

- Idea/Shop-floor knowledge
- Manufacturing/Problem, etc.

Let's **create new value together.**

Mitsubishi Electric Co. Nagoya Works
Open Innovation Dept.



- FA control system
- FA solution software
- Sales channel/Global service
- Co-creation laboratory/Startup scouting, etc.



- Innovative cutting-edge technology
- Scalability
- Fast decision-making, etc.

Let's **create** new value together

through "open innovation" that organically integrates
management resources.

Become a Co-Creation Partner

Do you or your customers **have any of these problems** in realizing
"DX/Digital twin/Virtual commissioning"?

DX in manufacturing is not progressing.

(Difficulties in hiring DX talent. Reskilling takes time.
Too much manual labor.)



Automation/labor reduction in production equipment is not progressing.

(Difficulties in introducing robots. ROI is too low.)



About Realtime Robotics, Inc.

Realtime Robotics is a U.S.-based startup established in 2016, developing and selling unique motion planning technology¹. Mitsubishi Electric invested additional funds with the aim of expanding the application of FA software products and FA control systems.

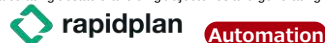
¹Technology for calculating obstacle-avoiding trajectories and generating routes



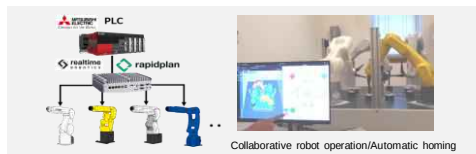
A cloud AI service that achieves the "shortest cycle time"
by optimizing robot motion paths, interlocks, tasks, layouts, and more.



Company A
(System integrator)
Taking all conditions into account is **difficult for humans**, making this service highly attractive. We can achieve the same results **without relying on individual know-how**. It also supports DX and effective use of data.



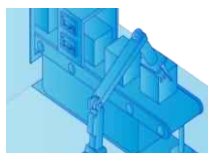
Software that easily achieves multi-robot coordinated control
by automatically calculating robot motion paths in real time.



Company B
(End user)
Automatic homing is possible with one click under any conditions, achieving zero downtime. Robots from different manufactures can collaborate, and **no programming is required**, making it easy to use.

Creating new value through open innovation

Co-creation partner



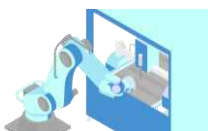
Cycle time 15.1 s	▼14% Cycle time 13.1 s
Design work hours 4.0 days	▼50% Design work hours 2.0 days



Hirata
HIRATA Corporation

We were astonished when "Gemini-Resolver" instantly outperformed the cycle time of an existing program optimized by skilled engineers. Also, the training time was significantly reduced from four days to just two. While creating new value together, we are also exploring new business challenges for customers aiming at virtual commissioning.

Co-creation partner



Cycle time 41.3 s	▼18% Cycle time 33.9 s
Design work hours Co-creation	▼**0% Design work hours Co-creation

Co-creation partner



Cycle time Co-creation	CC-Link IE Field Basic verified Cycle time Co-creation
Design work hours Co-creation	Design work hours Co-creation

Let's create new value together through open innovation.

If you are looking to create a new business or product or having any problems, please contact us.

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