



Fujitsu Kozuchi

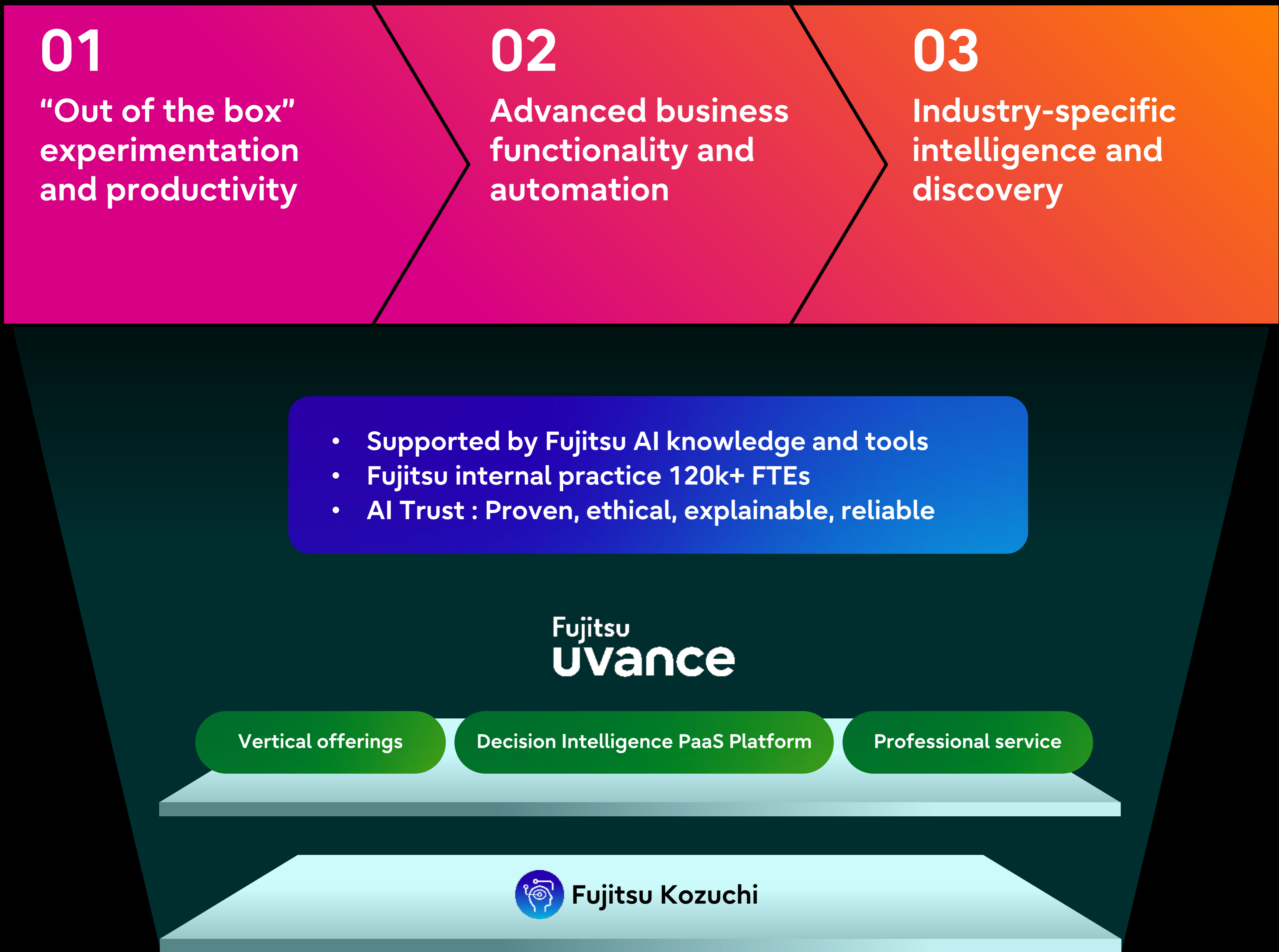
World-class AI solutions for
immediate business results



Artificial Intelligence (AI) has an important role to play in solving global environmental problems, developing a digital society, and improving people's wellbeing. Effective AI adoption is also a powerful enabler for enterprise growth. To fully realize the benefits and use AI to its full potential, two factors are essential: the implementation of reliable AI and the acquisition of AI literacy. It is important for management to invest in both an organization's human employees, and their AI systems, to maximize value creation. And to increase human productivity and creativity in organization, it is necessary to use a combination of job-specific AI that can leverage and analyze data in business systems.

Three steps for successful AI Adoption

Fujitsu recommends going through three gradual steps towards successful AI adoption: (1) implement AI to support existing use cases, (2) automate a wider range of operations and data, and (3) ultimately, develop AI models using industry-specific data. Following these steps will empower more people in your organization to use AI, enabling industry-leading levels of value creation and transformation. Managements who can make full use of AI as an assistant will lead the next generation of "knowledge-creating" growth companies.




What is Fujitsu Kozuchi?

To aid the first stage of AI adoption mentioned earlier – out of the box experimentation to quickly implement common AI use cases – Fujitsu has introduced the Fujitsu Kozuchi platform.


Fujitsu Kozuchi is Fujitsu’s proprietary cloud-based AI platform, consisting of seven areas of AI (Generative AI, AutoML, Predictive Analytics, Kozuchi for Vision, Kozuchi for Text, AI Trust, XAI) that can be rapidly developed, tested, and implemented to deliver immediate results.

Leveraging Fujitsu Uvance offerings, Data Intelligence PaaS, and custom AI development supported by professional services, the 7 areas of Fujitsu Kozuchi can rapidly enable industry-leading levels of value creation and transformation.




Utilize Generative AI privately and securely with my own data.

Fujitsu Kozuchi
Generative AI




Accurately forecast future trends from a variety of historical data using AI.

Fujitsu Kozuchi
Predictive Analytics




Process and analyze text data through NLP & AI.

Fujitsu Kozuchi
for Text




Analyze human behavior and objects using AI.

Fujitsu Kozuchi
for Vision



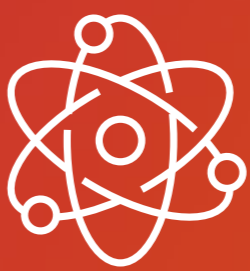
Verify the fairness of decisions and ensure regulatory compliance.

Fujitsu Kozuchi
AI Trust



Discover cause-and-effect relationships in data related to people and things using AI.

Fujitsu Kozuchi
Explainable AI (XAI)



Generate AI code to save time for data scientists.

Fujitsu Kozuchi
AutoML



Fujitsu Kozuchi Generative AI



Challenge:

- Need to leverage power of Generative AI, but concerns remain on analyzing proprietary data, risk of compromising sensitive information, and inability to trust the results due to potential for hallucination



Solution:

- Fujitsu Kozuchi Generative AI is delivered in a secure environment for enterprises without information leakage and with anti-hallucination



Benefit:

- Generative AI provides an interface between a computer system and a human for natural language and non-structural data to increase human productivity and human creativity



Fujitsu Kozuchi Predictive Analytics



Challenge:

- Organizations facing uncertainty and inefficiency often look towards their historical data to proactively anticipate future trends



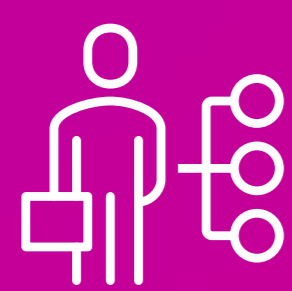
Solution:

- Fujitsu Kozuchi Predictive Analytics uses dynamic ensemble models to provide stable, accurate demand forecasts and automated, hands-free tuning for changing characteristics of a wide variety of products



Benefit:

- Forecast the future more accurately using a variety of data



Fujitsu Kozuchi for Text



Challenge:

- Processing and analyzing huge amounts of text data is next to impossible for humans



Solution:

- Process and analyze text that is digital data through natural language processing technology



Benefit:

- Faster processing and AI-aided analysis of huge amounts of text data in a short time



Fujitsu Kozuchi for Vision



Challenge:

- Manual detection of specified objects or human behavior from videos is time-consuming and ineffective, especially with very large number of camera feeds



Solution:

- Fujitsu Kozuchi for Vision enables conversion of information from optical devices, such as the posture, shape, movement, and character recognition of humans and objects, to digital data for analysis and judgment



Benefit:

- Easily recognize complex human behavior with approximately 100 basic behavior-learned models and behavior-recognition rules created with no-code UI



Fujitsu Kozuchi AI Trust



Challenges:

- How do you detect if your source data or the AI model is biased?
- How to mitigate this bias and ensure fair results?



Solutions:

- Fujitsu Kozuchi AI Trust allows you validate AI learning data and fairness of judgment from a web browser and improve it as needed
- It helps you implement AI in your systems for AI ethics, AI quality, and AI security, and improve your AI literacy for accuracy, fairness, piracy, information management, and abuse



Benefits:

- Build trusted AI systems easily without deep AI expertise
- Easily detect and improve intersectional bias that is difficult for humans to notice (e.g., gender x age)



Fujitsu Kozuchi Explainable AI (XAI)



Challenge:

- Some applications cannot rely on AI if they are Blackbox systems with no transparency of outputs. AI’s suggestions need to be explainable and further vetted by a human



Solution:

- Fujitsu XAI allows you to discover and explain the causality of the AI output. Finds individually useful causal relationships that are typically missed, by exhaustively testing all possibilities against table data, providing explanations of decision results and field improvement actions



Benefit:

- Go beyond human ability to process data with fast, exhaustive calculations of causal relationships under all conditions, even from massive amounts of data



Fujitsu Kozuchi AutoML



Challenges:

- Lack of sufficient skilled data scientists to build ML models to analyze data
- Standard AutoML models are difficult to understand and therefore customize



Solution:

- Fujitsu Kozuchi AutoML automates the process of designing and building AI models to make it easier for non-data scientists to design, build, and tune them



Benefits:

- Fujitsu’s proprietary AutoML technology enables rapid generation of highly accurate machine learning models, including trial-and-error executable programs
- It also provides the ability to automatically convert business issues into appropriate mathematical expressions when they are entered in natural language, and to automatically generate AI specific to customer business

Globally, Fujitsu expert engineers can help customers accelerate AI adoption through a deep understanding of customer operations, data, and AI technology. Fujitsu can provide end-to-end support, from consulting services and proof-of-concept (POC) through to implementation and providing professional services.

Fujitsu Kozuchi for Vision for an electronic board manufacturer



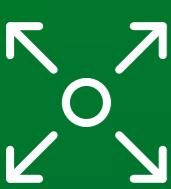
Challenge:

- As most of Automated Optical Inspection (AVI) systems for printed circuit boards are of high quality, manually examining flawed products becomes a significant challenge



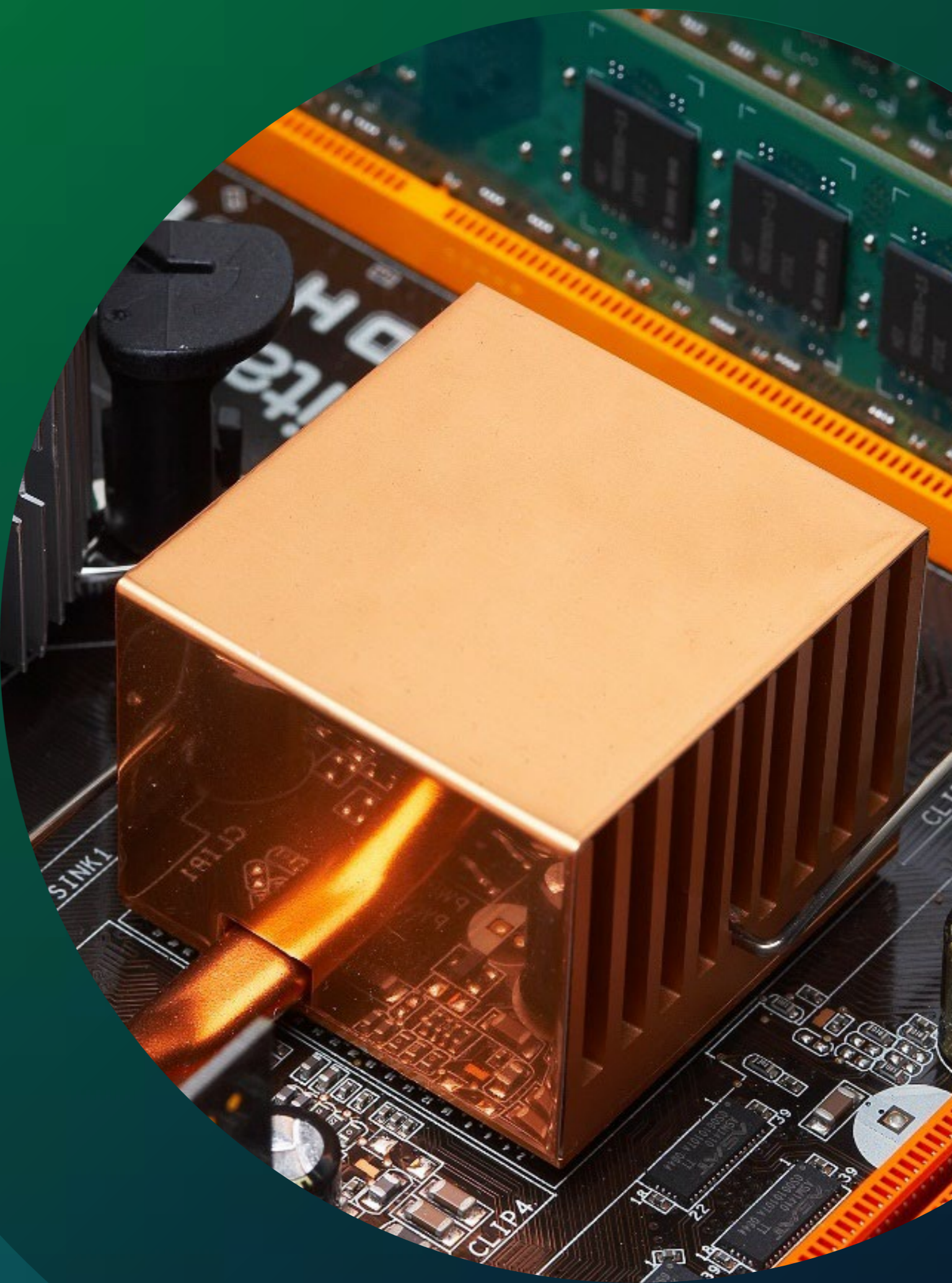
Benefits:

- AI models created even with limited defective product data
- Reduced burden on employees for visual inspection



Effects:

- Reduced people-hours for visual inspection
- **Reduced inspection costs by 25%**



Fujitsu Kozuchi for Vision for a beverage maker



Challenges:

- Loss of focus due to vibration in the factory
- Loss of accuracy due to varying brightness levels caused by differing lighting conditions



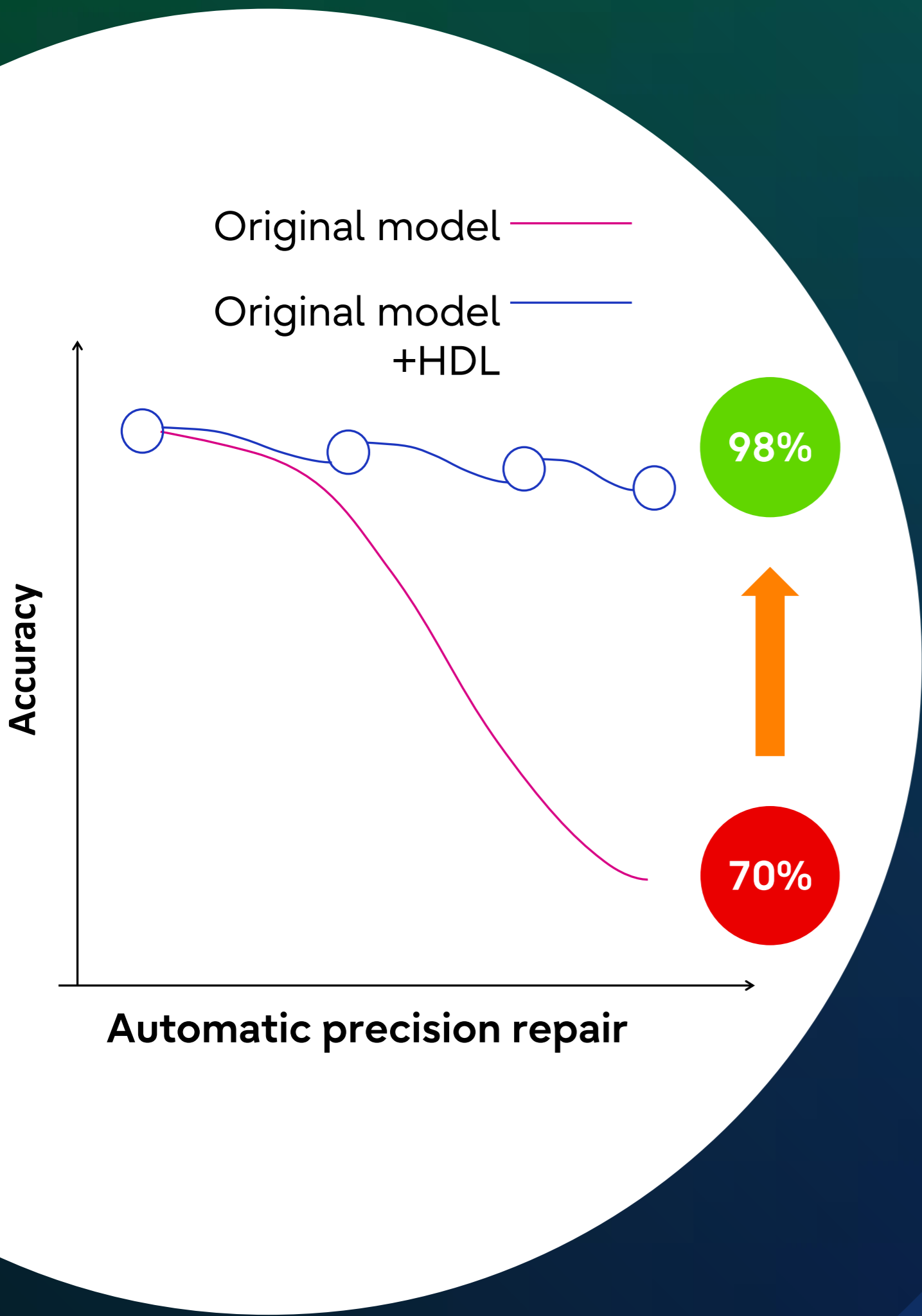
Benefits:

- Ability of the AI model to detect and repair subtle accuracy degradation, often overlooked by humans
- Consistent high accuracy of AI models in varying conditions



Effects:

- Ability to automatically notify security after detection, even if no monitor is present
- Light configuration with installation of only cameras and no servers



Fujitsu Kozuchi for Vision for a large retail company



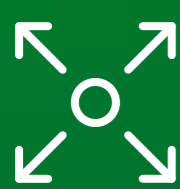
Challenge:

- Difficulty in making store management decisions relying solely on intuition and experience of employees



Benefits:

- Evidence-based understanding of on-site conditions and sales
- Utilize scientific data from surveillance camera footage
- Crime prevention



Effects:

- Development of evidence-based policies
- Discovery of customer trends
- Management insight into actual store conditions



Fujitsu Kozuchi for Vision for a bus terminal in a large city



Challenge:

- Difficulty in monitoring large bus terminal to automatically identify fighting, loitering, vandalism, arguments, agitated groups of people etc., to maintain peace and decorum



Solutions:

- Suspicious Behavior Detection
- Powered by Fujitsu Kozuchi for Vision



Benefits:

- Ability to automatically notify security after detection, even if no monitor is present
- Light configuration with installation of only cameras and no servers

Fujitsu Kozuchi Generative AI for a large car manufacturer



Challenges:

- Reduce time taken by call center to respond to customer questions
- Difficulty in parsing large vehicle manuals to respond quickly



Solutions:

- Fujitsu Kozuchi Generative AI - load large manuals into a LLM
- Interface to ask questions and get quick summaries of solutions



Benefits:

- Ability of the call center to offer rapid response time to customer queries
- Go beyond human capacity to remember and process large manuals
- Ensure AI shows source of provided information (future plan)



Fujitsu Kozuchi AutoML for a large university



Challenge:

- Difficulty to work on data science ideas quickly without having senior programming skills



Solution:

- Fujitsu Kozuchi AutoML to generate production-ready Machine Learning code quickly with just a few prompts



Benefits:

- Ready-to-use analytic pipeline for entry-level scientists to review the process from start to finish
- Allow students to focus on analyzing the data itself rather than focus on implementation



Fujitsu Kozuchi for Vision for a security services provider



Challenge:

- Shortcoming of existing surveillance camera solutions in automatically detecting suspicious behavior



Solutions:

- Suspicious Behavior Detection – powered by Fujitsu Kozuchi for Vision
- Ease of editing rules to detect various types of behaviors



Benefits:

- Automatically notify security after detection of a suspicious event such as: breaking & entering, loitering, fighting, bullying, etc.
- Ability to extend automated security services to houses, schools, ATMs, utilities and mission critical infrastructure, state penitentiaries, banks, etc.



Fujitsu Kozuchi for Vision for a building materials manufacturer



Challenges:

- Facing quality assurance issues
- Need to detect faulty manufactured products to identify cause



Solutions:

- Product Defect Inspection
- Powered by Fujitsu Kozuchi for Vision



Benefit:

- Automate quality assurance process to minimize product defects and down times



Fujitsu Kozuchi for Vision for a large airport



Challenges:

- Inability to monitor and manage queue build-up
- Difficulty to detect people in areas off-limits and prevent accidents



Solutions:

- Fujitsu Kozuchi for Vision
- Monitor queue build-up, restroom usage, population density; detect persons in areas outside defined perimeter, abandoned bags, accident-prone situations, etc.



Benefits:

- Better customer service with less human interaction
- Improved safety & efficiency of airport operations



Fujitsu Kozuchi Generative AI for an energy supplier



Challenges:

- Looking for automation to make service desk more efficient
- Need for proactive monitoring to anticipate incidents



Solution:

- Gen AI & LLMs integrated with ServiceNow to capture better data in tickets and improve service desk performance

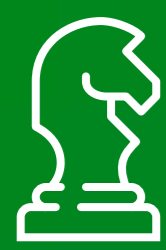


Benefits:

- Better quality incident handling
- Smoother operations
- Overall cost reduction



Fujitsu Kozuchi for Vision for a public transport authority



Challenge:

- Need to detect antisocial behavior (fighting, assaults and conflict) on public transport



Solutions:

- Suspicious Behavior Detection
- Powered by Fujitsu Kozuchi for Vision



Benefits:

- Deterrent and better handling of antisocial behavior situations



Fujitsu Kozuchi for Vision for a large manufacturing company



Challenges:

- Facing quality assurance issues
- Need to monitor work process (screw tightening sequence)
- Need to ensure correct installation of parts automatically



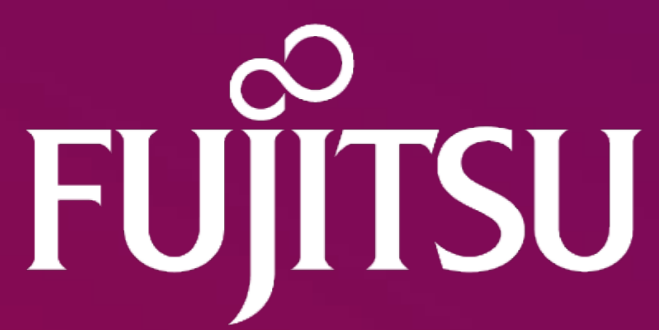
Solution:

- Operational Process Analysis & Product Defect Inspection – powered by Fujitsu Kozuchi for Vision



Benefit:

- Automate quality assurance process to minimize product defects and down times



Fujitsu regularly works closely with customers on a co-creation approach, to solve new social and organizational challenges, and build new use cases, using AI and other key technologies.

If this brochure inspires you to consider new ways of leveraging AI to solve your specific business issues, reach out to us, and mention the reference code: 4231.

To know more about Fujitsu Kozuchi, please visit

www.fujitsu.com/global/kozuchi

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