

**FUJIFILM**  
Value from Innovation

**NEVER  
STOP**



# ESG Briefing



**FUJIFILM Holdings Corporation**  
**February 19, 2019**

# Agenda

## 1. FUJIFILM's Thinking on ESG

Corporate VP, General Manager, Corporate  
Communications Office, Corporate Planning Div.

**Chisato Yoshizawa**

## 2. CSR Plan “Sustainable Value Plan 2030”

General Manager, CSR Group  
Corporate Planning Div.

**Motoko Kawasaki**

## 3. Medical IT Systems Providing Solutions to Issues at Medical Front

General Manager, IT Solution Div.  
Medical Systems Business Div. FUJIFILM Corporation

**Toshiyuki Nabeta**

## 4. Panel Discussion

### Social Challenges for FUJIFILM to Solve

Director **Makiko Eda**

General Manager, Corporate Communications Office

**Chisato Yoshizawa**

General Manager, CSR Group

**Motoko Kawasaki**

General Manager, IT Solution Div. Medical Systems Div.

**Toshiyuki Nabeta**

## Today's Takeaways

- ◆ **ESG is positioned at the heart of company's management and ingrained**  
CSR Plan "Sustainable Value Plan 2030" is cascaded down to and promoted in all business units through Mi-Term Management Plan "VISION2019"
- ◆ **"Providing value to society" and "contribution to company's performance" are both achieved**
- ◆ **"Formulation/execution of growth strategy" and "risk management" are continuously implemented based on social issues challenged in SDGs**

# 1. FUJIFILM's Thinking on ESG

Corporate VP, General Manager  
Corporate Communications Office  
Corporate Planning Div.

**Chisato Yoshizawa**



## 1. FUJIFILM's Corporate Philosophy and Vision

# Value from Innovation

### Corporate Philosophy

We will use leading-edge, proprietary technologies to provide top-quality products and services that **contribute to the advancement of culture, science, technology and industry, as well as improved health and environmental protection in society.** Our overarching aim is to **help enhance the quality of life of people worldwide.**

### Vision

Anchored by **an open, fair and clear corporate culture** and with leading-edge, proprietary technologies, Fujifilm is determined to remain a leading company by **boldly taking up the challenge of developing new products and creating new value.**

## 2. Company “NEVER STOP” Evolving

To become “a company driving changes”  
for a continuous growth



**Continue timely and decisive management to keep on creating new products and value**

# 3. Strengthen Corporate Governance

➤ **Basic policy regarding corporate governance**

Corporate governance is positioned as an important management priority and a basis for achieving the company’s sustainable growth and increase its corporate value, while contributing to the sustainable development of society.

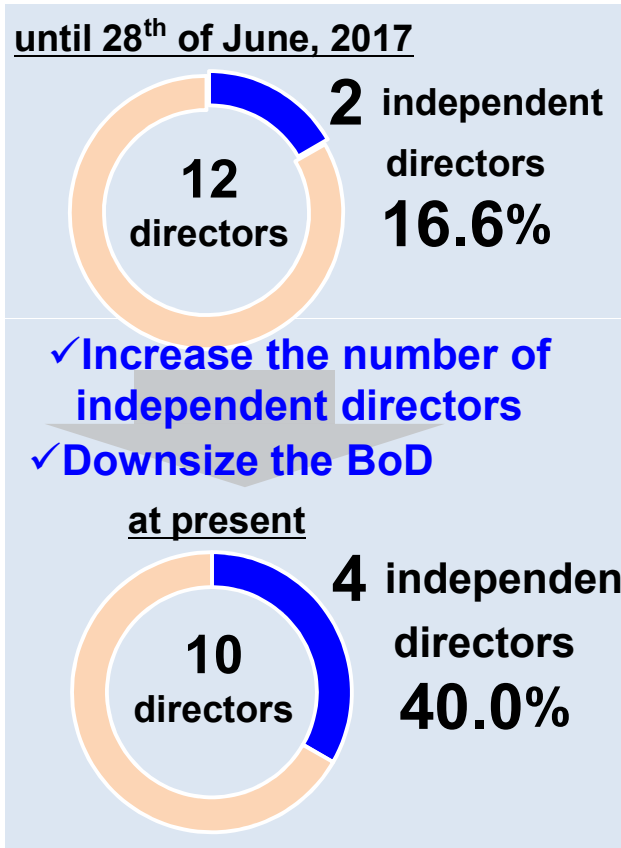
➤ **Main measures taken in recent years**

Year	Measures
2014	Increase in the number of independent directors to two persons
2015	Formulation of Corporate Governance Guidelines
	Commencement of the evaluation of the BoD’s effectiveness
2017	Increase in the number of independent directors to three persons, thereby raising the ratio of outside directors on the BoD to one-third
	Restructuring of organizations for accounting and audit etc.
2018	Increase in the number of independent directors to four persons
	Establishment of the Nomination and Remuneration Advisory Committee

**Augment corporate governance to enhance transparency in management**

# 3. Strengthen Corporate Governance

➤ Increase the number of independent directors up to 4



(Clockwise from top left)

**Makoto Kaiami**

✓ Attorney

**Kunitaro Kitamura**

✓ Chairman (Director) of Sumitomo Mitsui Trust Bank, Limited

**Tatsuo Kawada**

✓ Chairman and CEO of SEIREN CO., LTD.

**Makiko Eda**

✓ Chief Representative Officer of World Economic Forum Japan

**Ms. Eda was newly elected at GMS in 2018**

**Enhanced diversity in the composition and skill sets at BoD**

## 3. Strengthen Corporate Governance

### ➤ Established the Nomination and Remuneration Advisory Committee

#### Nomination and Remuneration Advisory Committee

- **A voluntary advisory organization of the BoD**
- **<Main Items for Discussion>**
  - A succession plan of the CEO**
  - A basic policy and procedures related to compensation for Directors**
- **<Composition>**
  - Three or more members elected by the resolution of the BoD**
  - Elect an independent director as chairman**
- **<Current members>**
  - Chairman: Mr. Kawada (independent Director)**
  - Members: Mr. Kitamura (independent Director)**
  - Mr. Komori (Representative Director & CEO)**

**Enhanced transparency related to  
succession plan and compensation**

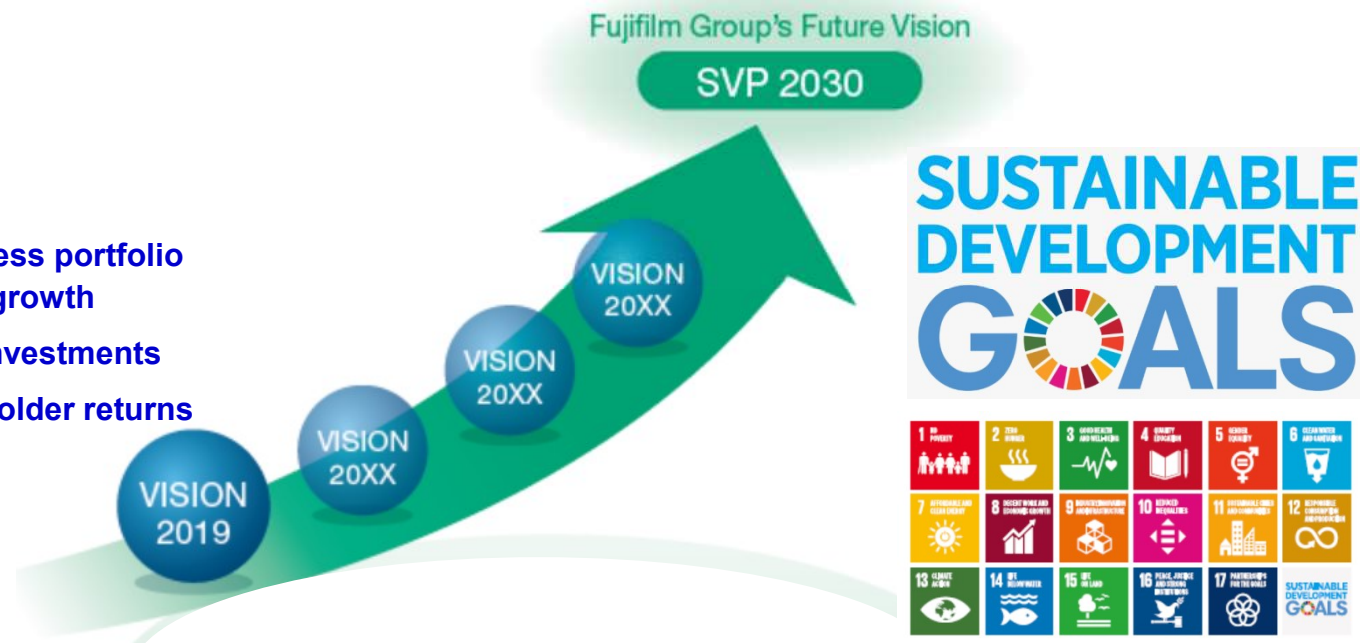
## 4. Positioning of CSR and Mid-Term Management Plan

### VISION2019

- Building a robust business portfolio to accelerate business growth
- Making strategic M&A investments
- Enhancement of shareholder returns



- Achieving the record high operating profit
- Improving ROE



**Positioning VISION2019 as an action plan for fulfilling SVP2030 and attaining its goals through business operations**

## **2. FUJIFILM's CSR Plan: Sustainable Value Plan 2030**

February 19, 2019

Motoko Kawasaki  
General Manager, CSR Group,  
Corporate Planning Division

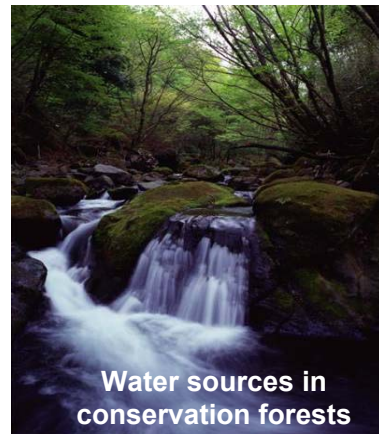
# Agenda

1. Fujifilm Group's CSR
2. Sustainable Value Plan 2030 (SVP2030)
  - 2-1. Overview of SVP2030
  - 2-2. Identifying priority issues (materiality)
  - 2-3. Initiatives in the environment field
  - 2-4. Initiatives in the healthcare field



# 1. Fujifilm Group's CSR

- Awareness and DNA at the time of corporate foundation



Water sources in conservation forests



Ashigara Site at the Kanagawa Factory

- ◇ A large amount of clean water and air is indispensable in manufacturing photographic films, which is the original foundation of Fujifilm  
⇒ Environmental considerations and conservation are essential.
- ◇ Photographic films cannot be tested before shooting. There is no re-shooting a once-in-a-lifetime moment.  
⇒ “People are paying for trust when buying photographic films.”



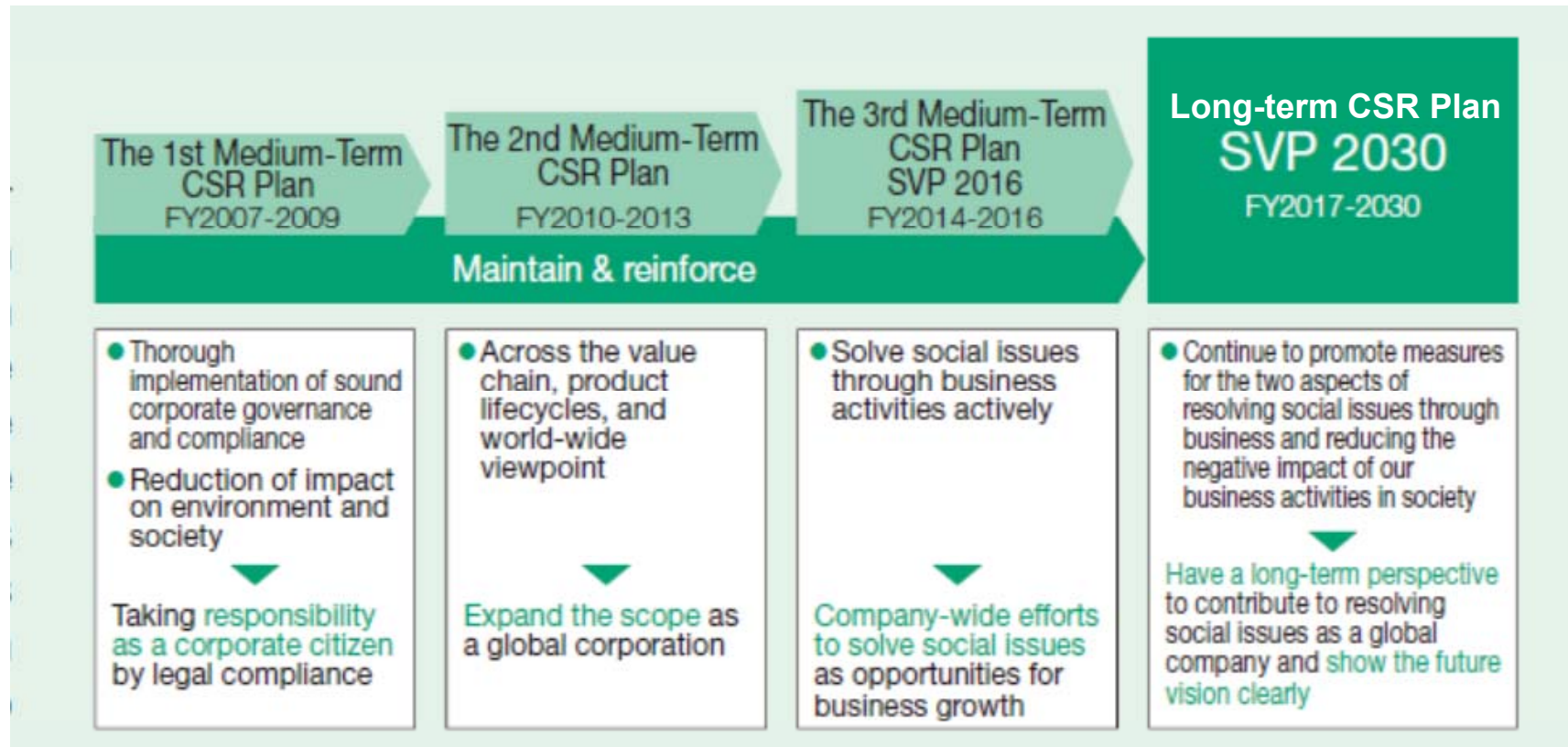
Emphasis on “environmental consideration / conservation” and “trust from society” since corporate foundation

# 1. Fujifilm Group's CSR - Approach



**“Creating new values” based on outstanding technology, and providing them to society through business operations so as to contribute to the development of sustainable society**

# 1. Fujifilm Group's CSR - Transition



**Drawing up SVP2030, a CSR plan with the target year of 2030, in which solving social issues is defined as "opportunity for business growth" and "enhancement of business foundation"**

# 1. Fujifilm Group's CSR

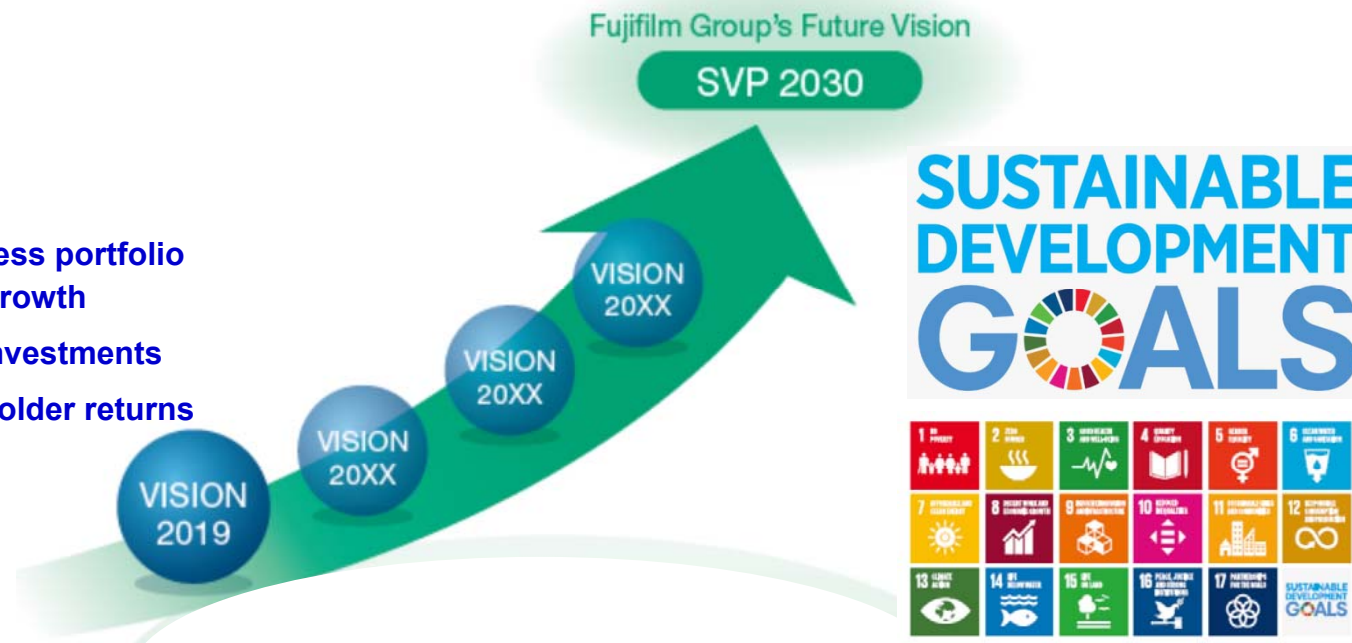
## - Positioning in management planning

### VISION2019

- Building a robust business portfolio to accelerate business growth
- Making strategic M&A investments
- Enhancement of shareholder returns



- Achieving the record high operating profit
- Improving ROE



**Positioning VISION2019 as an action plan for fulfilling SVP2030 and attaining its goals through business operation**

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# 2-1. Overview of SVP2030



## Environment

Reduce our own environmental impacts and contribute to the resolution of environmental issues.

### Priority Issue

1. Address climate change.
2. Promote recycling of resources.
3. Address energy issues toward a non-carbon society.
4. Ensure product and chemical safety.



## Health

Create a healthy society through the process of prevention, diagnosis and treatment in healthcare.

### Priority Issue

1. Fulfill unmet medical needs.
2. Improve accessibilities to medical services.
3. Contribute to identifying diseases at an early stage.
4. Contribute to health promotion and beauty.
5. Promote management of a healthy workplace.



## Daily Life

Support the tangible and intangible aspects of social infrastructure in people's lives through various products, services and technologies.

### Priority Issue

1. Contribute to creating a safe and secure society.
2. Contribute to enriching humanity and relationships between people.



## Work Style

Promote social change where every person is motivated in the workplace through extending our in-house work-style reforms.

### Priority Issue

1. Create environments that lead to motivated workplace.
2. Develop and utilize diverse human resources.



## Supply Chain

Strengthen CSR foundations across the entire supply chain including factors of the environment, ethics, and human rights.

### Priority Issue



## Governance

Improve and maintain governance structures by further disseminating an open, fair and clear corporate culture.

### Priority Issue

**Defining 15 priority issues in six priority areas, namely the “Environment,” “Health,” “Daily Life,” “Work Style,” “Supply Chain” and “Governance”**

# 2-1. Overview of SVP2030

	Solving social issues through business activities	Conscious on environmental and social impact within business processes	Contribution to SDGs
	Areas seen mainly as opportunities for growth (opportunities)	Areas seen mainly for negative impact on society (risks)	
Environment	<ol style="list-style-type: none"> <li>1. Address climate change (reduce CO<sub>2</sub> emissions in society).</li> <li>2. Promote recycling of resources (contribute with water treatment in society).</li> <li>3. Address energy issues toward a non-carbon society.</li> </ol>	<ol style="list-style-type: none"> <li>1. Address climate change (reduce CO<sub>2</sub> emissions from the Fujifilm Group).</li> <li>2. Promote recycling of resources (reduce water usage, waste, and resource input from the Fujifilm Group).</li> <li>4. Ensure product and chemical safety.</li> </ol>	
Health	<ol style="list-style-type: none"> <li>1. Fulfill unmet medical needs.</li> <li>2. Improve accessibilities to medical services.</li> <li>3. Contribute to identifying diseases at an early stage.</li> <li>4. Contribute to health promotion and beauty.</li> </ol>	<ol style="list-style-type: none"> <li>5. Promote management of a healthy workplace.</li> </ol>	
Daily Life	<ol style="list-style-type: none"> <li>1. Contribute to creating a safe and secure society.</li> <li>2. Contribute to enriching humanity and relationships between people.</li> </ol>		
Work Style	<ol style="list-style-type: none"> <li>1. Create environments that lead to motivated workplace (provide solution services).</li> </ol>	<ol style="list-style-type: none"> <li>2. Develop and utilize diverse human resources.</li> </ol>	
<b>Base for business activities</b>			
Supply Chain	Strengthen CSR foundations across the entire supply chain including factors of the environment, ethics, and human rights.		
Governance	Improve and maintain governance structures by further disseminating an open, fair and clear corporate culture.		

**Working on priority issues to contribute to solving social issues**  
**Creating new business opportunities and averting mid- to long-term management risks**

# Agenda

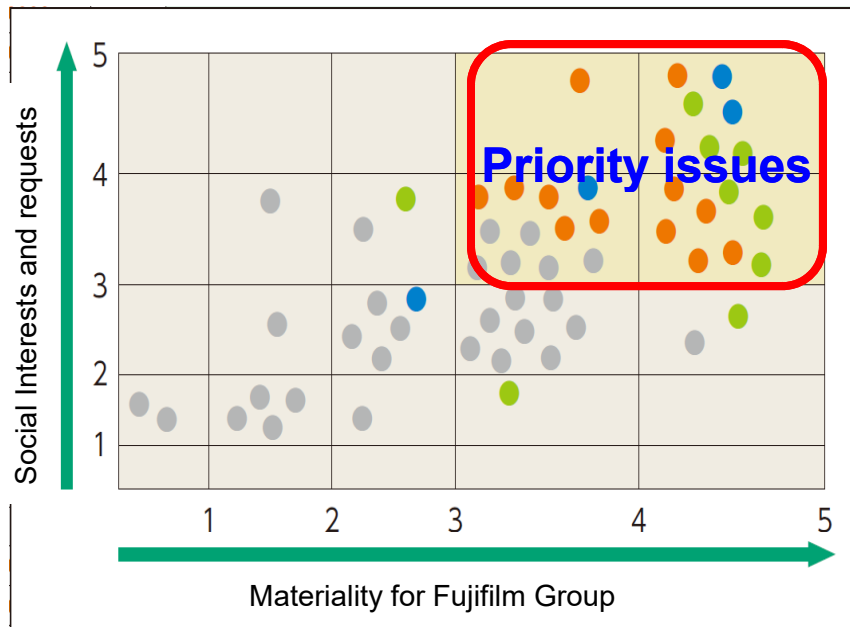
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# 2-2. Identifying priority issues (materiality)

Identifying priority issues from the perspectives of “resolving social issues through business” and “reducing strains created by business activities”

<Materiality mapping for extracting priority issues>



Identifying priority issues

## Priority areas and priority issues

- **Environment**
  - ✓ Reducing CO<sub>2</sub> emissions and contributing to the conservation of water resources
- **Health**
  - ✓ Addressing unmet medical needs
  - ✓ Improving accessibility to healthcare
  - ✓ Ensuring employees' health
- **Daily life**
  - ✓ Creating a safe and secure society
  - ✓ Enriching humanity
- **Work style**
  - ✓ Creating a work environment that leads to motivated workplace
  - ✓ Utilizing diverse human resources
- **Supply chain management**
- **Governance**

Identifying issues with a high level of “social interest / request” and “importance for the Fujifilm Group” as “materiality (priority issues)”

# 2-2. Fujifilm Group's materiality

	Photo imaging	Optical Device & Electronic Imaging	Medical systems	Bio CDMO	Pharmaceuticals	Regenerative medicine	Life science	Display materials	Electronic materials	Industrial products	Fine chemicals	Graphic systems	Inkjet	Recording media	Document solutions	Human resources
<b>Environment SDGs 6/7/13</b>																
1. Addressing climate change	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Promoting the recycling of resources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Addressing energy issues										<input type="checkbox"/>						
4. Ensuring product and chemical safety	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Health SDGs3</b>																
1. Fulfilling unmet medical needs			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>					
2. Improving accessibilities to medical services			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>					<input type="checkbox"/>					
3. Contributing to identifying diseases at an early stage			<input type="checkbox"/>								<input type="checkbox"/>					
4. Contributing to health promotion and beauty							<input type="checkbox"/>									
5. Promoting the management of healthy workplace																<input type="checkbox"/>
<b>Daily Life SDGs9/11</b>																
1. Contributing to creating a safe and secure society								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>		
2. Contributing to enriching humanity and relationship between people	<input type="checkbox"/>	<input type="checkbox"/>														
<b>Work Style SDGs5/8</b>																
1. Creating environments that lead to motivated workplace												<input type="checkbox"/>			<input type="checkbox"/>	
2. Developing and utilizing diverse human resources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Supply Chain SDGs12</b>																
Strengthening CSR foundations across the entire supply chain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Governance</b>																
Further disseminating an open, fair and clear corporate culture	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Incorporating the chosen materiality into each business division's planning**

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# 2-3. Initiatives in the environment field - SVP2030 and VISION2019

	Sustainable Value Plan 2030	VISION2019
<b>Environment</b>	<p><b>Priority issue 1: Addressing climate change</b></p> <p>(1) Reducing the Fujifilm Group's CO<sub>2</sub> emissions by 30% by FY2031/3 (from the FY2014/3 level)</p> <p>(2) Contributing to 50-million ton reduction in CO<sub>2</sub> emissions in society by FY2031/3</p>	<ul style="list-style-type: none"> <li>● <b>Recording media</b> Expanding the sales of Barium Ferrite (BaFe) magnetic particle-based tapes and deploying data archiving services overseas</li> <li>● <b>Graphic systems</b> Expanding the sales of value-added products such as process-less printing plates with advanced environmental performance</li> <li>● <b>Document solutions</b> Enhancing the value offered by solutions</li> </ul>
	<p><b>Priority issue 2: Promoting the recycling of resources</b></p> <p>(1) Reducing the Fujifilm Group's water use by 30% by FY2031/3 (from the FY2014/3 level)</p> <p>(2) Contributing to 35 million tons of water treatment in society per year by FY2031/3</p> <p>(3) Reducing the amount of waste the Fujifilm Group generates by 30% by FY2031/3 (from the FY2014/3 level)</p> <p>(4) Improving the efficiency of the Fujifilm Group's resource use per unit of production by 30% by FY2031/3 (from the FY2014/3 level)</p>	<ul style="list-style-type: none"> <li>● <b>Graphic systems and inkjet</b> Expanding the sales of value-added products such as process-less printing plates with advanced environmental performance</li> <li>● <b>Industrial products</b> Expanding the sales of high-function products such as micro-filters</li> </ul>
	<p><b>Priority issue 3: Addressing energy issues</b></p> <p>Using highly-functional materials to contribute to creating and spreading renewable energies</p>	
	<p><b>Priority issue 4: Ensuring product and chemical safety</b></p> <p>Minimizing adverse effects of chemical substances on humans and the environment</p>	<ul style="list-style-type: none"> <li>● <b>Fine chemicals</b> Developing competitive chemical products and reagents</li> </ul>

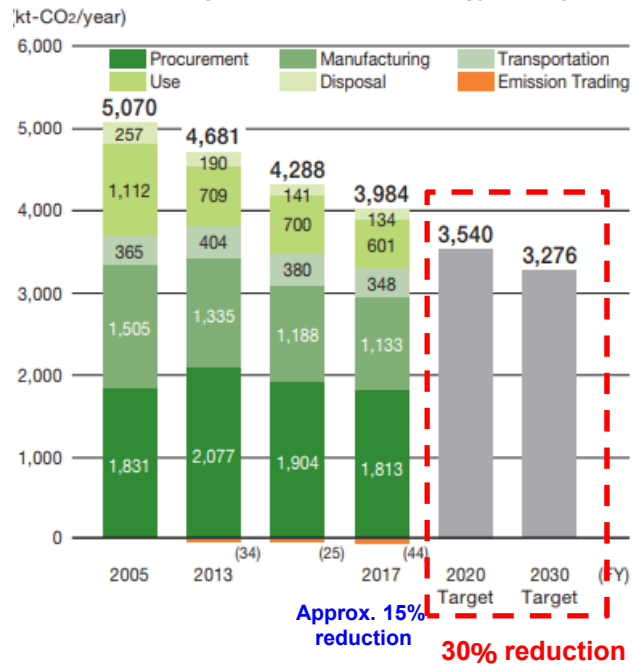
# 2-3. Initiatives in the environment field

## - CO<sub>2</sub> emission reduction by the Fujifilm Group

(1) Reducing **Fujifilm Group's CO<sub>2</sub> emissions** by 30% by FY2031/3 (from the FY2014/3 level)

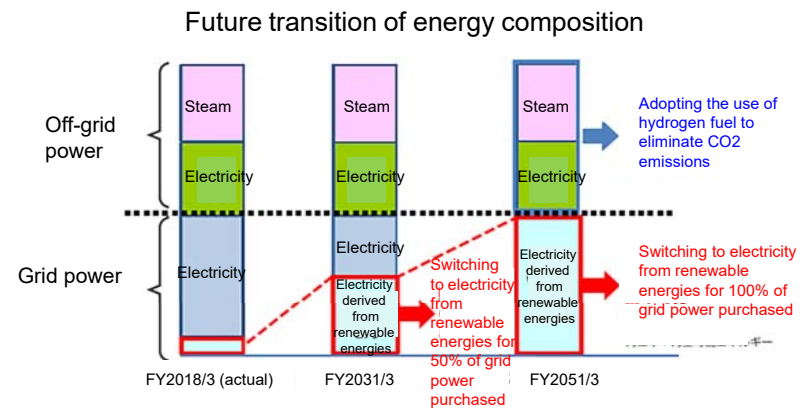
▼ **Transition of CO<sub>2</sub> emissions across the entire product life cycle**

- Maximizing energy efficiency and reducing CO<sub>2</sub> emissions in energy procurement across the entire Group
- **2016: Switching to 100% use of electricity derived from renewable energies at a Dutch factory**
- **2016: Introducing new small-scale energy supply facilities**



▼ **To achieve targets for 2030**

- Further accelerating the pursuit for energy efficiency and renewable energies
- **2020: Switching to 100% use of electricity derived from renewable energies at two Belgium factories**
- **Setting the targets for introducing renewable energies**
  - (1) Purchasing electricity derived from renewable energies at a greater proportion (50% by 2030 and 100% by 2050)
  - (2) Switching to hydrogen fuel for in-house power generation (eliminating CO<sub>2</sub> emissions)



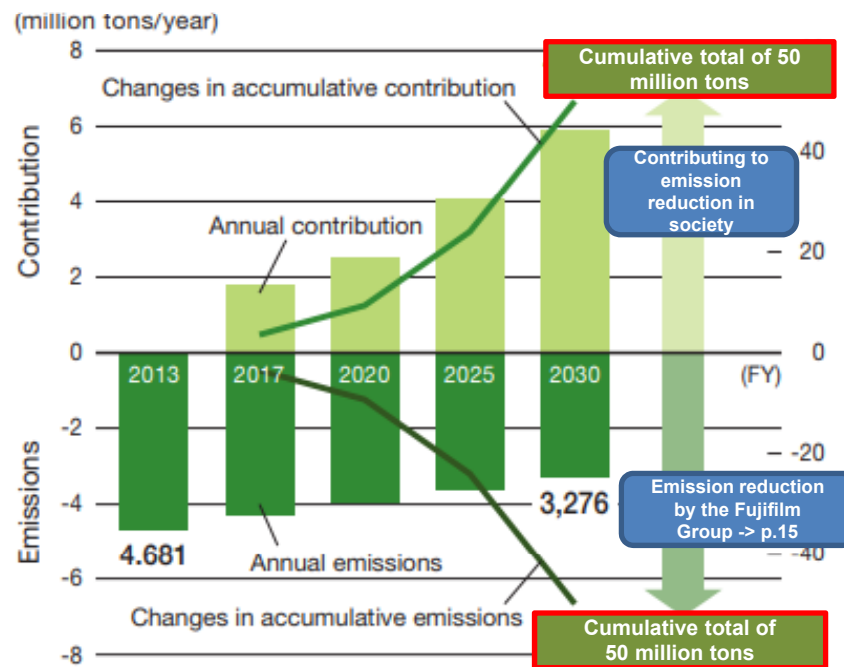
**Accelerating the use of renewable energies to be able to respond flexibly to the tightening environmental regulations etc.**

## 2-3. Initiatives in the environment field

### - Reducing CO<sub>2</sub> emissions in society

(2) Contributing to 50-million ton reduction in CO<sub>2</sub> emissions in society by FY2031/3

#### ▼ Conceptional Diagram of CO<sub>2</sub> Emission Volume and Size of Contribution



▼ Reducing environmental strains in society through the delivery of products and services

**Recording media**  
Increasing the market share for BaFe magnetic particle-based tapes and deploying data archiving services overseas

**Graphic systems**  
Expanding the sales of value-added products such as process-less printing plates with advanced environmental performance

**Document solutions**  
Enhancing the value offered by solutions

**Contributing to CO<sub>2</sub> emission reduction in society through the Group's products and services to offset the amount of CO<sub>2</sub> emissions generated by its business activities**

# 2-3. Initiatives in the environment field

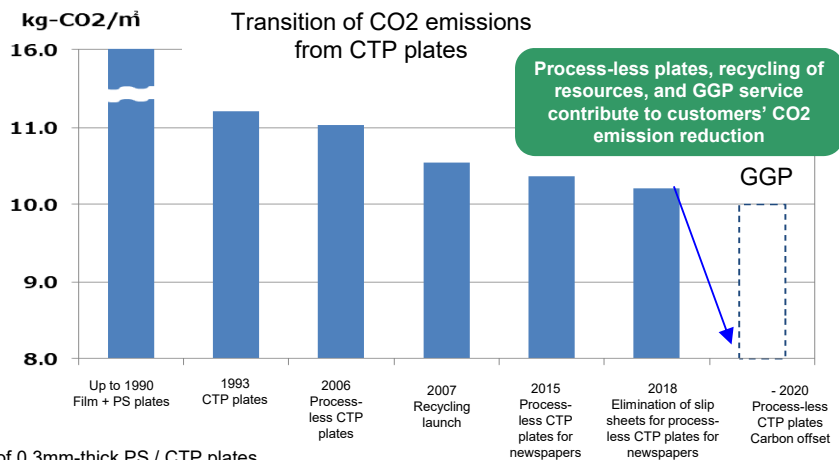
## - Reducing CO<sub>2</sub> emissions in society

● Contributing to CO<sub>2</sub> emission reduction through the graphic systems business

Contributing to customers' CO<sub>2</sub> emission reduction through the delivery of process-less thermal CTP plates, which have outstanding environmental performance

- Reducing environmental impact through design for environment
- Launched "Green Graphic Project (GGP)" in 2018

- 1993 Launch of CTP plates (film-less processing)
- 2006 Launch of "process-less CTP plates" (eliminating the need for developing process)
- 2007 Launch of closed-loop recycling
- 2010 Starting carbon footprint (CFP) labeling
- 2015 Releasing process-less CTP plates for newspapers
- 2018 Eliminating the need for interleaf paper for process-less CTP plates for newspapers



\* In the case of 0.3mm-thick PS / CTP plates

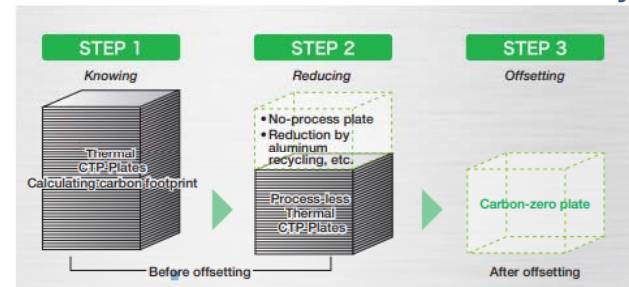
**GREEN GRAPHIC PROJECT**

Printing companies/  
News paper companies

**FUJIFILM**

Initiatives: **Providing carbon-zero plates using carbon offset**

Carbon Offset Scheme by Process-less CTP Plates → CO<sub>2</sub> reduction in the total industry



**Strengthening ties with customers by expanding the sales of process-less thermal CTP plates and Green Graphic Project to achieve the reduction of an environmental burden in the total industry and business growth**

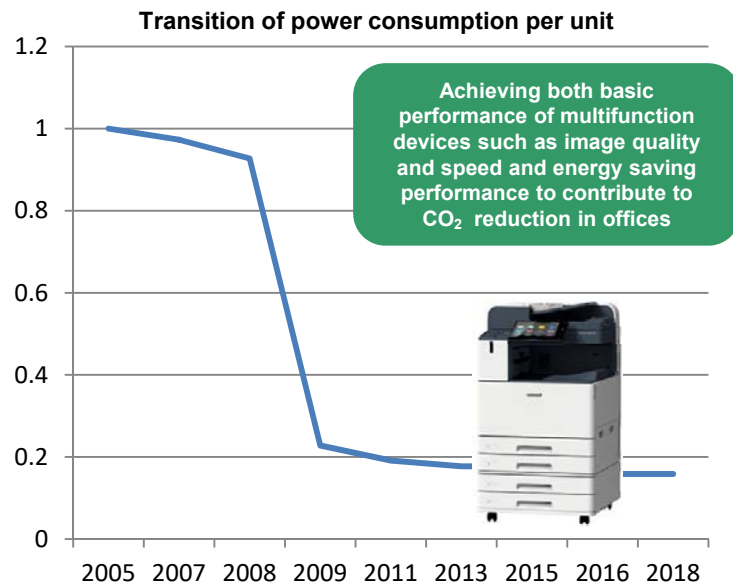
# 2-3. Initiatives in the environment field

## - Reducing CO<sub>2</sub> emissions in society

### ● Contributing to CO<sub>2</sub> emission reduction through document solutions

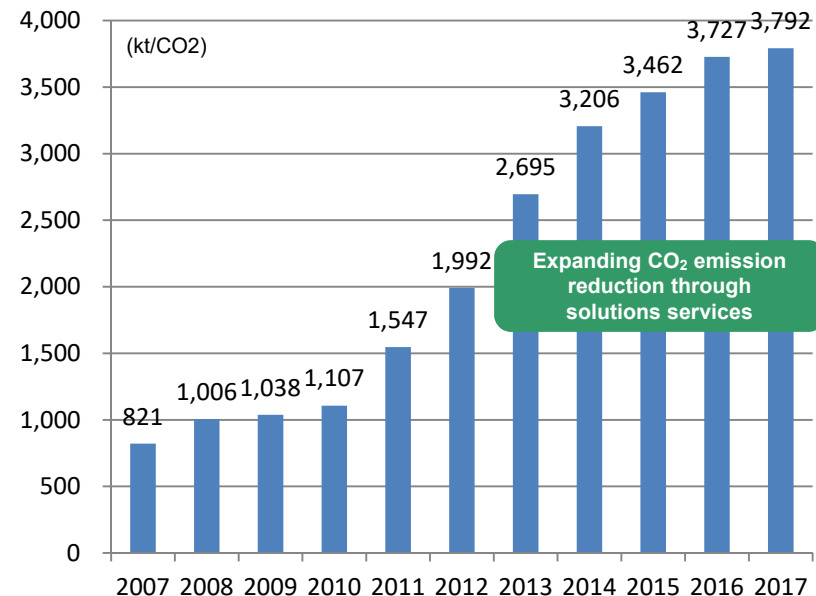
Offering environmentally-conscious multifunction devices, solutions and services to contribute to customers' CO<sub>2</sub> reduction

• Increased energy efficiency in photocopiers and multifunction devices



※ TEC value: Typical Electricity Consumption per week  
This concept is used to compare energy efficiency of products, similarly to fuel economy figures for automotive.

• Contribution to CO<sub>2</sub> emission reduction at customers' offices and factories



**Contributing to optimization of office activities and reduction of environmental burden by thoroughly implementing energy saving of multifunction devices and expanding solution services.**



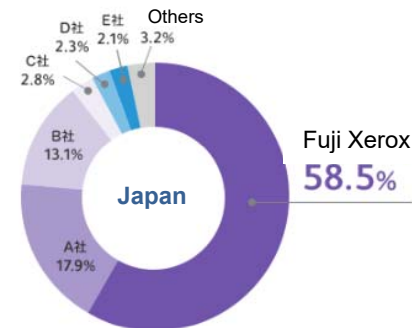
# 2-3. Initiatives in the environment field

## - Reducing CO<sub>2</sub> emissions in society

### ● Contributing to CO<sub>2</sub> emission reduction through document solutions

- Offering the Managed Print Service (MPS) to reduce customers' cost and CO<sub>2</sub> emissions (2015 – 2017 actual)
- Reviewing models and layout of multifunction devices and suggesting the optimum layout  
⇒ Number of installation units reduced: by approx. 24% after optimization
- Suggesting work process improvement, e.g. electronically handling tasks that used to be carried out with hardcopies, to reduce paper use and increase productivity  
⇒ Paper use reduced: by approx. 10% after optimization
- Using reconditioned devices that meet the quality standards equivalent to new products  
⇒ Introduction rate of reconditioned devices: 43% after optimization (0% before optimization)

Market share in sales in MPS market, 2017



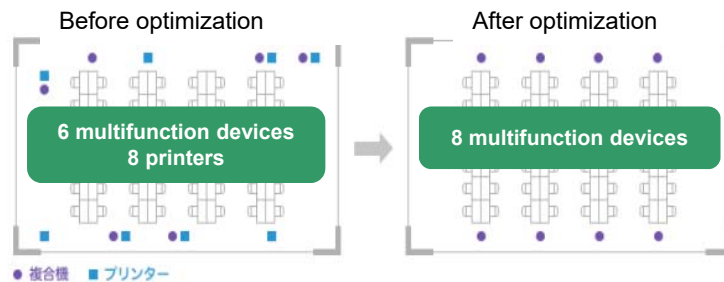
Market share in MPS sales in Japan and worldwide\*  
**No.1**

\*Total amount including the sales of Xerox Corporation

IDC Japan “Market share of MPS in Japan, 2017: Strategies of vendors in domestic market”, June 2018

### Reduction of CO<sub>2</sub> emissions: 13,400 t - CO<sub>2</sub> after optimization

#### <Example of reduction>



Achieving cost reduction and mitigation of environmental burden at the same time

### Winning minister's prize held by METI and Ministry of Environment

Winner of the METI Minister's Prize of FY2017 Energy Conservation Grand Prize in the business model category



Winner of the FY2018 Environment Minister's Award for Global Warming Prevention Activity in the advanced counter-measure technologies category



Through expansion of service business, accelerate ”growth in document business” and “reduction of environmental burden at customers’ offices”

# 2-3. Initiatives in the environment field - Environmental accounting

**<Objectives of environmental accounting>**

- (1) Providing internal and external stakeholders with correct environmental information quantified in terms of mass and economy**
- (2) Providing numerical environmental information that is used in decision-making by senior management and site managers**

(100 million yen)

Environmental accounting (FY2018/3)	Environmental conservation costs		Environmental conservation benefits			
	Capital investments	Expenses	Economic impact inside the Group		Economic impact outside the Group	
1. Costs incurred within the business site						
(1) Environmental damage prevention	3.8	14.1	Reduced pollution levy	0.1	Reduction in VOC emissions *1	-0.3
(2) Global environmental protection	7.1	21.9	Energy conservation	4.9	Reduction in CO <sub>2</sub> emissions *2	0.2
(3) Resource recycling	0.0	21.6	Reduced raw materials and resources used	62.6	Reduced waste materials through reuse and recycling *3	144.5
			Reduced water resource consumption *4	3.3		
			Silver	16.2		
			Polymeric materials	3.2		
			Aluminum materials	1.5		
			Others	1.8		0.0
2. Upstream/downstream costs Recovery from the market	0.1	70.0	Parts recovered from used equipment	80.4		
3. Cost of management activities	0.5	107.4				
4. Research and development costs	13.7	95.3			Impact of reduced environmental load at customers	1,197.5
5. Costs for social programs	0.0	1.2				0.0
6. Costs for handling environmental damage Pollution levies	0.0	0.3				0.0
Subtotal	25.1	331.8		173.9		1,342.3
<b>Total</b>	<b>356.9</b>			<b>1,516.2</b>		

\*1 VOC emission reductions: ¥350,000/ton

From the "Economics Evaluation Report on Countermeasures for Harmful Atmospheric Pollutants" issued by Japan Environmental Management Association for Industry, February 2004.

\*2 CO<sub>2</sub> emission reductions: ¥1,510.4/tons Trading price of EU emission credit 2018 futures (€11.54/ton) in March 2018.

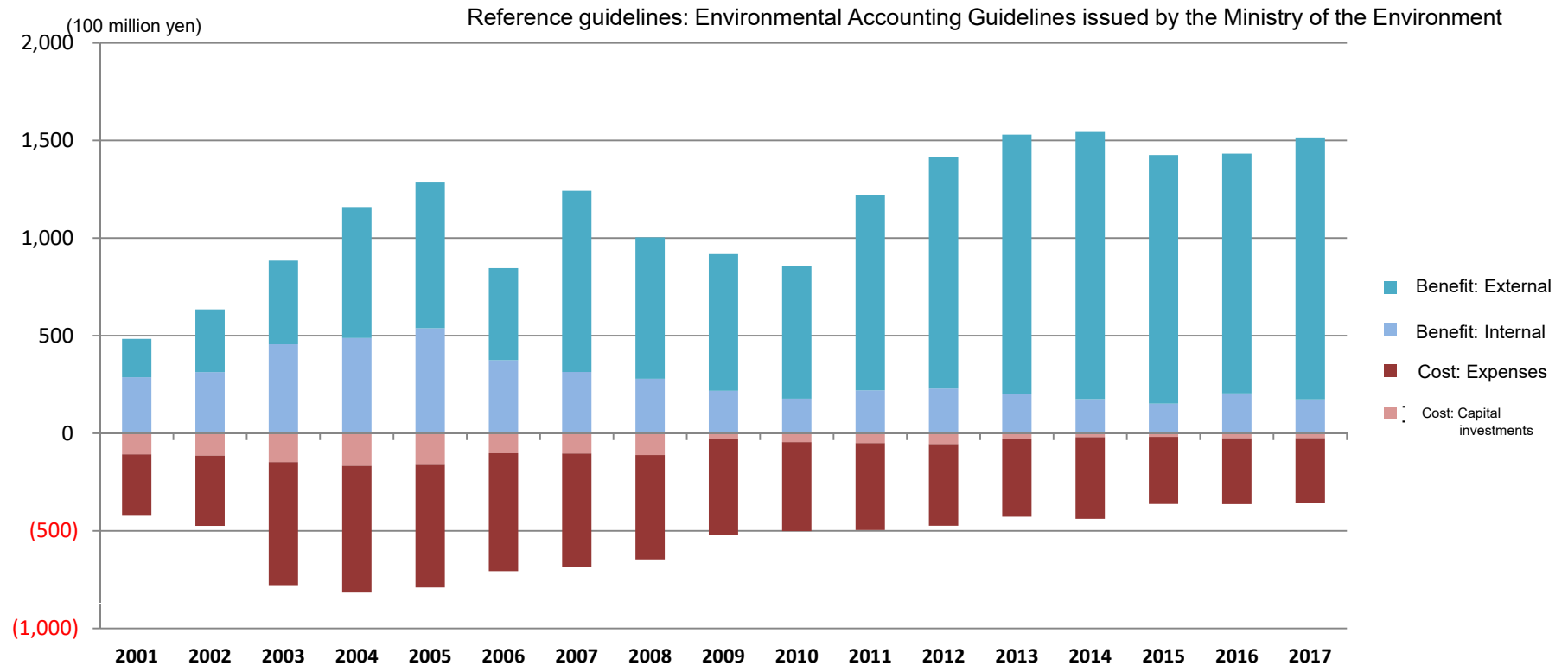
\*3 Landfill costs for the waste product (¥100/kg)

\*4 ¥200/ton for clean water supply, ¥200/ton for sewage water

# 2-3. Initiatives in the environment field

## - Environmental accounting

### Transition of investments and benefits (value)



**Managing conservation-related costs and benefits in terms of monetary value and using the information as an important indicator for management's decision-making**

# Agenda

1. Fujifilm Group's CSR
2. Sustainable Value Plan 2030 (SVP2030)
  - 2-1. Overview of SVP2030
  - 2-2. Identifying priority issues (materiality)
  - 2-3. Initiatives in the environment field
  - 2-4. Initiatives in the healthcare field

# 2-4. Initiatives in the healthcare field

## - SVP2030 and VISION2019

	Sustainable Value Plan 2030	VISION2019
Health	<p><b>Priority issue 1. Fulfilling unmet medical needs (Measures against cancer, infectious diseases, Alzheimer's Disease, etc.)</b> Developing and disseminating new treatments including regenerative medicine and cell therapies</p>	<p><b>Pharmaceuticals and bio CDMO</b></p> <ul style="list-style-type: none"> <li>• Developing innovative drugs in areas of high unmet medical needs</li> <li>• Achieving practical application of drug formulation technology, e.g. liposomes</li> </ul> <p><b>Regenerative medicine</b></p> <ul style="list-style-type: none"> <li>• Using iPS cells for R&amp;D of regenerative medicine products</li> <li>• Expanding the contract culturing business and the culturing business globally</li> </ul>
	<p><b>Priority issue 2. Improving accessibility to medical services (Home care, healthcare in emerging countries, emergency medicine, etc.)</b> (1) Reducing burden on doctors and medical staff by utilizing IT (2) Developing and disseminating a diagnostic system for infectious diseases to contribute to global health (3) Offering technical diagnosis training and spreading effective health practices to emerging countries</p>	<p><b>● Medical systems</b></p> <ul style="list-style-type: none"> <li>• Offering solutions that combine various diagnostic devices with medical IT</li> <li>• Promoting the medical ICT business that uses diagnostic imaging data</li> <li>• Offering goods and services that meet the needs of emerging countries</li> </ul>
	<p><b>Priority issue 3. Contributing to identifying diseases at an early stage</b> Spreading health checkup services with simplified testing to achieve early detection of medical conditions</p>	
	<p><b>Priority issue 4. Contributing to health promotion and beauty</b> (1) Initiative for extending healthy life expectancy (2) Assisting women's empowerment</p>	<p><b>Life science</b></p> <ul style="list-style-type: none"> <li>• Introducing foods with functional claims, targeting markets for lifestyle disease prevention and anti-aging</li> <li>• Promoting <i>ASTALIFT In-Focus</i> to strengthen the brand</li> </ul>
	<p><b>Priority issue 5. Promoting management of healthy workplace</b> Promoting healthy business management to maintain employees' vitality</p>	<p><b>(Increasing employees' vitality)</b></p>

## 2-4. Initiatives in the healthcare field

### Priority issue 2. Improving accessibility to medical services

#### (1) Reducing burden on doctors and medical staff by utilizing IT

Launched the healthcare AI technology brand, "REiLI" (April 2018)

Initiating joint research with AI technology vendors and medical institutes, e.g. partnering with Tokyo University's spin-out venture, LPixel

#### (2) Developing and disseminating a diagnostic system for infectious diseases that contributes to global health

Completing Phase 1 development of the "TB-LAM" kit for fast and highly-sensitive diagnosis of tuberculosis, under development by Fujifilm and FIND\* with funding from the Global Health Innovative Technology Fund (GHIT Fund), aimed at creating innovative therapeutics, vaccines and diagnostics originating from Japan

#### (3) Offering technical diagnosis training and spreading effective health practices to emerging countries

- Reaching an agreement to establish Saudi Arabia's first "women's health check center"
- Holding the first "Fujifilm Mammography World Conference"
- Participating in outbound business, ODA projects, etc.

\* FIND (Foundation for Innovative New Diagnostics) : Switzerland's not-for-profit organization aimed at developing and spreading new diagnostic technologies for infectious diseases, suitable for use in developing countries



Exchanging a memorandum of understanding with Princess Reema, who is responsible for promoting women's sports at the General Sports Authority

### Priority issue 3. Contributing to identifying diseases at an early stage

Spreading simplified testing services to achieve early detection of medical conditions

# Today's takeaways

**CSR has been established as part of the management foundation of the Fujifilm Group.**

- ◆ Fujifilm has a CSR plan and a management plan that reflect social demands such as SDGs, and incorporate them into business activities.
- ◆ Fujifilm has track records and plans substantiated by data.
- ◆ In the environment field, in particular, Fujifilm identifies and manages its investments and their benefits quantitatively.
- ◆ Fujifilm draws up and implements plans that can “grow business” and “resolve social issues” at the same time.

**FUJIFILM**  
**Value from Innovation**



# ESG-related ratings and prizes

## SRI指標構成銘柄への組み入れ

**FTSE4Good  
Global Index**

FTSE4Good

**Indices incorporated by GPIF**

FTSE Blossom Japan

S&P/JPX  
Carbon  
Efficient  
Index

MSCI

MSCI Japan Empowering Women (WIN) Select Index



Climate change : B  
Water : B-  
Supply chain : A



The 2018 Certified  
Health and Productivity  
Management Organization  
Recognition Program



攻めのIT経営銘柄2018  
Competitive IT Strategy Company

Prize	Rating
14th Toyokeizai CSR Ranking 2018	5th / 1,501 companies (565.2 point)
21th "Environmental Management"	18th / 395 companies (1st for 11 years in chemical/oil sector)
10th "Quality Management" 2018	18th / 193 companies (1st in chemical/textile/pharmaceutical sector)
22nd Environmental Communication	[Environmental reporting] Excellent sustainability

Integrated Report 2018 was elected as "excellent" and "improved" by GPIF's asset management companies



# 3. Medical IT Systems Providing Solutions to Issues at Medical Front

February 19, 2019

## Toshiyuki Nabeta

General Manager, Medical Systems R&D Center and  
General Manager, IT Solution Division, Medical  
Systems Business Division

## Today's Takeaways

1. Through the medical systems business mainly in the area of medical IT, FUJIFILM is contributing to resolving healthcare challenges such as the need for “early detection of diseases” and “improved accessibilities to medical services”.
2. By promoting solutions to healthcare challenges, FUJIFILM is boosting its presence in the global market to achieve business growth.
3. FUJIFILM is leading the formation of an open medical AI platform in collaboration with medical / research institutions and AI vendors worldwide to realize the future where everyone can receive high-quality healthcare.

# Agenda

## **1. Overview of the Medical Systems Business**

## 2. Healthcare Issues in Our Society

## **3. Solving Healthcare Issues with Medical IT Systems**

3-1. Expanding / spreading services that reduce burden of healthcare workers

3-2. Expanding / spreading diagnostic systems that contribute to global health

3-3. Contribution to identifying diseases at an early stage: spreading double reading services

3-4. Business expansion through solving healthcare challenges

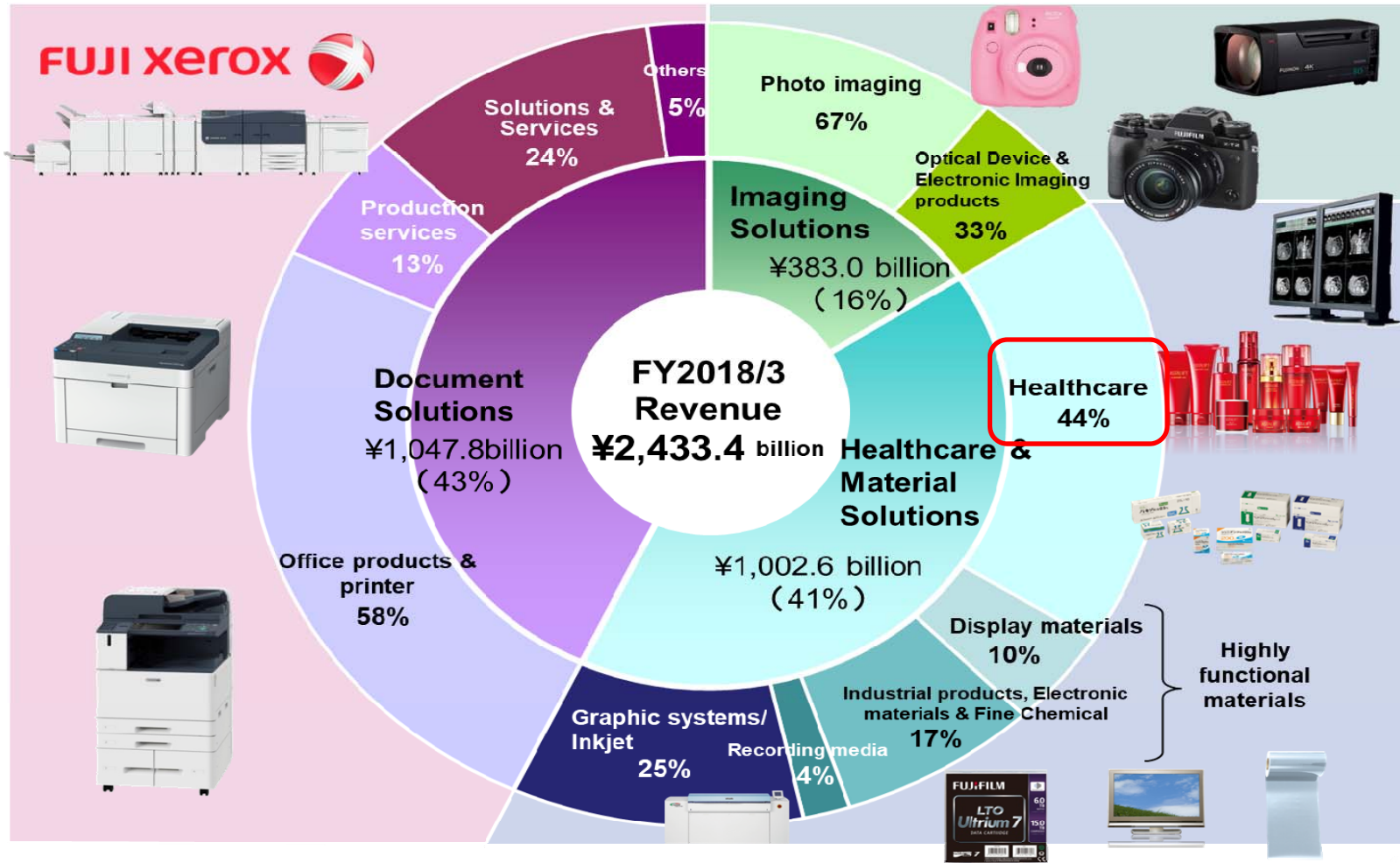
## **4. Use of AI Technology to Offer Greater Value**

4-1. AI technology trends in healthcare

4-2. REiLI, FUJIFILM's AI technology

4-3. Building a medical AI platform

# 1. Overview of the Medical Systems Business ~ Positioning



The largest segment that supports the growth of the healthcare business, which is FUJIFILM's priority business category

# 1. Overview of the Medical Systems Business ~ Products and services



**Achieving growth by linking "medical IT" solutions to various products and services in "diagnostic X-ray imaging," "endoscopy," "ultrasound" and "IVD (in-vitro diagnostics)"**

# Agenda

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## 2. Healthcare Issues in Our Society

### ■ Growing healthcare cost from aging and population increase

- The average life expectancy of WHO member nations in 2016 was **72 years**, i.e. **four-year increase from 2008** (84 in Japan, 81 in UK, 79 in USA, 76 in China and 69 in India)<sup>1</sup>
- Average annual growth rate of **healthcare expenditures** (2014-2018) **Western Europe 2.4%, North America 4.9% Asia and Australia 8.1%, Middle East and Africa 8.7%**<sup>2</sup>

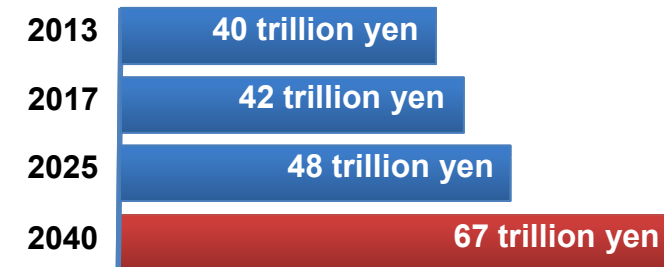
### ■ Regional disparity in medical services

- **Industrialized nations account for 77% of the world's healthcare expenditures** (2014).  
The ratio of developing nations is expected to rise from **23%** in 2014 to **32%** in 2020.<sup>3</sup>

### ■ Shortages of doctors, nurses and other healthcare workers and their harsh working conditions (supply-demand gap)

- Shortages of **17 million** healthcare workers around the world (**11 million in Africa and Southeast Asia alone**)<sup>4</sup>

### [Outlook of national healthcare expenditures (Japan)]<sup>5</sup>

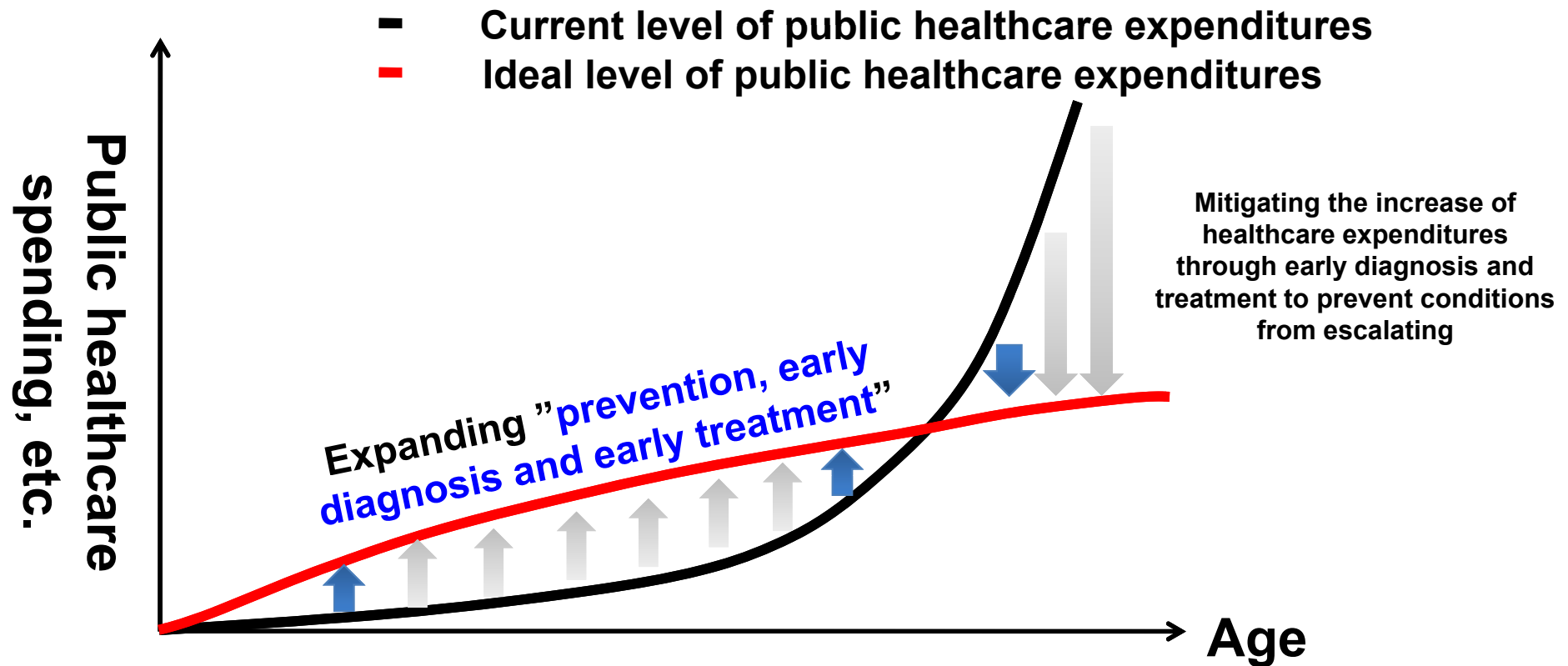


Sources:

1. Life expectancy data, World Health Organization, <http://apps.who.int/gho/data/node.main.688?lang=en>
2. 2015 Global life sciences outlook: Adapting in an era of transformation. Deloitte DTTL, 2014
3. Informa Plc Market Line Extracted October 2014
4. Health workers density and distribution, World Health Organization
5. "Trend of healthcare expenditures in FY2017" and "Future outlook of social security toward 2040," Research Section, Health Insurance Bureau, Ministry of Health, Labor and Welfare

**Increase in healthcare and other social spending, and shortages of talents have emerged as urgent issues world wide**

## 2. Healthcare Issues in Our Society



Shifting the focus from "treatment of exacerbated conditions" to "prevention, early diagnosis and early treatment" to reduce public healthcare cost

# Agenda

1. Overview of the Medical Systems Business
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3. **Solving Healthcare Issues with Medical IT Systems**
  - 3-1. Expanding / spreading services that reduce burden of healthcare workers
  - 3-2. Expanding / spreading diagnostic systems that contribute to global health
  - 3-3. Contribution to identifying diseases at an early stage: spreading double reading services
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### 3-1. Expanding / spreading services that reduce burden of healthcare workers

#### Medical imaging and information management system (PACS)

**P**icture  
**A**rchiving and  
**C**ommunication  
**S**ystem

#### SYNAPSE Series of medical imaging and information management systems

Medical imaging and information management system

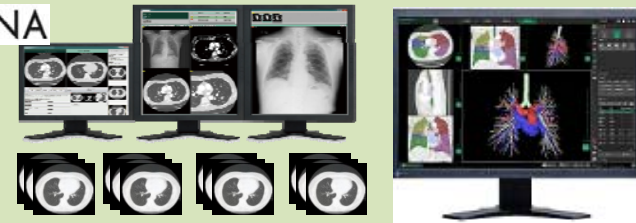
SYNAPSE

Vendor-neutral archive system

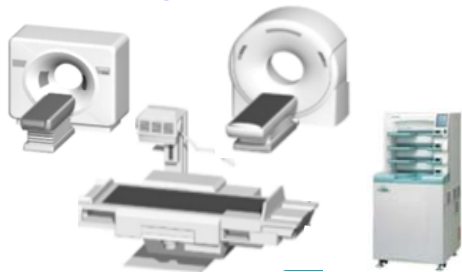
SYNAPSE VNA

3D image analysis system

SYNAPSE VINCENT

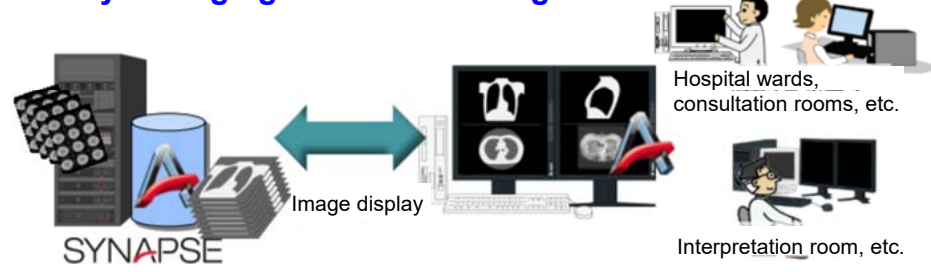


#### Scanning



X-ray/CT/MRI scans

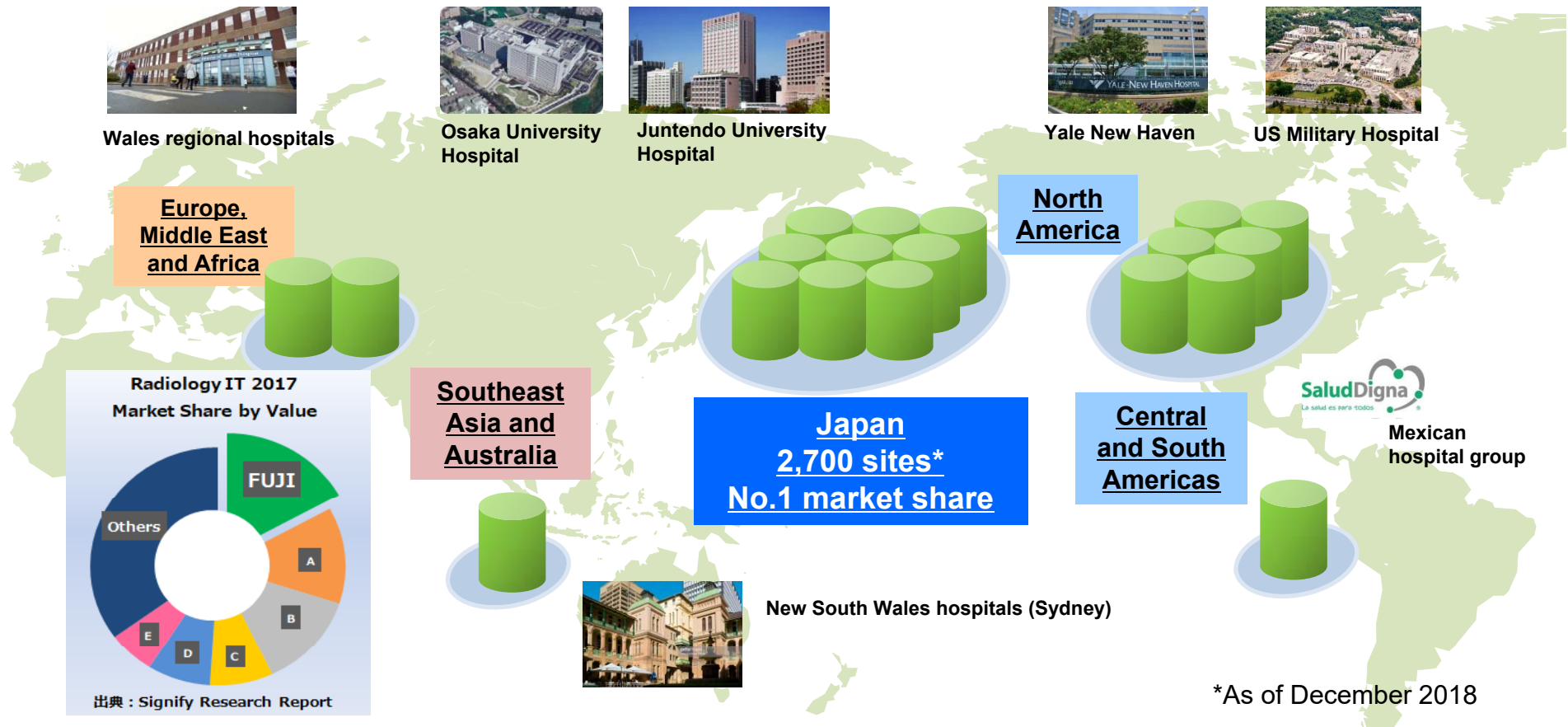
#### Centrally managing various test images



Searchable and referenceable anytime and anywhere  
to support swift diagnosis

Reducing healthcare workers' burden by adopting SYNAPSE series of medical imaging and information management systems as a platform for storing and managing image data within hospitals

**3-1. Expanding / spreading services that reduce burden of healthcare workers**



**SYNAPSE is used at 5,100 sites worldwide\*, getting wonderful feedbacks from key hospitals in various areas and captured the world's top market share (FY2017).**

## 3-2. Expanding / spreading diagnostic systems that contribute to global health

### Improving healthcare environment of emerging countries (FY2015-2017)

Under the Japanese government's initiative to assist international deployment of healthcare technologies and services, FUJIFILM has participated in 27 projects in 13 countries since 2015.

**Japanese medical check up systems have been introduced to emerging countries, improving their healthcare environment.**

<Examples of deploying FUJIFILM's medical IT systems and medical equipment>

- Signing a memorandum of understanding with Saudi Arabia's General Sport Authority in January 2018 on the establishment of the country's first "Women's Health Center"
- Assisting the improvement of healthcare environment in five Mekong nations (Thailand, Laos, Myanmar, Cambodia and Vietnam), Indonesia, Brazil, etc. by transferring diagnostic technologies or building a remote diagnosis model



**Improving the healthcare environment of emerging countries to boost the company's market presence**

## 3-2. Expanding / spreading diagnostic systems that contribute to global health

### Improving the healthcare environment of emerging countries (FY2018-2019 : Mexico)

- Evaluating a cloud-based and AI-powered radiographic image reading system across Mexico
- Assisting the stable delivery of high-quality diagnosis without a massive capital investment or employment of specialists

#### Mexico's healthcare challenges and needs

- Serious doctor shortages creating a risk of failing to identify diseases
- Healthcare service disparity between regional communities and large cities, which are dotted across vast national land

System implementation across Mexico is targeted in collaboration with Salud Digna, one of Mexico's largest imaging centers



#### Solving issues in countries that lack healthcare resources

Offering AI-powered diagnostic imaging services to prevent failure to identify diseases

+

Offering the services above on the cloud basis to build a national network

Providing access to high-quality healthcare anywhere and anytime



#### Contribution to FUJIFILM's business growth

- Boosting FUJIFILM's presence in Mexico
- Accumulating know-how obtained in Mexico to build advanced services for emerging markets
- Considering service deployment to other emerging countries

**Assisting delivery of high-quality diagnosis in areas with limited medical resources  
Designing business model packages and deploying them worldwide  
to contribute to resolving disparity in healthcare standards**



### 3-3. Contribution to identifying diseases at an early stage: spreading second reading services

#### Assisting local governments in their effort to build public gastric cancer screening services (population screening)

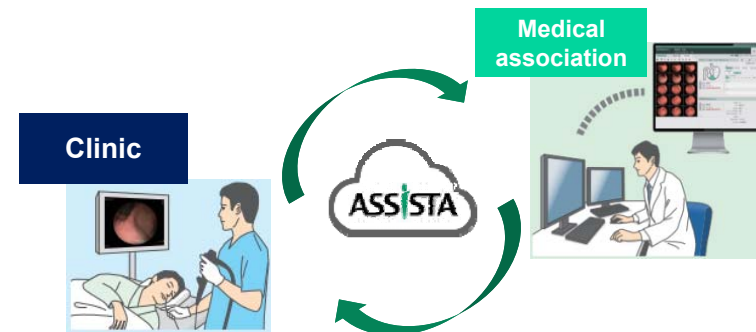
- Offering **second reading system**, designed around cloud-based ASSISTA system for medical institutes  
Connecting local clinics and specialists registered in medical associations to provide an **advanced level of second reading**

#### Healthcare challenges and needs in Japan

- Skyrocketing healthcare expenditures due to population aging, etc.
- Spreading and expanding double reading, defined in government guidance
- Shortages of specialists for gastric cancer, etc.

#### Contributing to solving healthcare challenges

- Providing second reading by specialists to contribute to early detection of gastric cancer
- Evenly providing advanced healthcare to municipalities
- Mitigating the increase of healthcare expenditures through early detection and early treatment



#### Contributing to FUJIFILM's business growth

- Expanding the system to lung / breast cancer screening
- Offering a wide range of FUJIFILM's medical equipment products to medical institutions in jurisdictions enrolled in the program
- Using obtained know-how to consider introducing the system overseas

**Improving the early detection rate of diseases and  
accelerating the growth of the medical systems business**



# 3-4. Business Expansion through Solving Healthcare Challenges



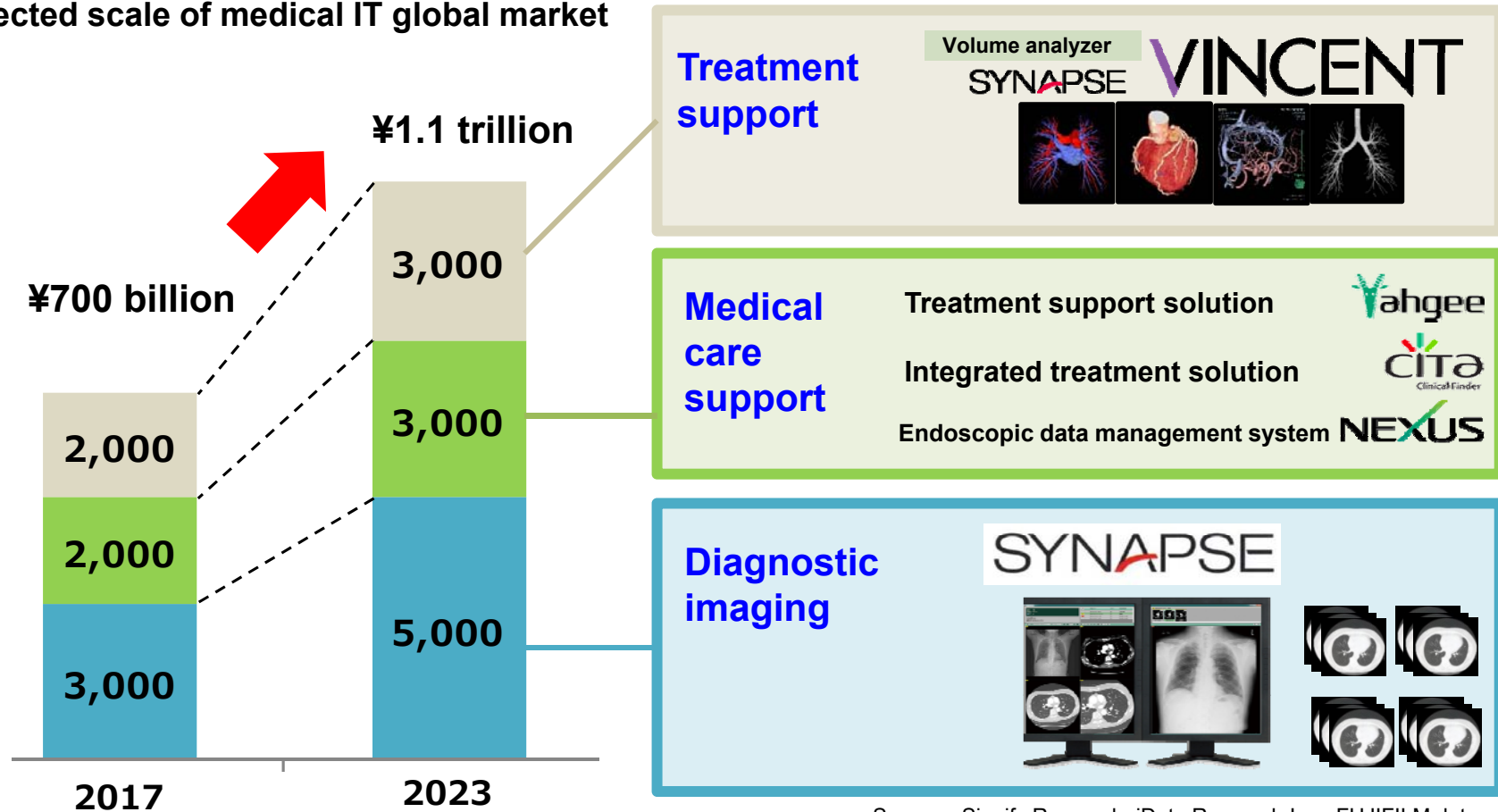
**Medical IT forms the foundation for all segments to drive the growth of the medical systems business**

# Agenda

1. Overview of the Medical Systems Business
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  - 4-3. Building a medical AI platform

# Medical IT market pioneered with AI technology

Projected scale of medical IT global market



Source : Signify Research, iData Research Inc., FUJIFILM data

**Strong market growth is anticipated in all segments i.e. treatment support, diagnostic support and diagnostic imaging**

# 4-1. AI technology trends in healthcare

■ **Japan: Ministry of Health, Labor and Welfare (MHLW)**  
The ministry's advisory panel for promoting AI use in the health and medical field (6/27/2017)

Selecting six priority fields for AI development

- 1) Japan's strengths in health and medical technology in these fields
- 2) Challenges that Japan must address in these fields

<b>Six priority fields</b>	Genomic medicine	Diagnostic imaging support
	Diagnosis and treatment support	Pharmaceutical development
	Nursing care and dementia	Surgery assistance

MHLW: Report by the advisory panel for promoting AI use in the health and medical field

■ **Overseas : RSNA2018 latest survey results**  
• Increase in the number of companies exhibiting AI-related contents; AI dominating themes by academic societies

	2016	2017	2018
Number of presentations by academic societies	42	151	216
Number of companies exhibiting AI	5	49	105

- **Title of 2018 keynote**  
“Medical practitioners and technologists who cannot use AI will be eradicated by those who can.”
- AI with various forms of deep learning is demonstrating performance that surpasses diagnosis by radiologists, but it has yet to be incorporated into actual workflows.

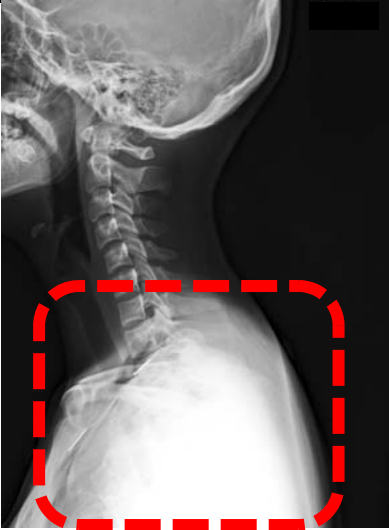
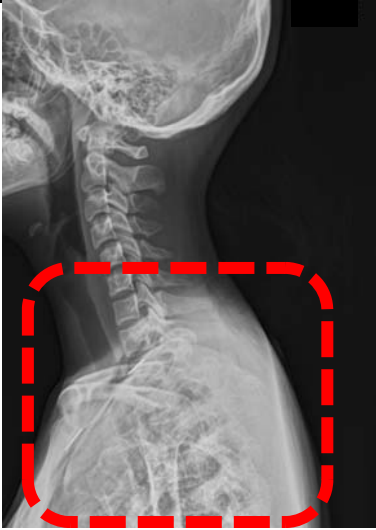


**Growing expectations for AI development in the healthcare sector in and outside Japan**

# 4-1. AI technology trends in healthcare

Results of in-house trials for AI on chest X-ray

- "Data quality and learning method" are important in improving AI accuracy.  
Merely having a large volume of training data would not improve AI performance unless the data is of high quality.

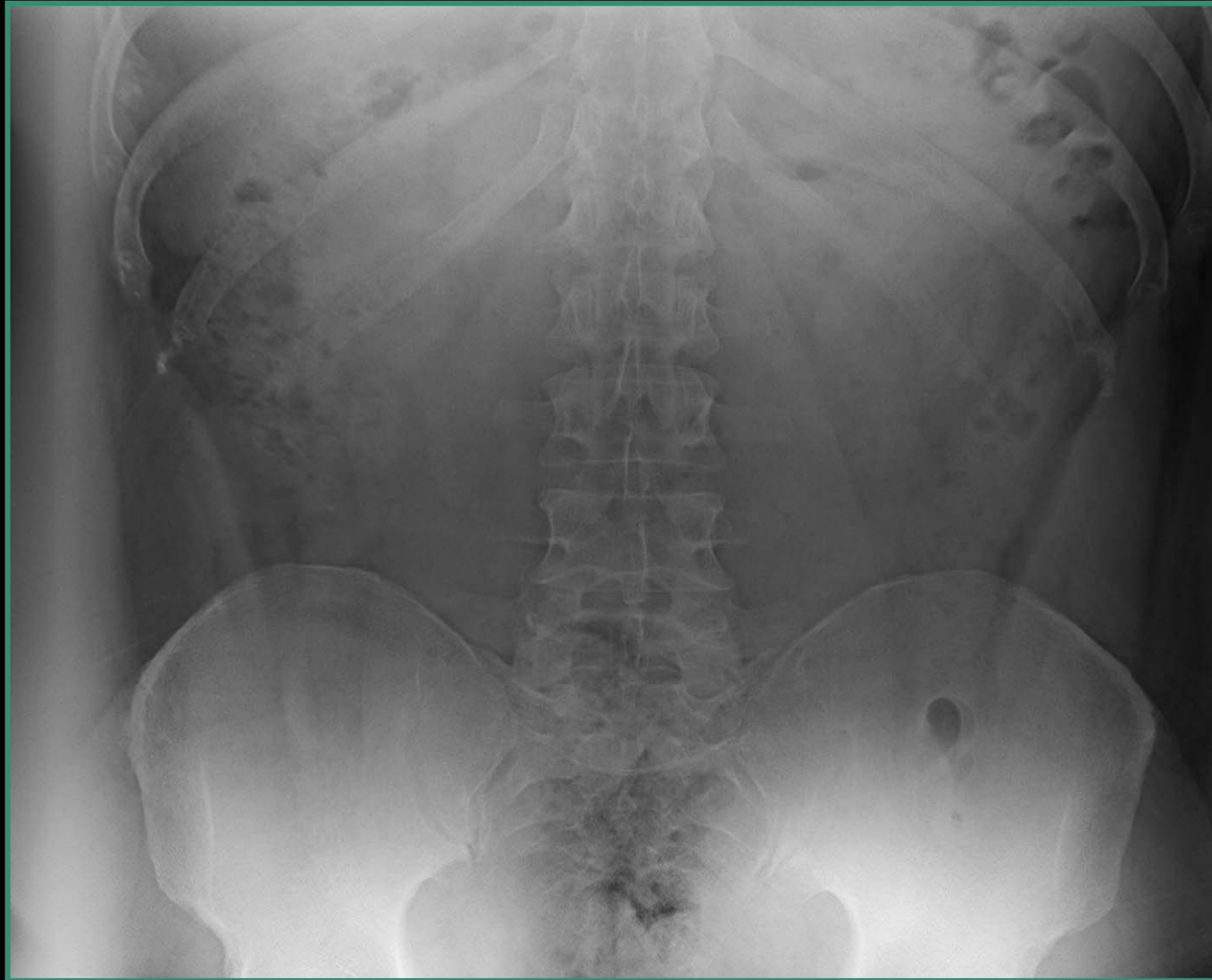
Quality of training image data	Unclear image 	Clear image 
Volume of training data	210,000 cases	20,000 cases
Sensitivity	94.9%	94.9%
Specificity	20%	87.5%

Misidentifying abnormality in 80% of healthy subjects!?

※ Sensitivity = Ratio of determining a positive case as being positive. Specificity = Ratio of determining a negative case as being negative

**High-quality images are needed for high AI accuracy**

**Technology for restoring sub-grade medical image data that does not provide easy diagnosis**



**Using FUJIFILM's advanced image processing technology to bring sharpness to images and improve AI accuracy**



# FUJIFILM's advanced image processing technology

**Before**



**Brightness and contrast are affected by subject's body thickness, X-ray dose and positioning**

## FUJIFILM's advanced image processing technology

After

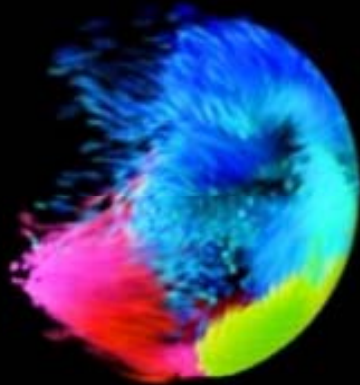


FUJIFILM's image processing is applied to automatically stabilize brightness and contrast



## 4-2. REiLI, FUJIFILM's AI technology

### FUJIFILM AI Platform



# REiLI

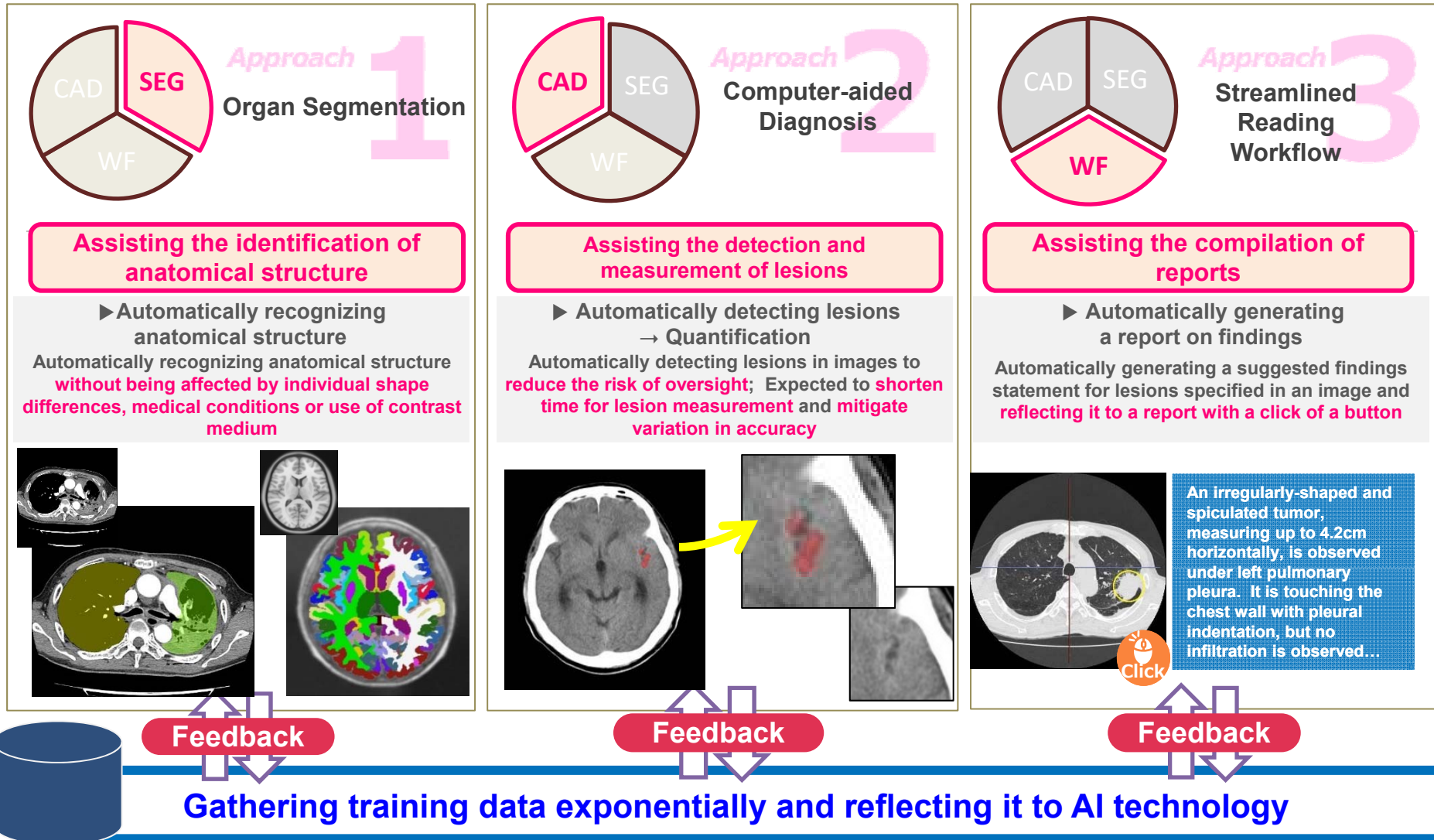
Combining cutting-edge image processing technology FUJIFILM nurtured for over 70 years with latest AI technology to create new values in next-generation image diagnostics

Unveiling the AI technology brand “REiLI” in April 2018

# 4-2. REiLI, FUJIFILM's AI technology

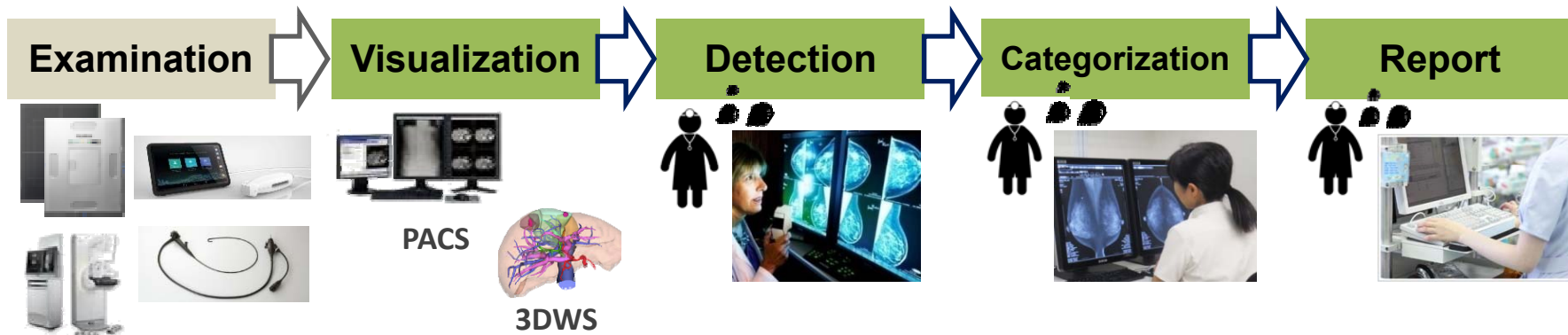


## REiLI's three technological approaches

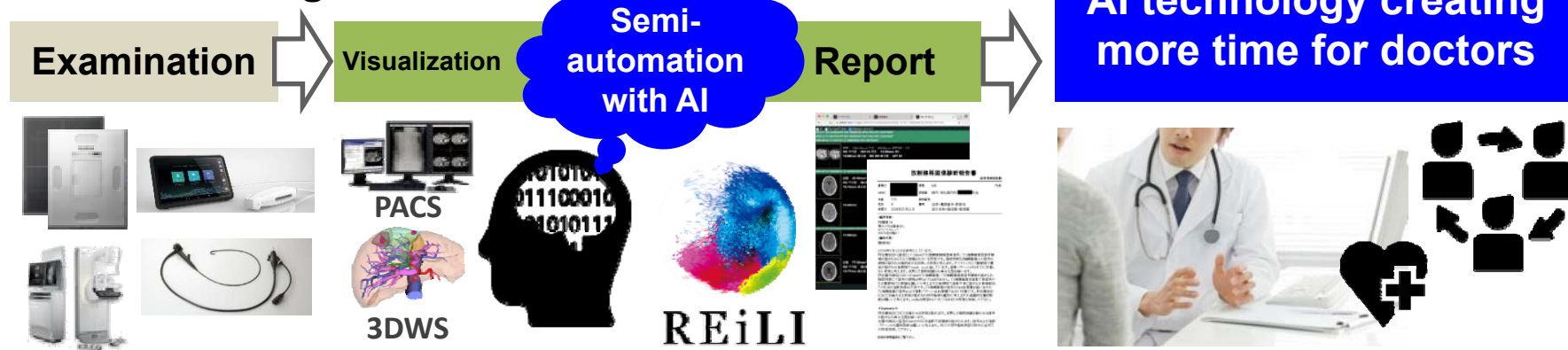


## 4-2. REiLI, FUJIFILM's AI technology

### Workflow using the conventional PACS



### Workflow using PACS with AI



Using AI technology to semi-automate the workflow to reduce doctors' workload and improve speed and accuracy, creating more time for diagnosis

## 4-2. REiLI, FUJIFILM's AI technology (lungs)

Only using X-ray images to improve accuracy in detecting abnormality

Rate of detecting significant chest abnormality **97-99%\***

Results of in-house trials

\* Under co-development with Lunit



REiLI

Thoracic radiologists

93.88%

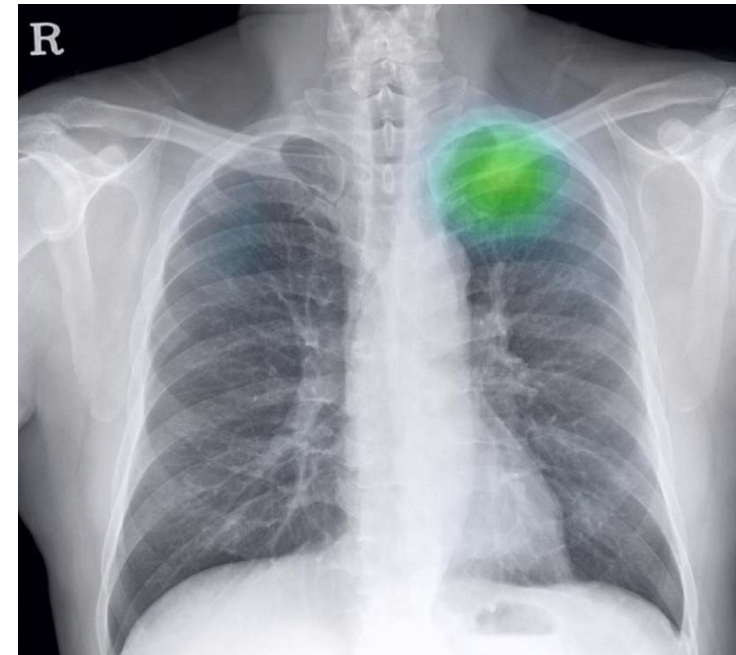
Board-certified radiologists

90.91%

Non-radiology physicians

82.10%

Detection of Major Chest Abnormalities (N=200)



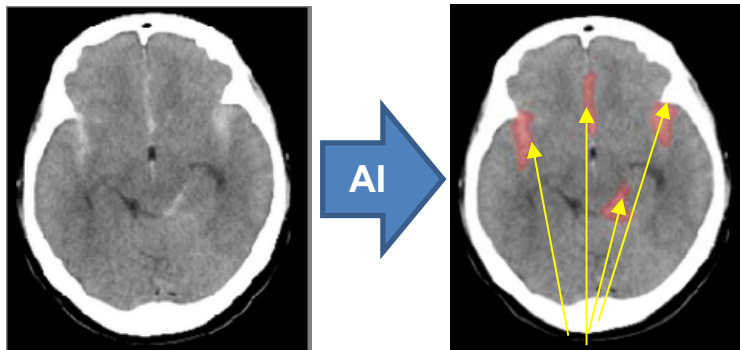
Lung cancer that 11 out of 15 specialists failed to diagnose. The lesion is hidden behind a clavicle, making it difficult to visually identify on X-ray images.

Making AI learn structural data combining X-ray images and CT scans can reduce the risk of overlooking lesions on X-ray images -> early detection

# 4-2. REiLI, FUJIFILM's AI technology (brain)

**Developing technologies to detect cerebral hemorrhage and cerebral infarction with CT scans alone**  
(Enabling the detection of cerebral infarction or minor cerebral hemorrhage before conducting time-consuming MRI)

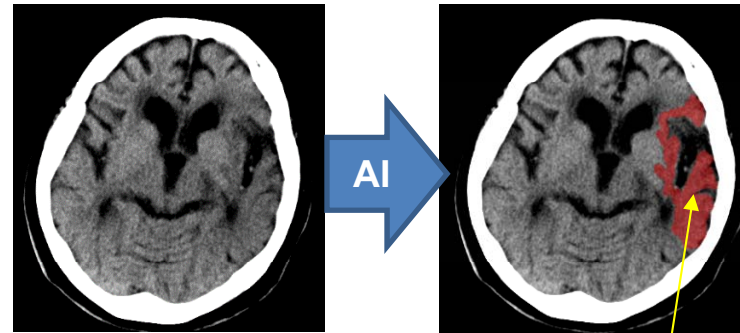
Patient with suspected cerebral hemorrhage



Non-contrast CT

Areas of suspected cerebral hemorrhage (red)

Patient with suspected cerebral infarction



Non-contrast CT

Area of suspected cerebral infarction (red)

Results of advance accuracy verification compared to specialists' visual assessment



REiLI

Detecting subarachnoid hemorrhage	100%
Detecting cerebral infarction	88%

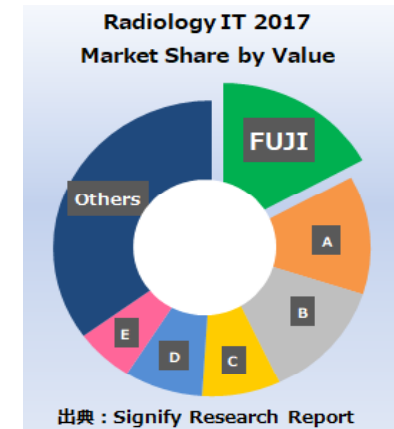
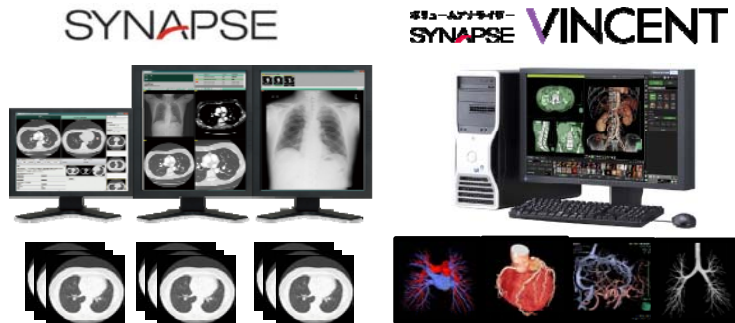
Subarachnoid hemorrhage (4 specialists, 50 cases), cerebral infarction (3 specialists, 31 cases)

**Making AI learn structural data combining CT scans and MRI scans can reduce the risk of overlooking lesions on CT scans -> early detection**



## 4-2. REiLI, FUJIFILM's AI technology

### Existing assets (technology, know-how, structure)



- Experiences and insights from working with medical images for many years
- Massive image data and research performance

- Advanced image processing technology and know-how
- R&D structure that supports image processing technology

- World's No.1 market share
- Installed in 5,100 sites

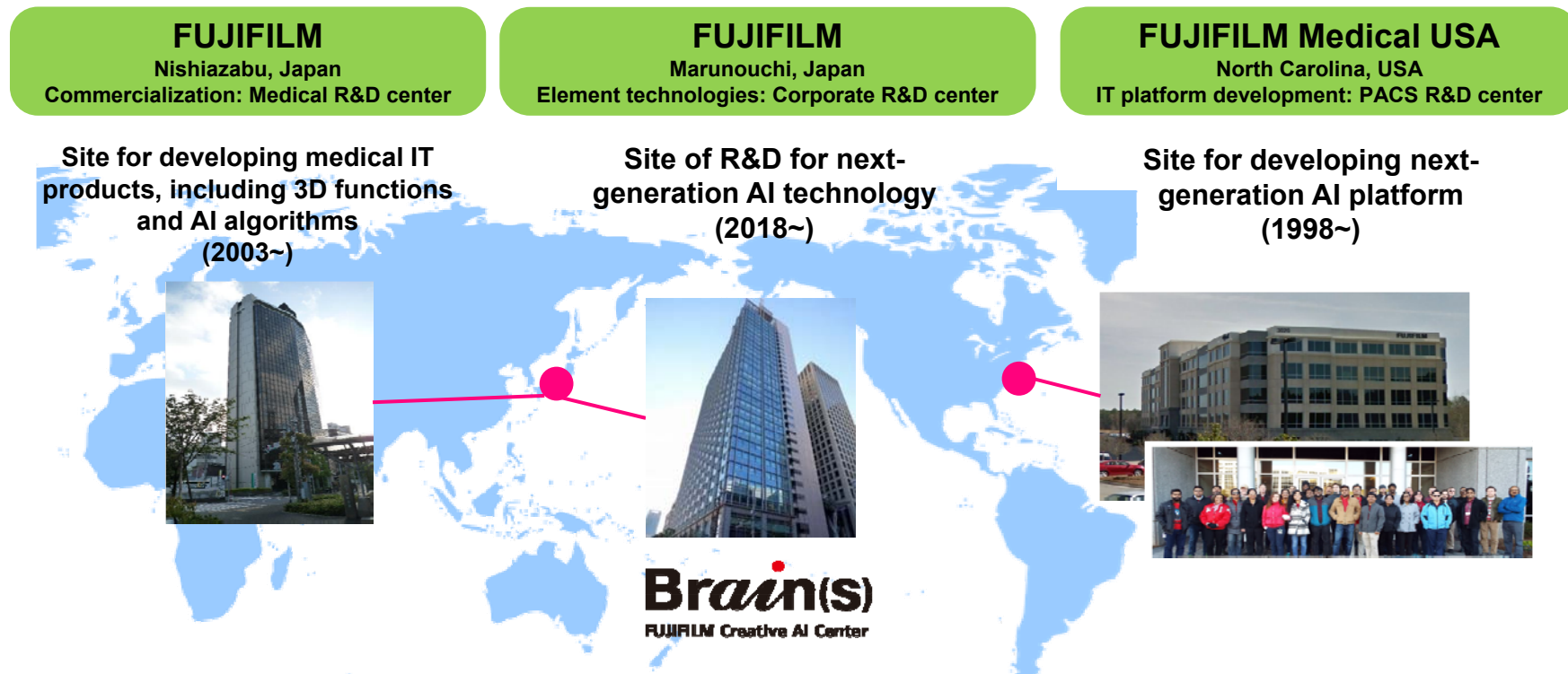
### Offering new values with AI technology



Combining AI technology with image processing technology / know-how accumulated over many years, massive amount of high-quality image data and No.1 market share / number of installation sites to provide new values wide and quick

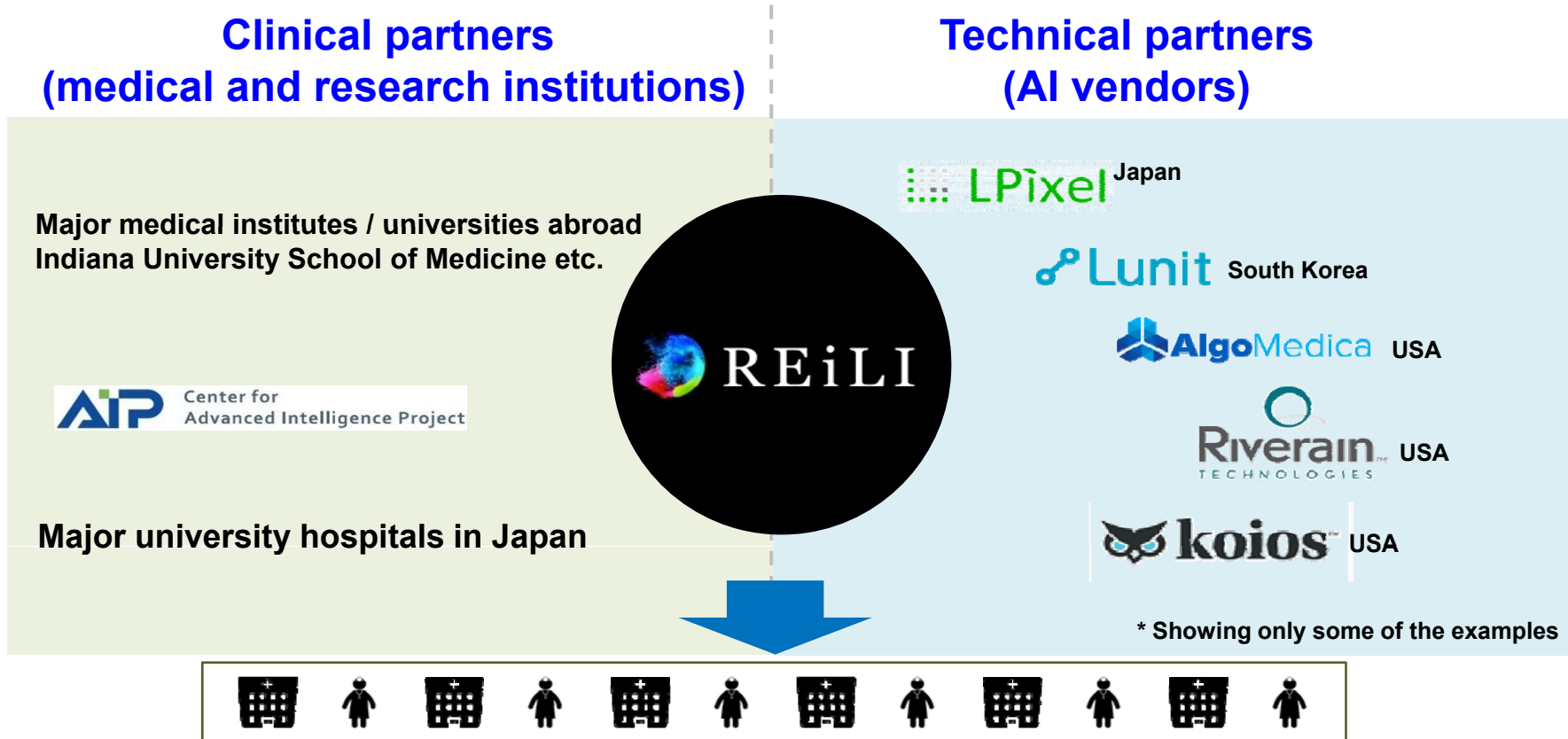
## 4-3. Building a medical AI platform

<Global AI-PACS R&D structure: Hybrid approach with Japanese and US sites>



PACS platform development site is in the United States, which is the leading country in medical IT, and sites for element development and commercialization of next-generation AI technology are in Japan



# 4-3. Building a medical AI platform



**Partnering with medical / research institutes and vendors with superior AI technology at home and abroad to accelerate product development, making it possible to offer AI-based values more broadly**






# 4-3. Building a medical AI platform

<p><b>LPixel</b></p> <p>(Capital investment in 10/2018)</p> <p>Promoting co-development in the fields of endoscopy and radiation. Assisting clinical evaluation of cerebral arteries at SYNAPSE users</p> 	<p><b>AlgoMedica</b></p> <p>(Marketing alliance in 12/2018)</p> <p>A venture with image processing AI to reduce radiation exposure in CT scans by 1/10. Planning on incorporating the technology to CT and PACS supplied by FUJIFILM.</p> 	<p>Joint research with academia and hospitals, and participation in national projects</p> <p>Openly promoting joint research with FUJIFILM, and incorporating its achievements into FUJIFILM's IT &amp; medical devices for commercial and social implementations to achieve early social contribution.</p>
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## Radiology viewer      Endoscopy viewer

Systemic organ segmentation	Cerebral hemorrhage	Cerebral infarction	Lung cancer	Bone metastases	Cerebral aneurysm	Assisting low radiation-dose (noise reduction)	2D lung cancer	2D tuberculosis	2D mammography	Abdominal LCI Real-time	Large intestinal LCI Real-time	Esophagus white light Real-time	Assisting Endoscopic reporting
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CT/MR	Chest X-ray	Mammography		
<p>Medical imaging and information system for radiology (PACS)</p> 			<p>For hospitals Endoscopic information management system</p> 	<p>For clinics Diagnostic imaging workstation</p> 

# Medical systems business for creating the future

## Future of healthcare that FUJIFILM wants to realize through AI

**Treatment support**

### **Offering optimum treatment for a variety of medical conditions**

Adding on information from genetic analysis and far-reaching medical papers to create a therapeutic AI-PACS systems that assist doctors in making therapeutic judgments

**Part of project at Research Center A**

**Diagnostic imaging**

### **Making early diagnosis to reduce treatment costs and workload**

Planning on developing the next-generation AI-PACS, which uses various medical images to detect possible diseases to assist radiologists' judgment

**Part of joint research at University Hospital B**

**Medical care support**

### **Automating workflow to provide error-free quality healthcare**

Creating the general diagnostic AI-Workstation to stem medical errors such as patient mix-up, mistakes in exams, surgical sites and drug administration

**Part of project at University Hospital C**

**Realizing the future where healthcare workers at medical front are free from workload and everyone can access high-quality healthcare at low cost**

## Summary

- ✓ **Expanding business through resolving healthcare challenges**  
Contributing to resolving healthcare challenges through the medical systems business, especially in the field of medical IT, while achieving business growth in the global market
- ✓ **Using AI and IoT to create values for sustainable business growth**  
Expanding business by using AI and IoT to create values, so as to achieve goals in the mid-term management plan, i.e. CAGR 7% in net sales and continuous two-digit operating margin
- ✓ **Adopting open strategy to accelerate the delivery of values in medical AI**  
Partnering with medical / research institutes and AI vendors to accelerate the development of AI technology, targeting to realize the society where anyone can receive high-quality medical services

**Accelerating the development, usage and rollout of AI technology  
Through medical systems business, contributing to the solution for  
healthcare challenges such as “early detection of diseases”  
and “improved accessibilities to medical services”.**

**FUJIFILM**  
**Value from Innovation**