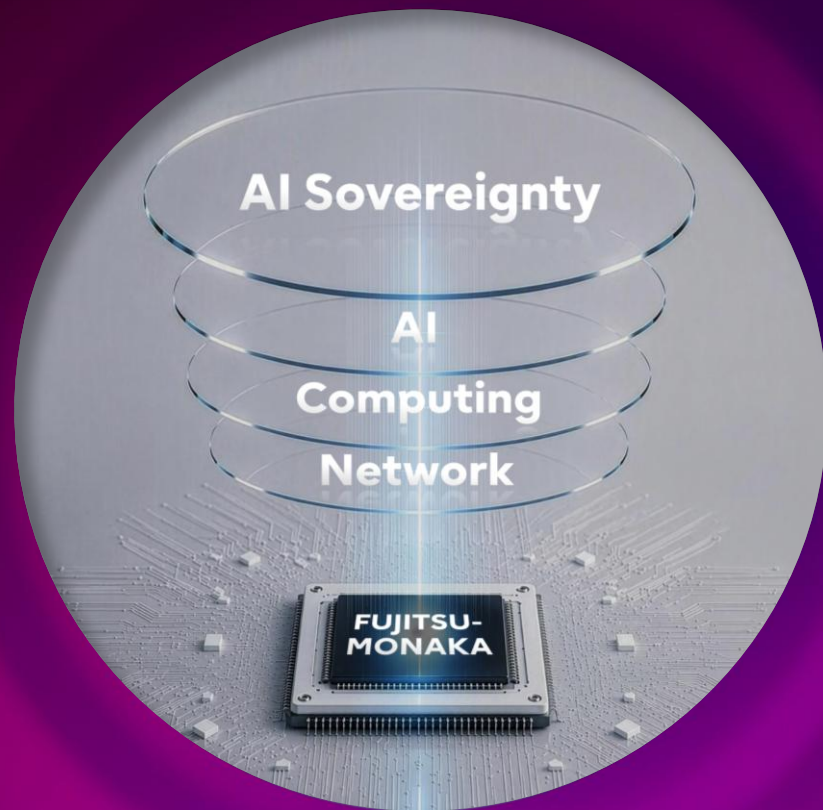


Leading Innovation for AI Sovereignty

Vivek Mahajan

Corporate Executive Officer,
Corporate Vice President,
CTO, in charge of System Platform
Fujitsu Limited

September 16, 2026



**Corporate Executive Officer, Corporate Vice President,
CTO, in charge of System Platform**

Vivek Mahajan

Vivek entered Fujitsu in July 2021 as Corporate Executive Officer and Chief Technology Officer. In 2023, he became Chief Portfolio Officer and Co-Head of the System Platform Business Group and took on the roles of Corporate Executive Officer and Corporate Vice President in 2024. He is focused on transforming Fujitsu into a world-leading technology company with innovative technologies.

Vivek started his career with Tandem Computers in 1994. He has worked with leading global companies, including General Electric, Siebel Systems, Oracle, and IBM. He is a business professional focused on global leadership in innovation and technology.

Fujitsu's Technology Strategy



Focused on Technologies for Enterprise to drive new business creation



uvance
Wayfinders FDE Forward Deployed Engineers

Professional Services

Domain-Specific AI Agent

Applications

**Technologies Driving
New Business Domains** JPY 3T

 **AI Platform Fujitsu Kozuchi**

Multi AI Agent
Framework

Takane

Amalgamation AI
for Vision

 **Security for AI**

 **Fujitsu Kozuchi
Physical AI**



Computing for AI

 **FUJITSU-MONAKA**

 **Quantum
Computing**



Network for AI

1FINITY NIC

1FINITY AI-native RAN

Partners



Sovereign Platform



Physical AI



Intelligent Society

AI Platform Fujitsu Kozuchi

Designed to Run Enterprise-Critical Operations

Multi AI Agent Framework

Automatically generates highly reliable AI agents from enterprise data and continuously evolves autonomously

AI Agent Response Accuracy

85% (Reference: Frontier AI: approx. 70%)*

*Based on internal benchmark results

Enterprise Generative AI Takane

Automatically creates domain-specific LLMs that enable lightweight and highly accurate operations

1bit Quantization Technology

89% Accuracy, **94%** Model Size Reduction

Amalgamation AI for Vision

Sovereign-ready Image Recognition AI generates AI models from just a few images without the need for AI experts

Inspection Requirement Changes

Verified and tuned within **2 minutes**

Fujitsu Kozuchi Physical AI

Physical OS · Spatial Intelligence · Behavioral Intelligence

Security for AI

Scanners and Guardrails for the Entire AI System

PoC Validation Partners

DENSO TEN

Genequest

IHI

KDDI

MINISTRY OF JUSTICE

三井金属

docomo

ROHTO

SMBC日興証券

TOYOTA RACING

Waffle

Technology Partners

NVIDIA

cohere

AMD

Business Creation with Fujitsu Kozuchi

Revenue

Target Industries

FY 2030 **JPY500 B** ▶ FY 2035 **JPY 1.5T**

Manufacturing | Finance | Government | Healthcare | Defense

Related New Business Domain



Sovereign Platform



Physical AI



Intelligent Society

2026

2027

2028

2029

2030

Technology

Self-Evolving Multi-AI Agent

Decentralized Collaborative Learning

Enterprise Experience Model

Enterprise Intelligence Platform

Enterprise Value Transformation Multi-Agent AI

Service image

Sovereign AI Agents specialized for enterprise operations

Cross-organizational operations AI agents

Autonomously recommends actions based on accumulated experience

Management decision support through a digital twin of the entire enterprise

Autonomously discovering and driving value creation opportunities

Fujitsu Kozuchi Physical AI

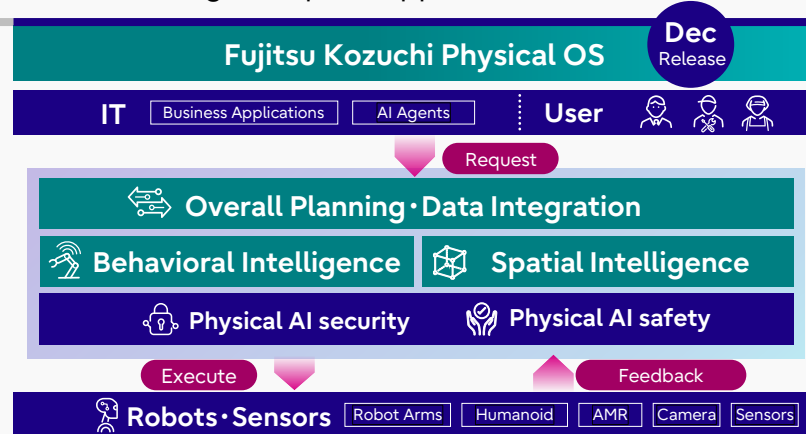
Physical OS : An Open Platform for Coordinated Control and Task Execution Connecting Enterprise Applications and Robots

Customer value

Safe and Reliable Human-Multi-Robot Collaboration, Delivered Wherever It Is Needed

Strengths

Physical OS
Software Platform Integrating Diverse Workflows, Spaces, and Multi-Vendor Robots
Behavioral Intelligence
Adaptive Long- and Short-Term Memory for Dynamic Environments
Spatial Intelligence
Spatial Understanding, Prediction, and Digital Twin Generation Technologies
Physical AI Security
Physical AI Risk Detection and Mitigation Technologies



Partners



Physical AI

Revenue

FY2030

JPY 150 B ▶ FY2035 JPY 750 B

Target Industry

Manufacturing | Healthcare | Defense | Retail

2026

2027

2028

2029

2030

Technology

Spatial Control for Robots

Human-Multi-Robot Collaboration

Memory-Enabled, Self-Evolving Robots

Collective Intelligence Across Heterogeneous Robots

Cross-Site Collective Intelligence Sharing

Service Image

Validation with Robot Manufacturers / Deployment in Fujitsu Factories

Single-Process Human-Robot Collaboration

Multi-Process Human-Robot Collaboration

Factory-Wide Automation and Optimization

Manufacturing-to-Logistics Supply Chain Optimization

Customer Zero

Technologies in Practice at the Kasashima Plant **FUJITSU**

Applying Fujitsu and partner technologies toward a dark factory



Production Planning / Process Design and Development

Autonomous Generation of Manufacturing Plans

Digitizing Skilled Workers' Expertise

Fujitsu Kozuchi Digital Twin

Causal Simulation of Planning, Quality, and Production Data

- Optimizing operations based on manufacturing characteristics, including cycle time and workflows
- Enhancing productivity and quality while preventing missed opportunities

Robot-Ready Manufacturing Lifecycle Design

Safety Verification

Fujitsu Kozuchi Digital Twin

Physical Environment and Robot Interaction Simulation

- Expanding robot deployment across the entire lifecycle, from product development to operations



Manufacturing and Testing

Component Assembly, Customization, etc.

Automated High-Precision Assembly

Supports Over 1 Million Customer Configurations

Fujitsu Kozuchi Physical OS

Takane-Based Instruction Understanding and Automated Robot Task Generation Multi-Robot Collaborative Control

- Automating high-mix, high-precision operations beyond conventional limits
- Expanding Unmanned Processes from Component Assembly to Customer Customization



Logistics

Warehouse Management, Kitting, Material Handling, etc.

Optimized Autonomous Material Handling

Optimized, Reliable Autonomous Handling of Over 100,000 Parts

Fujitsu Kozuchi Physical OS

Identification of Material-Handling Conditions Based on Component Characteristics Automatic Generation of Material-Handling Plans Linked to Production Plans

- Optimized material handling based on component characteristics
- Enabling unmanned logistics through autonomous material handling



Digital Space Deployment



Physical Space Deployment



Security for AI

AI Security for Fujitsu Kozuchi / Takane



AI Scanner

High-Precision Scanner for Evaluating Vulnerabilities in Frontier Models

Strengths



Comprehensive Vulnerability Assessment from LLMs to Multi-Agent Systems

Association
Collaboration

More than 9,000 proprietary attack patterns

Reference: 2,000~3,000 for Major security vendors

Performance

Results of LLM Vulnerability Assessments Using Fujitsu's AI Scanner (% : Attack Success Rate)

Announced in Fujitsu Research TechBlog (Aug. 2026)

LLM	Scan Language	Initiated Attack				Average
		Data Leakage and Theft	Malicious Code Generation	Filter Evasion & Model Exploitation	Prompt Injection and Manipulation	
Fable 5	Japanese	5.6%	6.0%	15.0%	2.9%	7.4%
	English	27.2%	3.5%	4.9%	2.2%	9.5%
GPT-5.6 Sol	Japanese	5.6%	20.3%	13.9%	4.6%	11.1%
	English	19.7%	20.6%	9.1%	7.4%	14.2%
Takane	Japanese	0.7%	33.4%	13.3%	21.7%	17.3%
	English	6.5%	23.1%	13.2%	15.0%	14.5%
Takane +Fujitsu Guardrails	Japanese	0%	3.7%	4.9%	6.2%	3.7%
	English	0%	7.1%	8.2%	4.5%	4.9%



AI Guardrails

Takane + Guardrail deliver the highest resistance against attacks.

Strengths



Japanese-English bilingual support

major telecom operator
Proof of Concept

Japanese scanner detects 96% of harmful data

Reference: 20%~40% for major cloud vendors

Table 5 / GPT-5.6

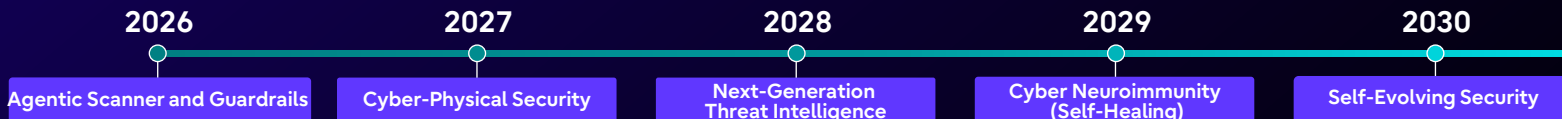
- High attack resistance (particularly against prompt injection attacks)
- Vulnerable to data extraction (such as training data leaks)

Takane

- Good resistance to information extraction (particularly in Japanese)
- High resistance when combined with Fujitsu Guardrails

Security for AI

Technology Roadmap



FUJITSU-MONAKA 2nm



Made-in-Japan CPU Optimized for High Performance and Energy Efficiency in AI

AI Trend Outlook

The transition to the Agentic AI era is driving a shift in computing infrastructure requirements, increasing demand for high-performance, general-purpose CPUs.

Conventional Era: LLM Training-Centric Computing

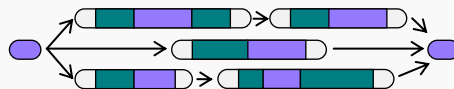
GPU-dependent, Single-task processing



From 2026

Agentic AI Era

Complex workflows, Orchestrated by multiple AI agents



AI Processing (GPU,NPU,CPU)

General-Workloads (CPU)

Customer Value

Enabling Agentic AI on Sovereign Computing Infrastructure

Strengths



High-Performance

Enables execution of mid-sized LLMs without GPUs



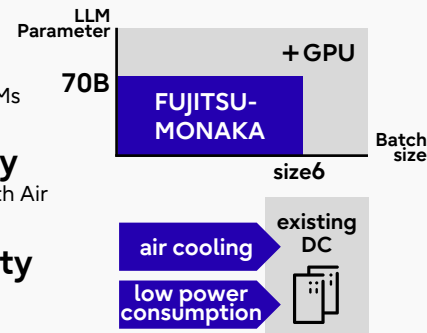
High Power Efficiency

Leverage Existing Data Centers with Air Cooling and Energy Efficiency



Reliability and Security

Made-in-Japan CPU Optimized for Sovereign AI Infrastructure



Hardware Specifications

- Armv9-A Architecture
- 3D chiplet
- Ultra low voltage
- Air cooling, liquid-cooling
- Confidential Computing
- 144 cores x 2 sockets
- Core die 2nm
- SRAM die/IO die 5nm
- DDR5 12 channels
- Arm SVE2 for AI and HPC
- PCI Express 6.0

Full-Stack Software to Maximize CPU Performance

- Building the OSS Ecosystem for Arm CCA-Enabled Sovereign AI
- Addressing Diverse Customer Needs through Broad ISV Partnerships
- Accelerating GPU Utilization through Support for Leading GPU Vendor Software

LINUX CNCF OpenStack Trustee CoCo Veraison Redhat SuSE NVIDIA Siemens

*CCA: Confidential Computing Architecture

GPU Partners



Development Partners



OEM Partners



Test Server PoC Partners



FUJITSU-MONAKA Business



Target Industries : Defense, Government, Healthcare, Financial Services, and Manufacturing

Related New
Business Domain



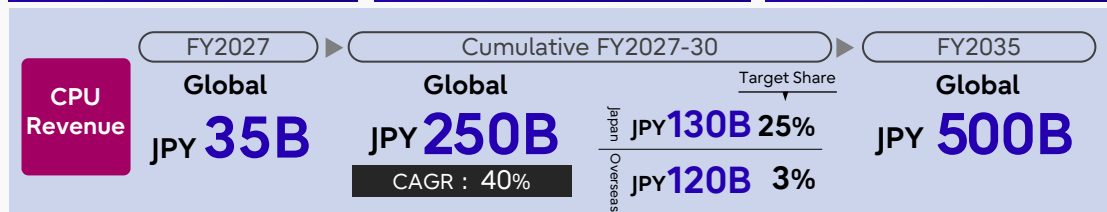
Expanding a Made-in-Japan CPU Globally



Europe
Fujitsu MONAKA Server / Partner Server
Driven by Sovereign AI Demand

日本
Fujitsu MONAKA Server
for Agentic AI Demand

Americas
Partner Server
Strong Partner Sales Reach



Fujitsu MONAKA Server

Announced on
9/14

- Three Server Models Designed to Meet AI and HPC Demands
- High-Reliability Sovereign Infrastructure

CPU designed in Japan

Server Manufacturing in Japan

For existing Data Center / Edge



Air cooling 2CPUs

Highly Scalable Model



Air / Liquid Cooling 1-2CPU

High-Density Multi-Node Model



Liquid Cooling 8CPUs

Target Shipments

Cumulative FY2027-30
Global Japan/Europe **60,000** Units

Timeline for Availability

2026

End of August

PoC Servers Available for Loan

PoCs Planned with 45 Companies

Nov.

Fujitsu MONAKA Server Global Sales Launch

2027

April-

Fujitsu MONAKA Server Shipments Begin

FUJITSU-MONAKA Performance Metrics

Providing the High-Performance AI Infrastructure Needed to Solve Customer Challenges



Competitor Comparison

Arm AGI	64core,300W	Ampere One	96core,273W
AMD EPYC 9575F	64core,400W	Intel Xeon 696X	64core,350W



CPU Specifications

Highest Clock Frequency Among Arm CPUs
World-Leading Memory Throughput

Maximum Frequency

3.8 GHz

Higher computational throughput
for faster processing

Arm	3.7GHz	Ampere	3.6GHz
AMD	5.0GHz	Intel	4.8GHz

DDR Memory Bandwidth

8800 MT/s

High-speed delivery of large data
volumes to CPUs

Arm	8800MT/s	Ampere	5200MT/s
AMD	6400MT/s	Intel	6400MT/s



Server Performance

Foundational Performance
for World-Class AI Computing

INT8 Theoretical Compute Performance

213.8 TOPS

High Low-Bit Precision Performance
for Faster AI Inference

※TOPS: Tera Operations Per Second
No publicly available benchmark data from comparable products

Memory Throughput Performance

1000 GB/s

Maximizing AI Performance
with Superior Data Throughput

No publicly available benchmark data from comparable products



Application Performance

Accelerating solutions to customer
challenges

LLM Inference Performance

batch size 2

307.0 Tokens/s

gpt-oss-20B

No publicly available benchmark data from comparable products

LLM Inference Performance

batch size 2

55.2 Tokens/s

Gemma4-31B

No publicly available benchmark data from comparable products

HPC Application Efficiency

86.8 %

**DGEMM Matrix Computation
Performance Benchmark**

No publicly available benchmark data from comparable products

FUJITSU-MONAKA-X 1.4nm

Providing a highly power-efficient sovereign AI platform through a Made-in-Japan CPU and an NPU with enhanced AI inference capabilities

FUJITSU-MONAKA-X NPU

FUJITSU-MONAKA-X CPU with an integrated **in-house developed NPU accelerator**
Shared large-capacity memory **accelerates agentic AI processing**

Performance Targets (NPU only)
4000 TOPS~
High-throughput AI inference for 70B–200B models
※TOPS: Tera Operations Per Second



Reconfigurable Engine

Achieving ASIC-level efficiency with the versatile flexibility of CPUs



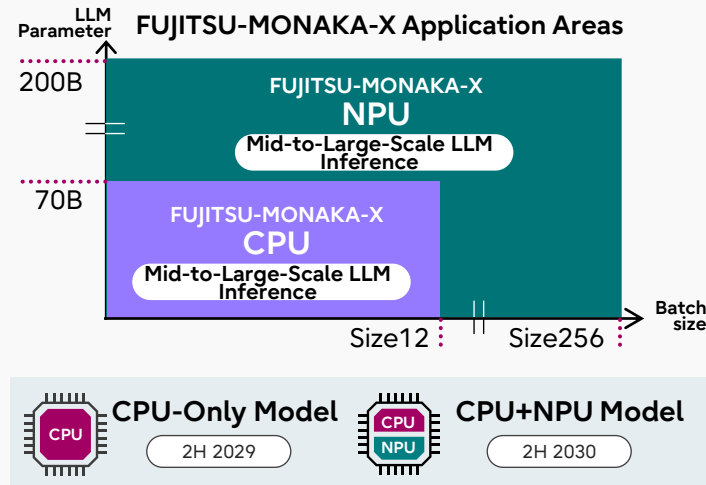
Quantum Processing Acceleration Mechanism

Improving LLM Inference Performance through accelerating and enhancing efficiency LLM quantization



Low Power Consumption

Air-cooling capable, enabling deployment in environments where GPUs are not feasible.



FUJITSU-MONAKA Series Timeline



Quantum Computer

Accelerating Practical Adoption Through a Multi-Quantum Computing Strategy, an Integrated Platform, and Proprietary Core Technologies

Announced on 9/15

The World's Only Developer of Multi-Modal Quantum Computing Hardware

A Hybrid Execution Platform Integrating Classical and Quantum Computing

Fault-Tolerant Quantum Computing Technology STAR Architecture Ver. 3

Open-source release of Quantum Application Development Software (OpenQARP)

FUJIFILM

Quantum Application

Joint Research Partners

Finance



Insurance



Materials



Drug Discovery



Manufacturing



Open Quantum Application Research Package [OpenQARP (code name)]

Open Quantum Toolchain for Operators & Users

STAR Architecture ver. 3

Quantum Platform

Quantum Middleware

Quantum Hardware

Superconducting Quantum Computer

RIKEN

Quantum Bit Chip 2026 1,024bit
2030 10,000+bit

Control Electronics (Provided by 3rd Party)
Dilution Refrigerator (Provided by 3rd Party)

Diamond-spin Quantum Computer



Announced on 9/8

Neutral-atom Quantum Computer

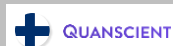
Vaqumo

Announced on 9/9

Customer



Quantum Simulator Challenge



Revenue

FY2030 JPY 50B ▶ FY2035 JPY 300B

Related New Business Domain



Target Industries



Finance



Insurance



Materials



Drug Discovery



Manufacturing

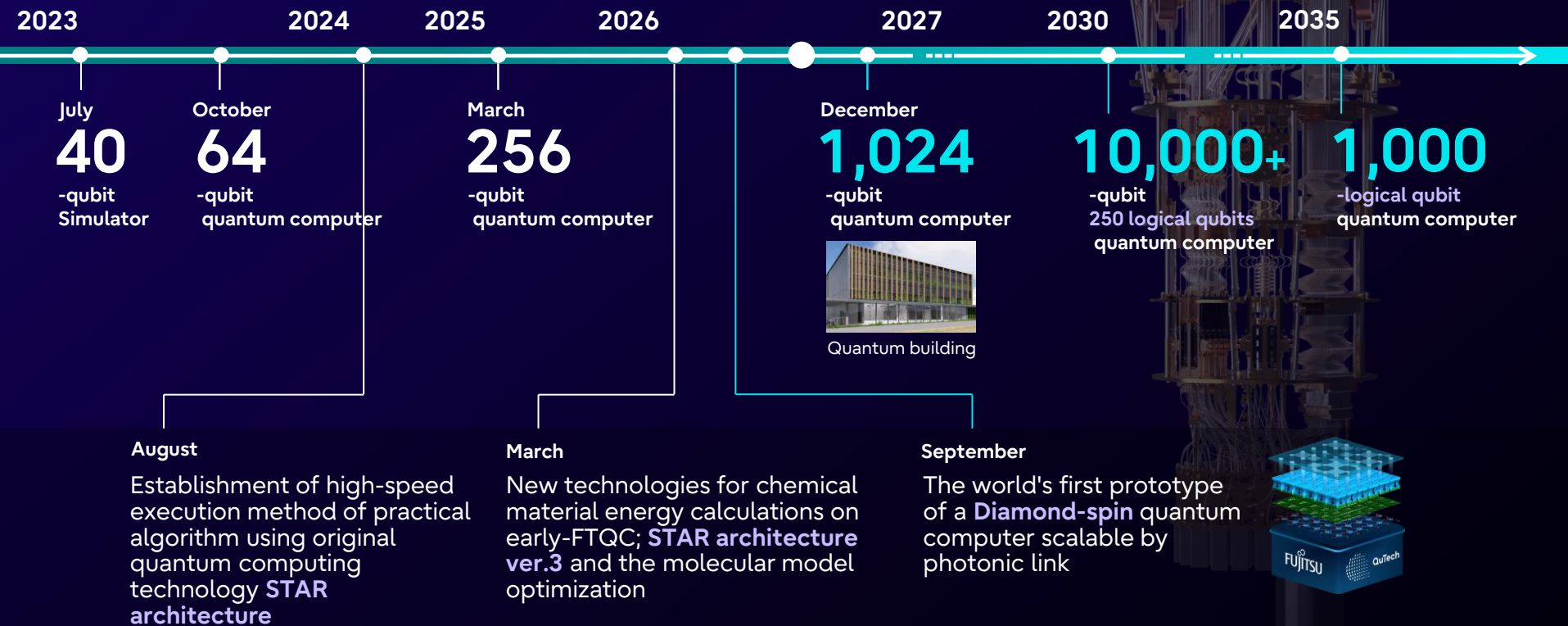


Defense

Fujitsu Quantum Computer

Leading the world with a 250-logical qubit machine by 2030

FUJITSU



Network for AI

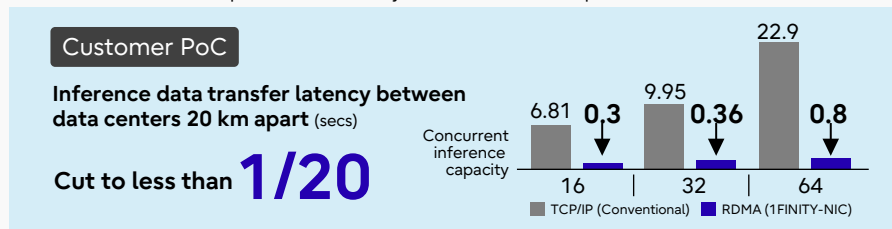
Developing unique technologies critical to distributed data centers powering the rapid growth of AI inference

Photonic System – Network Interface Card **1FINITY-NIC** End of Oct Release

Customer Value Enabling RDMA-based inter-data-center communication (Scale-Across)

Strength High-throughput optical transmission over distances of more than 10 km

Also compatible with the Fujitsu MONAKA Server planned for release in 2027



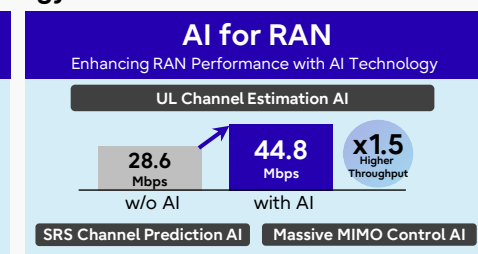
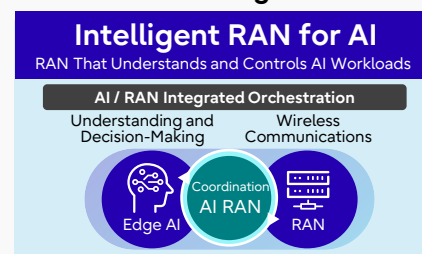
Customers: NAUTILUS, IJ, 九州電力, OTnet

Partners: Accton, Edgecore, LIQID

Mobile System **1FINITY AI-native RAN**

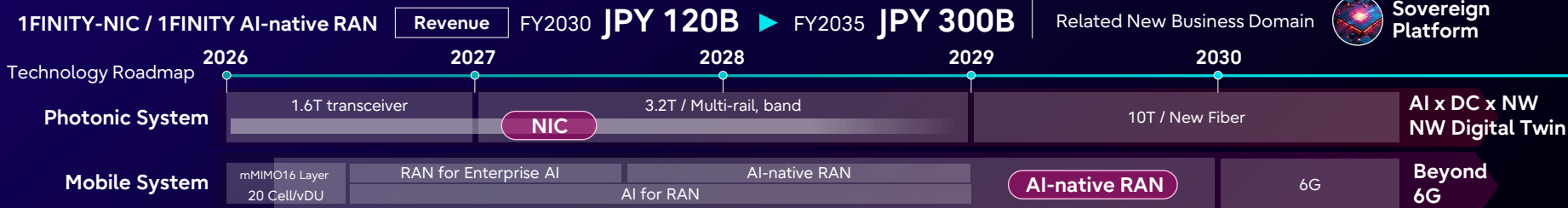
Customer Value Evolving mobile networks from communication infrastructure to the foundation of a new AI society

Strength Realizing AI Infrastructure Implementation through Convergence Technology of AI and RAN



Customers: docomo

Partners: NVIDIA, ARMADA, AIBLE, QCT, SUPERMICRO



Technologies for National Security

Contributing to National Security
with Sovereign, Cutting-Edge Technologies

FUJITSU



Fujitsu Kozuchi
/Takane



FUJITSU-
MONAKA



Quantum
Computing



1FINITY-NIC

Next-Generation Infrared Sensors



World-Leading High-Sensitivity, High-Resolution Infrared Sensors Made in Japan

Customer Value

- Combining mid-wave and long-wave infrared technologies enables early detection and monitoring of suspicious vessels
- Miniaturization and reduced power consumption enhance flexibility for installation on vehicles, naval vessels, unmanned aerial vehicles, and other platforms

Strength

- Japan's only cooled infrared sensor with a resolution exceeding 1 million pixels
- Capable of detecting both mid-infrared and far-infrared wavelengths with a single sensor

World's First

Multi-AI Agents for Decision Support

Under Development



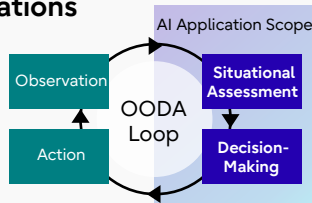
Supporting Rapid, AI-Assisted Decision-Making by Commanders in Complex Situations

Customer Value

- Ensuring Superiority in Information Collection and Analysis Capabilities
- Reducing the burden on personnel and achieving labor savings

Strength

Multi-AI Agent for Defense, Powered by Domain-Specific AI Expertise



Post-Quantum Cryptography and Key Distribution Technologies

Under Development

K Program



Applied to Key Distribution Systems for Safeguarding Classified Defense Communications in the Quantum Computing Era

Customer Value

Realizing a command and control communication infrastructure that achieves both quantum-resistant security and high communication performance and operational continuity.

Strength

Implementation technologies and know-how for key management, including core systems (Key provisioning, management, distribution, and architectural design)

Jointly Conducted with Hitachi, Ltd., Keio University, and Tohoku University

Disinformation Analysis Technology

Under Development

K Program



Leveraging Disinformation Analysis Services to Counter Cognitive Warfare

Customer Value

Rapidly analyzes disinformation, including deepfakes, from multiple perspectives to support early situational awareness and response decisions

Strength

Multimodal disinformation analysis technology for text, images, and context
① Text analysis using Takane ② Deepfake detection
③ Detection of inconsistencies between images and text

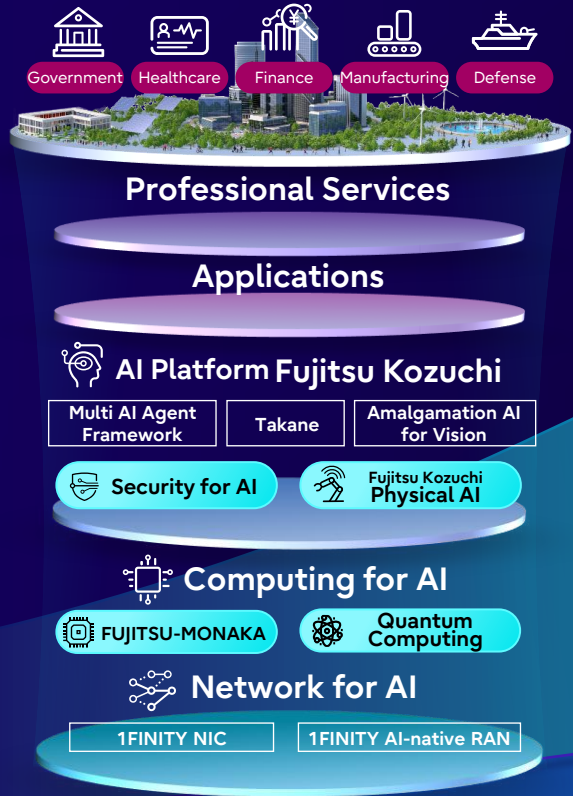
End of Sep PoC Evaluation Scheduled

Co-Creation Partners

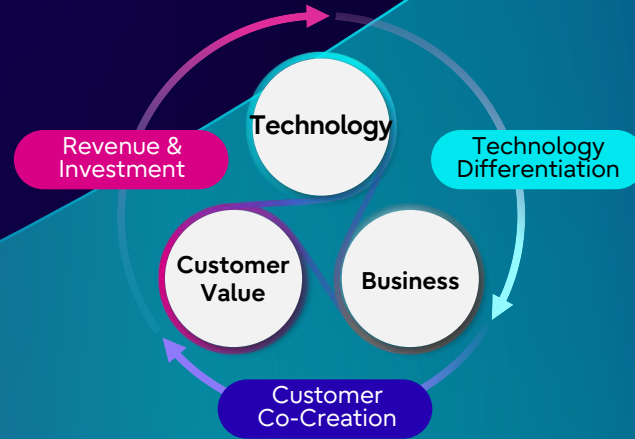


Leveraging Proprietary Technologies to Capture Rapidly Growing AI Inference Demand

FUJITSU



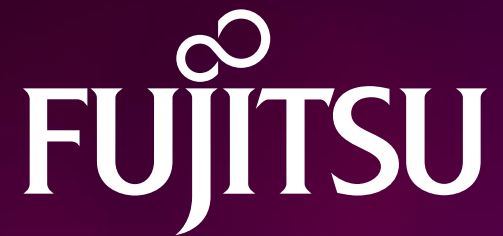
Establishing Sustainable Competitive Advantage Through Differentiated Technologies



Technology-Driven
Continuous
Competitive Advantage

AI Inference Demand

AI Training Demand



Cautionary Statement

These materials may contain forward-looking statements that are based on management's current information, views and assumptions and involve known and unknown risks and uncertainties that could cause actual results, performance or events to differ materially from those expressed or implied in such statements. Actual results may differ materially from those projected or implied in the forward-looking statements due to, without limitation, the following factors listed below.

- General economic and market conditions in key markets (Particularly in Japan, Europe, North America, Oceania, and Asia, including China)
- Fluctuations in exchange rates or interest rates
- Fluctuations in capital markets
- Intensifying price competition
- Changes in market positioning due to competition in R&D
- Changes in the environment for the procurement of parts and components
- Changes in competitive relationships relating to collaborations, alliances and technical provisions
- Risks related to public regulations, public policy and tax matters
- Risks related to product or services defects
- Potential emergence of unprofitable projects
- Risks related to R&D investments, capital expenditures, business acquisitions, business restructuring, etc.
- Risks related to natural disasters and unforeseen events
- Changes in accounting policies

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