

Fujifilm Group Overview

January, 2024

FUJIFILM Holdings Corporation





Forward-looking statements

Forward-looking statements, such as those relating to earnings forecasts and other projections contained in this material, are management's current assumptions and beliefs based on currently available information. Such forward-looking statements are subject to a number of risks, uncertainties and other factors. Accordingly, actual results may differ materially from those projected due to various factors.

Company Profile

Company profile

Company Name	FUJIFILM Holdings Corporation				
Representative	President and CEO, Representative Director Teiichi Goto				
Date Established	January 20,1934				
Fiscal year-end	March 31				
Capital	¥ 40.4 B	(As of March 31, 2023)			
Consolidated Revenue	¥ 2,859.0 B	(FY2022)			
Net Income Attributable to FUJIFILM Holdings	¥ 219.4 B	(FY2022)			
Number of Group Companies	273	(As of March 31, 2023)			
Consolidated Employees	73,878	(As of March 31, 2023)			

Stock Information

As of January 1, 2024

Stock Code	4901
Stock Exchange Listings	Tokyo
Minimum Trading Units	100
Number of shares issued	414,625,728
Authorized Number of Shares	800,000,000
Ordinary General Meeting of Shareholders	The end of June
End-of-term registration deadline for dividend payment	March 31
Mid-term registration deadline for dividend payment	September 30
Shareholder Registry Administrator	Sumitomo Mitsui Trust Bank, Limited







Corporate Slogan

Value from Innovation

We approach all our activities with an "open, fair and clear" corporate culture.

¥917.9 B

¥611.1B

32.1%

67%

Business Fields of Fujifilm Group

Imaging

- Consumer Imaging
- **Professional Imaging**



¥ 266.9 B ¥ 143.4 B 14.4% 65%

35%



- Medical Systems
- Bio CDMO
- LS Solutions

























- Office Solutions
- **Business Solutions**

¥838.1 B

¥ 555.5 B

¥282.6 B

66% 34%

29.3%

Revenue ¥ 2,859.0 billion

FY2022



Electronic Materials

Display Materials

Other Advanced Materials (Industrial Products, Fine Chemicals and Recording Media)

Graphic Communication





- ¥ 180.6 B 26% ¥ 70.1 в 10%
- ¥ 100.0 B 14%









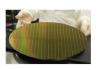






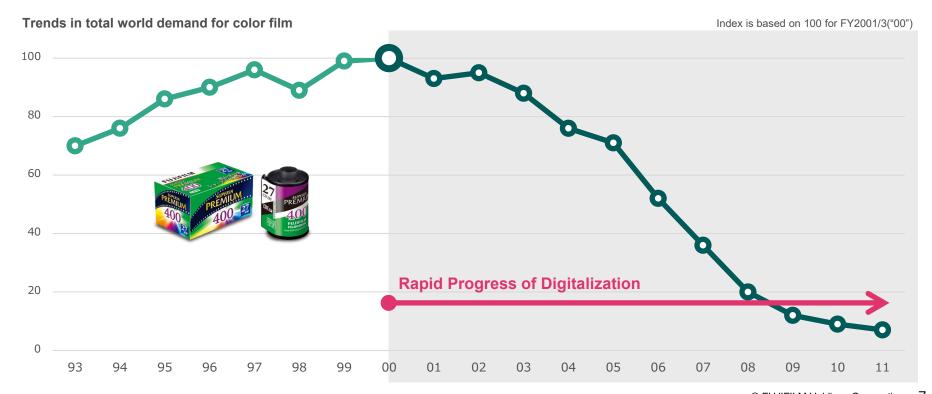






Core Business Crisis

Digitization led to a rapid decline in the demand for color film, our group's core business.



Defining New Growth Strategies

Invest management resources to growing markets such as Healthcare and Advanced Materials.

3 Keys to Determine Priority Businesses





Do we have the technology to be applied?



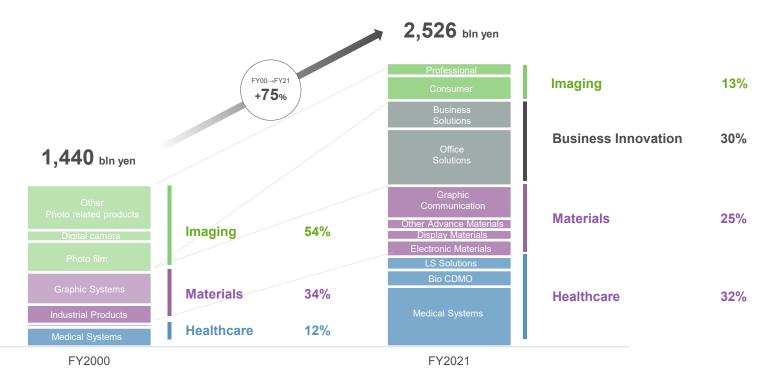
Can we stay competitive?

Fujifilm's Technologies in Four-quadrants (Conducted in 2000's)

	Existing Market	New/Adjacent Market		
New Technologies				
Existing Technologies		-5/7-1993 		

Change in Business Portfolio

Undertook a large-scale business restructuring from 2000s onward The revenue structure has changed substantially by enhancing the business portfolio and accelerating growth



Fujifilm's Core Technologies

Technologies that form the core for the creation of sustained competitive advantage, built atop fundamental technologies. Technologies that have the potential to form the core of "co-creation" of new value.

Core Technologies

Grain Formation Technology

Technology that forms grains through buildup

High-precision Coating Technology

Technologies to Form Uniform Single/Multi-layer Coatings Over Wide Areas

MEMS Technology

Technology to Design and Manufacture Machine Components Using Unique Piezoelectric Membranes

Functional Molecule Technologies

Technology to manufacture small molecules that allow for free transformation of the molecular structures of organic compounds, making the impossible a possibility

Film Formation Technology

Technologies to Create Single/Multi-layer/3D Structural Film

Functional Polymers

Technology to manufacture polymers that allow for free transformation of the molecular structures of organic compounds, making the impossible a possibility

High-recision Forming Technology

Technology for Exact Transfer of Materials to High-Precision Moulds for Hardening

Redox Control Technology

Technology to control ongoing organic/inorganic compound reactions

Imaging Technology

Technology to Convert Imaging Targets to Digital Data for Control

Electrical.

Electronic

Naono Dispersion Technology

Technologies for stable blends of immiscible substances, allowing them to shine with varied material properties

System Design

Technology to Provide High-Resolution Images Faster and More Reliably

Materials **Imaging Optics** Chemistry

Mechanical Production Bio-System Design Chemistry

Software

Analysis

Technology to Leverage Inherent Biological Abilities for Prevention, Diagnosis, and Treatment

Bioengineering

Goals in SVP2030

We will contribute to the realization of a sustainable society through realizing goals set forth in "Sustainable" Value Plan 2030 (SVP2030) "by promoting priority measures listed in VISION2023, announced in April 2021.

Strengthen our business portfolio and build a foundation for the next leap forward.

VISION 2019

Revenue \$ 2,315.1B **Operating income** s 186.6 B CO₂ emission reduction 25% (Compared with FY2013)

Accelerate growth in healthcare and advanced materials and build a business foundation for sustainable growth.

VISION 2023

Revenue \$ 2,700.0 B **Operating income** s 260 B CO₂ emission reduction 11% (Compared with FY2019)

Help realize a sustainable society by resolving social issue through innovative technologies, products and services.

SVP 2030

Revenue \$ 3,500 B>

CO₂emission reduction (Compared with FY2019)

50%

Specific action plan to achieve the goals set forth in the SVP 2030

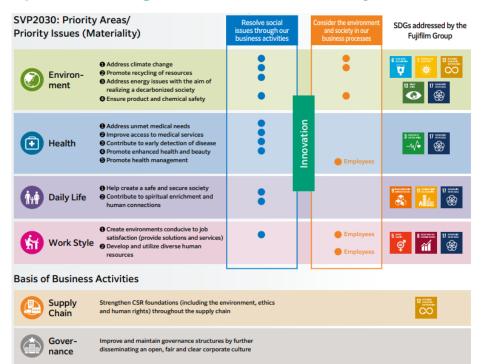
Realize a Sustainable Society Value From Innovation

Next page for SVP2030: Priority Areas/Priority Issues(Materiality)

Goals in SVP2030: Priority Areas and Materiality

SVP2030 specifies materiality from the perspectives of "social and environmental issues that should be resolved" and "Fujifilm Group's business growth" to be achieved by 2030.

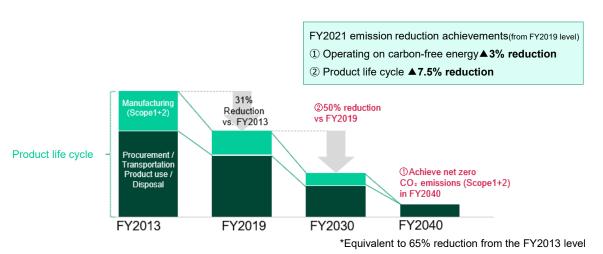




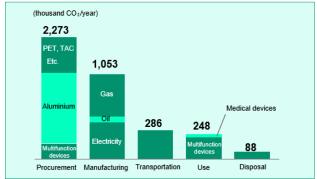
ESG | Initiatives for Environment: Decarbonization Targets and Basic Policy

Fulfilling supply responsibility to meet social needs, achieving low-carbon operation in existing businesses and developing / offering low-carbon solutions to contribute to building a decarbonized society, rather than merely withdrawing from businesses with high carbon emissions

- Fujifilm Group's decarbonization targets
 - Fully operating on carbon-free energy and achieving net zero CO2 emissions by FY2040
 - Reducing CO2 emissions across the entire product life cycle from the procurement of raw materials to manufacturing, transportation, use and disposal by 50% (from FY2019 level) by FY2030



GHG emissions by product life cycle stage (FY2021)



ESG | Initiatives for Society: Basic Policy of HR Capital

The Fujifilm Group, which has successfully transformed its business structure, is built on the mindset of continuing to take on challenges without fearing changes. This is the source of its strength. Focus on initiating an upward spiral with "individual growth" and "organizational growth," and foster a workforce that can seize a change as a growth opportunity to achieve a high level of employee engagement.

Fujifilm Group's HR development Vision

To become a company that creates change

Realization of Value from Innovation Improvement of employee engagement

Organizational

100 people weave the +STORY of their 100 career paths while each and every diverse employee maximizes their individuality and abilities.



Form the foundations of work Capabilities for the setting of an agenda (STPD)/ Expertise/Technical skills Regarding themselves as the main people, thinking about essential issues beyond their own roles, involving those around them and taking action

Fujifilm Group

Employee Development

Acquiring the foundation for self-growth (+STORY) (1) Capturing maximum opportunities for growth from the changes they

face, taking on challenges and growing autonomously (2) Through dialogue, immediate managers guide subordinates while

understanding their values and ideas, thereby fostering a willingness to take on challenges

Business basics (communication skills, logic skills, etc.)/IT literacy skills

Open, fair, clear culture, wide-ranging business fields/technologies

Employee engagement survey

- In December 2022, Fujifilm started the "Fujifilm Employee Engagement Survey" for all Group companies to identify the current status and future tasks in relation to corporate philosophy, brand understanding, workplace environment, compliance awareness, health and other aspects of Fujifilm Group's vision.
- The survey is used to help the Group, each regional HQs, each Group company and each Division identify their respective tasks and promote measures to build a high level of engagement within the organizations. This should lead to a long-term growth of Fujifilm and its employees.

+STORY



There is emphasis on encouraging each employee to see changes positively as a growth opportunity and take on challenges such changes bring. The "+STORY" self-growth support program facilitates dialogs between workers and their supervisors.

ESG | Initiatives for Governance1/2 : Basic Policy and Structure

Basic Policy for Corporate Governance

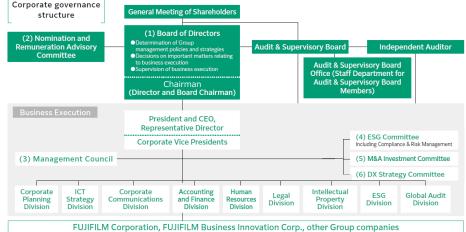
The company aims to achieve sustainable growth and increase the corporate value of the Fujifilm Group while contributing to the sustainable development of society by conducting sincere and fair business activities. The Company has positioned corporate governance as an important management priority to achieve this aim.

Adopted a system with an Audit & Supervisory Board Institutional Design • Established the Nomination and Remuneration Advisory Committee as an arbitrary advisory body to the Board of Directors Set the number of directors at 12 or less, of which at least one-third shall be independent outside directors Board of (currently 11 directors, including four independent outside directors) Directors Separated the roles of the Chairman of the Board of Directors and CEO and strengthened the supervision function Set the terms of office of directors at one year to further clarify the mission and responsibilities of directors Set the number of Audit & Supervisory Board members at five or less, of which at least half shall be independent outside Audit & Supervisory Board members (currently four Audit & Supervisory Board members, including two Audit & Supervisory independent outside Audit & Supervisory Board members) Board Established an Audit & Supervisory Board Office (a staff department for Audit & Supervisory Board members) to enhance the audit functions of Audit & Supervisory Board members Set the composition of the committee to be three or more members appointed by resolution of the Board of Nomination and Directors, with at least half being independent outside directors (currently comprised of three members, including Remuneration two independent outside directors, one of which is the chairman) Advisory Committee The chairman shall be an independent outside director

Outline of Corporate Governance Structure

The Company has formulated and disclosed a set of corporate governance guidelines that stipulate the basic management policies along with the roles and responsibilities of the Board of Directors. These roles and responsibilities include determining basic Group management policies and strategies and other important matters relating to business execution, as well as supervising the implementation of business affairs.

As of July 1, 2023



ESG | Initiatives for Governance 2/2 : Activities for Strengthening CG

"Examining the current skills matrix," "increasing female directors," "retiring treasury stock" and "adopting ESG indicators as KPIs for directors' remunerations" as initiatives for FY2022

	FY2006~	FY2015~	FY2020~	
Institutional design	2006 Shift to the holding company system	2018 Establishment of the Nomination and Remuneration A	Advisory Committee 2021 Separate appointment of CEO and Board Chairperson	
Higher ratio of independent outside directors	2006 Appointment of an outside director 2014 Numb	er increased to two 2017 Number increased to three, represeting more than 1/ 2018 Number increased to four	<i>1</i> 3	
Board diversity assurance		2018 Appointment of a female director	2020 Release of skills matrix 2022 Examination of the skills matrix 2022 Increase of female directors	
Enhanced effectiveness of the Board		1015 Introducing corporate governance guidelines 1015 Launching evaluation of Board's effectiveness 2019 Using external organizations to	carry out effectiveness evaluation 2022 Retiring treasury stock	
Director remunerations design	2007 Introducing the stock option system 2009 Abolishing retirement benefits for dire	ectors	2021 Introducing a stock-based compensation program involving transfer-restricted shares and sh linked to mid-term performance (abolition of the stock option system) 2022 Adding EST indicators as KPIs for stock-based compensation linked to mid-	

Medical Systems

Healthcare

Biopharmaceutical CDMO

LS Solutions

- Life Sciences
- Pharmaceuticals
- Consumer Healthcare
- CRO (Business Development Office)

Healthcare

FUJIFILM's Healthcare

In the areas of prevention, diagnosis and treatment, we will help create a healthy society by resolving social issues, including by addressing unmet medical needs and improving access to medical services.

Prevention

- Bulk Drug Substance for Vaccine
- Functional Cosmetics
- Supplements





Diagnosis

- Diagnostic Imaging Systems
- Medical IT
- Endoscopes
- In-vitro Diagnosis
- Ultrasound Systems





Treatment

- Bio CDMO
- Cell/Gene Therapy
- · Cell Culture Media
- Pharmaceuticals
- Small-molecule CDMO





Medical Healthcare

Business Strategy for Medical Systems

Create new value and help resolve social issues by combining our industry-leading Al/IT technology with our broad product lineup.





Diagnostic X-ray Imaging





Ultrasound Systems





REiLI Al technology brand launched in 2018





World's Top Market Share (*Signify Research report)









(In-Vitro Diagnostics)

CT & MRI

Endoscopy

Non-destructive testing equipment and materials(P52) are reclassified to the Medical Systems business of Healthcare from FY2023 onwards



Revenue **FY2030**

Medical Healthcare

Medical Systems: Medical IT

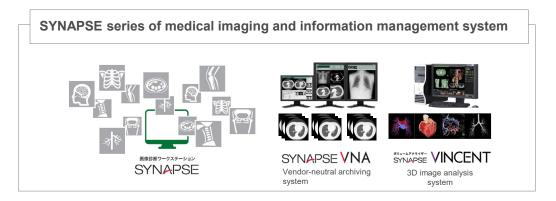
PACS: Medical imaging and information management system

Picture

Archiving

Communication

System



- SYNAPSE is used at 5,812 sites worldwide. (*1)
- It has gained high praise from major hospitals in various areas and captured the world's top market share. (*2)

(*1) As of March 2021 The number of "Synapse" Series of devices installed) (*2) As of the end of FY2021, according to a survey by Signify Research Report

Al utilization

The REiLI concept was announced in April 2018 We provide new value by consecutively launching products that utilize AI technology to Fujifilm's distinctive modality

^{*} A brand name of AI technology that can be used for medical image diagnosis support, workflow support at medical sites, and maintenance services for medical equipment that we are developing.

Healthcare

Medical Systems: Medical IT

Development of products utilizing AI technology

Since launching Synapse SAI Viewer - a platform equipped with applications that can utilize AI technology - in July

2019, we have been deploying solutions by combining each modality and Al technology.



Brand launch in Imaging and information management system (PACS) SYNAPSE launched 2018

3D image analysis system SYNAPSE VINCENT launched

2015 Integrated medical consultation support platform CITA Clinical Finder launched

2019

REILIXIT

SYNAPSE SAI viewer Automatic organ recognition function



REiLI×Ultrasound

iViz air

Automatic bladder urine volume measurement function



REiLI×X-ray

FUJIFILM DR CALNEO AQRO

Al-based surgical gauze recognition function



SYNAPSE SAI viewer Pulmonary nodule detection function



REiLI×Endoscope

CAD FYF

REILIXMRI

Colon polyp detection / identification function





REILIXIT

SYNAPSE VINCENT "Brain analysis" software



REILIXIT

SYNAPSE SAI viewer Rib fracture detection program



REILIXUltrasound

iViz air

Blood vessel identification assistance function

REiLIXUltrasound

ARIETTA 850 DeepInsight Al-based noise removal



REILIXCT

VINCENT Core VINCENT image analysis technology

Suspected stomach cancer lesion detection





incorporated into CT consoles



REILI×Endoscope

CAD EYE Suspected ESCC detection





ECHELON Synergy

Projection function "Positioning MAP"

Slice line setting support function



Medical Systems: X-ray film and X-ray diagnostic imaging systems

Realized significant X-ray diagnostic imaging system cost reductions of by reviewing its equipment design and parts procurement costs. Improved profitability

X-ray film

- Global demand is gradually declining and Fujifilm is focusing on increasing its market share.
- In emerging countries, demand for film used for output proceeds steadily.

X-ray diagnostic imaging systems

FCR Fuji Computed Radiography

> Fujifilm was the first to develop this medical equipment (launched in 1983) and has a high market share.

DR Digital Radiography

Launch products with differentiated technology such as image processing technology and special function.

Cassette DR



CALNEO Smart

Mobile X-ray System



CALNEO AQRO CALNEO CROSS

Digital Mammography



AMULET Innovality

Film



Expose an image on X-ray film and develop it in a darkroom

Visually analyze the film image

CR(Computed Radiography)



Store X-ray images on imaging plates (that can be used again, but are consumable) and digitize them. CR developed by Fujifilm are called FCR

DR(Digital Radiography)

When the sensor detects X-rays, an electrical signal is emitted by a flat panel detector and creates an image. The flat panel detector is built into the device, and no consumables are needed. Analyze using monitor image

Output to film is also available

Medical Systems: CT · MRI

Provide a wide-ranging product lineup of CT / MRI systems with making images high resolution and highly functional

CT: Computed Tomography

We offer CT devices with high clinical value, realizing both low exposure and high-resolution imagery needed for CT devices, in addition to a compact body that can be installed easily.



SCENARIA View |



Supria Grande

MRI: Magnetic Resonance Imaging

We offer a wide lineup of systems, working to improve work flow and make patients more comfortable in addition to making images high resolution and highly functional.



[ECHELON Smart Plus |



APERTO Lucent Plus

Medical Healthcare

Medical Systems: Endoscopes

Realize sales growth by expanding sales of differentiated products

Endoscopes

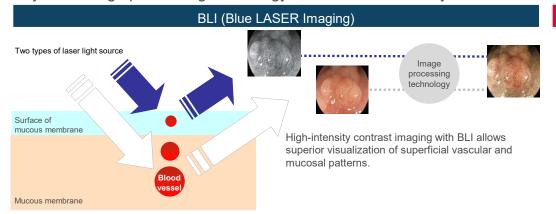
Launch competitive products with high added value, that utilizes image processing technology cultivated through the photographic business and thinning technology etc. Transnasal endoscopes

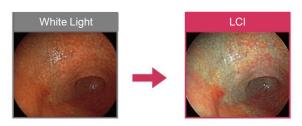
- Endoscope systems with laser light sources
- Transnasal endoscopes
- Double-balloon endoscopes

Double-balloon endoscopes Transnasal Conventional superfine transnasal endoscope LCI (Linked Color Imaging)

LASEREO

Fujifilm's image processing technology enhanced the visibility of the diseased part





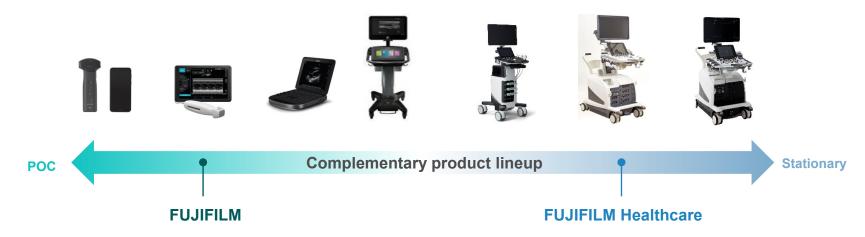
LCI differentiates the red color spectrum more effectively than White Light imaging. The increased color contrast improves detection of inflammation and results in more accurate delineation.

Medical Systems: Ultrasound

Aim for further sales growth by promoting the sales expansion in emerging markets etc, utilizing the global sales network of Fujifilm

Ultrasound

- FUJIFILM provides wide-ranging products with high development capabilities in the POC* ultrasound field.
 - * Point-Of-Care(POC). Perform examinations in front of the patient or at home to determine and treat the treatment policy.
- FUJIFILM Healthcare has wide-ranging stationary ultrasound products.
 - * Acquired FUJIFILM Healthcare Corporation, which transferred the diagnostic imaging business of Hitachi, Ltd. on March 31, 2021.



Medical Systems: IVD(In Vitro Diagnosis)

Realize large sales and OP growths by expanding business area and sales channels

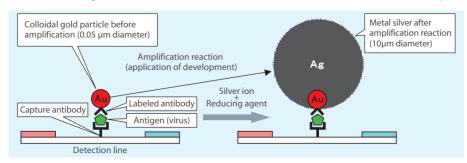
IVD(In Vitro Diagnosis)

- Providing Point of care testing (POCT:Point of Care Testing) type of In Vitro Diagnosis system used in an examining room or at the bedside in a hospital to immunology POCT market and biochemistry POCT market.
- In 2017, Clinical Diagnostics business of Wako Pure Chemical was added. Product lineup expanded and almost all of the domestic hospitals became accessible.
- In animal healthcare business, our business extends in wide-ranging fields from POCT system such as FUJI DRI-CHEM and DRI-CHEM IMMUNO AU10V to contract clinical test for animals.

IMMUNO AG series: Quick determination diagnostic system through highly sensitive immunochromatography

By applying the silver amplification principle of photographic development, the colloidal gold particles that are the targets are amplified up to 100 times or more, leading to the improvement of detection sensitivity.

Dedicated reagent kit for Influenza, COVID-19, adenovirus, RS virus, Streptococcus pyogens, mycoplasma pneumonia is available.





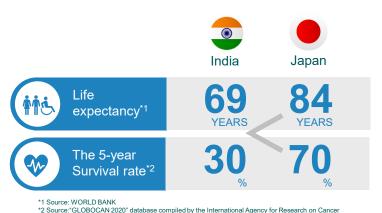




IMMUNO AG2 © FUJIFILM Holdings Corporation 26

Medical Healthcare

Medical Systems: Expanding Health Screening Service Business in Emerging Countries



Why is the data in India inferior?

Low proliferation of health screening services,

imposing practical difficulty in achieving early detection & treatment of cancer*.

(*Our views based on information obrained)



Health screening centers focusing on cancer and lifestyle diseases screening

Valuable advice in a timely manner utilizing AI & Big data

Key technologies: Al diagnosis support, Blockchain, Workflow automation etc

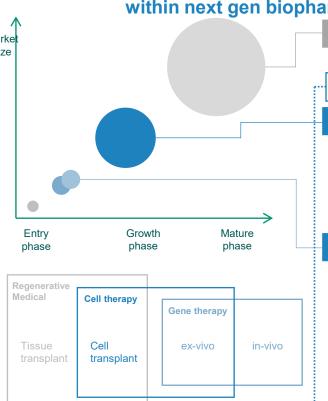
New services by data sharing with other relevant institutions

Culture of health screening incorporates into society



Biopharmaceutical CDMO: Business Area

In addition to conventional modalities such as antibodies, technological developments within next gen biopharmaceuticals further increase the demand for CDMOs



Small molecule

Chemically synthesized compounds with a low molecular weight.

FUJIFILM BioCDMO business

Antibody drugs (CDMO market's CAGR(FY18-FY28)+11%)

- Antibodies are proteins made by cells (body's immune system)
- With difficult manufacturing process, fewer side effects, and expected to be high efficacy in the treatment of cancer and rare disease which is difficult to treat for small molecules
- More expensive in capex and quality control than small molecule

Cell therapy | Gene therapy (CDMO market's CAGR(FY18-FY28)+29%)

- Cell therapy:
 - Transplantation of human cells to replace or repair damaged tissue and/or cells
- ex-vivo Gene therapy : The process of removing specific cells from a person, genetically altering them in a laboratory, and then transplanting them back into the person
- in-vivo Gene therapy: Direct delivery of genetic material either intravenously or locally to a specific organ through the help of a vector

Biopharmaceutical CDMO: Background of Growth in CDMO Business

CDMO business is growing in the bio-pharmaceutical industry by shifting to horizontal specialization.

CDMO: Contract Development and Manufacturing Organization

CDMO is an organization that serves the pharmaceutical industry and provides clients with comprehensive services from drug development through manufacture. The CDMOs provide integral services incorporating external third-party projects and offering their knowledge and development and manufacturing capabilities.



Healthcare

Biopharmaceutical CDMO: Fujifilm's Strengths

Integrating Fujifilm's advanced core technologies with biotechnologies acquired through M&A, coupled with state-of-the-art manufacturing facilities to further accelerate growth of Bio CDMO business

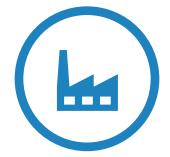


Technologies acquired through M&A*1

- Cell culture/purification and quality control
- Process development/know-how
- Abundant track record

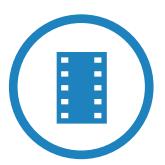
*1 M&A

- · 2011: MSD Biologics/Diosynth
- (Cur. FUFJIFILM Diosynth Biotechnologies) · 2014 : Kalon Bioterapeutics
- (Cur. FUFJIFILM Diosynth Biotechnologies)
- · 2019 : Biogen (Denmark) Manufacturing
- (Cur. FUFJIFILM Diosynth Biotechnologies)



Advanced facilities

- State of the art manufacturing solutions small-high volume scale
- High containment mobile cleanroom technologies*2
- Best in class process development capabilities
- *2 Complies to BSL-2+(Biosafety level) containment with capacities to comply to BSL-3, which is in the top-tier level as a facility for commercial manufacturing.



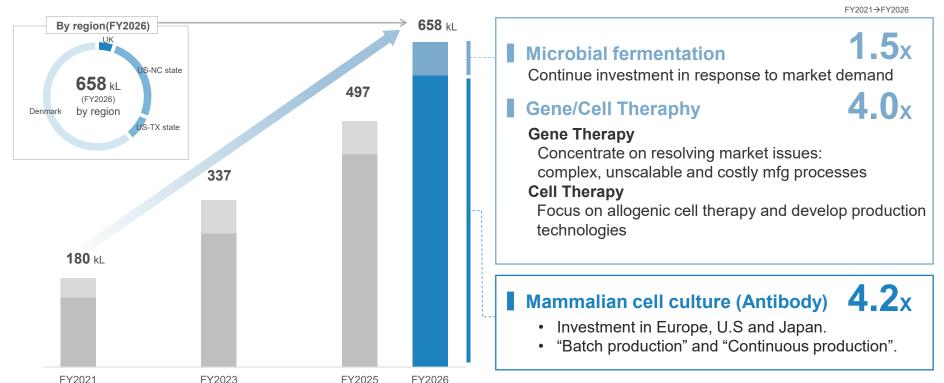
Fujifilm's advanced technologies

- Manufacturing under constant control
- Engineering technology
- Manufacturing process technology

UIFILM Healthcare Medical Bio CDMO LS Solutions Pharma CH CRO Office Materials Business Imaging

Biopharmaceutical CDMO: Manufacturing Capacity Expansion Plan

Large investments will be made for each modality and each area with an attempt to further accelerate growth of the bio CDMO business.



FUJIFILM Healthcare Medical Bio CDMO LS Solutions Pharma CH CRO Office Materials Business Imaging

Biopharmaceutical CDMO: Global Footprint

Offering end-to-end solutions from small-to-large scale bulk drug substance production to formulation and packaging

As of Dec,2022		North .	America New	New		Eur	ope	Asia
(w/o small molecules)	RTP NC, US	College Station TX, US	Thousand Oaks CA, US	Boston MA, US	Holly Springs NC, US	Billingham UK	Hillerød Denmark	Toyama Japan
		2	3	4	5	6	7	8
(Services since.)	(2011)	(2014)	(2022)	(2022)	(TBO2025)	(2011)	(2019)	(TBO2026)
Antibodies	•	•			•	•	•	•
Recombinant proteins	•					•		
Cell/Gene therapies		•	•	•		•		
Vaccines	•	•				•		•
Formulation			•		• 4	4745	•	•
Assembly, Labeling & Packaging			-	4,00			•	•



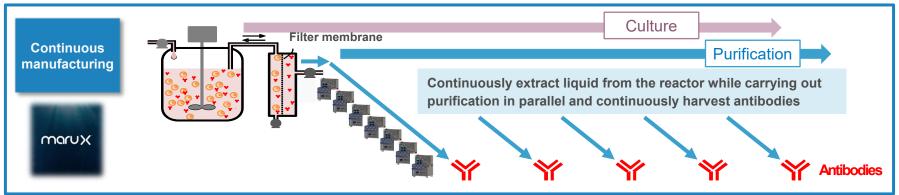




Bio CDMO LS Solutions Pharma CH CRO Office Materials Business Imaging Healthcare

Biopharmaceutical CDMO: What is Continuous Manufacturing System?

World's first "integrated culture to purification 500L scale facility" for continuous manufacturing GMP manufacturing facilities under construction in the UK and US





500L reactor





Purification device (7 units connected)

Biopharmaceutical CDMO: Fujifilm's Continuous Manufacturing System

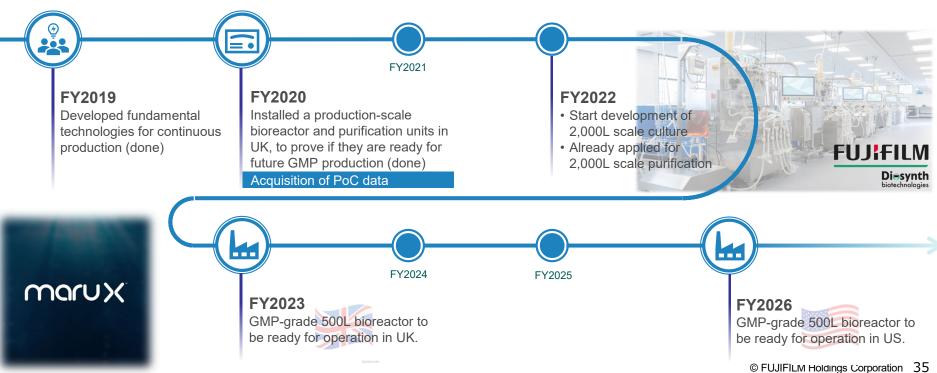
Set to begin GMP operation from 2023 and are currently having discussions with several clients

	Features of Fujifilm's Continuous Manufacturing	Batch Production
Quality	 Ability to achieve high purity compared to batch production Enables manufacturing of unstable antibodies that are difficult to produce with batch production. 	Unstable antibodies are hard to manufacture
Production Capacicty	By adjusting the production time small to large scale lots can be made at the same facility	Different facilities needed for different lot sizes
Facility investment · Mfg. cost	 Takes up 25-75% less space compared to batch production Facility investment amount is likewise reduced by 25-75% 25% reduction in manufacturing costs(In-house research) 	Need to invest in bio reactors depending on the amount to be manufactured
Technology	 Systems for automatic titer control and continuous monitoring of culture conditions are necessary (development complete) The automatic continuous manufacturing device also needs an automatic control system (development complete) 	-
Culture media	 Media optimized for continuous manufacturing is necessary and Fujifilm has developed a high-quality media for this purpose. 	-

Healthcare

Biopharmaceutical CDMO: Continuous Manufacturing System Roadmap

Industry leader with integrated culture and purification for commercial scale (500L) high titer culture. Carrying out scale-up development for 2,000L scale (output equivalent to 20,000L batch manufacturing).



LS Solutions (Life Sciences)

Handling R&D and production of innovative drugs and offering solutions in the field of cell therapy to contribute to addressing unmet medical needs

- **Cell Therapy Process Development & Manufacturing Service**
 - We will create synergy, with a focus on FCDI's iPS Cell, that makes use of FUJIFILM group-wide unique engineering technologies, resources, and facilities. *FCDI:FUJIFILM Cellular Dynamics, Inc.
- Utilizing synergy as a platform, we will **promote** in alliance with partners efficient R&D and promote business developing and manufacturing cell therapy products.



GMP facility: i-FACT

(Madison, Wisconsin, US)



Drug Discovery & Manufacturing Support

- Supplying cells (e.g. human iPS Cell for drug discovery), cell culture media, cytokine, reagents and related products to contribute to discovery research and production of new innovative drugs.
- Cell culture media has grown rapidly due to increased demand for use in the manufacturing biopharmaceutical.



iPS Cell



Cell culture media



Reagents



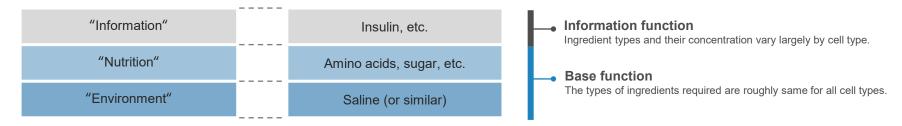
Cytokine

generated and refined

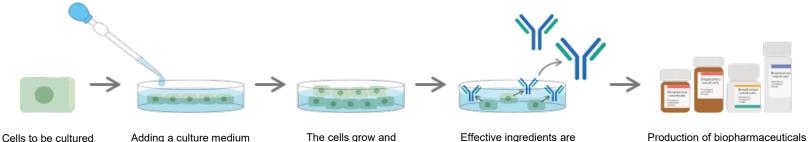
LS Solutions (Life Sciences : Cell Culture Media)

Cell culture media

Cell culture media are important materials, essential for facilitating cell growth and production of end objects generated from cells. It has the function of providing "environment, nutrients and information" to cells. Just as people have personal preferences, cells and cell products have individual preference in optimum composition of culture media.



Cell culture process



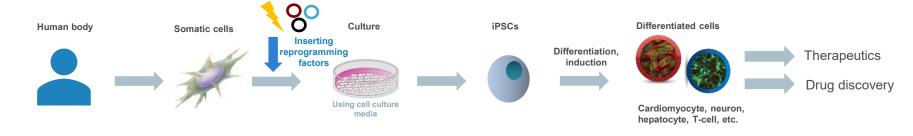
propagate

and vaccines

LS Solutions (Life Sciences : Cells)

iPS cell (iPS = induced Pluripotent Stem)

iPS cell is produced by introducing a small number of genes known as reprogramming factors to human skin tissues and blood-derived somatic cells to give the ability to differentiate into various tissues and organ cells and the ability to propagate almost indefinitely.



	Autologous cells	Allogeneic cells (donor's cells)		
		Somatic stem cells	Somatic cells	Pluripotent stem cells
Definition	Patient's cells	Derived cells in the body that are able to differentiate into new cells to repair and regenerate tissue	Derived cells that are terminally differentiated and part of the body's tissue and organs	Cells having self-propagating ability and pluripotency
Example		Stem cells derived from bone marrow, MSC, etc.	T-cells, skin cells, blood cells, etc.	iPSC (made from somatic cells/genes)
Mass production	-	Limited	Limited	Possible (High proliferation ability)
Production cost	high	Middle	Middle	Low cost through mass production

LS Solutions Pharma CH CRO Office Materials Business Imaging Healthcare

LS Solutions (Life Sciences : Cells)

- By using our proprietary technology for mass production, iPS cells can be stably supplied at a lower cost.
- iPS cells will be a key material in the next generation of therapeutic modalities and drug discovery support.

Cell Therapy

Challenges

Stable supply and Stable quality

- 1. Shortage of cell donors for rare diseases
- 2. Unstable cell quality due to individual difference

Solutions

Modality using iPS cells

- 1. Stable supply of iPS cells because of their selfproliferation ability
- 2. Stable cell quality as they are derived from the same cell line

New drug development support

Challenges

Improving efficiency and **Reducing cost** of new drug development

- 1. No new drug evaluation method due to complicated disease mechanisms.
- 2. In some cases, animal tests are OK, but clinical tests are not because of the difference between humans. and animals.

Solutions

New drug screening with iPS cells

- 1. Disease analysis with iPS cells derived from patients with intractable diseases.
- 2. Toxicity/drug efficiency/safety tests using iPS cellderived disease model before clinical trial.

LS Solutions (Pharmaceuticals)

- As a core company in the "Treatment" area, FUJIFILM Toyama Chemical Co., Ltd (FFTC)., is engaged in the research, development, production, and sale of prescription pharmaceuticals.
- Leveraging over 40 years of knowledge in the field of anti-infective drugs, the company has recently focused its efforts on the business of contract manufacturing as the only company who can manufacture sterile penicillin antibiotics.

Small molecule drug

A group of two or more atoms that form the smallest identifiable unit into which a pure substance can be divided and still retain the composition and chemical properties of that substance.

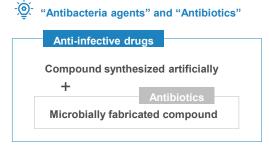
	Small molecule	Biopharmaceutical (Antibody)
Size	Small(<500 daltons)	Large (a few kdaltons∼approx.150 kdaltons)
Structural basis	Stable chemical structure	Nonuniformity due to complex structure
Manufacturing method	Chemical synthesis	Produced by bacteria and microbe
Cost(Manufacturing, R&D)	Low	High
Formulation	A wide variety(tablet form etc)	Mainly injection

Anti-infective drugs

Medicines that work to prevent or treat infections

Category	FUJIFILM's products	
Penicillin	Pnetcillin [®]	
Cephem	TOMIRON®、LARIXIN®	
Quinolone	OZEX®、PASIL®	
Fluoroketolide	Code T-4288 : Submitted an application for permission in Japan	

^{*}FUJIFILM is undertaking CDMO business for anti-infective drugs in addition to above.



Pharma Healthcare

LS Solutions (Pharmaceuticals)

Fujifilm is promoting the development of DDS technologies that deliver the required amount of a drug to the specific area on the necessary schedule.

With the aim of applying the technologies not only to marketed drugs but expanding to next-generation drugs such as nucleic acid drugs and gene therapy drugs, Fujifilm is undertaking the research and development of DDS.

Liposomes | LNP : Lipid Nanoparticle

Capsule-shaped particles of phospholipids, a component of cell membranes. They can encapsulate active ingredients such as drugs and ribonucleic acid(RNA). **DDS** materials

DDS: Drug Delivery System

Technologies that carry drugs into or throughout the body.

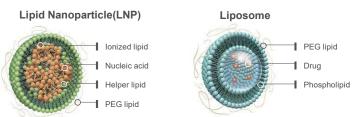
Enhancing the efficacy as well as reducing the side-effect of drugs.

Pipeline regarding Liposomes

As of May, 2023

Code	Program/Indication	Formulation	Region	Stage
FF-10832	Advanced solid cancer drug (Gemcitabine*1 liposome)	Injection	US	Phl
FF-10850	Advanced solid cancer drug (Topotecan*2 liposome)	Injection	US	Phl

An anti-cancer agent developed by the US company Eli Lilly and Company which is indicated for the treatment of wide range of cancers including pancreatic cancer, lung cancer and ovarian cancer. FUJIFILM has begun implementation of a phase 2a study in the U.S. to evaluate safety, tolerability, and preliminary efficacy of FF-10832 in combination





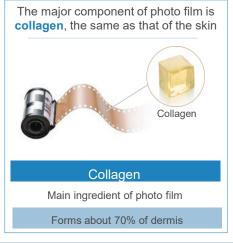
an anti-cancer agent developed by GlaxoSmithKline plc. Currently, the drug is being sold by Novartis. It is used as a treatment for ovarian cancer, small-cell lung cancer, cervical cancer, etc.

Healthcare

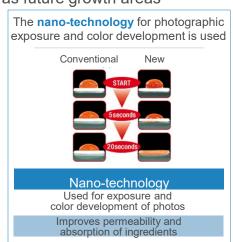
LS Solutions (Consumer Healthcare)

Second foundation and establishment of the cosmetic field in 2000s

Taking stock of the technologies we had cultivated in the development and production of photographic film, we entered the cosmetics and pharmaceuticals markets as future growth areas









2006

Launched the F Square I series of functional skincare cosmetics Start in mail-order sales



Launched the skincare series of ASTALIFT Start in store sales







Healthcare

LS Solutions (Consumer Healthcare)

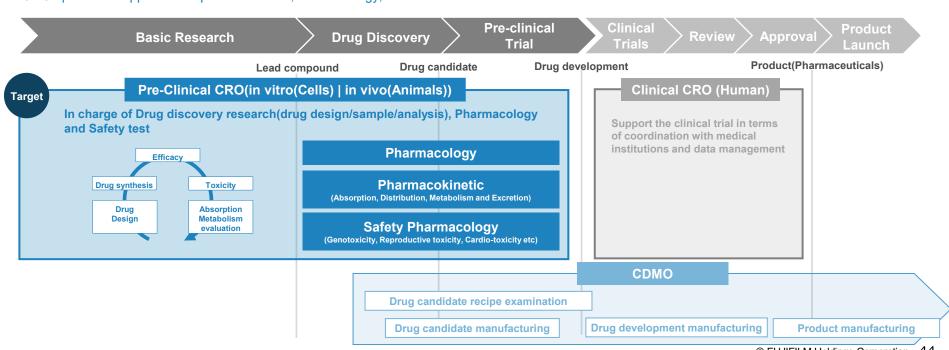
2010 2011 Launched the ASTALIFT Base Makeup series (Entered the base makeup cosmetic market) 2014 Launched the ASTALIFT Hair Care series (Enter the hair care market) 2015 Relaunched the METABARRIER SLIM as our first "Foods with Functional Claim" 2019 Launched the skin care series for men of ASTALIFT MEN (Enter the men's cosmetics market) 2020 **ASTALIFT** ASTALIFT MEN BATT- SH ISS-ED-15-RE アユメイト cresc. (Lunamër Lunămer

LS Solutions (CRO[Business Development Office])

Established "CRO Business Development Office" on April 1st, 2023 which provides services of seed research and pharmacology & Safety testing.

CRO: Contract Research Organization

CROs provides support to the pharmaceutical, biotechnology, and medical device industries in the form of research services outsourced on a contract basis



Materials



- Electronic Materials
- Display Materials
- Industrial Products
- Fine Chemical
- Recording Media

Other Advanced Materials

Graphic Communications

- Graphic Communication
- Inkjet

Amid the continuing growth of the semiconductor market, the COVID-19 pandemic triggered semiconductor supply shortage. As the result, stable supply chain became the biggest challenges.

Some countries are attracting semiconductor fabs and developing domestic manufacturers under a government-led industrial policy from the perspective of economic security.

- > Further growth acceleration in the semiconductor market
 - · Post-COVID digital revolution

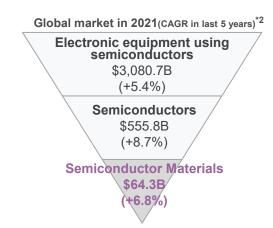
The semiconductor market is expected to grow further due to additional demand for advanced computing application devices (e.g., autonomous cars). These continuous growth will be spread over the United States, South Korea and Taiwan (approx. ¥100 trillion by 2030).

Increased demand for semiconductor materials
 It is expected to continue growing at the rate of CAGR 9.4%*1 by the evolution of advanced semiconductor packaging technology and expansion of semiconductor demand.

(*1 Source : Fuji Chimera Research Institute, Inc.)

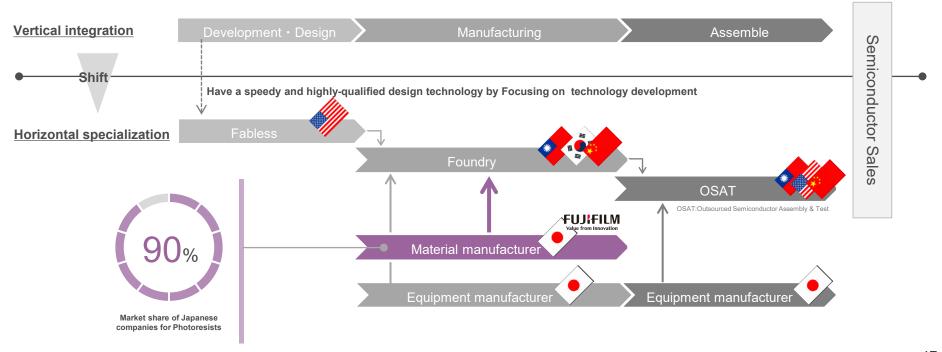
> Intensifying international industrial policy competition of a new dimension from the perspective of economic security

Background of a technological power conflict between the US and China as well as semiconductor supply shortage, there are moves to domestically produce advanced semiconductors and build a structure for supply stability as a national strategy.



Semiconductor industry spending huge capital investment has been promoting horizontal specialization since 2000s

"Materials" and "Equipment" Japanese companies display their overwhelming strength in the semiconductor industry



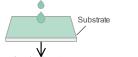
Offer materials used during the process of manufacturing semiconductors

Front-end Process (Positive-types)



Coat a glass photomask substrate with resists for photomask fabrication.

Resists for Photomask **Fabrication**



Project the circuit pattern onto the substrate with an electron beam.



Strip the unneeded portion of the resists.



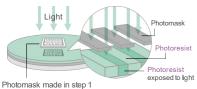
Apply Photoresist to the Wafer

Apply an insulating layer to the wafer, the base of the semiconductor, and then apply photoresist.



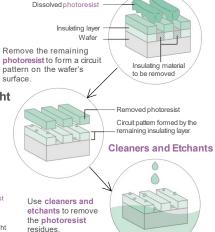
Expose the Photomask to Light

Place the photomask made in step 1 on top of the wafer made in step 2 and expose it to light. Circuit patterns are created on the photoresist.



4 Conduct Etching

Dissolve the portion exposed to light in step 3 using a developer, and remove the insulating material Iving underneath.



• Resists for Photomask

Materials for making photomasks, a "die" circuit pattern

2Photoresists

Photosensitive polymer material used in the process of making circuit patterns



OCLEANERS and Etchants

Various cleaners to remove etch residues, etc.

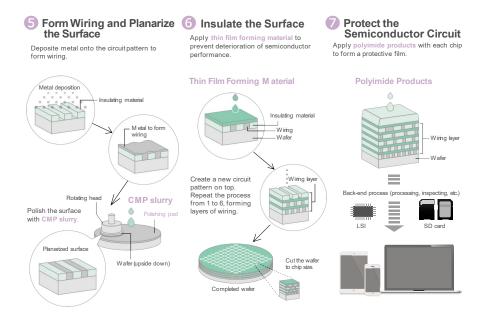




Before (left) and after (right) cleaning

Offer materials used during the process of manufacturing semiconductors

Back-end Process (Positive-types)



Completion

GCMP Slurries

An abrasive to evenly planarize, on a micron scale, the surface of semiconductors where wires and insulating materials with different stiffness are mixed

6Thin Film Forming Materials

A low dielectric constant insulation material used to prevent loss of speed in semiconductor performance arising from the narrowing insulation between wires

Polymide Products

A compound with high thermal durability and insulating capacity, used as a protective film in semiconductors. Its use is expanding to rewiring layer materials for IC chips of higher speeds and functionalities.

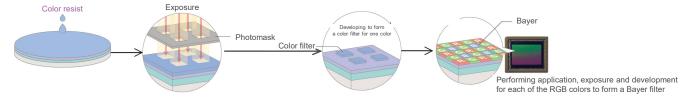
Processing Chemicals

Chemical agents that are critical to the semiconductor manufacturing process, used to remove impurities in cleaning/drying processes and to remove metals and oils in the etching process

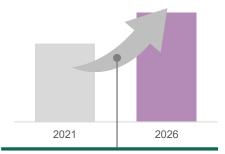
Color filter materials for image sensors (Color resist) WCM_Wave Control Mosaic

A photo-sensitive coloring material for manufacturing micro color filters, used in image sensors.

Applying color resist on the wafer, which forms the base



Market for color filter materials for image sensors



- Mobile domain
- In-vehicle use
- Factory automation (FA)
- Surveillance (security)
- IoT



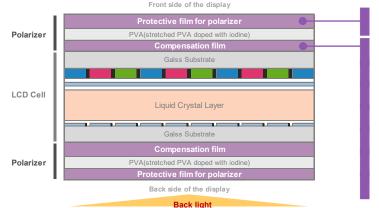
Fujifilm market share and manufacturing site

Fulfill our supply responsibility as the top manufacturer through stable manufacturing/supply of our high-quality materials.



Advanced Materials (Display Materials)

Fujifilm's Main Products



FUJITAC

Protective film for polarizer. Used regardless of any difference in LCD mode.

Compensation Films

WV film

A compensation film that widens the viewing angle in TN mode. Fujifilm has 100% market share.

VA film

A film used for the polarizer in VA mode to control the inflection of light for better viewing angles and contrast.

IPS film (Z-TAC)

A film used for the polarizer in IPS mode to contain tint fluctuations when the screen is viewed diagonally.

Differences in LCD modes

The drive system of LCD panels can be divided into three types. "Compensation films" like WV film, VA film, Z-TAC are used for the purpose of covering weak points or improving quality,.

	TN* mode *Twisted Nematic	VA* mode *Vertical Alignment	IPS* mode *In-Plane Switching
The products being used	WV film	VA film	Z-TAC
Contrast	0	0	Δ
Viewing angle(changes by using compensation films)	×→○	×→○	$\bigcirc \rightarrow \bigcirc$
Efficieency of light emission	0	0	0
Manufacturing cost	Low	Middle	High

Advanced Materials (Display Materials)

Realize sales growth owing to a sales expansion of new products for OLED panels while maintaining stable sales and profit of TAC films for LCD panels

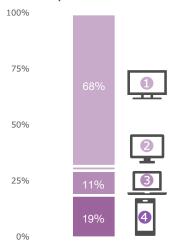
For TVs/Monitors

Demand for LCD panels continues to gradually grow as the size of TVs increase. Promote sales of FUJITAC and VA film/Z-TAC.

For small and medium-sized displays

For LCD panels, Reinforce sales of super-thin FUJITAC and IPS film for smartphones and tablet PC. For OLED panels, promote sales of new products such as films for circular polarization.

Volume of end products and main films by application



	FUJITAC	WV (TN*1)	VA (VA*2)	Z-TAC (IPS*3)
1 TVs	•		•	•
2 Monitors	•	•	Partly Used	•
3 Notebook PCs	•	Partly Used		Partly Used
Small/mid sized Displays (Tablet PCs Smartphones)		Partly Used		•

* 1 Twisted Nematic

*2 Vertical Alignment *3 IPS: In-Plane Switching

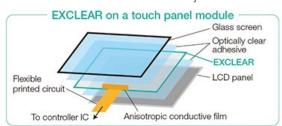
Advanced Materials (Industrial Products)

Develop high-value-added products equipped with Fujifilm's advanced technologies and promote commercialization

EXCLEAR

Sensor film for touch panels.

Realize high transparency and flexibility by patterning with silver on a transparent PET base film. Low resistance and can be adjusted to medium-to large-sized touch panels.



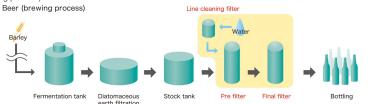


Microfilters



A filter for microfiltration of microorganisms and fine particles that can be used in a wide range of fields such as beverage and precision machinery like electronic components and LCD panels.

Beer(brewing process)



Gas separation membrane

Membrane for separating the very pure natural gas and impurities like CO2 from natural gas.





PRESCALE

Pressure measurement film









Non-destructive testing equipment and materials

*It is reclassified to the Medical Systems business of Healthcare from FY2023 onwards Industrial-use X-ray films, digital X-ray imaging system.







Advanced Materials (Fine Chemical)

Providing high-quality and high-performance laboratory chemicals, speciality chemicals and diagnostic reagents based on the advanced technology of Wako Pure Chemical Industries to meet customer needs

Electronics materials

- Polymer for photoresists
- Photoacid generator(WPAG series)

etc.

etc.

Battery field

- Binders for Lithium Ion Battery(LIB)
- Dve-sensitized solar cell(DSC)



Polymer-related chemicals

- Azo polymerization initiator (Raw materials for diapers, automobile parts, etc)
- High performance polymerization inhibitors
- Photo cationic initiators
- UV-Curing Thermally Conductive
- Reversible Addition/Fragmentation Chain Transfer Polymerization

Pharmaceutical and cosmetic materials

Thickening agents

- Film-forming agents
- Moisturizer(Curevelist, Evemoist®)
- Whitening agent(Magnesium ascorbyl phosphate)
- Antibacterial agent(Cetylpyridinium chloride)

etc

化成品受託製造

Providing strong support for all processes involved in planning, development, and production as a reliable partner in our customers' production processes by applying our quality management system and knowhow accumulated over many years.



Synthesis technology



manufacturing technology



Raw material procurement

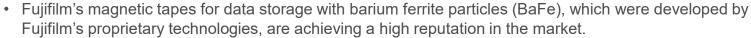


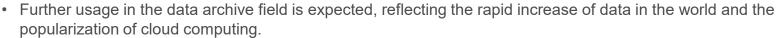
Quality assurance

Advanced Materials (Recording Media)

Since Fujifilm developed professional-use videotapes in 1959, the Company has offered products with high performance and high reliability to tape drive manufacturers worldwide.

Magnetic tapes for data storage

















100PB ten years of CO2 emissions

100% Tape vs 100% HDD



LTO Technology vs All Disk



- High reliability
- Long-time storage









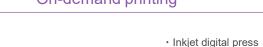
Materials

Graphic Communications

Jet Press 750S

Graphic Communication business

Digital Printing On-demand printing



- - Production systems
 - · Wide-format inkjet systems

Iridesse™ Production Press

SUPERIA **PS-PLATE**

- **Analog Printing** Offset printing
 - · Graphic arts films
 - Printing plates (PS plate, TP(Computer to Plate) etc)



Digital printing (On-demand printing)		Analog Printing (Offset printing)
Unneeded	Plate	Needed
Ink toner (Laser printing) or Inkjet	Inking	Ink
Inferior to Offset printing (limited to colors)	Quality	High quality image
Could partly be impossible	Paper/Size	Available almost any type of paper & size
Faster turnaround & less setup time	Time	Longer setup time & inks require drying time.
Suited for short/medium print runs	Quantity	Ideal for larger volume printing
		© FILIEII M Holdings Corporation 56

Graphic Communications (Inkjet)

Inkjet business

- Providing inkjet printheads and inks for industrial-use printers for various purposes such as construction materials and ceramics.
- Striving to focus on integration businesses that incorporate printheads, ink, software such as image processing tailored to customers' needs.

Fujifilm Inkjet Technology is backed with the power of synergy and integration for development



Printheads

FUJIFILM Dimatix, Inc that boasts the world's largest scale and highest level of technological capability has a lineup of various types of printheads, catering to market needs on required resolutions, ink types and ink drop sizes







The lineup caters to not only Fujifilmbranded printers but also other companies' printers for both consumer and business use, covering a wide variety of market needs.





Fujifilm has made all-out efforts into research for "image processing technology," integrating a comprehensive range of associated fields such as materials, devices, systems and hardware

Office Solutions

Business Innovation

Business Solutions

Business Innovation

Office Solutions

Document-related office solutions provided through the sales and maintenance of multifunction devices, printers and consumables with robust security features



Business Solutions

Solution-oriented document services tailored to various industries and operations, including system integration, cloud services, management of multifunction devices and business process outsourcing, contributing to streamlining/reinforcing customers' operations and reforming work styles





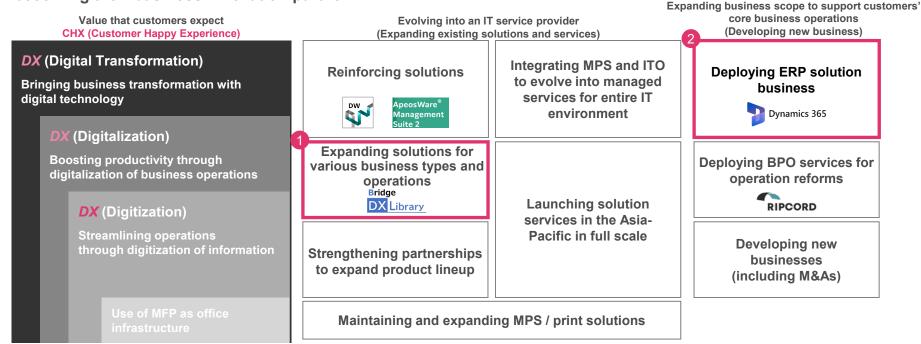




Business Innovation (Business Solutions)

Business Solutions

Offering one-stop DX services to help customers succeed and gain CHX (Customer Happy Experience), thus becoming their business innovation partner.



*MPS (Managed Print Service) ITO (IT Outsourcing)

: Optimizing the data output environment at offices to maintain and reinforce cost management, security and governance : Drawing up IT strategy for clients and assisting the introduction, administration and management of the IT environment based on the strategy BPO (Business Process Outsourcing): Offering outsourcing service of core work processes to local governments, public organizations and private enterprises

Business Innovation (Business Solutions)

Bridge DX Library

Offers solutions tailored to four industries, including construction and manufacturing, as well as solutions for business issues common to all industries, such as facilitating compliance with the Electronic Books Preservation Act, support for the invoicing system and enhancement of security, thereby becoming a bridge that guides customers to a success.

Bridge

Examples of values offer to each of the industries



- Centrally managing construction information such as surveying, quantification and quality control data to streamline construction management
- Digitizing internal and external information linkage to improve the pace and efficiency of construction management



- Manufacturing
- Protecting technical information such as design and CAD data from malware
- Using image recognition system to achieve IoT with existing production facilities



- Healthcare
- Checking medical fee breakdown data to reduce the rate of medical fee review
- Improving the quality and efficiency of online meetings at medical sites



- Welfare Services
- Protecting users from ransomware targeting welfare service businesses
- Streamlining contract-related operations and eliminating the use of paper



- Wholesale
- Outsourcing of invoice receipt for the invoicing system as well as productivity enhancement
- Preventing dependence on individual skills for customers' information by sharing business card information



- **Public** Services
- Achieving both work-style reform of employees and improvement in customer satisfaction through Municipality DX
- High-quality services can be provided even in remote areas by remote-basis support counter

Current lineup: 146 types of solutions*





DX package for various industry types and themes























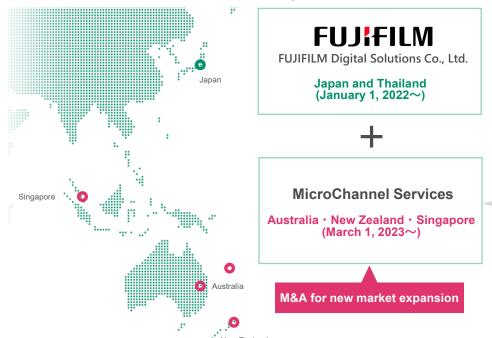


Business Innovation (Business Solutions)

QERP DX Solutions (Dynamics 365)



Deploying ERP DX solutions built on a group of cloud-based applications including Microsoft Dynamics 365. Acquiring the Australian company Microchannel Services to launch full-scale global expansion of ERP DX business, targeting mid-tier and small to mid-sized enterprises.



Including Microsoft Dynamics365, SAP, Sage and other globally-deployed ERP system packages

Supporting the sales and introduction of main **ERP systems**

One-stop support from introduction to administration, allowing all users to handle operations digitally

End-to-End service delivery

Award History

100+

Microsoft Solution Partner (previously Microsoft Dynamics 365 Gold Partner) SAP Partner of The Year - ANZ, Excellence Award ANZ - Sage Intacct etc.

Strengths: Proven track records in marketing and supporting the introduction of various ERP systems, well-established customer base and IT human resources with advanced technological expertise

Consumer Imaging

Imaging

Professional Imaging

Delivering highly competitive products that incorporate proprietary technologies to generate stable profits, while contributing to the development of photographic cultures

INSTAX Instant Camera

Expanding the lineup of high value-added products and printing demand by proposing new ways to enjoy.



Printing Business

Expand sales and profit by reinforcing sales of such high-valueadded printing services as Photobook and Wall Décor.







Photobook

Photo goods







WALL DECOR

Shacolla (Seal type)

Professional Imaging

- Established 2 pillars of differentiated mirrorless camera lineups; GFX Series with large-size, 1.7 times of the full-size sensor and ultra-high image quality, and X Series with small-sized, lightweight body and high image quality
- High optical technology and high-precision processing, assembly technologies, focusing on high-value added, growing area such as 4K/8K-compatible broadcasting lenses. Monitoring, measurement, digital signage: Promote image recognition solutions business





GFX Series



X Series



Interchangeable lens

Broadcasting, Cinema lenses



Projector



Surveillance, Machine vision lenses



Digital Signage



Investor Relations Website

FUJIFILM Holdings - Investor Relations https://ir.fujifilm.com/en/investors.html

Earnings Presentations https://ir.fujifilm.com/en/investors/ir-materials/earnings-presentations.html

- **IR Events Materials** https://ir.fujifilm.com/en/investors/ir-materials.html
- **Integrated Report** https://ir.fujifilm.com/en/investors/ir-materials/integrated-report.html
- **Sustainability Report** https://holdings.fujifilm.com/en/sustainability/report



