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Hutzper

Mission

"Implement the cutting-edge technology as a reliable workforce."

Company name	Hutzper Inc.
Date of Establishment	April 1, 2020
Capital	$1,632,000 (240 million yen)
Representative	Hiro Onishi
Number of employees	85 people (As of April 2025, including part-time workers and interns)
Our services	Providing AI services for manufacturing industry
Headquarters	Shinosaka-CSP building North-4F, 1-11-16 Nishinakajima, Yodogawa-ku,Osaka City, Osaka, 532-0011, Japan TEL:+816-7777-2552
Acquisition Standards	ISO/IEC 27001:2022 and JIS Q 27001:2023 (ISMS certification) Certification registration number: IS 811223 Certified offices: Osaka Head Office and Kanto Branch Date certified: October 21, 2024

(As of 2025.4)

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Value

Be Hutzper.

"Hutzper" is a coined word that represents ambition without fear of risk, a bold and undaunted attitude to get things done, and people who have the drive to take on various challenges. We will provide "AI that is truly usable in the field" with persistence, boldness, and prudence in our field-oriented approach.

Delivering "usable AI" demanded by the field through integrated technology

Built as one: The Hardware through The Software

Experts in manufacturing and frontier tech

A track record of hundreds of practical AI deals

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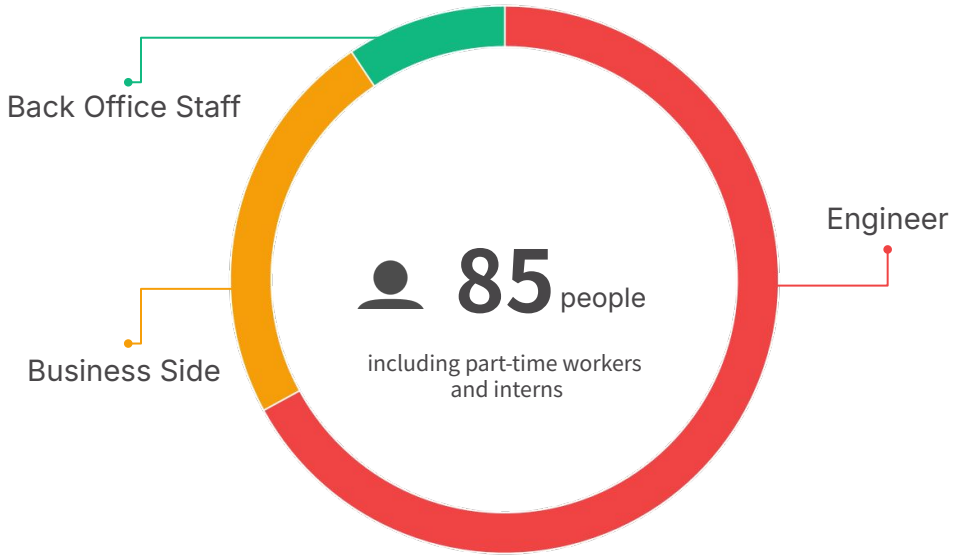
Our Members



Enrolled members

- Image Processing Engineers
- Optical Engineers
- Electrical Circuit/Control Engineers (PLC, etc.)
- Hardware Design Engineers
- AI Engineers
- Data Scientists
- DX PJ Managers
- Strategy Consultants

Company founders

Founder/Chief Executive Office

Hiro Onishi

He tried to start a business in Israel, and after returning to Japan, working for an AI/IoT venture for factories. After that established our company. He is a Member of MENSA. Softbank Academia external 12th grader.

Co-Founder/Chief Operating Officer

Kota Kurose

Work experience at an automobile press factory while in university. Previously engaged in many AI implementation projects at IBM Japan. Received the highest evaluation for the third consecutive term in IBM. Co-founded later.

Co-Founder/Chief Technology Officer

Kazuki Yumiba

Researched genome editing at the university. Co-founded by new graduates. He has a track record of presenting at NVIDIA “GTC 2020” and a 5G demonstration project of the Ministry of Internal Affairs and Communications.

(As of 2025.4)

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Technical Advisor | Dr. Takeo Kanade

A research approach that emphasizes a balance between practicality and theory. World-leading Japanese researcher in the fields of robotics and computer vision.

Carnegie Mellon University
Founder's Memorial All Professors
Robotics Institute
Dr. Takeo Kanade

D. from the Graduate School of Engineering, Kyoto University in 1974.
Since then, he has served as a full professor at Carnegie Mellon University, a special advisor to RIKEN, and a special professor at Osaka University. He is currently a Fellow Emeritus of the National Institute of Advanced Industrial Science and Technology (AIST), a Distinguished Visiting Professor at Kyoto University, and a Founder's Memorial University Professor at Carnegie Mellon University.

[Major Research Areas and Achievements]

- **Automated driving technology (No Hands Across America)**

First in the world to build technology that enables cars to automatically recognize roads and obstacles using sensors and cameras. Successfully demonstrated automated driving across the continental United States, laying the foundation for today's automated driving technology.

- **Face Recognition Technology**

The first practical application of technology that allows a computer to accurately find a “face”. This technology is widely used in everyday life, including the face recognition functions of today's smartphones and surveillance cameras.

- **Video-based 3D recognition (Kanade-Lucas-Tomasi (KLT) tracker, etc.)**

Developed video analysis technology and built a foundation for tracking feature points in video and recognizing object motion and three-dimensional shapes. These technologies play an important role in supporting the evolution of film production, games, and augmented/virtual reality (AR/VR).

- **Eye Vision system**

This technology enables multiple cameras to work in tandem to capture images, allowing spectators to enjoy the play from any viewpoint. It established a new standard for sports broadcasts and is now being applied in a variety of fields.

Winner of many awards from prominent societies such as the American Computer Society (ACM) and IEEE. In 2016, BBVA Foundation Frontiers of Knowledge Award, the “Nobel Prize” in computer science.

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Business Partners

190+ Companies

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Hutzper Family

Visual Inspection & Quality Analytics

Hutzper Vision

Visual Inspection AI Saves Labor and Improves Quality Control

- AI checks product quality instead of people
- Solves labor shortage and reduces human error
- Experts support setup and operation

Workforce Optimization AI

Hutzper Allocation

AI-Driven Staffing Optimization Based on Skills and Productivity

- AI suggests best workers for each task
- Quickly adapts to schedule changes
- Tracks and manages each worker’s skills

Tailor-Made AI for Your Workflow

Hutzper Analytics

AI-Driven Staffing Optimization Based on Skills and Productivity

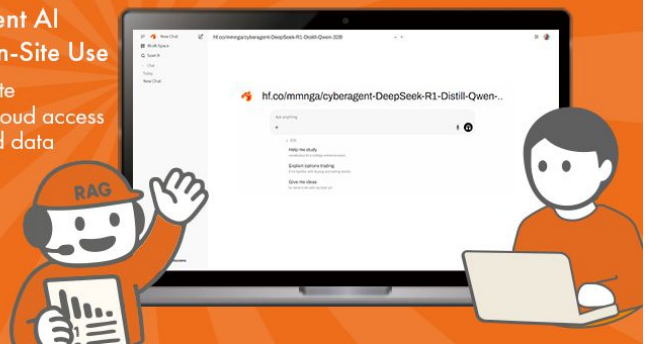
- AI suggests best workers for each task
- Quickly adapts to schedule changes
- Tracks and manages each worker’s skills

Offline LLM, with unique extraction tech

Hutzper RAG

Fast, Private, and Cost-Efficient AI for On-Site Use

- Keeps your data safe and private
- Works even in places with no cloud access
- Supports extraction of structured data such as PowerPoint



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Giving Support to the Field

Pre-built Solution

- Hutzper Vision
- Hutzper Allocation
- Hutzper RAG

Hutzper Analytics

- Action Detection
- Safety Measures
- Predictive Analytics
- Predictive Maintenance
- Generative AI
- AI Consulting

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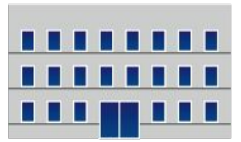
Support for individual and total optimization of the entire supply chain

R&D → Product Development → Design → Supply → Manufacture → Logistics → Marketing



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Visual Inspection & Quality Analytics

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Strengths and Basic Functions

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#1. Delivers high-accuracy AI specialized for visual inspection

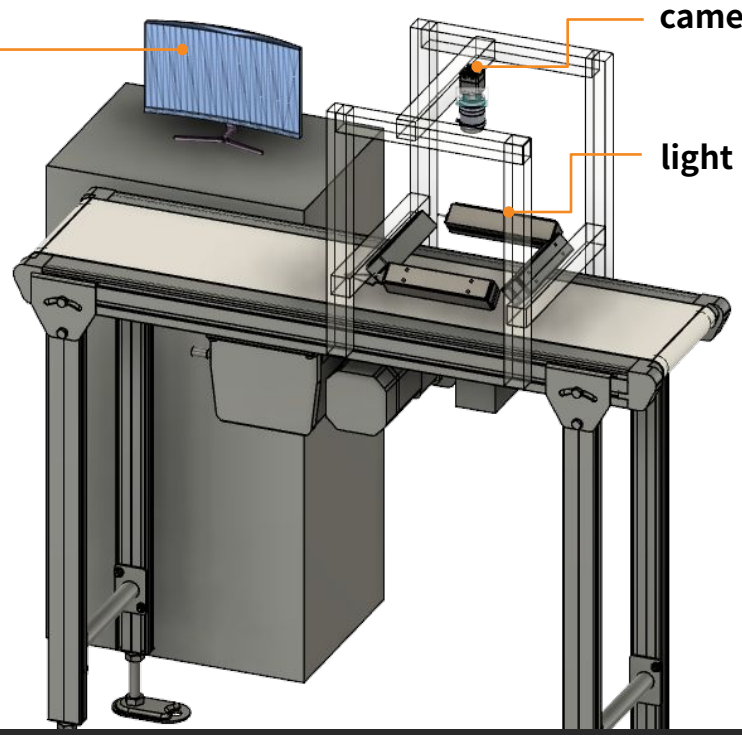
#2. Achieves quick return on investment

#3. Integrates both hardware and software as a total solution

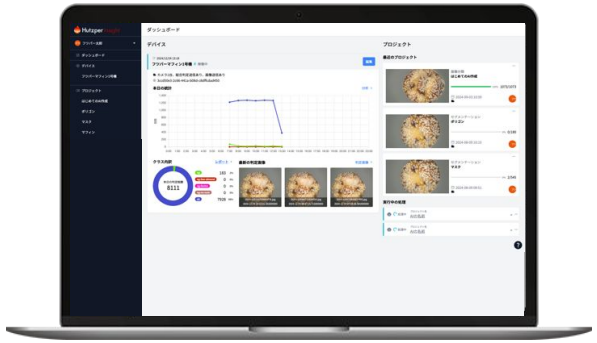
#4. Provides both inspection and quality management features

On-site Display

- Real-time defect detection
- Easy threshold adjustment



Management Applications



- Data trends and quality insights
- No-code AI development
- AI retraining

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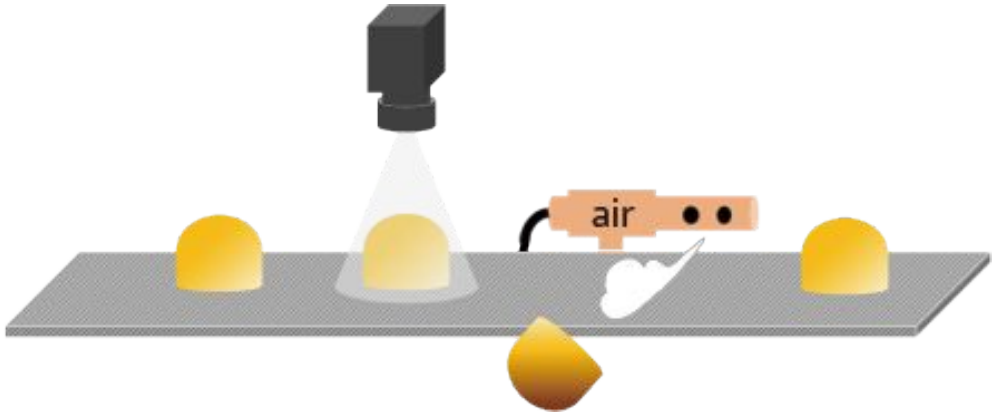
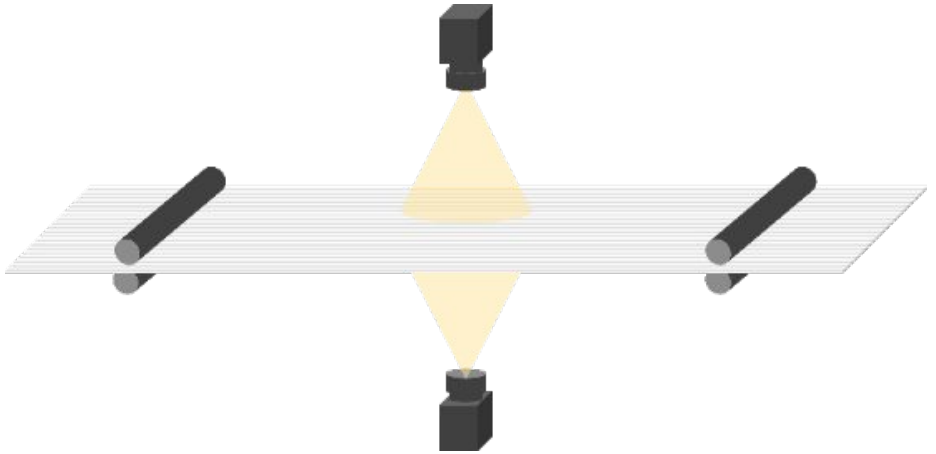
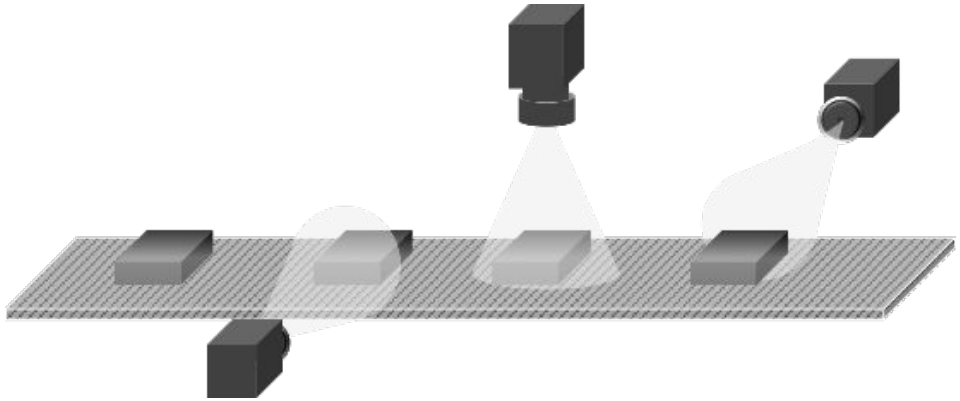
#Backed sweets :Integrated Rejection Mechanism



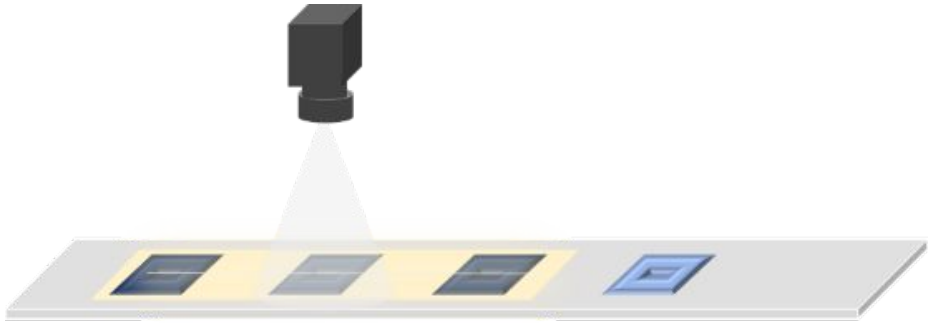
#Paper Production : Roll-Based Inspection



#Metal Parts : Multi-Angle Inspection



#Retort Pouch : Backlight Inspection



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Industry	Object
Food & Beverage	baked sweets
	deep-fried sweets
	rice cookie
	breads
	dried food
	nuts
	chocolate
	cut potatoes
	noodles in a bag
	preserved food boiled in soy
	fish
	frozen food
	retort pack
	bottled beverages

Industry	Object
Pharmaceutical	cultured cell
Rubber, Glass & Plastics	rubber products
	glass bottle
	resin gears
Metals & Machinery	steel material
	light bulb
	clutch plate
	screw
Textiles & Chemicals	rolled paper
	fiber filters
	films
	tube
Electronics & Semiconductors	display
	electronic substrate

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Workforce Optimization AI

Hutzper Allocation

AI-Driven Staffing Optimization Based on Skills and Productivity

- AI suggests best workers for each task
- Quickly adapts to schedule changes
- Tracks and manages each worker’ s skills

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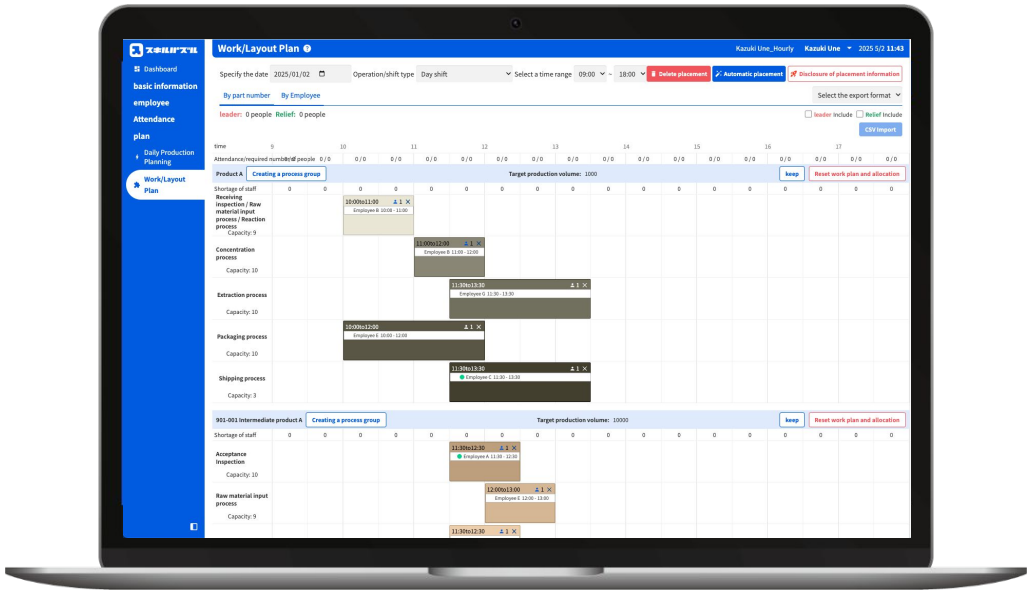
Eliminate Waste & Maximize Workforce Efficiency

Create daily or monthly plans with AI-powered automatic allocation based on registered skills and processes.
Supports simulations, partial edits, and integration with other systems via CSV import.



Boosts productivity and efficiency, even in complex production environments.

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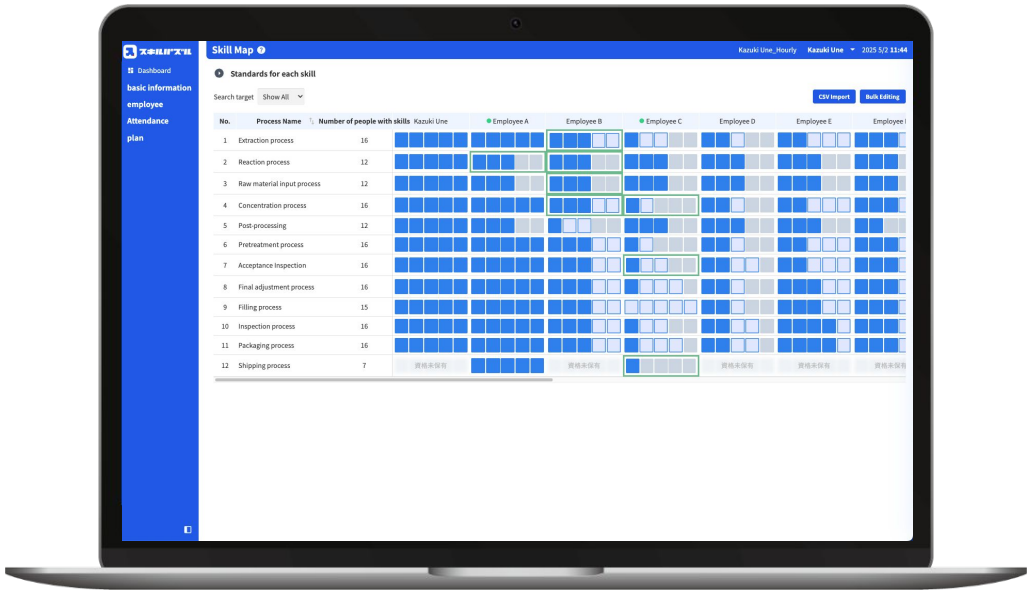
Visualize Skills & Accelerate Workforce Development

Track and evaluate employee skill levels and certifications with clear visibility. Eliminates manual tracking with Excel or paper, and supports multi-skilling, reskilling, and performance reviews.



Smarter skill management for improved training and HR planning.

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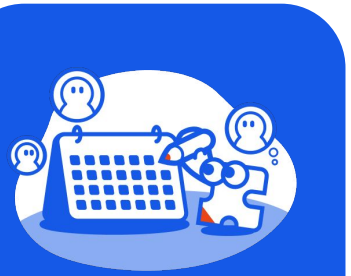
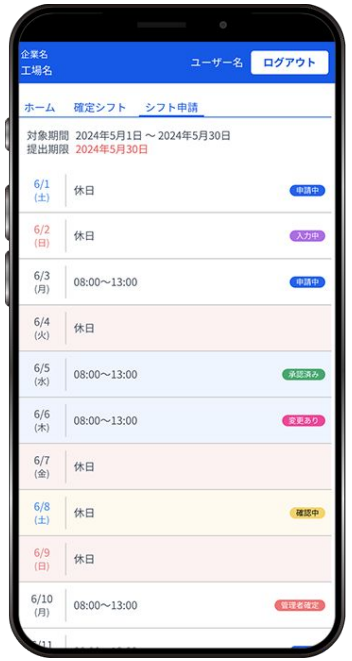


Shift Management

Smart Shift Management via Mobile

Employees can easily submit and check shifts from their smartphones.
Finalized schedules are shared in real-time.



Streamlined shift coordination and improved communication.

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Key Allocation Criteria Considered by Hutzper Allocation

#1. Shift & Production Schedules

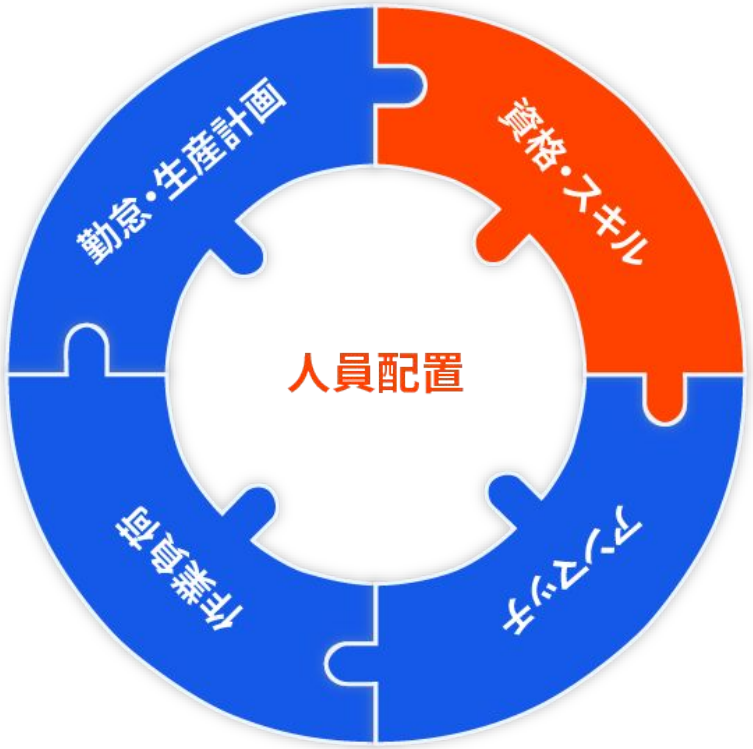
Easily import and integrate external attendance or production plans.
Supports complex, multi-process workflows and time-specific planning.

Benefit: Smooth integration with your existing systems and flexible support for dynamic production needs.

#2. Qualifications & Skills

Limits task assignments based on required certifications and skill levels.
Optimizes team-wide skill coverage to enhance safety, quality, and productivity.

Benefit: Smart deployment that maximizes team performance and operational stability.



#3. Workload Balancing

Adjust assignments based on physical workload or task intensity.
Helps create a worker-friendly environment through fair rotation.

Benefit: Prevents overburdening employees and supports well-being on the shop floor.

#4. Team Compatibility

Avoids mismatched pairings or redundant placements of skilled workers.
Customizable rules to reflect interpersonal dynamics and operational needs.

Benefit: Fine-tuned assignment logic that reflects real-world team dynamics.

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Usecase

Industry	Occupation
Automotive Parts	Assembly Lines
Transportation Equipment	Final Inspection Lines
Pharmaceuticals	Batch Production
Printing	Insertion & Packaging Lines
Electronics	Precision Assembly Lines
Cosmetics	Production Lines
	Filling Process
Stationery	Production Lines
Waste Management	Household Collection Routes
Funeral Services	Staff Scheduling

Industry	Occupation
Food & Beverage	Bread
	cut vegetable & fruit
	processed food
	souvenir snacks
	retort
	baked sweets
	seafood
	beverage
	Product Delivery Routes
Logistics	Inspection & Packing
	Handling Operations

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Tailor-Made AI for Your Workflow

Hutzper Analytics

AI-Driven Staffing Optimization Based on Skills and Productivity

- We build AI that fits your work
- Helps with forecasting, quality checks, and more
- Supports from planning to operation

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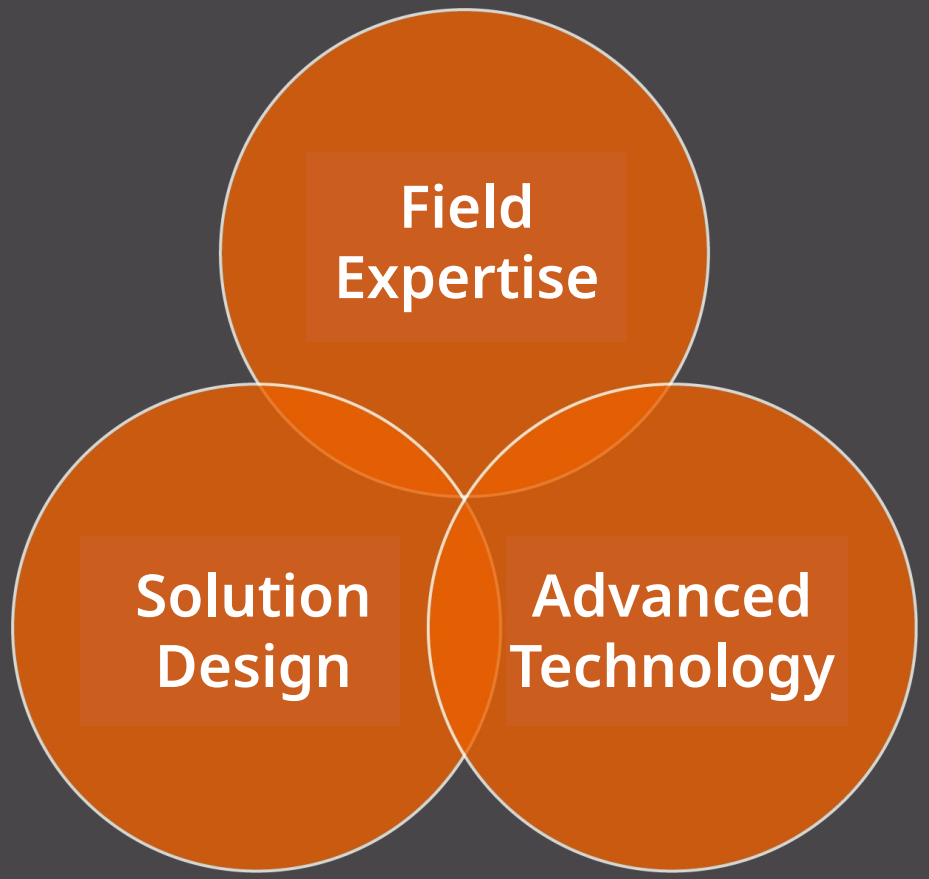
AI for the Field, from the Field



01 Committed to Solving On-Site Challenges

With a strong focus on the manufacturing and logistics industries, we have built a deep understanding of real-world issues through over 3,000 on-site visits and more than 900 successful AI deployments.
Our field-first approach ensures we deliver practical tools and optimal solutions tailored to your specific needs.

02 Analytical Design That Solves the Right Problem

We don’t just deploy the latest technology—we start by understanding your true needs and designing the right analysis to solve them.
Our team applies machine learning and data science to a wide range of data types, including table data, images, natural language, behavioral data, 3D point clouds, production processes, and geo data.

03 Cutting-Edge Technology with Proven Results

Our experts have published in top journals and presented at global conferences such as GTC 2024.
We also hold international patents in generative AI, demonstrating our ability to apply the latest innovations in real-world applications.

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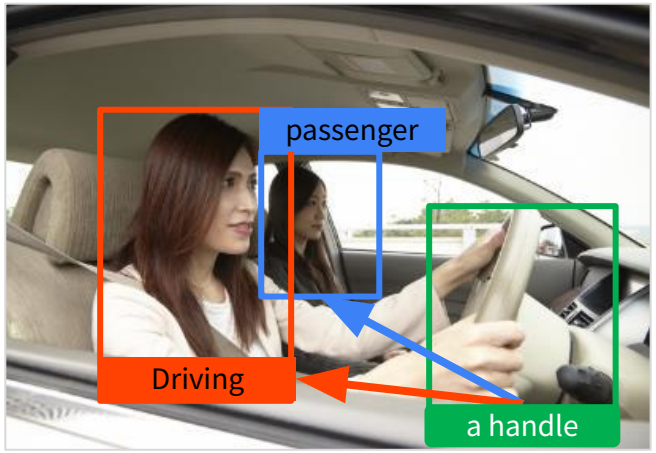


Action Detection

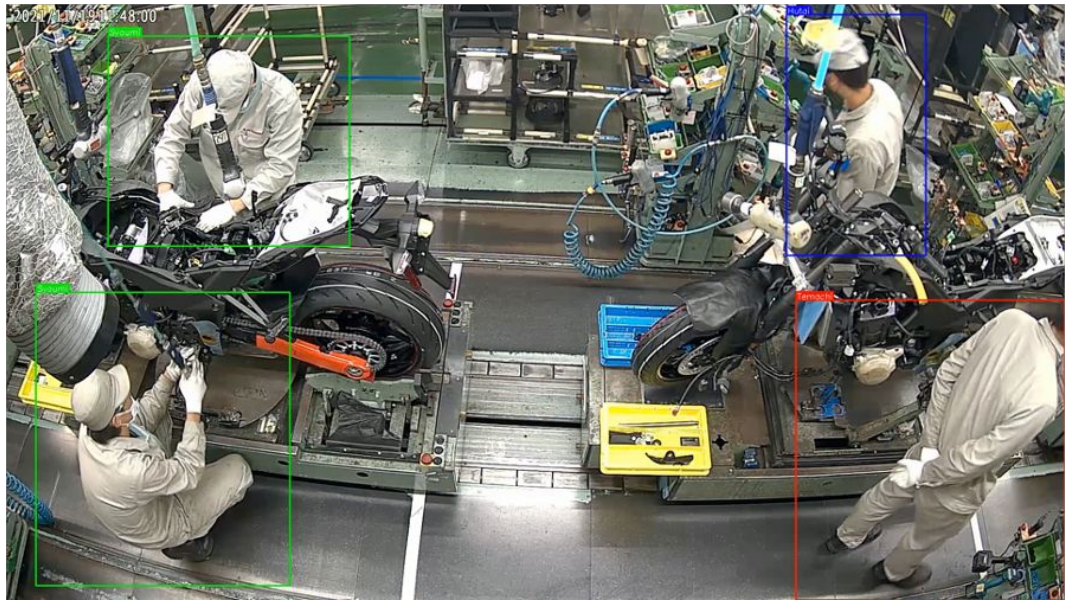
Action Insights for Kaizen Improvement

Capture and analyze worker behavior to enable data-driven productivity enhancement.

Our proprietary AI detects actions without relying on skeletal tracking—ideal for complex factory environments with visual obstructions. Supports industrial engineering (IE) efforts, workflow optimization, and task procedure monitoring.

Case Study – Kawasaki Heavy Industries

Together with Kawasaki Heavy Industries, we developed an AI model that classifies human actions (value-added, auxiliary, idle) from assembly line footage.
Our unique approach—free from skeleton detection—allows reliable classification even when tools or machinery obstruct view. This real-time behavior measurement system is designed to unlock new productivity gains.



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Safety Measures

Prevent Accidents Before They Happen

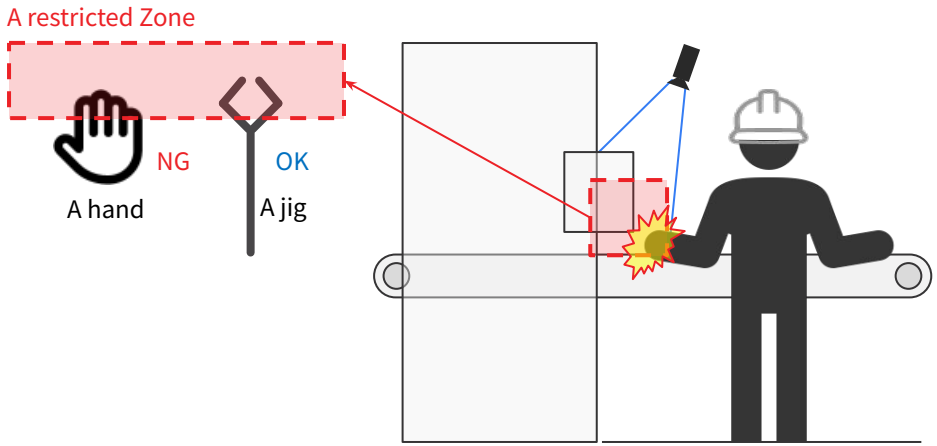
Protect your workforce and maintain operational continuity with real-time risk detection.

Our AI enhances factory safety by detecting unsafe behavior and preventing intrusions into hazardous zones. Benefits include fewer workplace incidents, reduced downtime, and stronger compliance.

Case Study – Automated Emergency Stop for Slicer Machines

Our AI system instantly triggers an emergency stop when a human hand enters a restricted zone—while intelligently ignoring authorized tools and jigs. This minimizes false and excessive detections, striking a balance between safety and operational continuity.

- Offline integration enables instant emergency stops without cloud latency
- Easily connects with existing factory equipment



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Predictive Analytics

Optimize Inventory, Minimize Waste

Forecast demand and detect trends to streamline operations and cut costs.
We use historical and operational data to build tailored algorithms for accurate predictions in maintenance, inventory, and supply chains.

Case Study – Spare Parts Demand Forecasting

We reduced forecasting error from 10% to just 1.5% by analyzing replacement history and operating conditions.
Our AI tackles challenges such as:

- Random vs. scheduled part failures
- Usage-based replacement variations
- Limited training data for rare parts
  The result: stable supply, fewer stockouts, and minimized inventory costs.

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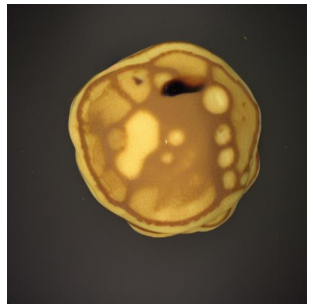

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Generative AI

Enhance Creativity and Efficiency

Accelerate development and innovation using cutting-edge generative AI.
From generating 3D/4D models and defect images to implementing large language models (LLMs) and Retrieval-Augmented Generation (RAG), we provide both solutions and training.

Case Study – R&D Assistant Powered by RAG

In a large R&D department, information overload was slowing progress. Our system, trained on internal documents and communication logs, acts like a smart manager—answering not just what, but why.
It helps:

- Identify relevant knowledge
- Clarify development rationale
- Ensure consistency across projects
  Result: faster development, more confident decision-making.

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Offline LLM, with unique extraction tech

Hutzper RAG

Fast, Private, and Cost-Efficient AI for On-Site Use

- Keeps your data safe and private
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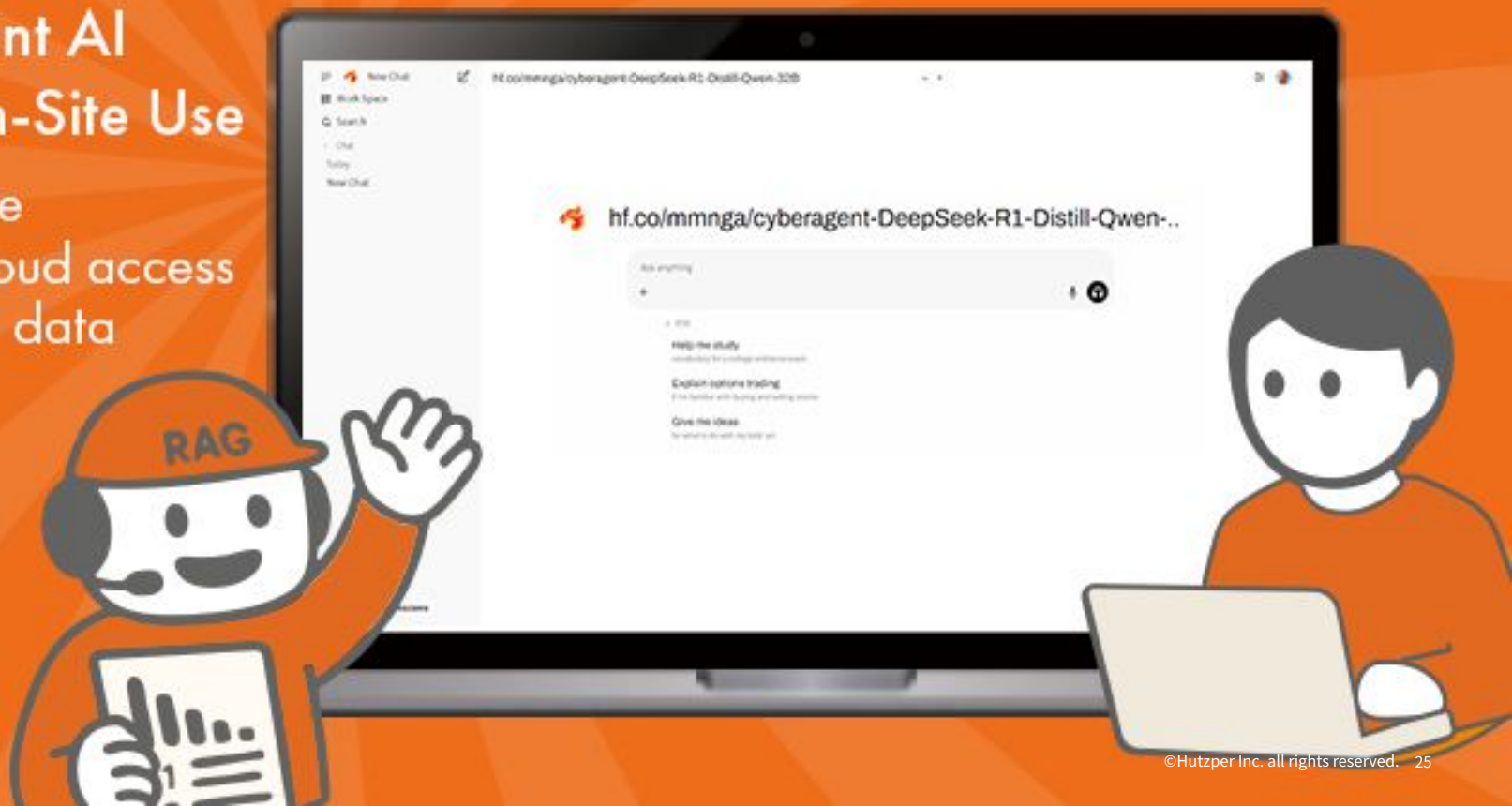

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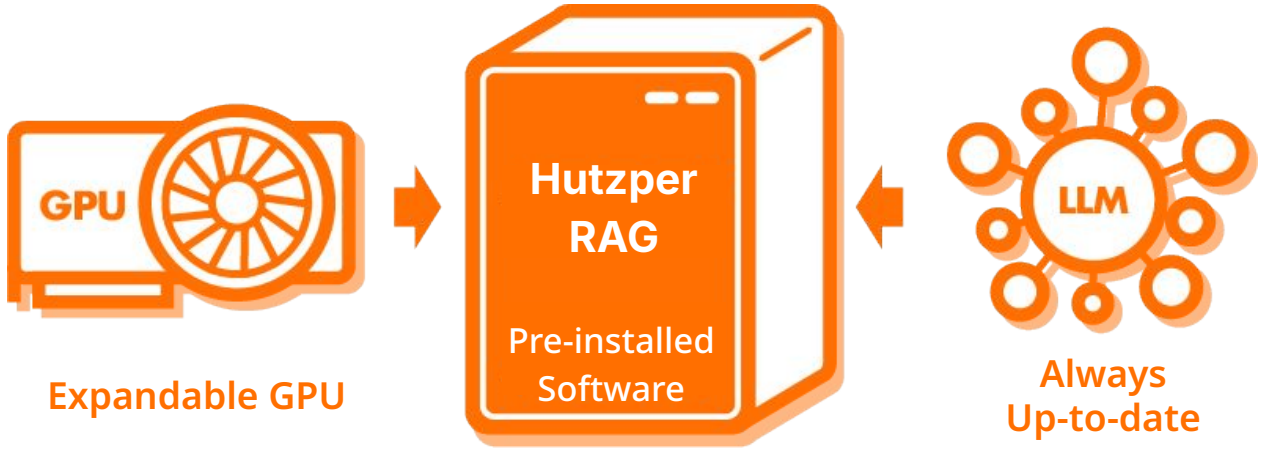
Deploy tailored generative AI in a secure, offline environment—no internet required.

#1. Advanced Data Extraction
Supports PPT, PDFs, images, spreadsheets.
AI reads structure, diagrams,
and context to understand meaning.



#2. Smart Query Expansion
Understands intent behind short prompts
and performs powerful semantic searches across databases.

#3. Closed Environment
Keeps all sensitive data on-premise. No cloud uploads.
Delivered as a turnkey hardware-software package—ready to go out of the box.

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