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Sumitomo Chemical



Contents



Corporate Strategy

Keiichi Iwata

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Representative Director & President









I-1 Performance Forecast for FY2020 vs. FY2019

			(Billions of yen)
	FY2020 Forecast	FY2019	Change
Sales revenue	2,215.0	2,225.8	-10.8
Core operating income	100.0	132.7	-32.7
Non-recurring items	5.0	4.9	0.1
Operating income (IFRS)	105.0	137.5	-32.5
Finance income/expenses, income tax expenses, and net income attributable to non- controlling interests	-75.0	-106.6	+31.6
Net income attributable to owners of the parent	30.0	30.9	-0.9
Naphtha price	¥28,900/kl	¥42,900/kl	
Exchange rate	¥107.47/\$	¥108.70/\$	

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I-1 Core Operating Income Forecast by Sector for FY2020 vs. FY2019

(Billions of yen)

	FY2020 Forecast	FY2019	Change	Change
Petrochemicals & Plastics	-33.0	14.5	-47.5	Weaker petrochemical markets, Petro Rabigh's periodic shutdown maintenance, and decreased shipment volumes due to Covid-19
Energy & Functional Materials	18.0	20.3	-2.3	Decreased shipment volumes due to Covid-19
IT-related Chemicals	36.0	25.1	10.9	Increased shipment volumes of semiconductor processing materials
Health & Crop Sciences	31.0	2.1	28.9	Higher market price for methionine and increased shipment volumes of crop protection products
Pharmaceuticals	51.0	75.3	-24.3	Increased up-front expenses for the strategic alliance with Roivant
Others	-3.0	-4.6	1.6	
Total	100.0	132.7	-32.7	

Shareholder Returns

Total dividends for FY2020 to be 12 yen per share



I-1





Priority issues for FY2020

 Carry through post-merger integration (PMI) for the large-scale M&As
 Focus on the further improvement of our business portfolio



I-2 Priority Efforts for FY2020: PMI for the large-scale M&As

Focusing	j on	post-mergei	⁻ integ	ration	for the
recent	ly ac	complished	large-	scale N	4&As

Strategic Alliance with
Roivant Sciences

Making good progress in the development of the acquired pipeline drugs (due to be launched in and after FY2020)

Building sales forces by leveraging the existing North American functions (Sunovion Pharmaceuticals) Acquisition of Four South American Subsidiaries of Nufarm

PMI being well under way amid the pandemic—system integration completed early through active communication via virtual meetings

I-2 Priority Efforts for FY2020: Further Improve Business Portfolio

Petrochemicals & Plastics	Energy & Functional Materials	IT-related Chemicals
 Enhance licensing and catalyst businesses Shift to high value-added resin products 	Maintain and strengthen stable revenue sources including alumina and resorcinol businesses	Further improve business portfolio through advancement and fusion of underlying technologies in the areas of displays and semiconductors
Develop businesses and technologies that contribute to reducing environmental impact	□ Take advantage of 5G and CASE and focus on expanding super engineering plastics and battery materials businesses	Drive optimization in response to changes in the LCD market to secure certain profit levels

I-2 Priority Efforts for FY2020: Further Improve Business Portfolio

Health & Crop Sciences **Pharmaceuticals** Accelerate development of post-Latuda blockbuster Global expansion, candidate drugs with a primary focus on South America and India **Relugolix:** prostate cancer expected to be approved Launch crop protection products in in the U.S. in December 2020 the pipeline, including B2020 and A2020, without fail **Vibegron: overactive bladder** expected to be approved in the U.S. in December 2020 Build a foundation for Urovant becoming Sumitovant strengthening biorational business **Biopharma's wholly-owned subsidiary** Sales: Established dedicated sales units in North America and Europe Sharing the data science and increased staff technology platforms, including

Development: Launched a biorational team in Health & Crop Sciences Research Laboratory

DrugOme, across the Sumitomo

Dainippon Pharma group to

accelerate digital innovation

I-2 Major Developments in the Past Half Year

Good News

Termination of Completion Guarantee for Rabigh Phase 2 Project Financing

Good progress in the development of pipeline drugs

Smooth progress in post-merger integration of the acquired South American crop protection business



Initiatives under Corporate Business Plan



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I-2 Accelerate the Development of Next-Generation Businesses

Four Priority Areas of the Corporate Business Plan



I-2 Accelerate the Development of Next-Generation Businesses

Corporate unit-led research × Business unit-led research

Advancing major development projects in each area

Major progress by area

Health care

Contract development and manufacturing organization (CDMO) for regenerative medicine and cell therapy

Established a Sumitomo Chemical-Sumitomo Dainippon Pharma joint venture

Reduction of environmental impact

Solid-type batteries

Launched an industry-academia joint research program with Kyoto University

Chemical recycling

Aim to commercialize all the three projects during the 2020s

Food

Biorational products

Established a SynBio hub in VBC of U.S.

ICT

Image sensor materials

Development of new materials for CMOS image sensors

I-2 Improve Productivity through Digital Innovation: DX Strategy 1.0

Significant improvement in efficiency and quality

in the areas of production, R&D, supply chain management and administration

DX Strategy 1.0

	Initiatives completed up to the previous Corporate Business Plan		Initiatives in progress under the current Corporate Business Plan	
				Improving the quality of production operations by leveraging AI and IoT
Distict Diset	Partial introduction of			technologies
Digital Plant	AI and IoT			Improving the efficiency and quality of R&D activities by leveraging AI
	Partial introduction of			Building MI into R&D activities
Digital R&D	Digital R&D Materials Informatics (MI)			Full-scale introduction of S/4HANA
Digital SCM	Partial introduction of S/4HANAPartial introduction of RPA Introduction of Office365			Job standardization and work style reform
(including marketing)				Full use of robotics
Digital Office				Measures to boost communication Promoting paperless operations

I-2 Improve Productivity through Digital Innovation: Examples of DX Strategy 1.0 Initiatives

Promoting advanced use of data collected from production facilities to achieve higher productivity in plant operations management



Examples of signs-of-facility faults detection systems



Use machine learning to detect signs of facility faults and put out an alert

Currently used in ${f 8}$ plants in

4 production sites and to be brought in phases to all the other plants

Improve Productivity through Digital Innovation: Our DX Strategy Milestones

Corporate unit-led efforts

DX Strategy 1.0

Improve productivity in four focus areas for DX

Generate extra capacity and reduce operation cost by streamlining processes

Improve quality and efficiency of functions and operations and share best practices across organization

Built in as continuous efforts

DX Strategy 3.0

Create new business models

Create new business models leveraging services and data and our core technologies

Improve our corporate value as leading DX-driven company

DX Strategy 2.0

Consolidate competitiveness of existing businesses

Enhance customer interface and improve customer satisfaction to create added value and expand market shares and sales

Cross-functional drive to optimize the entire supply chain

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Business

unit-led

I-2 Striving for Sustainable Growth

We will strive to achieve a significant improvement in performance in the next Corporate Business Plan period by ensuring PRC's stable operation and expanding sales of new pharmaceutical and crop protection products.



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Striving for Sustainable Growth

Outlook for performance improvement by sectors (core operating income)



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I-2

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I-3 Sustainability Efforts: What We Strive to Be



I-3 Sustainability Efforts: Contribution through Our Business

Contribution through our business (seizing opportunities)

Reducing environmental impact	Food	Health care	ICT
 Carbon cycle Chemical recycling Energy saving 	 Agrochemicals Biorational Methionine 	 Containment of infectious diseases via vector control Development of drugs for infectious diseases Regenerative medicine and cell therapy ··· 	 Meeting the needs of a super-smart society and smart mobility

Promotion of Sumika Sustainable Solution products

Provide solutions to build a sustainable society by promoting development and widespread use of Sumika Sustainable Solution products

KPI

Sales revenue of Sumika Sustainable Solution 560 billion yen (FY2021) (FY2019: 479.8 billion yen)

Examples of contributions to society

Contribution of Sumika Sustainable Solution products to GHG emissions reduction



Contributing to building a sustainable society through our business

I-3 Sharing Our Aspirations with Stakeholders

Sumitomo Chemical creates economic value and social value in an integrated way



Contribute to realizing a sustainable society through our business - Sharing our aspirations with stakeholders -

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Petrochemicals & Plastics Sector

Noriaki Takeshita

Representative Director & Senior Managing Executive Officer

















Social & Environmental Efforts 13

Prospective Business



Polyethylene (PE)

Resin used as a packaging material, a major product of the petrochemical industry

[Our features]

·Strengths in high quality protective films

·3 production bases in Japan/Singapore/Saudi Arabia



MMA (MMA-m/PMMA)

Resins with high transparency and excellent weather resistance, and their raw materials

[Our features]

·2nd largest market share in Asia, 4th in the world (MMA-m)



Polypropylene (PP)

Widely used resins for automobile parts and packaging materials, etc.

[Our features]

- ·Global operation of PP compounds for automobiles
- ·Strong in high-performance packaging applications



Propylene Oxide (PO)

Raw material for urethane used in automobile seats and furniture

[Our features]

Proprietary technology that does not produce co-productsPromoting licensing of the proprietary technology



II-1 Petrochemicals & Plastics Sector by Region

Location	Japan		
Positioning	•Development base for new products & technologies		
Challenge	 Response to aging equipment Strengthening licensing business 		
Location	Saudi Arabia		
Major affiliates	•Petro Rabigh (PRC)		
Positioning	•Refinery-Chemicals integration complex, taking advantage of low-co feedstocks and fuels		
Challenge	•Unstable profit and loss trends due t fluctuations in oil refining margin		

Capacity (KTA)	Japan	Singapore	Saudi Arabia
LDPE	172	255	150
LLDPE	183		600
HDPE			300
PP	307	670	700
РО	200		200
MMA-m	90	223	90
РММА		150	50

Location	Singapore
Major affiliates	 Petrochemical corporation of Singapore The polyolefin company Sumitomo chemicals Asia
Positioning	 Petrochemical business hub with strong customer base
Challenge	 Continue to add value to products Maintaining high share for leading customers

II-1 Petrochemical Market Conditions

Margins for petrochemical products peaked around 2016 and had been on a downward trend, but improved in 2020 despite COVID-19.



Performance Trends for the Petrochemicals & Plastics Sector



- The profit level of the Petrochemical & Plastics sector is affected heavily by petrochemical product market conditions.
- The profit and loss forecast for FY2020 is a large deficit, despite relatively favorable product market conditions, due to the deterioration of Petro Rabigh's business performance.

II-1 Petro Rabigh's Performance

FY2020 (unit; USMM) Jan.-Mar. Apr.-Jun. Jul.-Sep. Income before tax -547 -304 -168 Major causes for deterioration Scheduled **Margin reduction** Crude oil price plunge Maintenance due to COVID-19 All these events hit during the scheduled maintenance period in Mar.-Apr. - unprecedented and extremely special situation **Future outlook** FY2020: Scheduled maintenance completed. Product margins recovering, deficit shrinking FY2021: Impact from special events will diminish. Improving profit & loss by continuing stable operations

IR Day: Petrochemicals & Plastics

Rabigh Phase II Project – Resolved completion guarantee in Sep. 2020

Progress of the Phase II Project



Investment and Completion Guarantee



IR Day: Petrochemicals & Plastics



Overview of the Petrochemicals & Plastics Sector 03



Social & Environmental Efforts 13

Prospective Business

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Π-2 **Licensing & Catalyst Business**

Expansion of Technology Licensing Business

Propylene Oxide Technology Caprolactam Technology Licensed to 4 Plants at 4 Companies **2020: Entry to Licensing Business** (As of 2020) World's first vapor-phase Beckman Energy saving & environmental-friendly rearrangement process World's first co-product-free process Ammonium sulfide free High performance catalyst **Catalyst Manufacturing Plant HCI Oxidation Technology** (Chiha Works) Licensed to 10 Plants at 6 Companies (As of 2020) Recycling of by-products Significant energy savings PE & PP Technology

- Wide range of polymer grades and portfolio
- High performance catalyst

Started-up	
PE•PP Cat.	2019 3Q
PO Cat.	2019 4Q

Stable profit through technology licensing and catalyst sales

II-2 High Value-Added Polymers





II-3 COVID-19 Countermeasure Products

1) Product introduction

Transparent acrylic cast sheet: Sumipex

Transparent acrylic ext. sheet: Sumipex E

Features: Excellent transparency,

scratch resistance,

weather resistance, suitable for long-term use.

Example uses: Store/reception counters, restaurants, hospitals, schools, etc.





COVID-19 Countermeasure Products II-3

3) Expanding the functionality of acrylic sheets

- > Increased demand for antibacterial and antiviral materials due to COVID-19 situation
- > Providing solutions through technical collaboration with Sumika Environmental Science Co., Ltd. (antiviral agent).



II-3 Global Warming Initiatives ①

Promote fuel conversion to reduce CO₂ emissions in major domestic production bases (Ehime & Chiba)







Composite image: LNG terminal at the Ehime works



II-3 Global Warming Initiatives 2



Contributing to reducing global warming by licensing energy-saving processes



II-4 Prospective business

Aiming at a Decarbonized Society, Circular Economy

Plastic products make our lives richer and more convenient, but there are issues with both the carbon footprint caused by consuming petroleum as a raw material and with how to handle and reuse waste plastic products.

Area	Direction of business		
Addressing	Contribute to reducing GHG emissions		
Change	Use biomass-derived raw materials		
Reducing	Contribute to reducing waste plastics		
Environmental Impact	Contribute to reducing impact in food production		
Effective Use of	Implement carbon resource recycling		
Resources	Expedite carbon capture and utilization technology		

Direction of R&D

We strive to promote R&D in plastics products that contribute to the 3 Rs (Reduce, Reuse, Recycle), and to enhance their environmental friendliness and utility value.

Lighter Packaging

Promotion of Reusable Products

Development of technology to utilize waste plastics and captured carbon

II-4 Materials Recycling Technology Automotive materials



II-4 Chemical Recycling Technology



Produce plastics from waste plastics or garbage instead of fossil resources

1 Alliance with SEKISUI	② Joint research with	③Joint research with
CHEMICAL	Muroran Inst. Tech.	Shimane Univ.
RMGarbage, waste plastics, biomassProd.PolyethyleneReact.Gasification \rightarrow ethanol (by microbes) \rightarrow PE	RM Waste plastics Prod. Ethylene, propylene React. Catalytic cracking	 RM Garbage, waste plastics, biomass Prod. Methanol React. Catalytic synthesis of CO₂ and H₂

Energy & Functional Materials

Kingo Akahori

Representative Director & Managing Executive Officer





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III-1 Vision for Energy & Functional Materials

Contribute to Solving Environmental and Energy Issues through Innovative Technologies

Active injection of resources into growing businesses





✓ Improve profitability of underperforming businesses and products

Create new businesses in the fields of environment, energy, and high-performance materials

III-1 Product Groups by Sector



Sector Performance



- ✓ Fiscal 2019 revenue and profit decreased from the previous year, impacted by lower market prices for aluminum and decreased shipments of heat-resistant separators.
- ✓ Fiscal 2020 earnings are expected to deteriorate, affected by decreased automotive demand due to the coronavirus pandemic.

1 Sector Earnings Forecast

Boosting earnings power by playing a part in specialty chemicals

Current Priority Management Issues and Business Strategy (May 2020)

- Core operating income (JPY bn)
 - Energy & Functional MaterialsIT-related Chemicals

- ✓ Secure and enhance profits in businesses with stable earnings (Resorcinol, Alumina, etc.)
- While at the same time,
- ✓ Increase earnings power by actively injecting resources in growing areas in a timely manner

				Active injection of resources		
		30		Battery	 Active investment in proportion to market expansion 	
18				materials	 Accelerate development toward commercialization of next-generation batteries 	
36		50		5G/ mobility	 Super engineering plastics Expand LCP sales for materials such as those needed in high frequency infrastructure 	
Fiscal 202 (forecast	20 Fis 2) (p	scal 202 planned)	X)		 Expand sales of automotive materials for lightweight vehicles 	

III-1 Preventing the Spread of the Coronavirus

Supplying raw materials for antiviral drugs (Koei Chemical Co., Ltd.)

Building a supply systemEnsuring prompt and stable supply

Avigan® (RM: Pyridine) Remdesivir (RM: Pyrrole)

Fulfilling social responsibility to help abate the coronavirus pandemic

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II-2 Positioning of Major Products



Areas for active injection of resources

- Super Engineering Plastics
- Heat-resistant separators
- Cathode materials





Areas for 2 active injection of resources

- Super Engineering Plastics
- Heat-resistant separators
- Cathode materials

2 Maintain/Enhance Stable Revenue Sources

Use product groups with the global top share to secure stable earnings

Main usage

Sapphire use (LED substrate, crystal of watch)

Components for semiconductor manufacturing

Lithium-ion secondary battery materials

Heat-dissipating fillers for resin

Alumina/ High Purity Alumina



Provide high value-added products, using particle size and shape control technology

Adhesives for tires

equipment

Ultraviolet ray absorbers

Resorcinol

Fire retardants



Maintain a stable supply system through multiple production facilities (Chiba, Oita).

Maintain/Enhance Stable Revenue Sources (High Purity Alumina)

Our High Purity Alumina Lineup



IR Day: Energy & Functional Materials

2 Maintain/Enhance Stable Revenue Sources (High Purity Alumina)

✓ 40 years from the start of production, we are aiming to solidify global top market share status, and accelerate growth even further

Market needs

- High strength, high corrosion resistance, and high heat resistance
- Ultrafine, uniform qualities, and stable supply

Our own technology

- Particle size precision control technology
- Highly productive manufacturing method

NXA (Ultrafine Alumina)

- World-first mass production of alpha alumina with a particle size of 0.0001mm
- Achieved fine and uniform particle distribution
 ⇒ Expanding use to precision abrasives and dental materials in addition to existing uses



Moving on to the medium volume trial production phase with an eye to launching in fiscal 2022

Maintain/Enhance Stable Revenue Sources (Resorcinol)

Strengths in the Resorcinol Business

Reliability

- Multiple production facilites (Chiba, Oita)
- Global stock points

Stable Demand

 Adhesives for tires, ultraviolet ray absorbers, pharmaceuticals, crop protection products, etc.

Clean Process

- Less energy consumption per unit
- Low effluent load



Fulfill responsibility for stable supply as the world's top manufacturer
 Accelerate business growth by expanding into diverse uses, such as pharmaceuticals, crop protection products, and feedstock for resin





2 Areas for active injection of resources

- Super Engineering Plastics
- Heat-resistant separators
- Cathode materials



- Heightened need for better fuel performance and for lightweight components
 - \Rightarrow Multi-material car body with the use of resin, etc.

Applicable components (including candidate components)





Increasingly adopted for use as materials replacing metal automotive components

- Super Engineering Plastics (PES/LCP) are well positioned as components where <u>heat resistance, dimensional accuracy, thin design, and</u> <u>sliding performance</u> are required in addition to lighter weight.
- Proposing designs that leverage the processability and functionality of super engineering plastics













Second stateSecond state</

For a full-scale implementation of millimeter wave range

 Performance required for 5G-compatible components

> Low transmission loss

Technology to process signals and communications without deterioration

4G **5G**

G



Making arrangements for 5G penetration (Super Engineering Plastics)

Our proprietary technology

- Molecular structure design, synthesis technology
- Mass production technology for soluble LCP
- Compound design, mass production technology
- Machining support technology utilizing material properties

We flexibly provide **materials with optimal transmission properties**, using a permittivity control method based on low dissipation factor performance due to our proprietary molecular designs.

Circuit board applications

 Adopted as a film substrate material for smartphones

Provided in 2 types of LCP

Solution type: Solution casting method (applicable to PI process)

Melting type: Inflation, extrusion

Connector applications

 Adopted for use in high-speed data transmission connectors for data centers

Expanded permittivity control grade

Provide materials that enable both low transmission loss and flexible impedance matching performance

II-2 For Future Business Expansion (Super Engineering Plastics)

Expand business by supplying materials widely considered indispensable for growing industries such as the automotive industry and IT/Telecommunications.

Target sales revenue for Super Engineering Plastics business







Need for EVs is expected to increase in the future.

Expanding Demand for Electric Vehicles (Battery Materials)

Trends in lithium-ion secondary batteries (LIB)

LIB market expansion along with the spread of EVs

Expansion of battery capacity for longer cruising distance in EVs

Tighter pricing





Excellent safe performance of aramid-coated separators contributes to increasing the capacity of LIBs.
2 Expanding the Battery Business in the EV Market (Battery Materials - Separators)

Approach for business expansion



Increase cost competitiveness and expand LIB business

-2 Expanding the Battery Business in the EV Market (Battery Materials - Cathode Materials)

Sumitomo Chemical

Highly productive calcination process



- Tanaka Chemical
- Automotive precursor manufacturing technology
- Expertise with mass production

Business expansion through group synergy

To capture expanding demand

- Y Promote joint development of high-capacity cathode materials
- Consider installation of calcination equipment

Recent Initiatives at Tanaka Chemical	Expanding fac	cilities
Sales Concluded sales and manufacturing technical support agreements with a European battery manufacturer	Phase 1 Expand main raw material melting facilities	Oct. 2018
Manufacturing Completed phase 3 expansion in September 2020, started operations.	Phase 2 +1,200t/month Phase 3 +1,200t/month	Jul. 2019 Sep.2020





Expand battery materials business with 2 components: heat-resistant separators and cathode materials

IR Day: Energy & Functional Materials





Toward the implementation of next-generation batteries for EVs (Solid-type batteries)



III-3 Trends in Battery Components: Higher Capacity

Breaking through safety and productivity limits is a must for higher capacity batteries

	Current solution LIBs (up to 2025)	Improved solution LIBs (2020 to 2030)	Next-generation batteries (from 2025)
Energy density	100Wh/kg	250Wh/kg	500Wh/kg
	Current components	Example of technological development	Candidates for next-generation batteries
Cathode Materials	Middle Ni, Iron phosphate	High Ni, Cobalt-free, Nickel-free, Lithium-excess	1 Solid-type batteries
Anode materials	Graphite (+silicone)	Silicone, aluminum, lithium	(2) Other batteries
Separator	Aramid, Ceramic	Resistance to high voltage	Lithium-oxygen batteries
Electrolyte	LiPF6/EC	Ionic liquid, higher concentrations	lithium-sulfur batteries

Development of Solid-type Battery Materials (Sumitomo Chemical)

Development-I: Cobalt-free Cathode Materials

Designing high capacity and high output materials based on the findings accumulated with **Enervio**®

Composition: NCM 3/0/1Particle size: D50 = 5 μ m Change in crystal axis length is small up to high-voltage region. Even with a 4.5V charge, the materials show high cycle characteristics.



Development of Solid-type Battery Materials (Sumitomo Chemical)

Development-II: Cathode material surface-coating technology

✓ Role of coating: It does not inhibit the movement of Li⁺ but suppresses reactions between cathode materials and the electrolyte.

Ideal coating: thinly and uniformly covers all surfaces of cathode materials.



Achieved a uniform coating layer with the thickness of a few nanometers.

IR Day: Energy & Functional Materials

Development of Solid-type Battery Materials (Joint development)

The course on joint research between industry and academia at Kyoto University

Opened in April 2020 for joint development of materials for solid-type batteries (cathode materials, solid electrolytes, etc.) and optimal designs for solid-type batteries

- \checkmark Expand ideas through the deepening of discussions with professors at Kyoto University
- \checkmark Validate utility with sample synthesis and the evaluation of actual battery performance
- ✓ Aim to complete development of materials for solid-type batteries in 2023



IT-related Chemicals

IV

Masaki Matsui

Representative Director & Managing Executive Officer







IV-1 Business Overview: Our Major Products

	End Market	Our Customers	Our Products	
Disp			Cover window films	Touchscreen panels
lays		LCD panels OLED panels	Polymer light- emitting materials	Color resists
Semi-conductors			Compound semiconductor epiwafers	Processing chemicals

Developing business primarily in both display-related materials and semiconductor materials

Business Overview: Manufacturing and Sales Locations



Building a business network centered in East Asia, an area with a high concentration of display-related and semiconductor industries

Business Overview: Display-related Materials Business

Interface between people and ICT technology

- Contribute to creating displays with outstanding portability, visibility and operability
- Deliver high-value-added products by combining our material development capabilities with our optimization technology



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V-1 Business Overview: Semiconductor Materials

Infrastructure supporting modern society with ultra-microfabrication technology

• Contribute to the continuous evolution of microfabrication technology with super high-quality chemicals

1 Wafer cleaning	2 Metal-Film deposition	3 Resist coating Our products
Processing chemicals		Photoresists
Silicon wafer	Metal thin film	Photoresists
4 Exposure	5 Development	6 Etching
↓↓↓ Photomask↓↓↓		
7 Resist stripping	8 Cleaning	9 Drying
	Processing chemicals	Processing chemicals

IR Day: IT-related Chemicals

Business Overview: Compound Semiconductor Materials

Key technologies for Society 5.0





Business Strategy for FY2019-FY2021: Further Improvement of Our Business Portfolio

	Major Issues	Action Plan
Display-related Materials	Maximize profit by restructuring & focusing on high value-added products	 Polarizing films for LCD Optimization of global supply chain Products for smartphones Secure a share of the high-end market by utilizing core materials developed in-house Touchscreen panels Diversify product portfolio Polarizing films for LCD Restructuring Restructuring Restructuring Focusing on high value-added products
Semiconductor	Secure growing demand by utilizing advance investment	 Enhance systems of production, development and evaluation for photoresists Invest in processing chemicals in China
Materials	Diversify product portfolio	 New processing chemicals or compound semiconductors for power devices etc.
Next-generation	New products by increasing the sophistication of core in-house technology	 Products for image sensors and next-generation displays etc.
Businesses	Approaches to adjacent markets based on open innovation methods	 Products developed by utilizing technologies from touchscreen panels and compound semiconductors etc.



V-3 Financial Statements



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Market Environment: Display-related Materials

Market assumptions	New Current situation		Impact on our business (est.)			
for FY2019-FY2021	factors		2019	2020	2021	
 TV Displays: Number of TV sets remains almost the same, TV display size continues to get larger (Growth rate: YoY+4%) 	Market Reorganization	 Market shift to China accelerates (Korean panel manufacturers withdraw or downsize LCD-TV business) 	Slight	COVID -19 special demand	Moderate	
 Mobile Displays: Number of smartphones remains almost the same, units with OLED display increase (27% in 2018 -> 48% in 2021) 	COVID-19	 Market stagnates (especially in high-end) Increase in OLED units slows down (40% in 2021) 	_	Moderate	Slight	





IR Day: IT-related Chemicals

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Market Environment: Display-related Materials



Balance of supply/demand for mobile OLED panels (Source: Omdia, DSCC)



- Global supply capacity of large LCD panels is concentrating in China
- Market reorganization is going on within China (Consolidating to 2 major Chinese panel manufacturers)

Suppliers of LCD-related materials will be faced with fiercer competition

- Active investment by Chinese panel manufacturers
- Slower growth of the end market of OLED smartphones than expected

Demand for differentiation to provide additional value becomes stronger due to the expanding supply/demand gap

-4 Market Environment: Display-related Materials



The increasing sophistication of LCDs and the development of next generation self-luminous displays are progressing in parallel

Market Environment: Semiconductor Materials

Market assumptions	New	Current cituation	Impact on our business (est.)			
for FY2019-FY2021	factors	ctors Current situation		2020	2021	
 Steady market growth accompanying digital 	COVID-19	 Demand stays firm on the whole, although some categories are affected by COVID-19 	_	Slight	Slight	
transformation (Growth rate: +4%/year)	US-China trade war	Demand for cutting-edge products is very strong, and supply/demand balance is tight	Slight	Slight	Slight	
Semiconductor Market (Source: WSTS)						



IR Day: IT-related Chemicals

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4 Market Environment: Semiconductor Materials

	2017	2018	201	9	2020	20	21	2022	2023
DRAM line-width generation	1X	1Y			1Z		1a	a	1b
Logic line-width generation	10nm	7nm / 7nm+	5n	ım			3nm		
Applicable			In	nmersior	n ArF phot	oresist	S		
photoresists					EUV	photor	esists		
Number of NAND Layers	48 layers	64 layers		92 layer	s	128 l	ayers	≧192 layer	rs
Applicable Photoresists	KrF			KrF	thick film	photo	resists		
Rewiring technology	Wire b Flip-chip	onding bonding			FOWL	P (*1)			FOPLP (*2)
Applicable photoresists					I-line th	ick film	n photo	resists	
				*1 Fa	an Out Wafer	Level Pa	ickage	*2 Fan Out Par	nel Level Package

Line-width shrinking and multilayer structures are required to achieve semiconductor performance improvement





Expand existing businesses

Increased sophistication of in-house core technologies and multifunctional materials, fusion of display-related and semiconductor materials technologies



Progress on Major Issues: Display-related Materials for OLED Displays

Major Issue	Action Plan	Progress
Focusing on	 Secure a share of the high-end market by utilizing core materials developed in-house 	Full-fledged mass-production of polarizing film with in-house LC* coating retardation for OLED smartphones has started
high value-added products	 Expand touchscreen panel product portfolio 	See "Progress on Major Issues:
	 Develop products for flexible displays 	Vew products" section

Element technology	2018	2019	2020	2021		
Delevizor	Stretched PVA					
Polarizer	LC* coating (In-house)					
Dotoudation film	LC* coating (Procurement)					
Relargation film	LC* coating (In-house)					

* LC: Liquid crystal

Continue to secure high market share with a wide-lineup of polarizing film materials for OLED displays

Progress on Major Issues: Display-related Materials for LCDs

Major Issue	Action Plan	Progress		
Market shift to China	 Design polarizing films to meet the requirement of Chinese panel manufacturers 	Lower shrinkage stress & improved permeability of polarizing film with acrylic protective film		
Restructuring	 Optimize our global supply chain 	Optimization of product allocation of polarizing film for LCD-TVs has made some progress		
Focusing on	 Secure market share in extra-large sized TVs and PIDs* (polarizing film) 	Roll to Panel" lines for extra-large sized panels have been installed in customer factories		
high-end LCDs	 Achieve wide color gamut & high color reproduction (color-resists) 	Development of new color materials for high- end LCD-TVs (8K, Mini-LED etc.) has started		

* Public Information Displays



Focus our resources effectively on promising fields (ex. next-generation displays) while keeping some profit in conventional business fields



Progress on Major Issues: Semiconductor Materials

Major Issue	Action Plan	Progress				
Secure growing	 Expand production capacity for immersion ArF photoresists 	Full-fledged operation has started from the July- September quarter of 2020				
demand by utilizing advance investment	 Enhance the development and evaluation system of photoresists for cutting-edge processes 	Plan to start in the April- September period of 2022				
	 Invest in a processing chemical plant in China 	Ø Operating stably				
Diversify product portfolio	 Expand sales of EUV photoresists Develop compound semiconductors for power devices 	See "Progress on Major Issues: New products" section				



Secure market share by providing highperformance and high-quality chemicals needed for enhancing the density of semiconductors (line-width shrinkage and multilayer structures)

Progress on Major Issues: New Products (Foldable Display Materials)



Foldable display materials

	Our products	Competitor
Display cover < materials	Clear resin film	Ultra thin glass
Polarizing film	LC-coated polarizer/	Stretched/coated- PVA polarizer
Touchscreen panel (TSP)		
	Flexible TSP (Add-on)	On-cell TSP (Manufactured by panel mfr. in-house)

Our position

- Have a wide-lineup of foldable display materials
- Have advantages in optimization of product properties by utilizing organic synthesis technology

- Action Plan
 - ☑ All products already have been launched separately
- Progress Prepare to launch multi-functional materials in 2021

Secure market share in foldable display materials

IR Day: IT-related Chemicals

Progress on Major Issues: New Products (5G Antenna on Display)



Progress on Major Issues: New Products (Polymer Light-emitting Materials)



IR Day: IT-related Chemicals

V-5 Progress on Major Issues: New Products (EUV Resists)



IR Day: IT-related Chemicals
V-5 Progress on Major Issues: New Products (Image Sensors)



IR Day: IT-related Chemicals

Progress on Major Issues: New Products (Next-generation Power Semiconductors)





IV-6 Long-term Targets



Health & Crop Sciences Sector

Nobuaki Mito

Representative Director & Managing Executive Officer







Performance Outlook

Health & Crop Sciences Sector



Consolidated Performance Trends in the Health & Crop Sciences Sector







Contribution to the Containment of 05 Infectious the Disease Pandemic



Performance Outlook

4

03

2 Contribution to the Containment of the Infectious Disease Pandemic

SanTerra Co., Ltd. Material for medical gowns (PE Film)



Sumitomo Chemical Garden Products Inc.

Household antiviral disinfectants spray



Sumika Environmental Science Co., Ltd. Antiviral agents

【ネオシントールAV-18F 処理製品表面】



Contribution to solving the supply shortage of medical PPE in clinical environments Contribution to improving

household hygiene

Contribution to enhancing public health (e.g. surface treatment for buttons on a vending machine)



Long-Term Vision for the Health & Crop Sciences Sector



Business Growth Strategy Aligned with Long-Term Vision

Key Words for the Growth Strategy

Global Innovation







- Progress update on the AgroSolutions business expansion in LATAM & India
- Progress update on the **AgroSolutions product** development pipeline
- Next Generation Tech-development : Access to Synthetic Biology
- **Digital Transformation (DX)** in domestic Aq-Market
- Strengthening the **Biorational** business

Business Creation

Differentiation



- Creating and expanding an **Antiviral-product business**
 - Expanding our **product portfolio in the Animal Nutrition business**
- Business development in Nucleic Acid medicine

Global Business Expansion: AgroSolutions





IR Day: Health & Crop Sciences

Global Business Expansion: AgroSolutions Business in LATAM



Acquired 4 subsidiaries of Nufarm in LATAM (Brazil, Chile, Argentina and Columbia)



PMI Progress (Acquisition of Nufarm LATAM)



8 6-8

Completed onboarding for over 700 employees. Sumitomo Chemical's history & spirit deeply shared through active participation by SCC management





Over 75 people involved in the project, divided into 20 functional working groups



Over 200 policies and procedures were mapped and analyzed across all functional areas

Over 250 virtual meetings held across all people engaged in the integration project



174 milestones and 851 activities mapped in the integration plan – roughly half of those milestones completed



Early realization of cost synergies & cost reduction due to smooth integration of IT systems (SCM, CRM, etc.)



Global Business Expansion: AgroSolutions business in India



AgroSolutions Market in India

Growing at 7 to 8% per year



Initiatives to achieve synergies from integration

Develop and Launch <u>new mixture products</u>

Combine Sumitomo Chemical's proprietary products with the former ECC's generics.

• <u>Utilize former ECC manufacturing facilities</u> Plan to manufacture some of Sumitomo Chemical's products in India to secure supply capacity in the existing plants in Japan

Promote digital marketing

Expand sales in India by using social media and smartphone apps to reach end-users, many of which are small-scale farms

Strengthen the Biorational business

Promote the introduction of new products by working closely with Valent BioSciences

Aiming to be a leading AgroSolution products company in India's rapidly growing market

IR Day: Health & Crop Sciences



AgroSolutions Pipeline Outlook



B2020

Compound	Use	Evaluation	Full-scale development	Registration	Market Launch
INDIFLIN [™] (inpyrfluxam)	Agricultural fungicide e.g. Soybean rust			☑ Registered in Japan	Launched in Japan in 2020 Scheduled to be launched in LATAM in 2021
PAVECTO TM (methyltetraprole)	Agricultural fungicide e.g. Septoria		☑ Completed	☑ Registered in Japan	Scheduled to be launched in Japan in 2021
ALLES [™] (oxazosulfyl)	Agricultural insecticide e.g. Major rice pests etc.			☑ Submitted	Scheduled to be launched in Japan in 2021
<i>Name - TBD</i> (pyridaclomethyl)	Agricultural fungicide e.g. Field crop & vegetable diseases		☑ Completed ☑	2 Submitted	

A2020

Pipeline A	Agricultural plant growth regulator] Submitted	
Pipeline B	Next generation herbicide effective against herbicide-resistant weeds		Full-scale development in progress		
Pipeline C	Botanical insecticide for agriculture and household hygiene		Full-scale development in progress		
Pipeline D	Agricultural insecticide to control insecticide-resistant Pests	Evaluation in progress			

Potential sales: Approx. JPY150-200 billion in total

Development of Next-generation Technologies



Introduction of new technology to strengthen core R&D capabilities

Technology development for creating new business



Discovery of new chemical substances

- AI (Docking simulation)Target-based screening
- Technology introduction promoted by open innovation approach

Chemical Processes

- Utilize AI
- Flow process



Applications



- **Utilize drones**
- Utilize sensing technologies
- Utilize eco-friendly materials for product design

Biorationals/Botanicals



- Evaluate & introduce natural plant-based products
- Utilize synthetic biology
- Innovative fermentation process technologies

Crops/Agriculture

- Develop a new variety of rice
- Phenotyping
- Plant growth prediction

Next-generation Technologies for the Biorational Business





3 Long-term Biorational Growth Drivers





IR Day: Health & Crop Sciences

Strengthening the Biorational Business





Business Management Structure

Contents

- Streamline management layers to enable more swift strategic decision-making & resource allocation.
- Establish and strengthen SSBUs(Sstainable Solution Business Units), dedicated teams for Biorational demand creation in key countries / markets.
- ✓ NAFTA: Significant increase in personnel for SSBU
- ✓ LATAM and Europe: SSBU newly established
- Harness technological innovation in <u>Synthetic Biology</u> for Biorational R&D activities (e.g. cost-reduction projects for existing products, novel product development and launch)
- <u>Establish Biorational Team</u> in H&CS Sector Research Lab to accelerate pipeline development

Accelerate launch of 6 pipeline products in later development stages (PGR 4, Bioinsecticide 1, Rhizosphere 1)



Agricultural Digital Transformation (DX) in Japan

We aim to build a digital information platform which can provide Japanese growers with useful & valuable information, which will enable us to find solutions for various challenges (e.g. aging population, frequent abnormal weather conditions, labor shortages, etc.) that domestic agri-business is currently facing



Innovation

Create & Expand an Antiviral-product Business





- Improve quality of existing active ingredients
- Discovery / development / introduction of new active ingredients

(e.g.) Natural plant extracts





 ✓ General-purpose plastic films (buttons / touch panels on vending machines, elevators, etc.)

✓ Smartphone case

Product

portfolio

expansion

Development of applied

technology for resin /

Development of devices

✓ Optical film

coating use

(e.g.)

Sales expansion

 Coordination & collaboration with Sumitomo Chemical's group companies, such as Sumika Environmental Science Co., Ltd.







神東塗料

Creating a new, core business pillar in the Environmental Health Division in response to societal demand for COVID-19 containment

Action items

On-going Profit Improvement Activities in the Methionine Business

Manufacturing

- Increase output with minimal CapEx
- Shut down aging facilities to save maintenance costs
- Cost reduction



Procurement

 Reducing the purchase price of key raw materials



Logistics

- Inventory management with DX
- Rationalization of international shipping costs

Sales & Marketing

- Optimization of focused sales territories / key accounts
- Efficient use of sales force



Promote the Nucleic Acid Medicine Business (1)



□ Supply active ingredient of nucleic acid drug for Covid-19

- Bonac Corporation and Fukuoka Institute of Health & Environmental Sciences are jointly screening candidate substances that can disintegrate virus genes
- A candidate substance will be selected by the end of 2020. Production will commence in early 2021.



Promote the Nucleic Acid Medicine Business (2)



□ Supply long-chain RNA for genome editing use

- Supply long-chain RNA for Crispr-Cas9 genome editing technology (which won the Nobel Prize in Chemistry in 2020)
- The only technology in the world that enables the manufacture of a large amount of high-purity long-chain RNA under GMP conditions





4 Top-line Growth Going Forward



Vision for Revenue Growth



Performance Outlook in the Health & Crop Sciences Sector



Pharmaceuticals Sector

Takashi Shigemori

VI

Director & Senior Managing Executive Officer



1	Business Environment and Progress of Action Plan	03
2	Development of Next-generation Businesses	11
3	Efforts to Prevent the Spread of Infectious Diseases	17





VI-1 Business Environment

Environment

Opportunities

- Global healthcare and pharmaceutical markets continue to expand
- Emergence of new therapeutic approaches through technological innovation (preemptive, individualized and regenerative medicine)

Threats

Shortage of healthcare finances

- Competition with generic drugs after the loss of exclusivity (Risks: Latuda®, FDG-PET)
- Entry of new players across industries into healthcare business spaces
- Decline in industry-wide R&D productivity

Group Initiatives

- 1. Offering New Value in Medical Practice through New Technologies
- Regenerative medicine and cell therapy
- Theranostics (fusion of diagnostics and therapeutics)
- 2. Timely Launch of Next-generation Products
- Continuous expansion of promising pipeline through in-house drug discovery and in-licensing

Drastic reinforcement through strategic alliance with Roivant

- 3. Improving R&D Efficiency and Increasing the Probability of Success
- Strengthening in-house R&D capability through various approaches, such as digital technology and big data

💠 Sumitomo Chemical

VI-1 Business Strategy: Pharmaceuticals Sector

FY2019-FY2021 Corporate Business Plan

Action plan & major issues

- Maintain profitability after Latuda's loss of exclusivity
- Enhance drug discovery capabilities and improve the success rate in R&D



- Strengthen innovation base with new approaches to drug discovery
- Launch new products in oncology
- Explore opportunities in frontier businesses (healthcare solutions)
- Develop theranostics business and strengthen the competitiveness of existing radiopharmaceutical business
- Expand group synergies in the pharmaceutical business



- Strategic Alliance with Roivant Sciences
- Acquired late-stage assets
 Post-merger integration is progressing, including
 development of strategic pipeline and establishment of
 sales structure utilizing existing North American
 business bases.
- Acquired data science technology platforms, such as "DrugOme," to accelerate digital innovation
- Launched sublingual film for the treatment of Parkinson's disease off episodes
- Continuing clinical trials of napabucasin for colorectal cancer
- Promoting R&D of new healthcare solutions using cognitive activation therapy and biological sensing technology
- R&D site for radiopharmaceuticals will be operational in 2020.
- Establishment of S-RACMO Co., Ltd., a new CDMO company for regenerative medicine and cell therapy, and development of novel drugs for infectious diseases.
Pipeline for Pharmaceutical Agents and In-vivo Diagnostic Agents

Product Launch Targets



IR Day: Pharmaceuticals

💠 Sumitomo Chemical

Progress in Strategic Alliance with Roivant Sciences: Pipeline Development

Current development status of strategic pipeline

Product	Indication	Current development status	Expected schedule for NDA or approval	
	Prostate cancer	NDA submitted (US)	PDUFA date Dec. 2020	
Relugolix Myovant	Uterine fibroids	NDA submitted (US, EU)	PDUFA date June 2021	
	Endometriosis	Phase 3	Plan to submit NDA in FY2020 4Q (at earliest)	
Vibegron Urovant	Overactive bladder (OAB)	NDA submitted (US)	PDUFA date Dec. 2020	
	OAB in men with benign prostatic hyperplasia	Phase 3	Plan to submit NDA in FY2021 4Q (at earliest)	

Progress in Strategic Alliance with Roivant Sciences: Post-Merger Integration etc.



(Released on October 30, 2020)

Performance Trends

- Sales of pharmaceutical agents remain generally strong regardless of the influence of COVID-19
- On the other hand, the number of laboratory tests for in-vivo diagnostic agents is lower due to the avoidance of medical consultation and restriction of lab tests because of COVID-19
- Higher SG&A and R&D expenses due to the alliance with Roivant, with newly acquired drugs yet to be launched

Risks and Challenges

- Delay in sales expansion of newly-launched products and in recovery of the number of lab tests, caused by the recurrence or prolonged epidemic of COVID-19
- Delay in determining the results of the Phase 3 clinical trial for napabucasin because of the influence of COVID-19
- Increase in upfront investment in late-stage pipeline for smooth market entry

The impact of acquiring 100% ownership of Urovant announced in Nov. is being examined.

FY2020 Forecast (Billions of yen)

Sales revenue

535.0

Core operating income 51.0

Variable Factors of Core Operating Income

(FY2019 Results against FY2020 Forecast)



IR Day: Pharmaceuticals

Mid- to Long-Term Outlook for the Pharmaceuticals Sector

Investors' Meeting for the Current Priority Management Issues and Business Strategy on May 28, 2020



Expecting to overcome the LATUDA cliff and achieve long-term growth, after initial years of increased expenses and lower operating income, due to the investment in the alliance with Roivant

Major changes in the past 6 months

Initiatives in the Group



Upward revision of FY2020 results

Core operating income





Promotion of sharing Sunovion's capabilities

Use of Sunovion's distribution channels (Myovant, Urovant)

Expansion of access to general practitioners (Urovant)



Acquired 100% ownership of Urovant

Timely provision of operating & growth funds

Maximize group synergies



Business Environment and Progress of Action Plan 03

2 Development of Next-generation Businesses 11

Efforts to Prevent the Spread of Infectious Diseases

17

Creating New Value through Group Synergies VI-2



1 Regenerative Medicine and Cell Therapy

Proposed indication, etc.	Partners	Region (planned)	Cell type	Status	
Pediatric congenital athymia (RVT-802)	-Duke University	Global	Cultured thymus tissue	Under preparation to resubmit BLA	
AMD (Age-related macular degeneration)	-Healios -RIKEN	Global	Allo iPS cell-derived retinal pigment epithelium	In progress: clinical research Preparing to start clinical study (Japan)	Planned schedule FY2020
Parkinson's disease (Designated as a "SAKIGAKE")	-Kyoto University -CiRA	Global	Allo iPS cell-derived dopamine neural progenitor	In progress: investigator-initiated clinical study (Phase 1/2 study) (Japan)	Launch schedule FY2022*
Retinitis pigmentosa	-RIKEN	Global	Allo iPS cell-derived photoreceptor (3D)	In progress: clinical research	
Spinal cord injury	-Keio University -Osaka National Hospital	Global	Allo iPS cell-derived neural progenitor	In progress: clinical research	
Kidney failure	-Jikei University -Bios -PorMedTec	Japan, North America	Auto/Allo iPS cell-based differentiation-induced nephron progenitor cells (organ)	In progress: pre-clinical research	

* Launch schedule is based on our targets, pending agreement with partners

2 Entry into CDMO Business for Regenerative Medicine and Cell Therapy

CDMO business for regenerative medicine and cell therapy (Contract Development and Manufacturing Organization)

- Demand for pharmaceutical contract development and manufacturing offers high growth potential.
- In the area of regenerative medicine and cell therapy, there are only a limited number of companies in Japan that have the advanced technologies required for CDMOs.
- Leverage the strengths of Sumitomo Chemical and Sumitomo Dainippon Pharma



- Fundamental technology related to ES/iPS cells
- Expertise on CMO business for API
- Analysis and Safety Assessment of the products





- Industry-leading-level expertise on regenerative medicine and cell therapy
- □ <u>iPS cell-derived cell therapies in</u> <u>development pipeline</u>

Contributing to Resolving Healthcare Issues by Leveraging Group Synergies in the Area of Regenerative Medicine and Cell Therapy

IR Day: Pharmaceuticals





3Theranostics

=

Theranostics

Therapeutics



1

42

Fusion of diagnostic and therapeutics

Basic concept of "Theranositcs" executed by Nihon Medi-Physics



Adopted by AMED^{*1} as CiCLE^{*2}

- *1 AMED: Japan Agency for Medical Research and Development
- * 2 CiCLE: Cyclic Innovation for Clinical Empowerment

Aims of Theranostics Project

Offering new value in medical practice through nuclear medicine

- Development of companion diagnostic and a-emitting therapeutic agents for cancer using radioisotopes (RI) originated in Japan
- Expecting approval and launch in the second half of the 2020s through open innovation within and outside the Group

2

Building a new earnings base

- As the pillar for next-generation businesses following FDG-PET
- Expanding the ratio of new products to approximately 30% by 2030, along with new PET diagnostic agents under development





Global Infectious Disease Issues

Besides COVID-19, the following issues remain to be solved regarding infectious diseases.

* As for COVID-19, we participate in the US COVID-19 Research-Database, donate to the Kitasato Institute's Project for COVID-19 and provide medical protective equipment.

Global Health Issues

- Threats of periodic pandemics by new strains of influenza viruses.
- The target for developing new vaccines has shifted to diseases for which vaccines are more difficult to develop, such as mycobacterium tuberculosis, malaria and HIV, although the number of infected patients is large.

Spread of Antimicrobial- Resistant (AMR) Bacteria

- Since the 2010s, AMR bacteria have been recognized as a global issue.
- If no measures are taken, in 2050 an estimated 10 million people will die worldwide, and it is considered the next threat after COVID-19.

We aim to create (I) Novel Vaccines (Universal Influenza and Malaria) and (II) Therapeutic agents for AMR bacteria, by utilizing our accumulated knowledge in R&D in the area of infectious diseases.

Development of Novel Vaccines and Therapeutic Agents against AMR Bacteria



Cautionary Statement

Statements made in this document with respect to Sumitomo Chemical's current plans, estimates, strategies and beliefs that are not historical facts are forward-looking statements about the future performance of Sumitomo Chemical. These statements are based on management's assumptions and beliefs in light of the information currently available to it, and involve risks and uncertainties.

The important factors that could cause actual results to differ materially from those discussed in the forward-looking statements include, but are not limited to, general economic conditions in Sumitomo Chemical's markets; demand for, and competitive pricing pressure on, Sumitomo Chemical's products in the marketplace; Sumitomo Chemical's ability to continue to win acceptance for its products in these highly competitive markets; and movements of currency exchange rates.