Konica Minolta Day

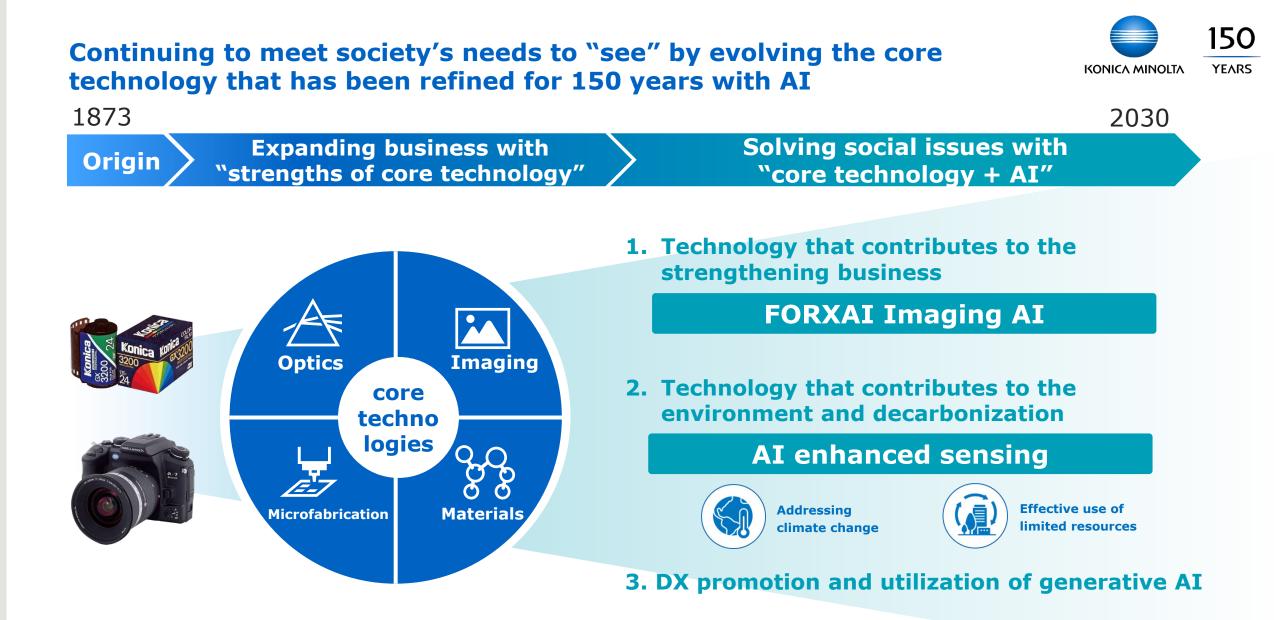




TECHNOLOGY

December 12, 2023 Toshiya Eguchi Executive Vice President and Executive Officer

Giving Shape to Ideas



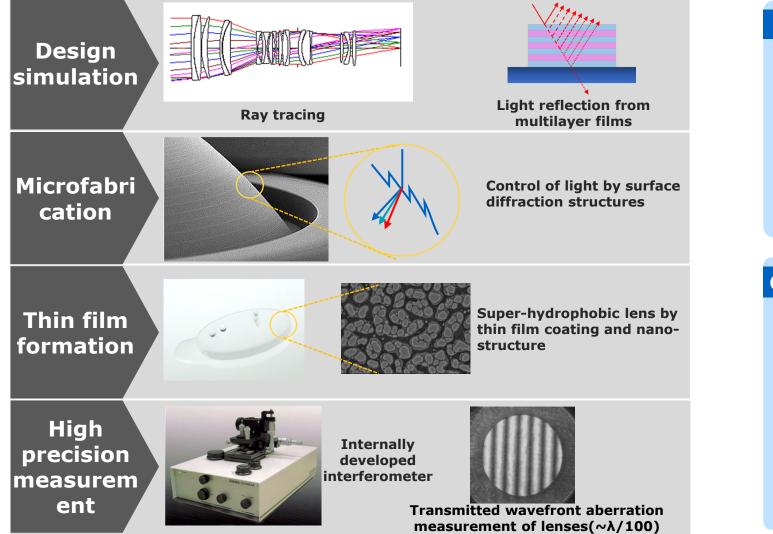
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1. TECHNOLOGIES THAT CONTRIBUTE TO THE STRENGTHENING BUSINESSES



The essence of "strengths of core technology" (optics, microfabrication) and contributions to the strengthening business

Based on our in-house developed "high-precision measurement technology", we provide top-level products while strengthening related technologies.



Ultra-high precision polished lens (for semiconductor manufacturing equipment) 90

ΚΟΝΙζΑ ΜΙΝΟΙΤΑ

150

YEARS

Automotive lens (Wide angle/far infrared)

Optical measurement equipment

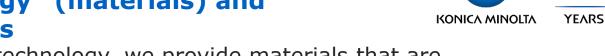
Optical components



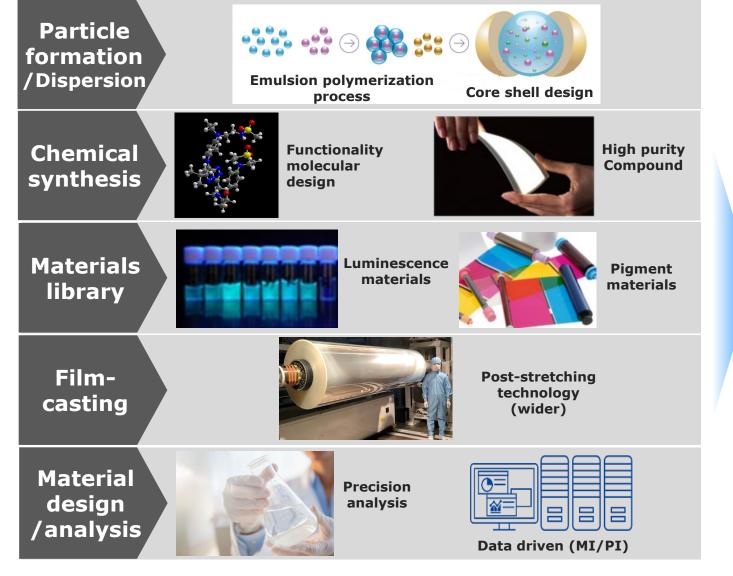
Color and appearance measurement

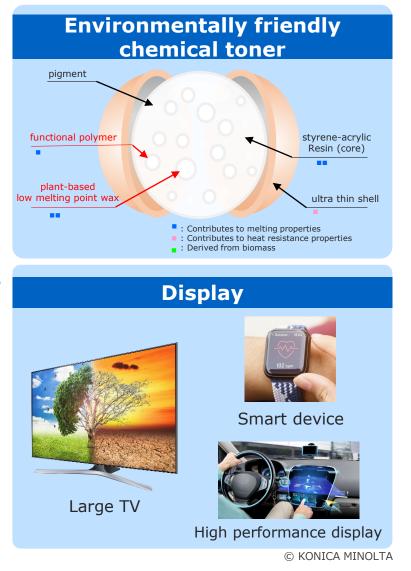
Light and display measurement

The essence of "strengths of core technology" (materials) and contributions to the strengthening business



 Based on advanced material design and analysis technology, we provide materials that are environmentally friendly and meet the needs to see in terms of color and light.





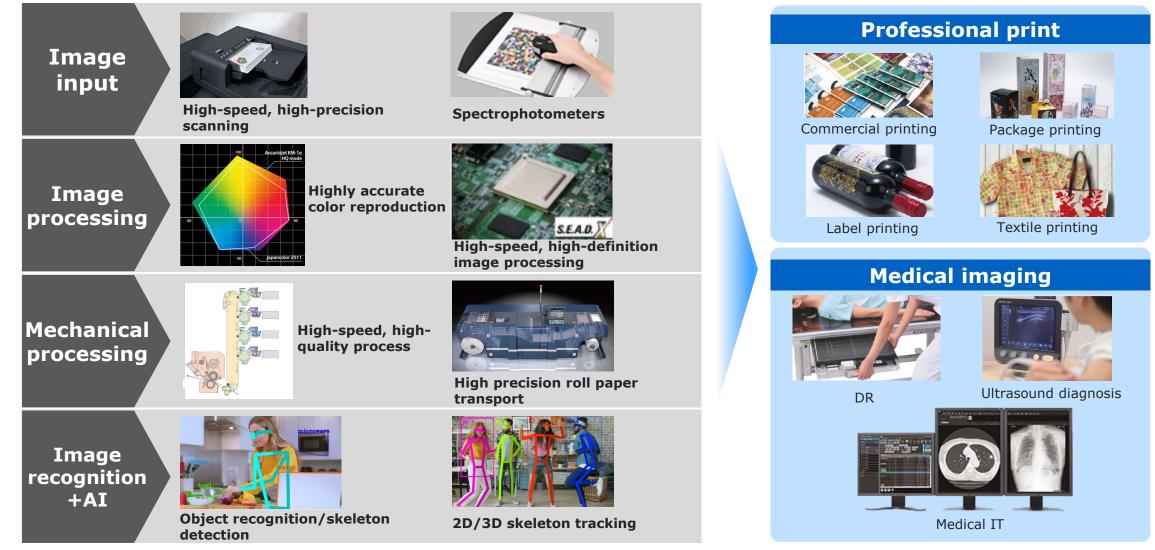
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The essence of "strengths of core technology" (image) and contributions to the strengthening business



• Refine image input, processing, and mechanical processes to provide genre-top services



Adding value with FORXAI Imaging AI

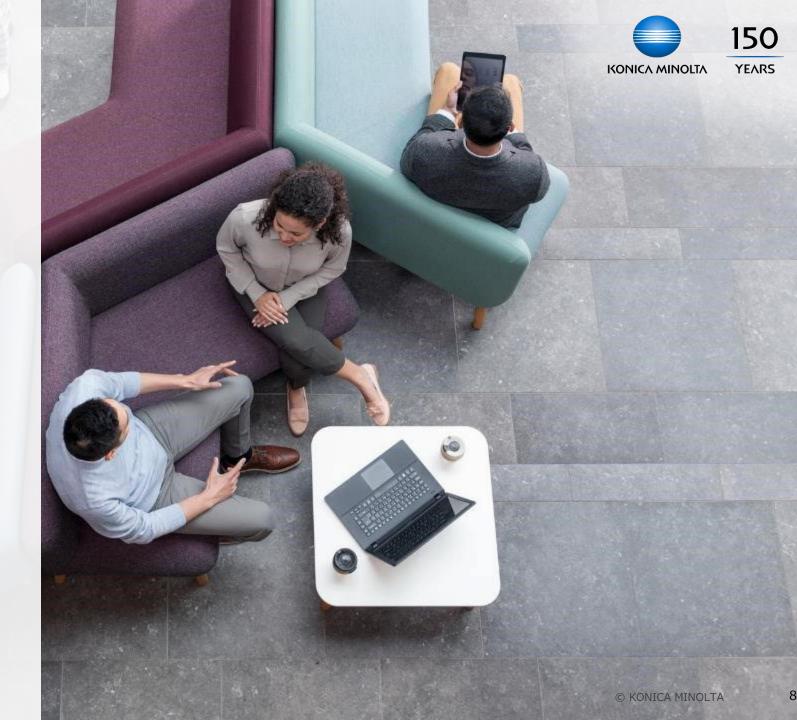
- Applying FORXAI Imaging AI for human behavior, inspection and advanced medical care to each business area
- Contributing to business expansion by rolling out solutions that contribute to DX of customer workflows

| Business area | Industry | Healthcare | Professional printing | Digital workplace |
|--------------------------------------|--|--|--|---|
| | esqi | KINOSIS | AccurioDX | tomolinks |
| Examples of applied technology | Automotive visual inspection: Classifying vehicle paint defects | Advanced medical care: Observing and quantifying the "movement" of organs and joints using dynamic radiography images analysis | Image quality inspection AI: Automate image quality setting and inspection | Skeleton detection AI: Analyzing student/teacher behavior |

Powered by **FORXAI**



2. TECHNOLOGY THAT CONTRIBUTES TO THE ENVIRONMENT AND DECARBONIZATION



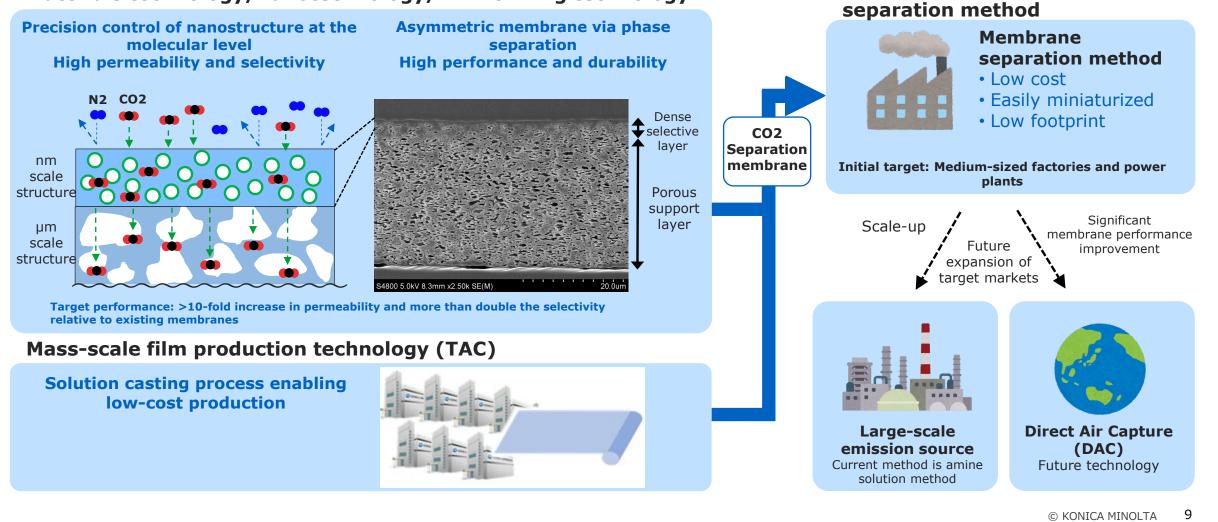
Separation and capture of CO2



CO2 capture using membrane

• Achieving carbon minus by harnessing our technologies in film and nanoparticle manufacturing to develop membranes for CO2 capture

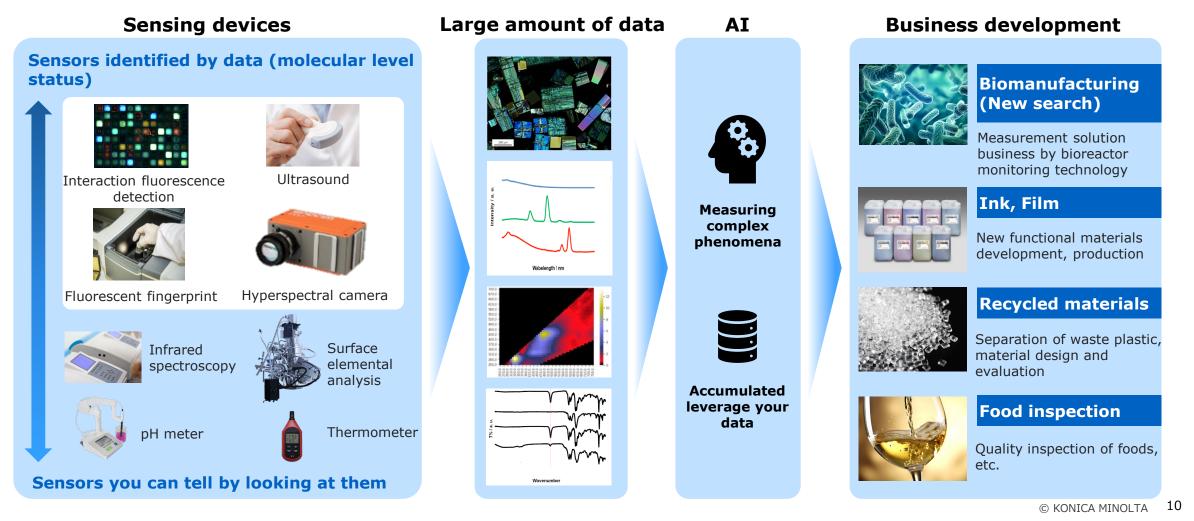
Materials technology/nanotechnology/film forming technology



Evolving core technology with AI "AI-enhanced sensing technology concept"



- Systematize "measurement using various sensing devices" and "AI processing of large amounts of acquired data"
- Development of AI enabled unique sensors to realize measurement of complex phenomena that previously relied on human experience and intuition



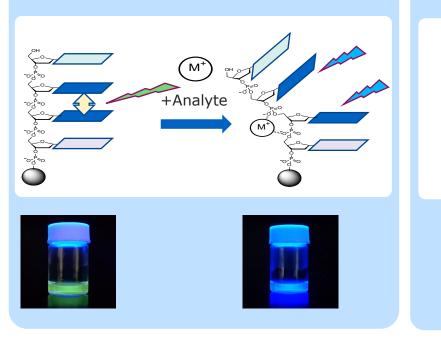
Fluorescent Analysis with Inductive Recognition System "FLAIRS"



 Unique sensor technology developed for product and process quality prediction and process management of liquid materials with complex compositions, such as beverages, chemicals and bio-manufacturing

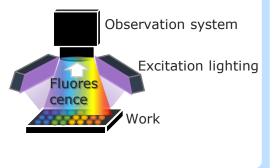
Materials technology/nanotechnology

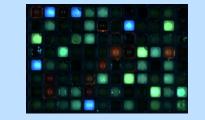
- Uniquely designed fluorescent small molecules
- More than 1,000 combinations
- Achieving fluorescent detection markers



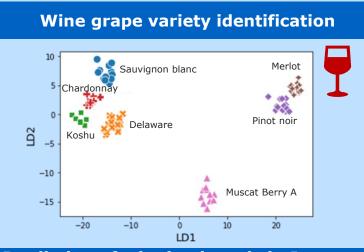
Optical measuring technology

- Weak fluorescence detection system design
- High-speed measurement with chip array





Measurement example



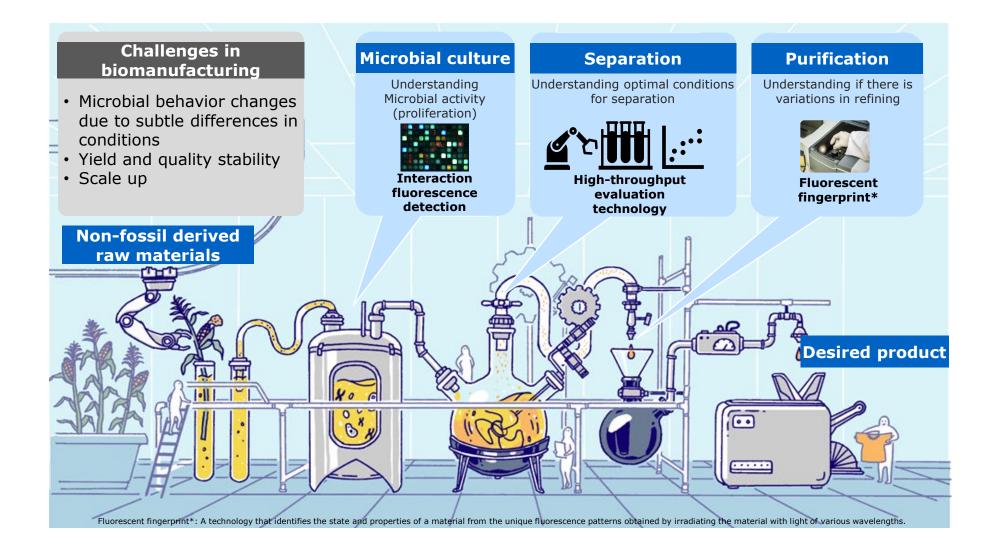
Prediction of winning brands in Japanese sake contest



"Bio-manufacturing" using non-petrified raw materials



- Established Konica Minolta-AIST Bioprocess Technology Cooperative Research Laboratory (June 2023)
- Aiming for social implementation of next-generation manufacturing process monitoring for "biomanufacturing"

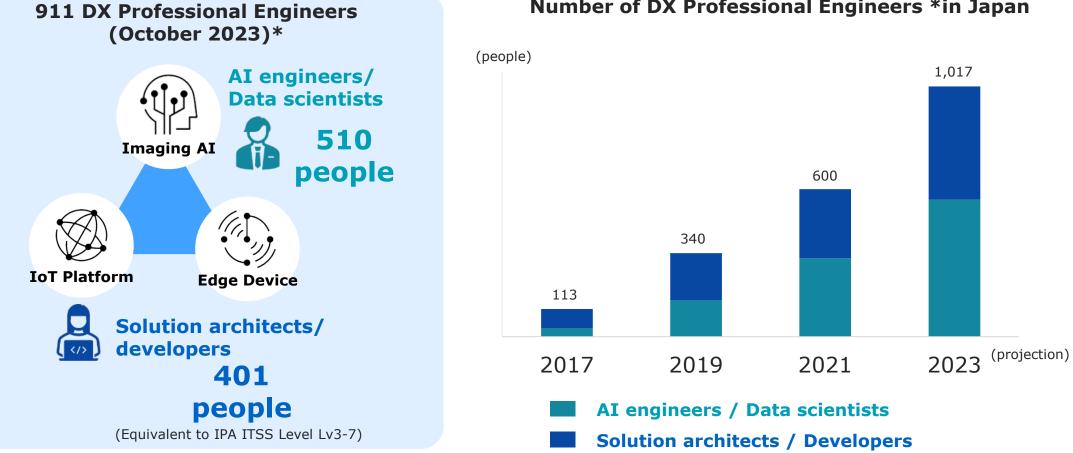


3. DX PROMOTION AND UTILIZATION OF GENERATIVE AI



DX Professional Engineers (Imaging IoT Engineers)

Strengthen AI engineers, data scientists, and solution architects/developers by training and hiring. Aiming to have 1,000 engineers by the end of FY23.



*Number of standard and expert certifiers. 1,831 people including entry certifiers.

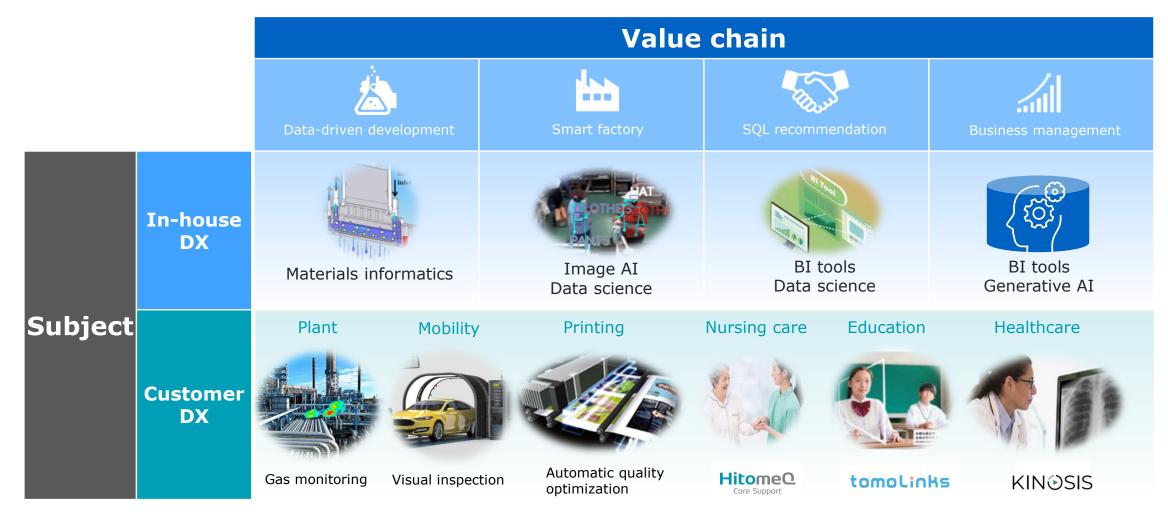
Number of DX Professional Engineers *in Japan



In-house and Customer DX initiatives



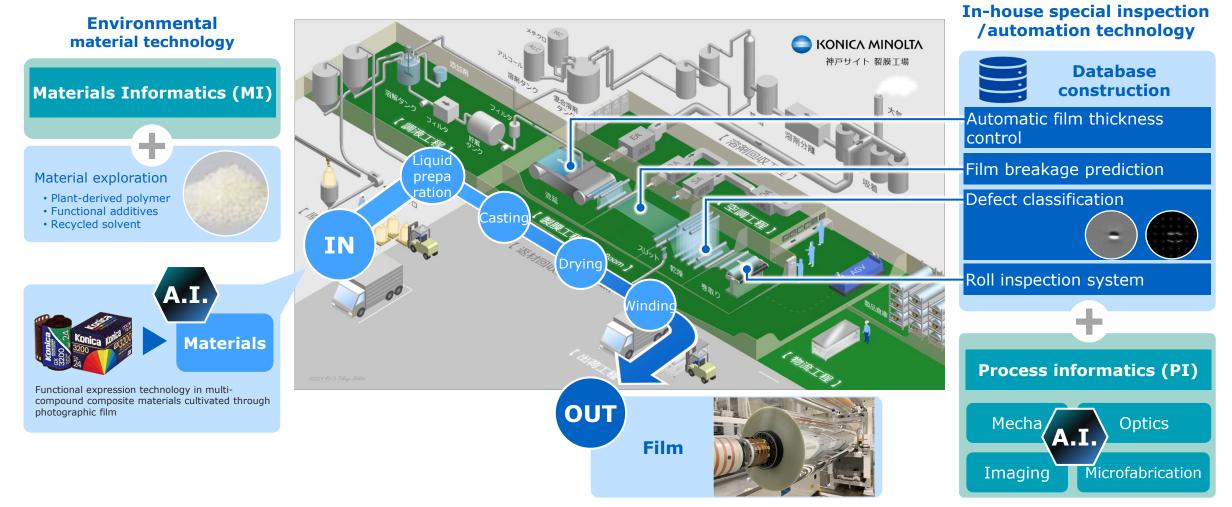
- We have placed DX specialists in all departments throughout the company to promote data utilization.
- DX specialist engineers and field members worked together on approximately 300 DX themes in two years.



"Smart Factory" Display film production using data



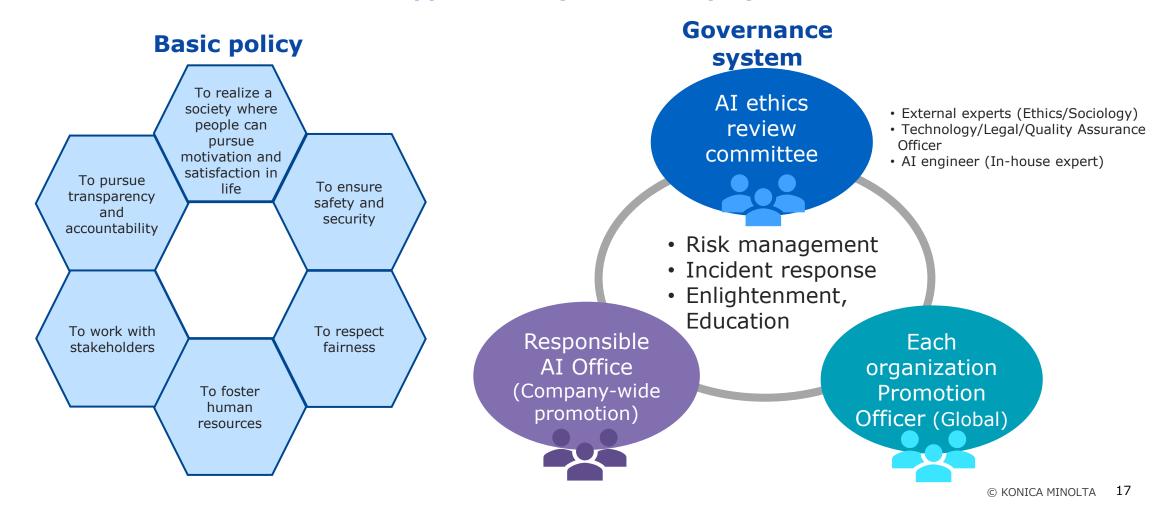
 Commercialization of MI technology, which achieves the desired function by selecting materials with low environmental impact and mixing multiple compounds, and PI technology (core technology + AI), which stably produces high-quality products.



Initiatives for governance on AI usage



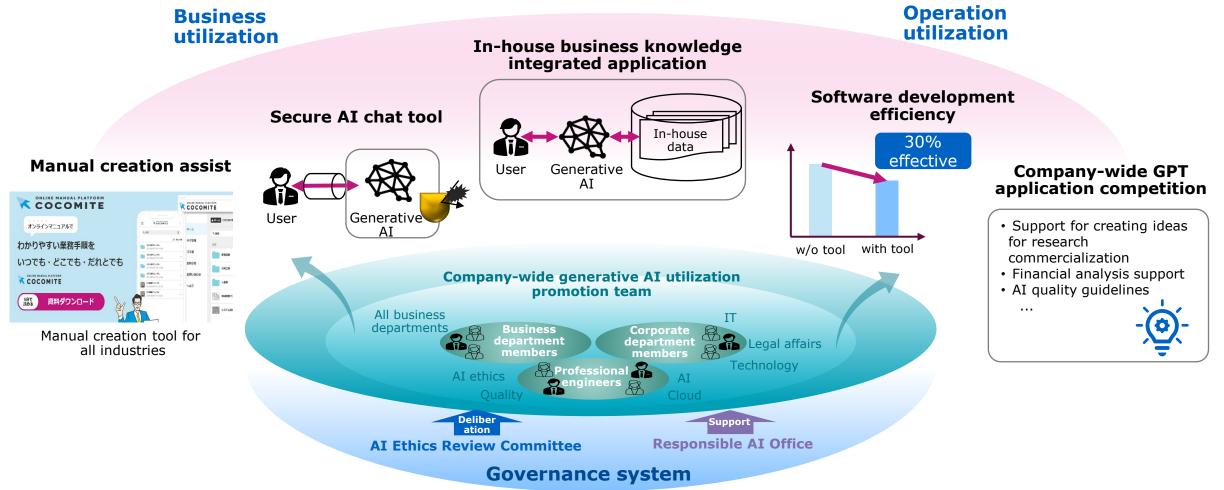
- June 2021: Established basic policy on the use of AI
- December 2021: Established AI governance system (AI Ethics Review Committee, regulations on the use of AI)
- May 2023: Established internal guidelines for the use of generated AI
 80 risk assessments conducted, approximately 10,000 employees trained



Flexible promotion of generative AI utilization, supported by the governance system



• Established company-wide generative AI utilization team. With the help of generative AI usage platform and business-specific tools, provided support for utilization of latest GPT to accelerate internal and external business.





Appendix



Glossary



•FORXAI Imaging AI

Part of our imaging IoT platform FORXAI, consists of high-speed, high-precision AI processing technologies mainly for images.

• esqi

EINES' tunnel-type paint defect inspection system, which has been installed by multiple European and American automobile companies.

• X-ray dynamic analysis/KINOSIS

KINOSIS is an x-ray dynamic analysis workstation, which enables more detailed diagnosis by continuously taking X-ray images to observe the movement of the affected area.

• AccurioDX

A co-creation platform that revolutionizes communication between people and companies through digital printing.

• tomoLinks

Educational support services that utilize ICT to understand the characteristics of each student and realize optimal learning.

• Imaging IoT engineers

Engineers with the skills to analyze image data and various sensor information using AI technology such as deep learning to support decision-making and judgment in various workplaces.