Imaging-IoT Solutions Business

October 6, 2021

Toshiya Eguchi,

Executive Vice President and Executive Officer

Responsible for Imaging-IoT Solution Business Unit and Visual Solutions Business Unit





GO BEYOND HUMAN VISION

Realization of safe and secure society by delivering Imaging IoT Technologies to the monitoring and inspection area



Trends in Macro Environment Surrounding Imaging-IoT Solutions



Macro environment



POLITICS US-China competition for technological supremacy FCC restrictions on Chinese companies

ENVIRONMENT

Abnormal weather and environmental measures Disaster-prevention measures related to aging facilities

SOCIETY

Lab Shi ser

Labor shortages Shift to remote services TECHNOLOGY



Digital twins AI/5G/robots

There is significant global demand for digital transformation (DX) in industrial fields. In the monitoring and inspection field, we leverage our imaging IoT technology to contribute to the evolution of worksites.

Monitoring

Environment and energy

Safety and disaster prevention

Making up for labor shortages and achieving safe and secure operations Utilizing predictive maintenance to create continuously evolving sophisticated maintenance systems

"Decarbonization" through gas monitoring

Safe and secure operations with Al-based disaster-prevention monitoring Inspection

Smart factories

Achieving high-quality, multipolar, multi-product and small-lot production that does not rely on the expertise of skilled engineers

> Sophisticated manufacturing with Al-based visual inspections



https://video.konicaminolta.com/detail/videos/%E4%BA%8B%E6%A5%AD%E3%82%B3%E3%83%B3%E3%82%BB%E3%83%97%E3%83%88/video/6275572313001/forxai

Konica Minolta's Strength in Imaging IoT and AI Technology



Combination of our own device, algorithm development, and high-speed implementation technology



AI Technology for Monitoring Solutions



Strengthening our competitiveness in the intelligent camera field, where high growth is expected

Making more competitive products through joint development with MOBOTIX

Technology

Solutions



Memory (Capable of multistreaming on 4K cameras thanks to 4x the amount of storage)

Al processing chip (2.4x processing capabilities compared to our conventional ones)

Differentiation through Konica Minolta AI technology



Object/outline/skeletal identification/person tracking (simultaneous)

Speeding up development through co-creation with technology partners



Sales growth with AI camera solutions



Detection of facility abnormalities



Solving Customer Issues with FORXAI (Co-creation with Partners)



Leveraging our partner ecosystem to continuously accelerate innovation

partner





Working with customers to solve challenges and problems

FORXAI In-house Utilization Example - Nursing Care Solutions



Utilizing FORXAI IoT platform to significantly reduce system installation costs





Accelerating Sales Growth and Profitability Improvements in Imaging-IoT Solutions

MOBOTIX (Germany) Organic business



- Expand in market for intelligent cameras with analytics functions, which is growing rapidly (20%+)
- Leverage "Made in Germany" messaging to strengthen presence in North American market amid US-China trade restrictions (NDAA, FCC)
- Work with FORXAI on technology, thereby creating superior competitive position (value)



- Develop a package of solutions suitable for global development and accelerate business growth
- Work with industry players having contact with customers to accelerate rollout of vertical solutions
- Reduce SG&A expense ratio by using FORXAI to cut operating costs



55 (2020) **⇒** 85 (Oct. 2021) **⇒** 150 (2025)



* Excludes Visual solutions business



* Excludes Visual solutions business



FORXAI Strategic Collaboration with Partners



Quickly offering solutions by co-creating with technology and solution partners



Diverse Range of Examples of FORXAI Utilization



Utilizing FORXAI technology to enhance and deploy a diverse range of solutions

Smart factories Daitron Co., Ltd.



Enhancing productivity and transferring technical expertise

Safe movement support with 3D LiDAR Collaborative company: Sohgo Security Services Co., Ltd.



Reducing accident risk and burden of management

LOVOT, a robot for home use GROOVE X, Inc.





Creating a society where people and robots work together

People flow marketing

Marubeni Network Solutions Inc.



Remote sensing for agriculture Kobe City, KOBE SHU-SHIN-KAN BREWERY, LTD., JA Hyogo Rokko



Regeneration of phosphorus fertilizer for highly profitable agriculture

Runalytic

Sports gyms and equipment stores



Using DX to enhance service value



Utilizing FORXAI COMMUNITY to accelerate the rollout of solutions with partners FORXAI COMMUNITY



TAM and Target Customers



Focusing on target customers in intelligent image analysis service market

Image analysis service market



Target customers



Total addressable market for this business*2

Image analysis service using sensing systems such as network cameras with AI processing functions and links to the cloud

там: ¥290bn

*1 Reference: Calculated based on "FY20 Security Camera Market Predictions and Next-

Generation Strategies" (Yano Research Institute Ltd.)

*2 This business's target market: ①¥250bn + ②¥40bn (our estimate)

MOBOTIX (Germany) Organic Business Examples



Examples of utilization of intelligent analytics features



MOBOTIX + Monitoring: Sales Growth with Cloud VMS*



Realizing a recurring service model (continuous fees) with Cloud VMS





Example: CheckSmart (US) 500 stores across the US (finance) Rapid increase in stores as a result of acquisitions Cameras: 4,000 (FY21) \$120/yr/unit, continuous fixed fees

* VMS: Video Management System

Partner companies





Ensure profitability through expansion within the industry, increasing the number of licenses, and growth in the fee-based model



Accelerate entry into regions such as Europe and Asia



Leverage FORXAI Imaging AI to develop better solutions and increase value offered and recurring business

New business + Monitoring: Video Analytics Solution



Using imaging AI technology to solve manufacturing, logistics, and warehouse issues related to quality inspections, occupational health and safety, etc.

Imaging AI services for manufacturing, logistics, and warehouses

Automating visual inspections as part of manufacturing processes, safety and security, and workflows for inventory management, etc.



H2 FY21 sales target: €1.0m+ Pipeline: 30+ end user companies 50+ partner companies

Example

Major engineering services company

- Fortune 500 global conglomerate
- Considering simultaneous rollout across plants in North America, Europe, and APAC





Disaster Prevention Diagnosis Service by Gas Monitoring





New Initiatives to Expand Gas Monitoring Business



Contributing to achieving a decarbonized society with imaging IoT technology

"Green Growth Strategy Through Achieving Carbon Neutrality in 2050" (Ministry of Economy, Trade and Industry)



Visual Solutions Business

We aim to grow the planetarium business as a new source of earnings based on content distribution DX that leverages our Connected Dome strategy to create a network of connected planetariums across Japan, as well as innovative new visual expression thanks to the creation of the first DYNAVISION®-LED planetarium in Japan

Scheduled to open October 27, 2021 MANTEN NAGOYA

Connected Dome Strategy



Opening two directly managed dome-shaped planetariums, the first in Japan to use DYNAVISION®-LED technology



*Connected Dome Library



Increase AI engineers and data scientists, while also strengthening solutions developers by hiring and training

Imaging IoT Engineering Talent 650/1,000 people (FY21/FY23)



Hiring more imaging IoT talents in Europe and North America to accelerate overseas activities

For FY23 strengthen overseas hiring and train solution development talent in Japan



