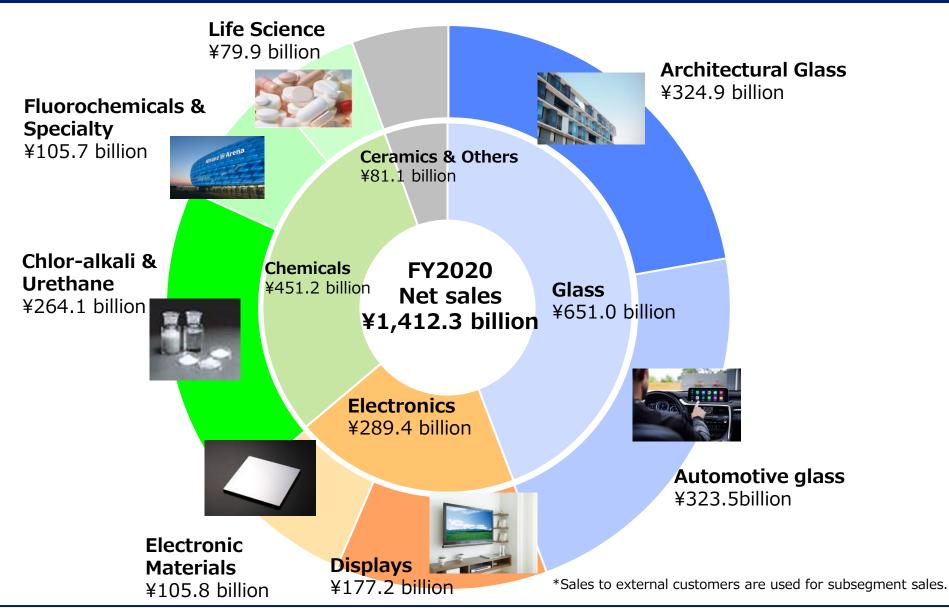
Developed glass antenna that adds cellular base station capabilities to windows



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### **Business Overview**





## **Global Operation**



Business spans over 30 countries and regions Approx. 70% of sales are generated overseas, approx. 80% are employees of overseas subsidiaries

Net sales: ¥1,412.3 billion Operating income: ¥75.8 billion Group employees: approx. 56,200

(FY12/2020)

Europe

Net sales: ¥312.5 billion Operating income: ¥6.9 billion Employees: approx. 17,000

Architectural Glass
Automotive Glass
Fluorochemicals
Life Science

Japan & Asia Net sales: ¥945.3 billion Operating income: ¥101.7 billion Employees: approx. 34,100

Architectural Glass
Automotive Glass
Display Glass
Electronic Materials
Chlor-alkali & Urethane
Fluorine & Specialty
Life Science
Ceramics

Americas

Net sales: ¥154.5 billion Operating income: ¥3.4 billion Employees: approx. 5,100

Architectural Glass
Automotive Glass
Electronic Materials
Fluorochemicals
Life Science

\* Because the figures for sales and profits by region are before eliminations and common regional expenses, the sum of sales and profits by region does not correspond to the total sales and profits of the Company.

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# **AGC's position**



#### Commands the top-ranking share in many products worldwide

Float flat glass No. 1 Worldwide



Automotive glass Top share worldwide



For TFT LCD/OLED Glass substrates No. 2 Worldwide



Caustic soda PVC **No. 1** in Southeast Asia



(Mountain of salt used as a raw material)

Fluoropolymer resin ETFE NO. 1 Worldwide



Cover glass for carmounted displays No. 1 Worldwide



Ultra-thin sheet for electronic equipment Soda lime glass No. 1 Worldwide



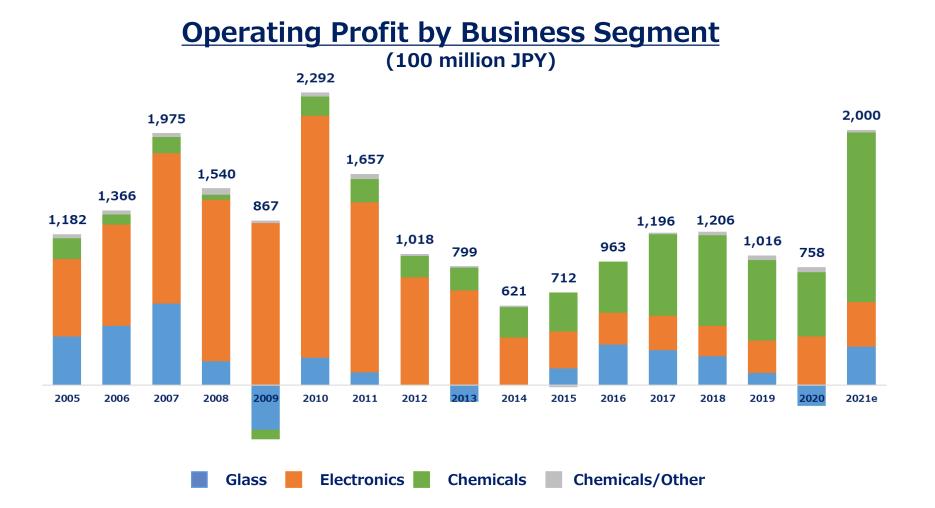
Fluoropolymer resin for on-site coatings **No. 1** Worldwide



\*Based on AGC estimates.

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# 2. Long-term Management Strategy Vision 2030

### Long-term Management Strategy Vision 2030

# 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.

#### **Concept for Realizing Vision 2030**



#### While the basic strategy remains the same as the previous longterm strategy, we will place more focus on social value creation.

#### **Group-wide Strategy**

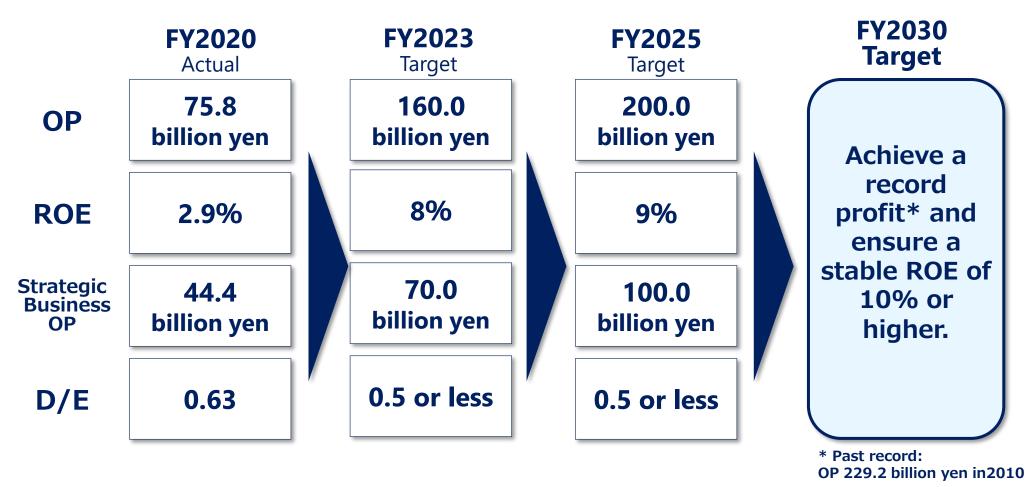
With both core and strategic businesses as drivers, AGC will keep optimizing business portfolio and create economic and social value continuously.

Core Businesses	Strategic Businesses
Heighten the competitiveness of each business and build robust profit foundations that have long-term stability	Focusing on high-growth fields, utilize our strengths to create and expand high- profit businesses that will become our future pillars

AGC Group Strength: we can provide differentiated materials to growth industries that will underpin future society.				
Relationships with and trust of clients throughout society and across a broad range of industries	Differentiated materials and technologies	Production technology and process development capabilities	Globally integrated management that unites diverse personnel	Corporate culture that encourages ambitious initiatives

### **Financial Targets under Vision 2030**





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#### Social Value the AGC Group Wants to Create



#### Through its business activities, AGC will create social value in the following five areas to help solve social issues.

Contributing to the realization of safe and comfortable urban infrastructure

Contributing to the realization of safe and healthy lifestyles

Contributing to the realization of a sustainable global environment

Contributing to the maintenance of a healthy and secure society

Contributing to the creation of fair and safe workplaces

Work toward the sustainability goals in all business activities

#### **Major Opportunities**

- Developing social infrastructure
- Achieving a safe and comfortable mobility
- Addressing food crises
- Building an info-intensive and IoT society
- Facilitating better health and longevity

- Addressing climate change
- Effective use of resources

#### **Major Risks**

- Creating a socially and environmental-conscious supply chain
- Ensuring fair and equal employment and workplace safety
- Considering relationships with local communities and the environment



#### 3. New Medium-term Management Plan





#### AGC will accelerate the following strategies toward Vision 2030.

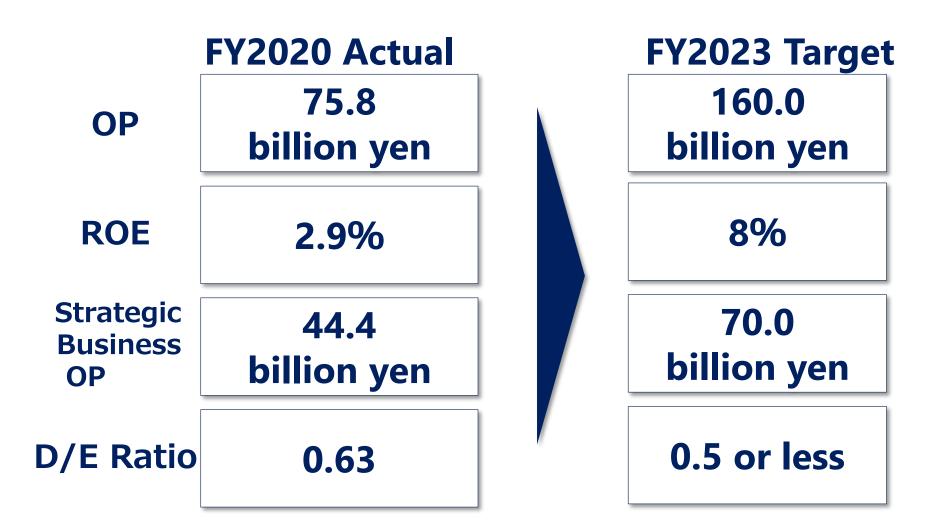
#### **Pursuing ambidextrous management**

- •We will accelerate the growth in the strategic business area, and at the same time explore new business areas including those related to energy.
- •In the core business, we will conduct a structural reform in the architectural glass and automotive glass businesses that need improvements in profitability and asset efficiency.
- •For other businesses in the core business area, we will strengthen their profit foundation and cash generation.

Promotion of sustainability management	Gaining competitiveness by accelerating digital transformation
<ul> <li>Propelling materials innovation to help solve social issues</li> <li>Aiming for net-zero carbon in 2050</li> <li>Strengthening human resources and group-wide governance</li> </ul>	<ul> <li>Taking a transformation of the business model itself into consideration, leverage digital technologies to improve the process from product development to sales activities</li> <li>Use digital technologies to provide value to customers and society and gain competitiveness</li> </ul>

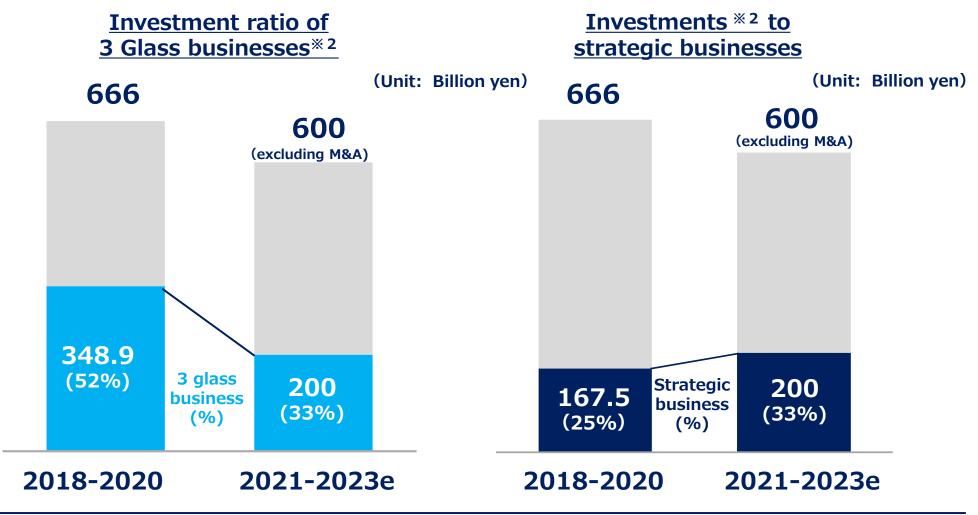
# AGC plus-2023 Financial Targets





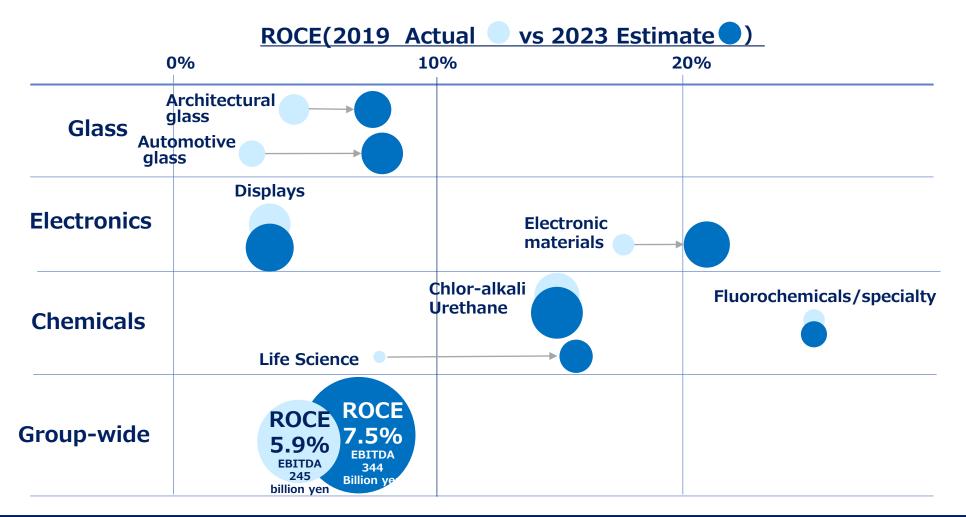
AGC plus-2023 Investment Resources Allocation AGC

Strengthen investments in growth areas such as strategic businesses and reduce the investment ratio in the three glass businesses.<sup>\*1</sup>



#### **Business Portfolio Reform (ROCE) To-be Image**

#### Improve ROCE to 7.5% from 5.9%, and EBITDA by approx. 100 billion yen (245 billion yen to 344 billion yen).

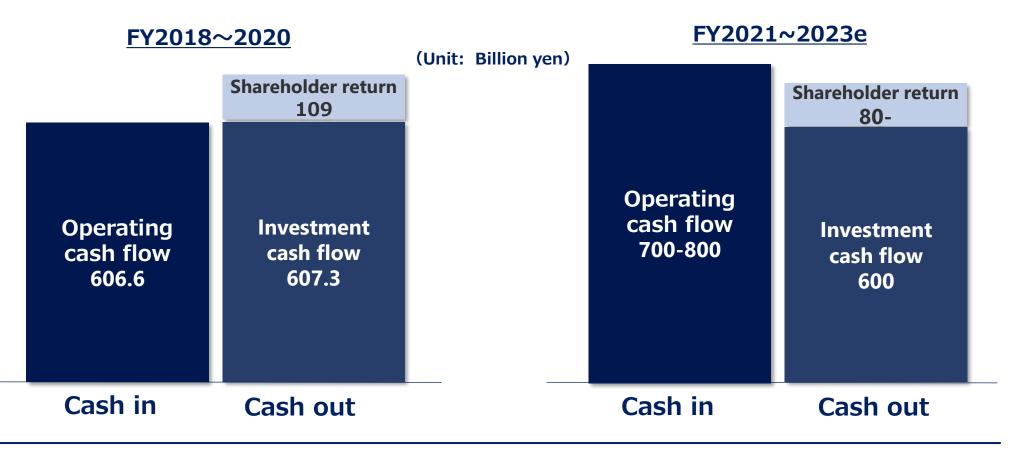


**ROCE:** (OP forecast of the year) ÷ (Operating asset forecast at the year end), OP by business is before allocation of common expenses Diameter of each circle (excluding those of the group-wide section): the size of EBITDA ©AGC Inc.

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# AGC plus-2023 Cash Flow Plan

- AGC four Dreams, Our Challenge
- We will allocate cash mainly to businesses with high asset efficiency and growth business while securing financial soundness.
- We reduced cross-holding shares by approx. 110 billion yen in the past five years, with 85 billion yen during the previous medium-term plan. We will continue to achieve further reduction.





# 3. New Medium-term Management Plan *AGC plus-2023*

#### Pursuing ambidextrous management

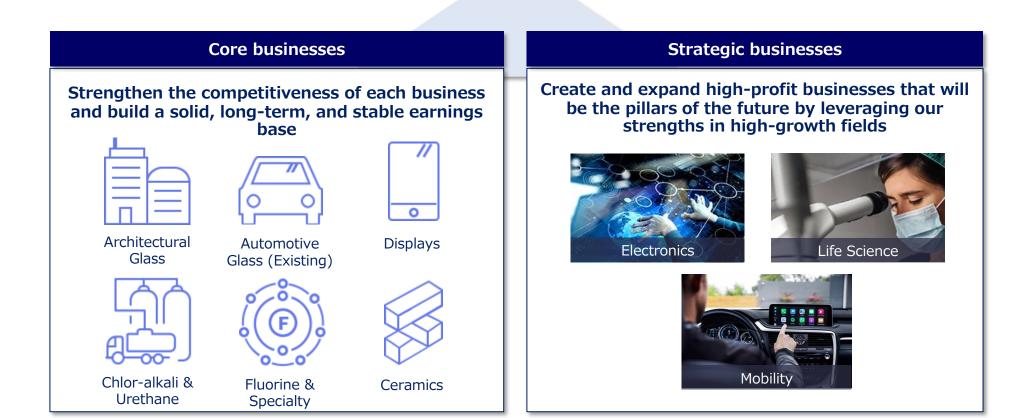
- Promotion of sustainability management
- Gaining competitiveness by accelerating digital transformation

# AGC Group's business portfolio



#### **Company-wide strategy**

With core and strategic businesses as twin engines continuously create economic and social value by transforming into an optimal business portfolio



# AGC plus-2023 Key Issues by Segment

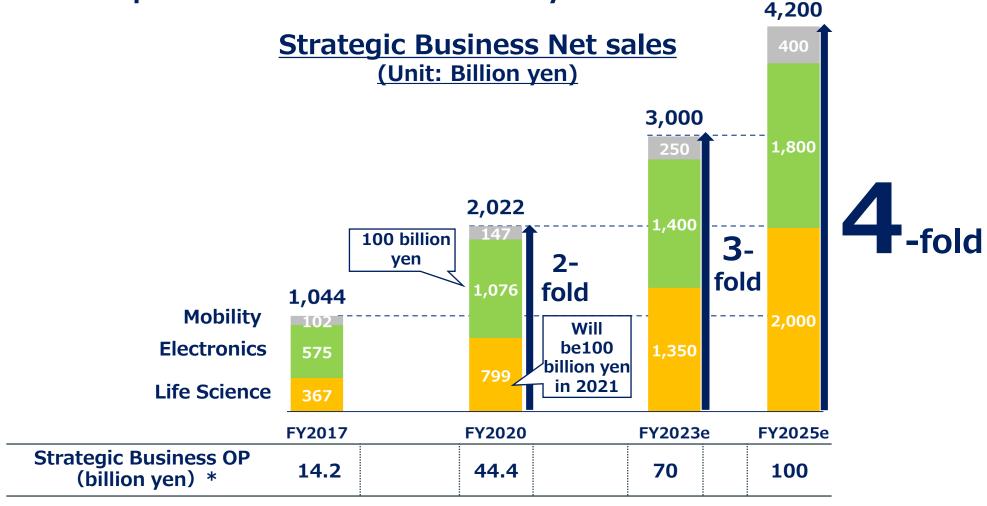


	<b>Business</b>	Key issues		<b>Direction</b>	
Strategic Business	Electronics	<ul> <li>Expand value-added products including EUV photomask blanks</li> <li>Constantly generate new businesses</li> </ul>			
	Life Science	ence • Expand business through timely investments • Achieve high growth based on its global operation		Further accelerate growth	
	Mobility• Steadily capture business opportunities amid market changes in the CASE era • Starting mass production of car mounted display glass in China to contribute to profit increase.				
	Display	•Respond to the continuing demand increase in the Chinese market to build a long-term stable business foundation		Unchanged	
Business	Chlor-Alkali	•Further strengthen the business foundation in S.E. Asia through capacity enhancement in Thailand and Indonesia		from the previous basic	
	Fluorochemi cals & Specialty	<ul> <li>Capture the demand in global niche markets by adding value to products and domain expansion</li> <li>Change environmental problems to business opportunities</li> </ul>		strategies	
	Architectural glass Automotive glass	<ul> <li>Minimize investments and increase asset efficiency</li> <li>Steadily pursuing productivity improvement and cost reduction to improve profitability and capability for cash generation</li> </ul>		Accelerate structural reform	

#### Accelerate Growth of Strategic Businesses



# Electronics: Achieved net sales of 100 billion yen in 2020 Life Science: Expected to achieve net sales of 100 billion yen in 2021 OP: Expected to achieve 100 billion yen in 2025



# AGC plus-2023 Electronics

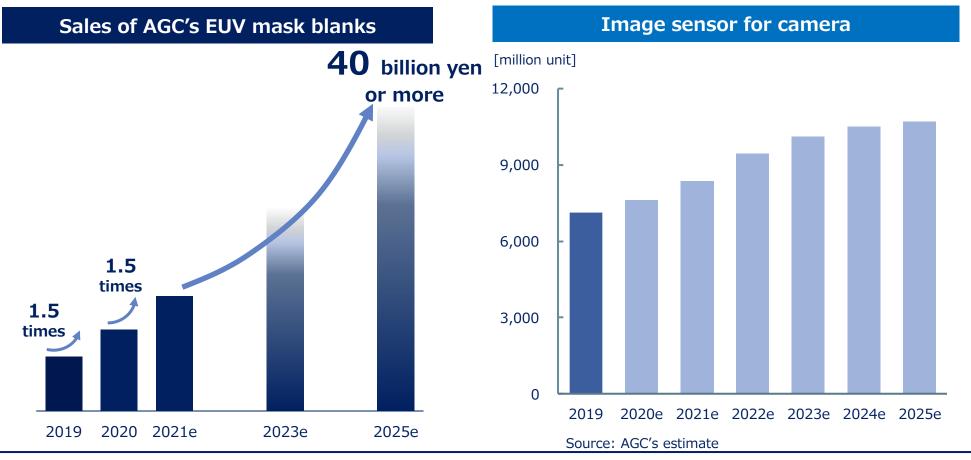


#### **EUV Mask Blanks**

EUV lithography disseminated rapidly by miniaturization of circuit patterns on semiconductor chips

#### **Optoelectronics materials**

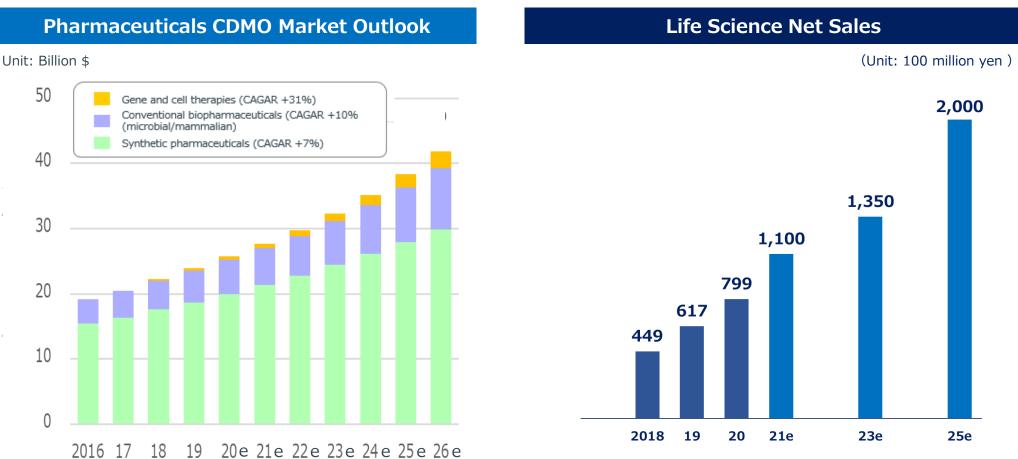
While the growth of smartphones will slow, the number of cameras used will continue to grow as smartphones will be equipped with more camera lenses.



# AGC plus-2023 Life Science



- Synthetic pharmaceuticals & agrochemicals will expand business based its development technologies
- Biopharmaceuticals will achieve a high growth in specific regions/technologies



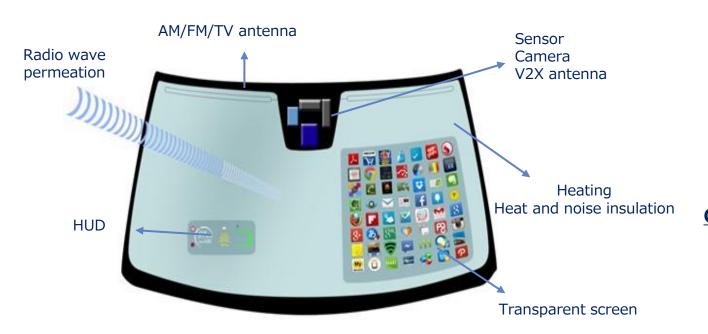
# **Strategic business: Mobility**



Make sure to seize business opportunities with a view to the market changes brought about by CASE

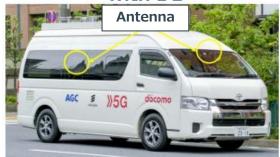
Contribute to earnings by starting mass production of automotive display glass in China
<u>Automotive glass</u>

<u>Automotive glass</u>



Providing not only materials but also solutions through the use of glass displays and the addition of communication functions

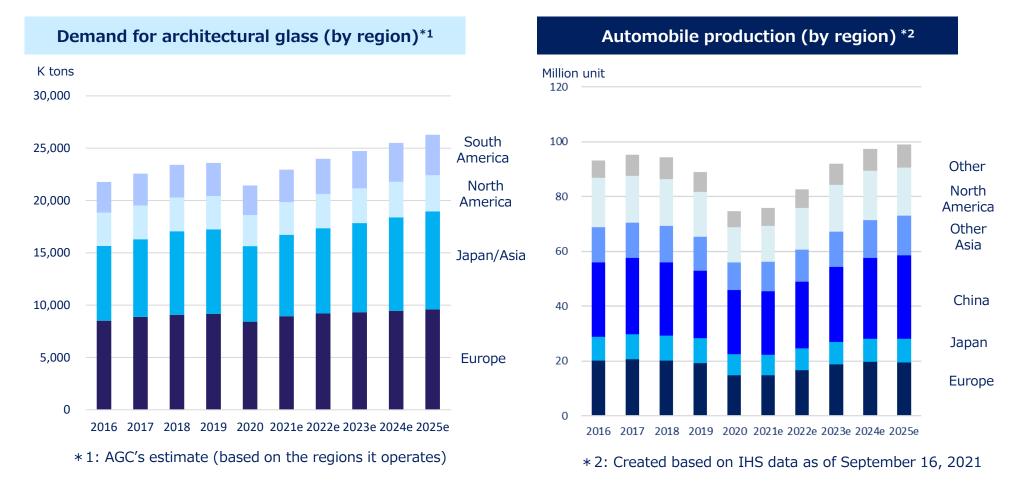
Adopted in the LEXUS RX released in 2019 and other models and has the No.1 share worldwide Car-mounted antenna compatible with 5G



Successful development of 5Gcompatible glass antenna together with NTT DOCOMO and Ericsson

### AGC plus-2023 Glass (market environment)

- AGC Your Dreams, Our Challenge
- Demand for architectural glass will be back to the 2019 level in 2022.
   Demand for automotive glass will be back to the 2019 level in 2023.



#### ©AGC Inc. 29

#### Structural Reform in Architectural/Automotive Glass Businesses



AGC will promote a structural reform of the architectural glass and automotive glass businesses to improve the profitability.

Automotive glass	
<ul> <li>High-efficient facilities for intensive manufacturing</li> </ul>	
•Focus on high-value added products •Streamlining in Chuderice (CZE) and Seneffe (BEL)	

•Streamlining in Europe and other regions to reduce general and administrative expenses

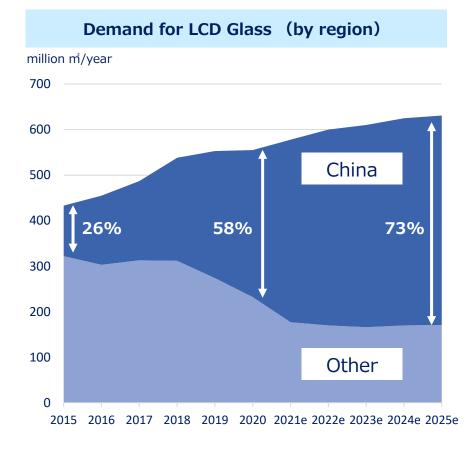
Investments to be kept at 80% of its depreciation costs or less

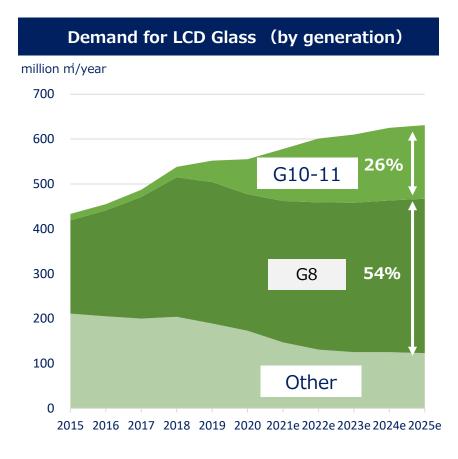
By 2023, we will reduce 15 billion yen<sup>\*</sup>, mainly fixed costs, by promoting a structural improvement measures.

# AGC plus-2023 Display (market environment)



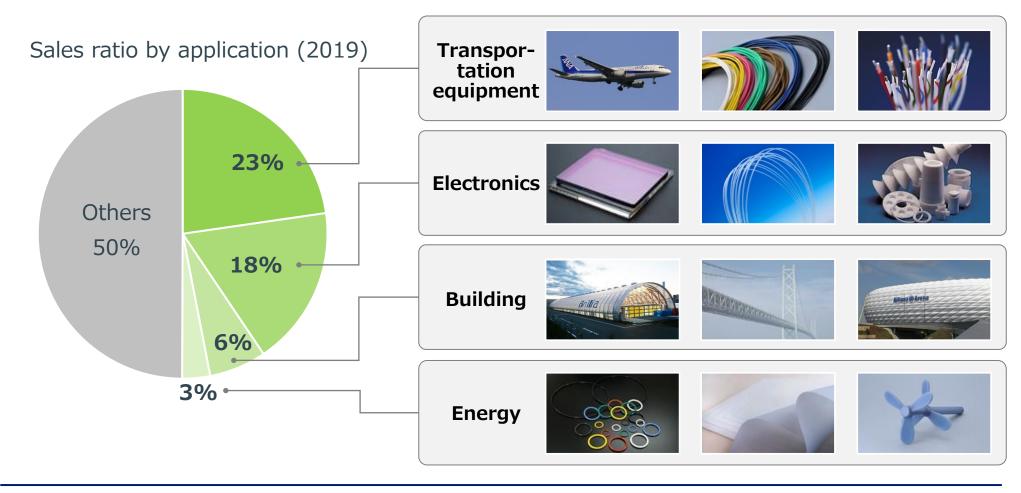
- Demand in China will continue to expand until 2025
- Enhance capacity to respond to growing demand for G11 in China





#### **Core businesses: Fluorochemicals & Specialty**

- Capture demand in global niche markets by increasing added value and expanding business areas
- Turning environmental issues into business opportunities



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# 3. New Medium-term Management Plan *AGC plus-2023*

#### Pursuing ambidextrous management

- Promotion of sustainability management
- Gaining competitiveness by accelerating digital transformation

#### AGC Group's Sustainability Management

#### ACC Your Dreams, Our Challenge

#### Propelling innovation in materials to help solve social issues

Since its foundation, AGC has been working to solve social issues in response to the demands of the times through long-term R&D and taking on the challenges of commercialization based on a relationship of trust with customers.



Through our unique materials and solutions, we will continue to fulfill Our Mission (Purpose) of "AGC, an everyday essential part of our world" and contribute to the realization of global and social sustainability.

#### Social value the AGC Group wants to create

#### Through its business activities, AGC will create social value in the following five areas to help solve social issues.

#### **Major Opportunities**

- Developing social infrastructure
- Achieving a safe and comfortable mobility
- Addressing food crises
- Building an info-intensive and IoT society
- Facilitating better health and longevity

- Addressing climate change
- Effective use of resources •

#### <u>Major Risks</u>

- Creating a socially and environmental-conscious supply chain
- Ensuring fair and equal employment and workplace safety
- Considering relationships with local communities and the environment

#### Work toward the sustainability goals in all business activities

Contributing to the realization of safe and comfortable urban infrastructure

Contributing to the realization of safe and healthy lifestyles

Contributing to the realization of a sustainable global environment Contributing to the maintenance of a healthy and secure society

Contributing to the creation of fair and safe workplaces

# Create social values through products, technologies, and company activities



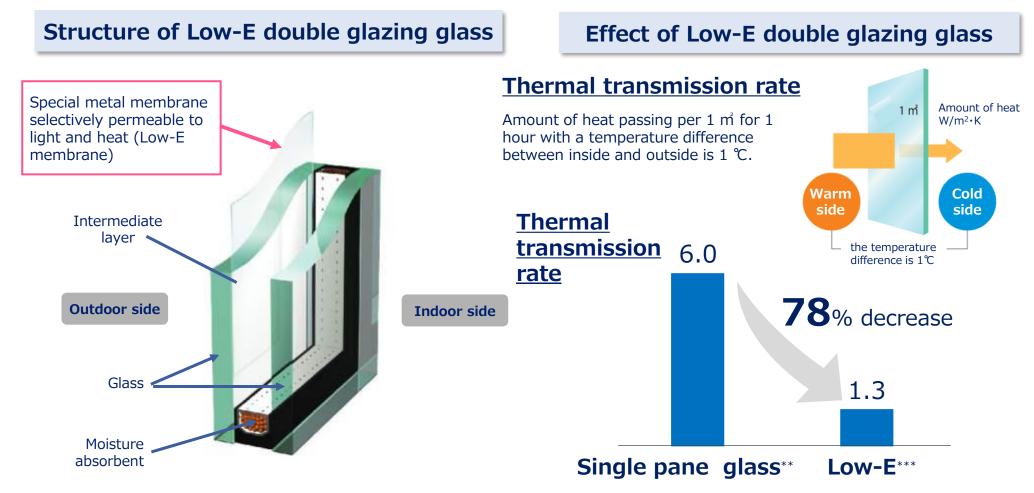
Business Social values	Glass	Electronics	Chemicals	Ceramics	
Contribution to the realization of a sustainable global environment	<ul> <li>Float flat glass (products using recycled raw materials, Thinned glass)</li> <li>Low-E double glazing glass</li> <li>Coating glass</li> <li>Photovoltaics-embedded glass</li> <li>Thinned glass(chemically strengthened glass)</li> <li>Automotive glass etc.</li> </ul>	<ul> <li>Display glass (products using recycled raw materials)</li> <li>Solar cell TCO glass</li> <li>Float cover glass for PV module</li> <li>Optical Materials</li> <li>Materials for high-speed communication</li> <li>High power LED glass ceramics substrate etc.</li> </ul>	<ul> <li>Environmentally friendly refrigerant and solvents</li> <li>Materials for fuel cells</li> <li>Fluoropolymer</li> <li>Fluoropolymer resin for coatings</li> <li>Fluoropolymer resin for solar cell etc.</li> </ul>	<ul> <li>Refractory (products using recycled raw materials)</li> <li>High thermal insulation ceramic wall for furnace</li> <li>Refractory/engineering for biomass power boilers</li> <li>etc.</li> </ul>	
Contribution to the realization of safe and comfortable urban infrastructures	<ul> <li>Low-E double glazing glass</li> <li>Disaster-resistant/security glass</li> <li>Antennas installed in construction windows</li> <li>Automotive glass</li> <li>Cover glass for car-mounted displays</li> <li>Sound insulation glass</li> <li>Light control glass</li> <li>Integrated glass antenna for cars</li> <li>HUD components etc.</li> </ul>	<ul> <li>Display glass</li> <li>Materials for onboard sensing/radar</li> <li>Semiconductor processes and materials</li> <li>Materials for high-speed communication</li> <li>Glass substrates for AR/MR etc.</li> </ul>	- Polyvinyl chloride - Caustic soda - Sodium hypochlorite - Sodium bicarbonate etc.	<ul> <li>Refractory/engineering for industrial furnace</li> <li>Refractory/engineering for waste incinerator</li> <li>etc.</li> </ul>	
Contribution to the realization of safe and healthy lives	- Low-E double glazing glass - UV cut glass etc.	<ul> <li>Display glass for medical monitors</li> <li>Materials for high-speed communication</li> <li>Laboratory glass ware</li> <li>Tissue culture products etc.</li> </ul>	<ul> <li>Pharmaceutical active and intermediates ingredient</li> <li>Agrochemical active and intermediates ingredients</li> <li>Green house film</li> <li>High-function membrane for water treatment</li> <li>Sodium bicarbonate (infusion for dialysis) etc.</li> </ul>		

### Low-E double glazing glass



## Selectively transmit light and heat and helps to improve the energy efficiency of buildings

Approximately 78% less heat transfer than single pane glass\*



\*Comparison of thermal transmission rate between 3mm float glass and Low-E double glazing glass \*\*3mm float glass \*\*\*Low=E double glazing glass with gas 37

### Photovoltaics-embedded glass: SunEwat<sup>TM</sup>



- Glass that can generate electricity by solar power
- **Encapsulates a solar power generation cell in two glass plates**
- Realizes both energy creation and design performances and help bring about a carbon-neutral society



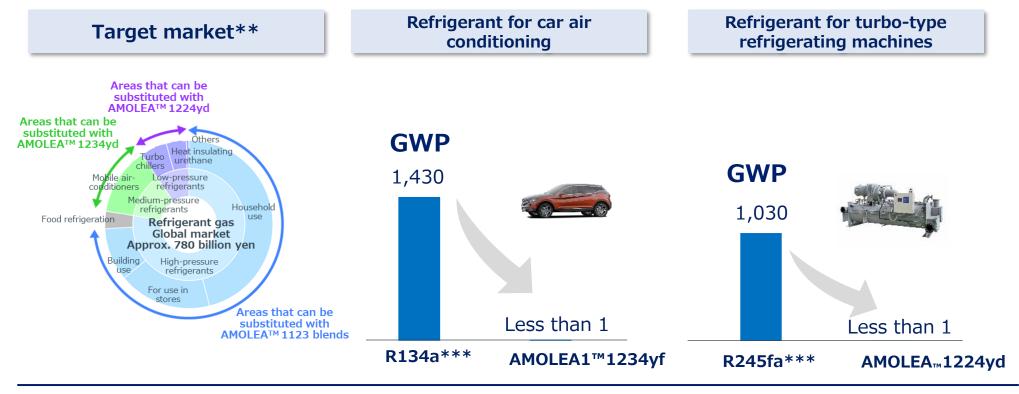
Entrance canopy of Global Zero Emission Research Center of AIST



New Punggol campus of Singapore Institute of Technology

#### Environment-friendly refrigerant/solvent: AMOLEA<sup>TM</sup> series

- Sells new environment-responsive refrigerant/solvent with extremely low global warming potential (GWP\*)
- Contributes to the prevention of global warming



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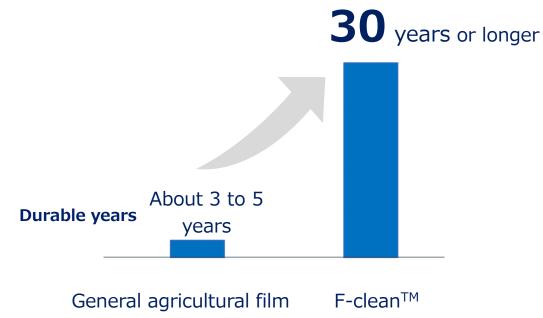
#### Greenhouse film: F-clean<sup>™</sup>



- Contributes to reduction of plastic waste thanks to its long life
- Contributes to improvements in the productivity and quality of agricultural products thanks to its high light transmittance



Case of adoption in greenhouse



#### Fluoropolymer resin for coatings: Lumiflon<sup>TM</sup>

- Decreases the frequency of repainting and contributes to the reduction of CO<sub>2</sub> emissions in the life cycle thanks to its high weather resistance
- Has actually been used in various cases from buildings to transport equipment for 40 years since its release



Pearl River Tower (China)





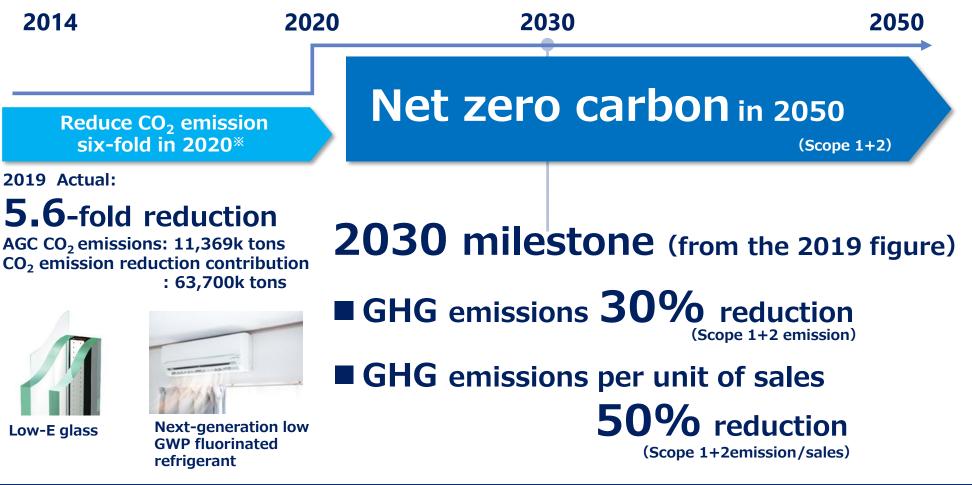


Ferrari World Abu Dhabi (U.A.E.)

# Move on to the next stage for the realization of a sustainable global environment



Expected to achieve the CO<sub>2</sub> reduction target set in 2014
 Aim to achieve net zero carbon in 2050



\*AGC set a goal of reducing its annual CO<sub>2</sub> emissions by six fold in 2020 through energy-saving and energy-creating products ©AGC Inc.

### **Initiatives to Achieve Net Zero Carbon**



#### AGC strives for net zero carbon both in its business activities and in society.

#### Innovation in manufacturing **Contribution to** Next-generation energy **CO<sub>2</sub>reduction** process **Development and dissemination Development and Reduce emissions through** of products contributing to dissemination of products technological innovation hydrogen/renewable energy contributing to CO<sub>2</sub> reduction <Example> <Example> <Example> Exhaust gas Energy efficiency at time of For membranes) AGC materials heating increased as heat and materials manufacturers · MEA Automakers and manufacturers Automakers and others exchanges warm up oxygen & gas electrodes) AGC materials and Automakers ↓↑ aterials manufacturers Oxygen and Focus areas fo AGC Heating gas + electroc Efficiently heat melting glas using electronic booster (Polymer electrolyte) (CCM & MEA) (Stack) (Power generation system) Fluorine-based electrolyte polymers Glass melting process Vacuum glazing for fuel cell membranes Introduce energy-efficient oxygen With Panasonic Corporation, developed vacuum insulated glass with the industry's highest class of insulation combustion methods and electric •Used in the power generating system melting boosters that will lead to for FCV •Overwhelming No.1 position with its high power generation and durability reduced fuel consumption in the glass performance\*. Contributing to improved living melting process environment in Europe that is the Accelerate the electrification of melting largest insulation glass market heat sources

\* Heat transfer coefficient of a single vacuum insulated glass unit of approx. 6 mm thickness is 0.7 W/ (m<sup>2</sup>K). As of October 15, 2018, based on AGC research

#### 43 ©AGC Inc.



## 3. New Medium-term Management Plan *AGC plus-2023*

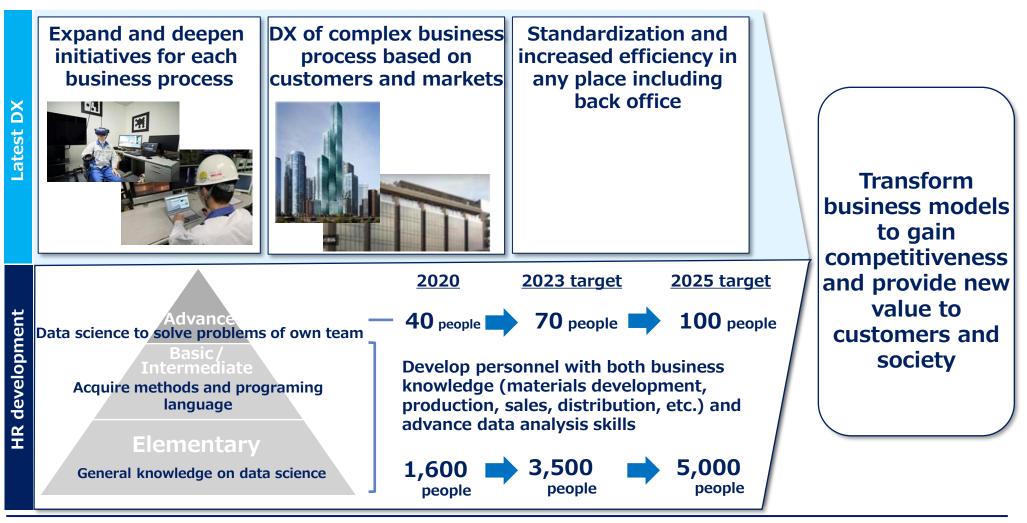
### Pursuing ambidextrous management

- Promotion of sustainability management
- Gaining competitiveness by accelerating digital transformation

# Gaining competitiveness by accelerating digital transformation



We will advance and deepen our initiatives for each business process and promote digitalization of complex business processes towards the full realization of DX.





## 4. Shareholder Return



#### Expected to achieve the record high in the year-total dividend per share

#### Dividend per share\* (JPY)



\*The Company consolidated its common shares at a ratio of 5 shares to 1 share on July 1, 2017. Accordingly, per-share data is calculated on the assumption that the consolidation of shares was conducted at the beginning of 2007.

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## 5. Outlook for FY2021

#### FY2021 Outlook



#### Significant increase is expected in net sales and operating profit thanks to recovery of businesses affected by the coronavirus pandemic & continued high PVC prices.

5	•		(100 million JPY)
	FY2020	FY2021e As of Aug 2, 2021	<b>FY2021e</b> As of Nov 1, 2021
	14,123	16,700	16,900
	758	1,800	2,000
	571	1,870	2,070
parent	327	1170	1,290
	120	210	210
			(Ordinary 160)
			(Special 50)
	5.4%	9.7%	11.8%
	2.9%	7.4%	11.6%*
JPY/USD	106.8	108.6	109.9
JPY/EUR	121.8	129.5	130.5
USD/BBL	42.2	69.2	69.6
USD/MT	713	1,012	1,010
	JPY/USD JPY/EUR USD/BBL	14,123         758         571         327         327         120         5.4%         2.9%         3PY/USD       106.8         3PY/EUR       121.8         USD/BBL       42.2	FY2020         As of Aug 2, 2021           14,123         16,700           758         1,800           571         1,870           327         1170           120         210           5.4%         9.7%           2.9%         7.4%           JPY/USD         106.8         108.6           JPY/EUR         121.8         129.5           USD/BBL         42.2         69.2

\* ROE of FY2021e is calculated using the figures of Profit for the year attributable to owners of the parent as of Dec 31, 2020



#### (100 million JPY)

	FY2	2020	FY2021e As of Nov 1		Change		FY2021e As of Aug 2		Change	
	(	a)	(	b)	(b)-	(a)	(	c )	(b)-(	(c)
	Net sales	Operating profit	Net sales	Operating profit	Net sales	Operating profit	Net sales	Operating profit	Net sales	Operating profit
Glass	6,510	▲ 166	7,200	300	+ 690	+ 466	7,400	350	▲ 200	▲ 50
Electronics	2,894	378	3,200	350	+ 306	▲ 28	3,200	330	+ 0	+ 20
Chemicals	4,512	505	6,200	1,330	+ 1,688	+ 825	5,800	1,100	+ 400	+ 230
Ceramics/Other	811	42	800	20	▲ 11	▲ 22	800	20	+ 0	+ 0
Elimination	▲ 603	▲ 1	▲ 500	0	+ 103	+ 1	▲ 500	0	+ 0	+ 0
Total	14,123	758	16,900	2,000	+ 2,777	+ 1,242	16,700	1,800	+ 200	+ 200

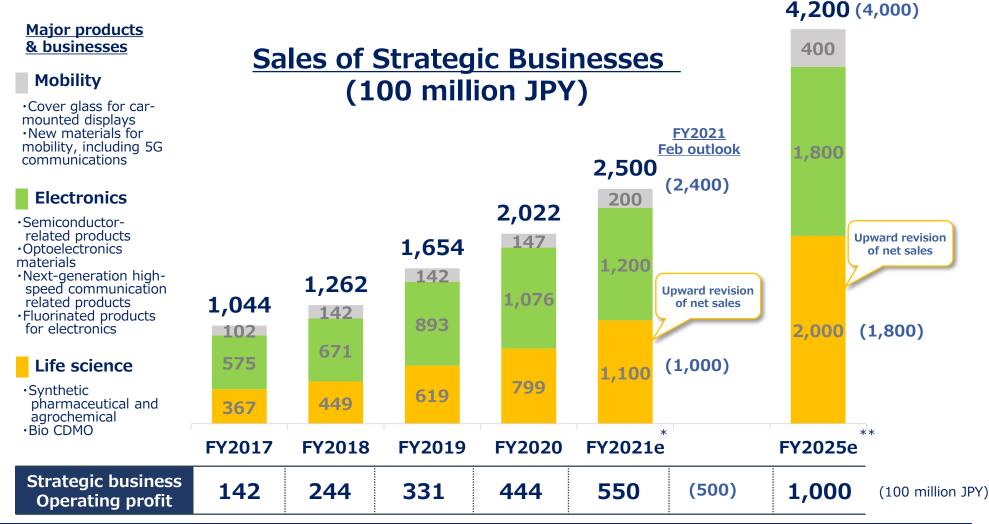
### 4Q outlook by business segment



	Outlook for FY2021 4Q
Glass	<ul> <li>(Architectural glass)</li> <li>•Strong performance is expected thanks to a good supply-demand balance will continue mainly in Europe.</li> <li>•Impacts of a fuel price hike will be a concern.</li> </ul>
Glass	<ul> <li>(Automotive glass)</li> <li>•Global vehicle production will continue to be affected by the component supply shortages including semiconductor.</li> <li>•Impacts of a fuel price hike will be a concern.</li> </ul>
Electro	<ul> <li>(Display)</li> <li>Shipments of LCD glass substrates and specialty glass for display applications will remain strong.</li> <li>Depreciation expense will increase due to the launch of new facility for LCD glass substrates.</li> </ul>
nics	<ul> <li>(Electronic materials)</li> <li>Shipments of semiconductor-related materials will increase due to the expansion of the semiconductor and semiconductor production equipment market.</li> <li>Shipments of optoelectronics materials will increase as the strong demand continues.</li> </ul>
Chemi	<ul> <li>(Chlor-alkali/urethane)</li> <li>The PVC market will remain at the high price level.</li> <li>(Fluorine/specialty chemicals)</li> <li>Demand for automotive and aircraft applications will recover gradually.</li> </ul>
Cuis	<ul> <li>(Life science)</li> <li>Business will remain strong with the capacity enhancement through M&amp;A and CAPEX, also thanks to contracts relating to anti-coronavirus vaccines.</li> </ul>

### Accelerating the Growth of Strategic Businesses

## No change from the announcement in Aug 2021 Expected to make a steady growth



\*Sales outlook of Strategic Business for FY2021 were revised upward at the time of the announcement for FY2021.1Q result. \*\*Sales outlook of Strategic Business for FY2025 were revised upward at the time of the announcement for FY2021.2Q result.

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FY2021

**Feb outlook** 



## 6. Appendix



Risk factors	Impact on OP	Rate used	Supplementary info
Dubai crude oil	300 million yen * loss if increased by 1 dollar per barrel	50USD	*excluding impact of oil hedging
Chemicals market	<ol> <li>Caustic soda:         <ul> <li>\$<u>1 M loss</u> if the international market down by \$1</li> </ul> </li> <li>PVC spread:         <ul> <li>\$<u>1.2M loss</u>* if decreased by \$1</li> </ul> </li> </ol>		*PVC spread: PVC market - (ethylene market×0.5)
Exchange rate	<b>200 million yen*loss</b> if yen appreciated by 1%	1USD =105 yen	*Impact when all currencies fluctuate at the same proportion against JPY

# **AGC plus-2023** Major investments and timeline for profit generation

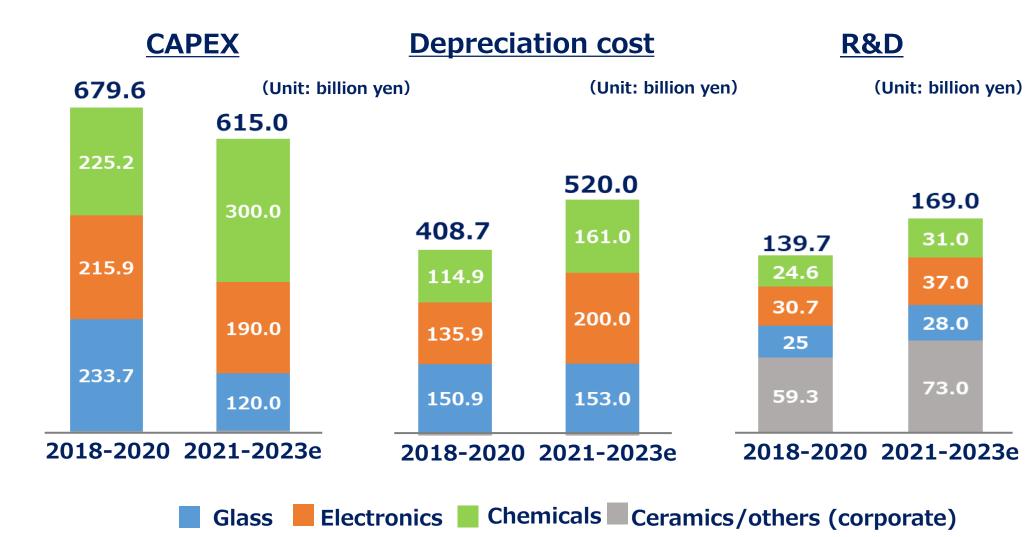


#### Major investments and profit generation

	2020	2021	2022	2023	2024~
Glass			China: New facility	for car-mounted displa	ay cover glass
	China: Relocate fur	mace for 11 <sup>th</sup> generat	ion TFT LCD glass subs	strates	
Electronics		China: Capacity enh	ancement for 11 <sup>th</sup> gen Japan: Drastic capac	-	substrates UV photomask blanks
		Indonesia: PVC capa	icity enhancement		
			Thailand: Capacity e facilities	nhancement of Chlor-a	alkali electrolytic
		Japan: Capacity enh	ancement for fluorine	products	
Chemicals		U.S.A.(Seattle): Cap	acity enhancement for	bio pharmaceuticals	
		U.S.A.(Colorado): Ac	cquired bio pharmaceu	ticals active ingredien	t plant of AstraZeneca
			Spain: Capacity enha	ancement for synthesis	s pharmaceuticals
				Denmark: Capacity e pharmace	
	Italy: Acquired Mole	ecular Medicine S.p.A,	a developer of gene/c	ell therapy	

**%Listed those announced in new releases** 







							(	100 milli	on JPY)
Glass	3Q.19	4Q.19	1Q.20	2Q.20	3Q.20	4Q.20	1Q.21	2Q.21	3Q.21
Net Sales	1,840	1,837	1,693	1,249	1,717	1,851	1,806	1,912	1,729
Architectural Glass	875	905	801	706	840	901	891	991	916
Automotive Glass	963	923	889	534	869	943	908	915	808
(Inter Segment)	3	9	3	8	7	7	7	6	5
Operating profit	23	▲ 4	▲ 26	▲ 182	▲ 12	53	97	106	50
Electronics	3Q.19	4Q.19	1Q.20	2Q.20	3Q.20	4Q.20	1Q.21	2Q.21	3Q.21
Net Sales	761	760	692	693	715	792	710	705	816
Display	449	460	433	433	448	458	461	429	474
Electronic Materials	283	276	238	247	257	316	230	257	318
(Inter Segment)	28	24	22	13	10	19	19	20	24
Operating profit	109	87	89	85	99	106	86	54	105

Chemicals	3Q.19	4Q.19	1Q.20	2Q.20	3Q.20	4Q.20	1Q.21	2Q.21	3Q.21
Net Sales	1,197	1,275	1,142	983	1,091	1,296	1,373	1,508	1,626
Chlor-alkali & Urethane	745	768	695	559	632	755	822	940	1030
Fluorochemicals & Specialty	302	311	283	247	250	278	269	299	329
Life science	147	193	160	173	207	260	279	265	265
(Inter Segment)	4	3	4	5	3	3	3	4	3
Operating profit	177	191	151	75	98	180	255	340	365



#### Trend of shipment and price

						2020				2021	
					1Q	2Q	3Q	4Q	1Q	2Q	3Q
YoY co	mparision					1	•				•
Glass	Architectural	Japan & Asia	shipmen	t	-low single-digit	-high single-digit	+mid single-digit	+low single-digit	+10%	+low 10% range	-mid single-digit
	(AGC)		price (Ja	pan)	+low single-digit	+mid single-digit	+low single-digit	+low single-digit	flat	flat	flat
		North America	shipmen	t	-high single-digit	-low 20% range	+low single-digit	+low 10% range	+mid 10% range	+mid 30% range	-
			price		-high single-digit	-mid single-digit	-mid single-digit	-mid single-digit	+low single-digit	+low 10% range	-
		Europe	shipmen	t	flat	-low 20% range	+low single-digit	-mid single-digit	+low single-digit	+high 20% range	+mid single-digit
			price		-low 10% range	-mid 20% range	-high 10% range	-low single-digit	+high single-digit	+high 30% range	+high 30% range
	Automobile	Japan	volume		-7%	-48%	-12%	+4%	-5%	+54%	-19%
	production*1	North America	volume		-11%	-68%	+0%	+0%	-4%	+132%	-23%
		Europe & Russia	volume		-17%	-60%	-7%	+1%	+1%	+84%	-21%
Electronics	Display panel demand* <sup>2</sup>	Global	area		-0%	+5%	+12%	+7%	+17%	+10%	-3%
Spot m	narket price	е									
Chemicals	Chlor-alkali	Caustic soda <sup>*3</sup>	price	USD/MT	290	290	275	266	264	342	422
	(Southeast	PVC <sup>*3</sup>	price	USD/MT	805	790	970	1,230	1,367	1,437	1,363
	Asia)	Ethylene*3	price	USD/MT	500	800	805	920	955	963	1,007

\*<sup>1</sup> Source : IHS Markit data as of September 16, 2021.

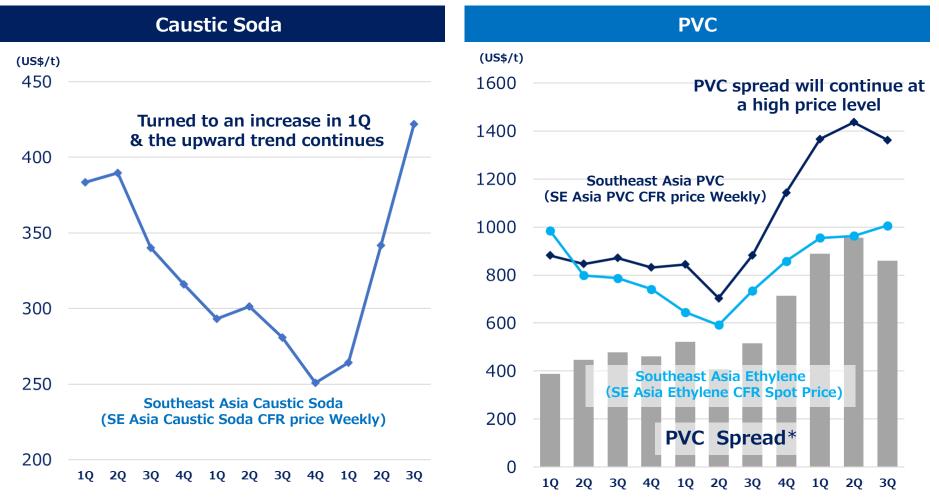
\*<sup>2</sup> Source : Omdia-Display Long-Term Demand Forecast Tracker – 2Q21 Pivot Results are not an endorsement of AGC Inc. Any reliance on these results is at the third-party's own risk.

\*<sup>3</sup> Source : Bloomberg

#### (Reference) Caustic Soda & PVC markets in Southeast Asia



- The caustic soda market is continuing an upward trend due to further tightening of the supply-demand balance.
- The PVC market is at a high price level as the supply-demand balance remains tight.



#### **Financial index**



				IFRS		
		16/12	17/12	18/12	19/12	20/12
Net sales	Million JPY	1,282,570	1,463,532	1,522,904	1,518,039	1,412,306
Operating profit	Million JPY	96,292	119,646	120,555	101,624	75,780
OP margin	%	7.5	8.2	7.9	6.7	5.4
Attributable to owners of the parent	Million JPY	47,438	69,225	89,593	44,434	32,715
Return on equity (ROE) *1	%	4.3%	6.1%	7.7%	3.9%	2.9
Return on assets (ROA) *2	%	4.8%	5.7%	5.4%	4.4%	3.1
Equity ratio	%	55%	53%	51%	50%	44
D/E (Interest-bearing debts · Net assets)	times	0.37	0.38	0.43	0.47	0.63
CF from Operating Activities/Interest-bearing debt	times	0.47	0.42	0.35	0.32	0.29
Earnings per share(EPS) *3	JPY	205.14	302.12	399.51	200.85	147.84
Cash dividends per share	JPY	90	105	115	120	120
EBITDA *4	Million JPY	195,767	249,880	259,425	231,857	208,459
Evenance rates (average)	JPY/USD	108.84	112.19	110.43	109.05	106.82
Exchange rates (average)	JPY/EUR	120.33	126.66	130.42	122.07	121.81

\*1 Profit for the year attributable to owners of the parent/Total equity attributable to owners of the parent(average)

\*2 Operating profit/Total assets(average)

\*3 Earnings per share is adjusted to reflect the 5 into 1 share consolidation implemented on July 2017.

\*4 EBITDA (Earnings Before Interest, Taxes, Depreciation and Amortization) = Profit before taxes + Depreciation + Interest expenses

#### For other financial indicators, please see here. <u>https://www.agc.com/ir/pdf/data\_all.pdf</u>

# Sustainability: Products and technologies to create social value



Material opportunities	AGC Group's materials and solutions	Social value	Related SDGs
Addressing climate change	Architectural glass, Green refrigerant, automotive infrared cut glass, refractories for biomass boiler, etc.	Contributing to the realization of a	7 エネルギーをみんなに そしてクリーンに 2 つくる責任 つかう責任
Effective use of resources	Fuel cell materials, products for recycled raw materials (glass, refractories, etc.)	sustainable global environment	13 <u>気検変動に</u> 具体的な対策を
Developing social infrastructure	Architectural glass, caustic soda, sodium hypochlorite, sodium bicarbonate, PVC, etc.		
Achieving a safe and comfortable mobility	Automotive glass antennae, components for automotive sensing radar, HuD components, etc.	Contributing to the realization of safe and comfortable urban infrastructure	9 age temation 9 age >
Building an info- intensive and IoT society	Antenna for buiding windows, materials for semiconductor production, Display glass, high-speed communication parts, etc.		12 つたる発作 つかう発作
Addressing food crises	Agrochemical active ingredients/intermediates, film for agricultural green houses	Contributing to the realization of safe and	2 前単を せらに く、、、 ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・
Facilitating better health and longevity	Pharmaceuticals active ingredients/intermediates, high-speed communication parts, high-performance membrane for water treatment	healthy lifestyles	6 安全またとイン を世界中に で

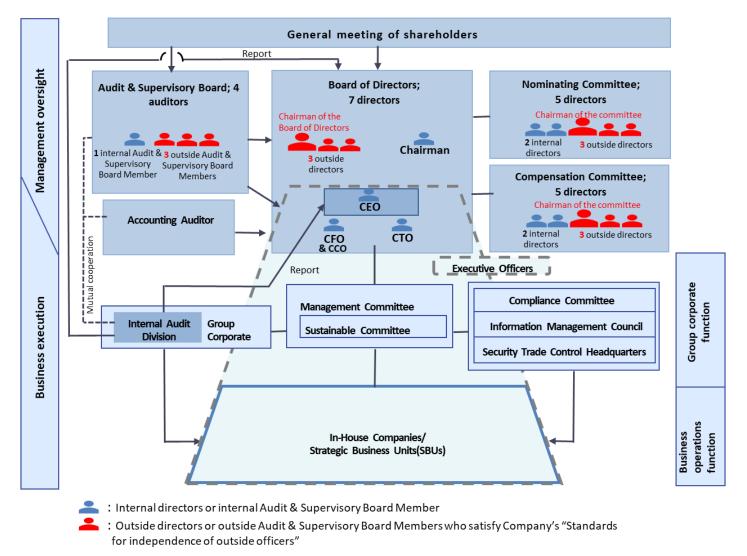
# Sustainability: create social value through healthy AGC corporate activities

Material risks	AGC Group corporate activities	Social value	Related SDGs
Addressing climate change	Continuous energy-saving, development of production technology/facilities to reduce GHG emissions, etc.	Contributing to the realization of a	7 まれギーをあんなに してりリーンに シンテト 12 つくる責任 ののう責任
Effective use of resources	Use of recycled raw materials/materials, Reduction of land, etc.	sustainable global environment	13 朱桃東部に 月休的な対策を
Creating a socially and environmental- conscious supply chain	Supplier selection based on respect for human rights/environmental protection	Contributing to the maintenance of a healthy and secure society	5 ジェンダー平等を 実現しよう をなくよう 10 人や田の不平等 たなくよう 10 たくよう そなくよう 10 人や田の不平等 たなくよう 10 人や田の不平等 たなくよう 10 人や田の不平等 たなくよう 10 人や田の不平等 たなくよう 10 人や田の不平等 たなくよう 10 人や田の不平等 たなくよう 10 人や田の不平等 たなくよう 10 人や田の不平等 たなくよう 10 たんしの たんしょう 10 たんしの たんしょう 10 たんしの たんしょう 10 たんしの たんしょう 10 たんしの たんしょう 10 たんしの たんしょう 10 たんしょう 10 たんしの たんしょう 10 たんしの たんしょう 10 たんしょう 10 たんしの たんしょう 10 たんしょう 10 たんし 10 たんしょう 10 たんし 10 たんし 10 たんし 10 たんし 10 たんし
Ensuring fair and equal employment and workplace safety	Reduce water usage, protect biodiversity, prevent environment accidents, supporter-making, etc.		
Considering relationships with local communities and the environment	Increase employee engagement, prevention of serious disaster/ accidents requiring a leave, etc.	Contributing to the creation of fair and safe workplaces	8 #2#VN 8 #2#RR

#### **AGC's Corporate Governance Structure**



#### < Effective as of March 30, 2021>



#### **External Evaluations**







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.

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