

Business Briefing New Businesses

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Furukawa Electric Co., Ltd.

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Projections of future sales and earnings in these materials are "forward-looking statements."

Management offers these projections in good faith and on the basis of information presently available.

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FURUKAWA ELECTRIC CO., LTD.

1. Objective of creating new businesses
2. Initiatives for creating new businesses
 - ① Social infrastructure DX
 - ② Life sciences
 - ③ Space
3. Identifying new businesses

1. Objective of creating new businesses

Objective of creating new businesses

- 1) Realize Furukawa Electric Group Vision 2030
- 2) Create new businesses that will contribute to solving social issues
- 3) Become a corporate group that is needed by society (ESG management, SDGs)
- 4) Increase corporate value through the core businesses (economic value) and the businesses that will form the pillars supporting the soul (social value)
- 5) Create a foundation for next-generation growth through new businesses (growth strategy)
- 6) Link the company's vision and employees' visions through new businesses
- 7) Increase employee motivation (Share the initiatives for creating new businesses)




Furukawa Electric Group Vision 2030



Utilize the core technologies, and create new businesses designed to solve social issues

1. Objectives of creating new businesses
- 2. Initiatives for creating new businesses**
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2. Initiatives for creating new businesses

Social issue (Solution)	SDGs	Representative products / services
<p>Social infrastructure DX Maintenance and management for aging infrastructure that contributes to increasing national resilience (Realize high value added maintenance, management and inspections)</p>		<ul style="list-style-type: none"> ■ Michi-ten Snap® ■ Michi-ten Assist® ■ Michi-ten Cruise® ■ Tetsu-ten™
<p>Life sciences Directed at the “age of 100 year life expectancy”, reduce the burden on medical practitioners and patients, and prevent disease (pre-disease) (Find using light, measure using light and cauterize using light)</p>		<ul style="list-style-type: none"> ■ Laser device + optical fiber probe ■ Tellumino® ■ Non-invasive blood sugar measurement device
<p>Space Provide broadband telecommunications infrastructure to everyone, everywhere, and realize a safe, peaceful and rewarding society through the use of earth observation data (Participate in the functional products and subsystem businesses for satellites)</p>		<ul style="list-style-type: none"> ■ Development of a Hall thruster power supply ■ Braided magnet wire for Hall thrusters ■ Inter-satellite optical communications subsystem

Example of a business: Social infrastructure DX (Launched in FY2021)

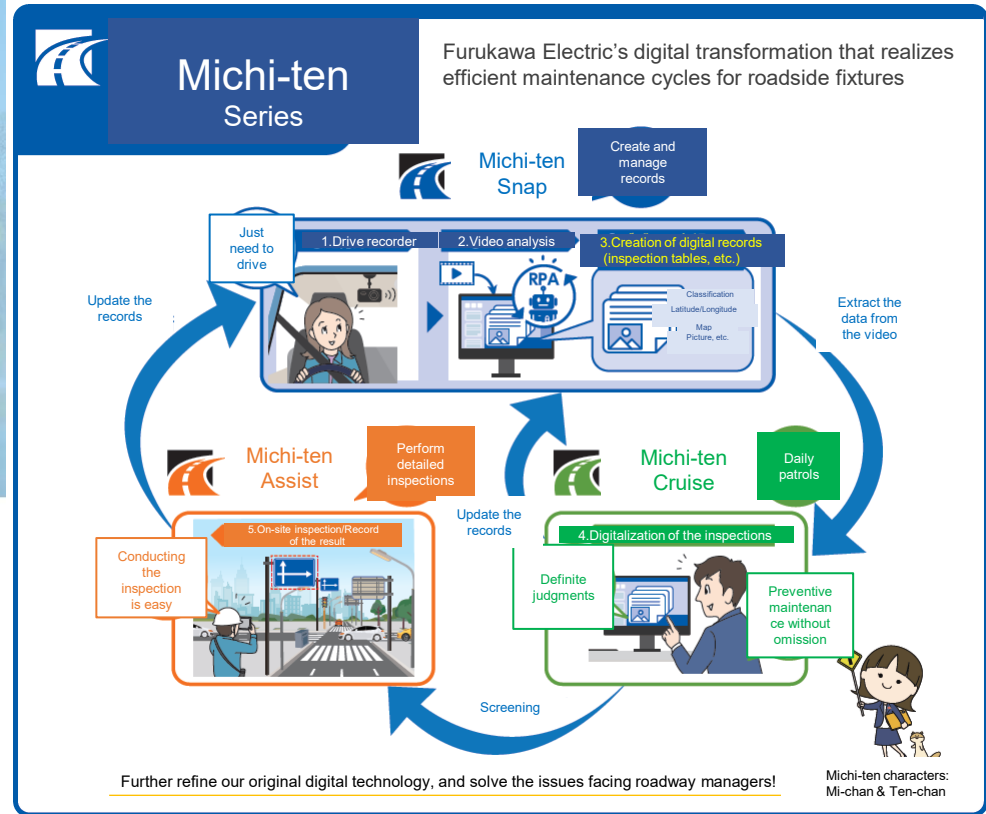
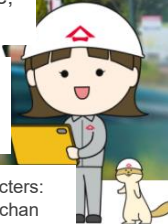
Maintenance and management solutions
for roadside fixtures
Michi-ten Series



Faster,
Less Expensive,
More Accurate

Use DX to realize a more efficient
maintenance cycle for roadside
fixtures!

Michi-ten characters:
Mi-chan & Ten-chan



Using our original AR and RPA technology, digitalize the tens of millions roadside fixtures nationwide

Example of a business: Social infrastructure DX (Launched in FY2021)

1

Attach a **drive recorder** to the vehicle and patrol the target road(s)



2

Analyze the video using **RPA**, and extract the basic data for each fixture



3

Prepare the **inspection tables** designated by the MLIT, and deliver the data and browser software



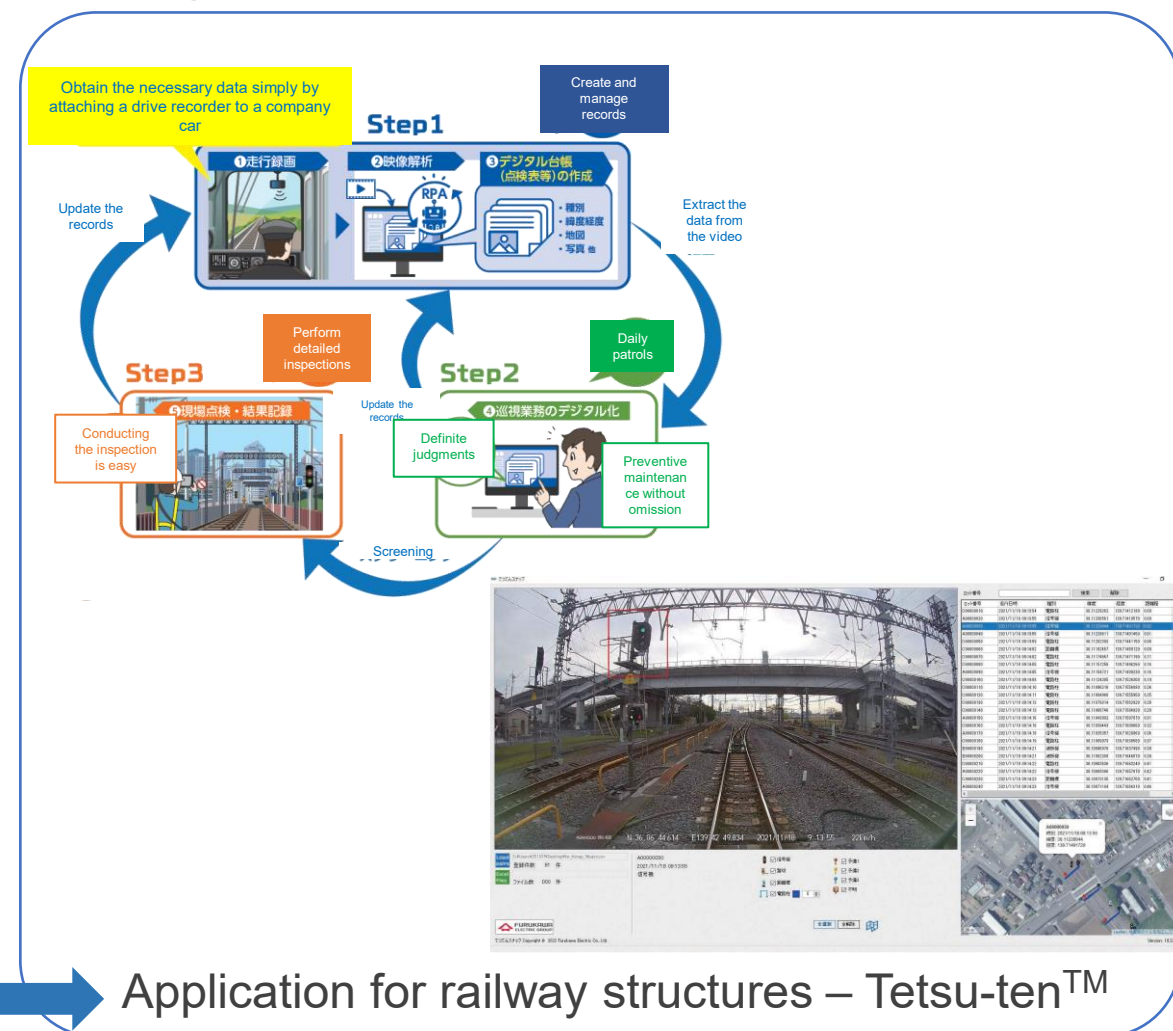
- Inspector simply needs to attach a drive recorder to a vehicle and drive around!
- Furukawa Electric prepares the records from the drive recorder video.
- Currently used in Nikko City and Utsunomiya City.
- Decreases workload by 90% compared to previous inspection methods.

Example of a business: Social infrastructure DX – Future outlook

We will leverage our digital and DX technology to contribute to the maintenance and management of various social infrastructure including roadside fixtures

Platform using our accumulated digital and DX technology

- Roadside fixtures
- Railroads
- Bridges & tunnels
- Rivers
- Tele-communications
- Electric power
- Signs
- Trees
- ...

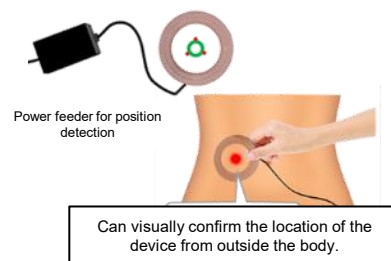


● Three applications

① Find using light

Wireless power transmission technology

Wirelessly supply power from outside the body, and cause the LED lights on the internal device to light up



【Example of actual use】

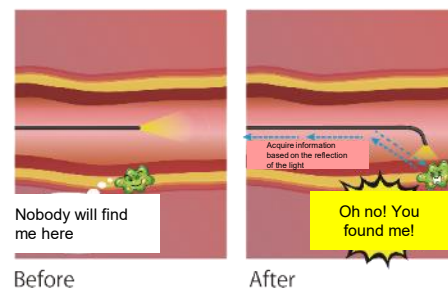
Visual confirmation of an internal medical device from outside the body

Currently studying commercialization with a medical device manufacturer

② Measure using light

Optical coherence tomography (OCT)

Make measurements inside the body using a laser



【Example of actual use】

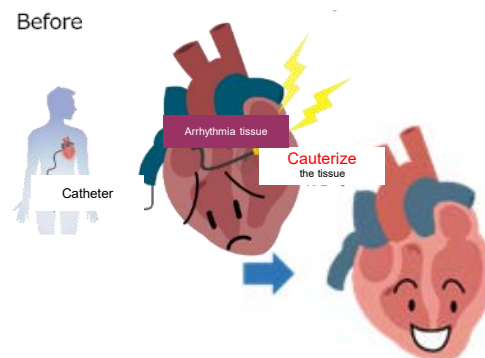
Non-invasive measurement system

Concluded a joint development agreement with Atonarp Inc.

③ Cauterize using light

Laser ablation* treatment

Cauterize, excise and treat using a laser



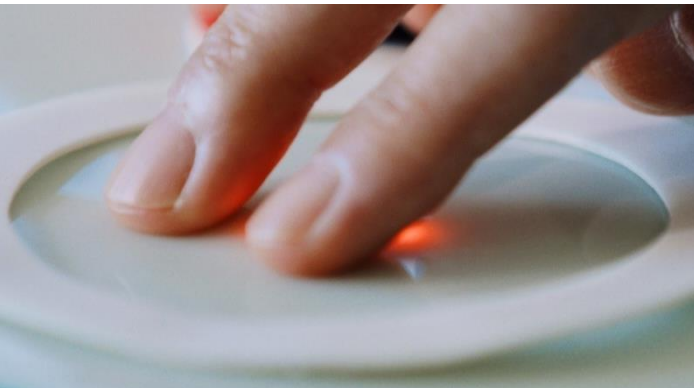
【Example of actual use】

Ablation treatment unit and probe

Currently studying commercialization with a medical device manufacturer

* Ablation treatment: Treatment method in which tissue is broken down by repeatedly evaporating the surface layer (cauterizing)

Example of a business: Life sciences TELLUMINO®

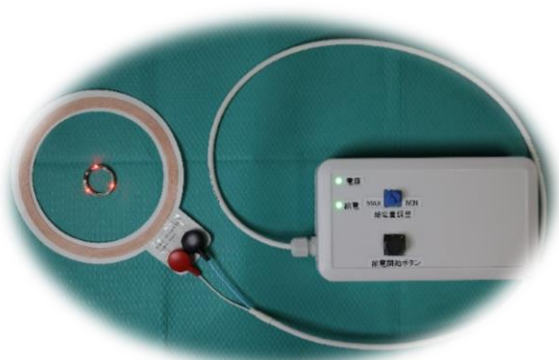


Plan to launch in FY2023

Furukawa Electric's



New technology that enables visual confirmation of an internal medical device from outside the body



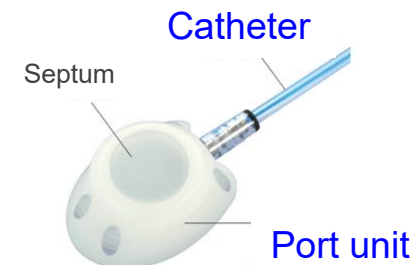
CV Port of a medical device manufacturer
Port that is implanted under the skin

Existing medical device



※ CV ports of various medical device manufacturers
(From each manufacturer's HP)

- Note: CV Port is
- Medical device implanted under the skin that releases anticancer drugs through a catheter
 - The port is implanted in the chest or under the skin on the upper arm

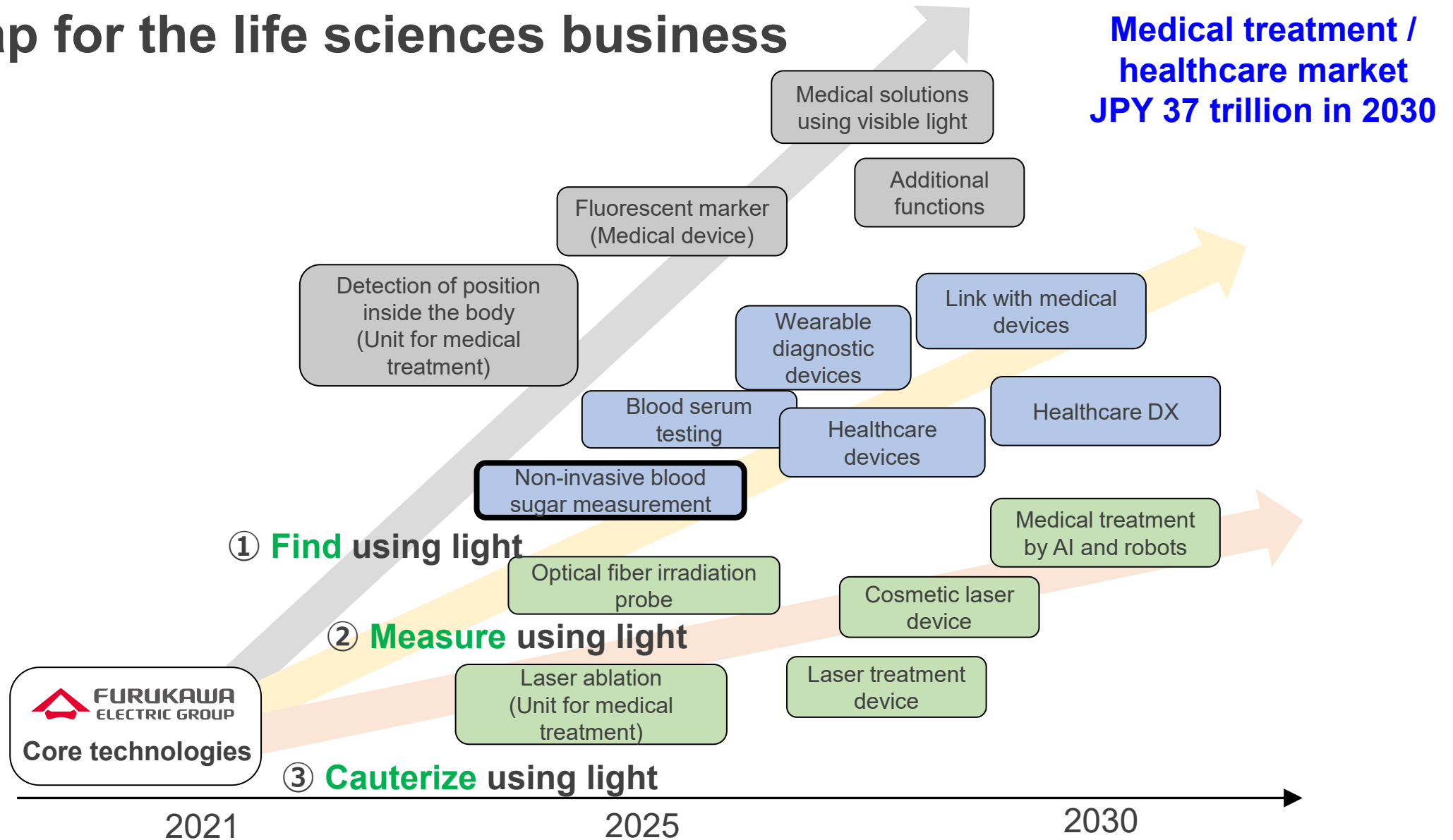


Can be used safely

CV Port that provides **peace of mind** to patients and medical practitioners **CV port that "lights up"**

Example of a business: Life sciences future outlook

Roadmap for the life sciences business

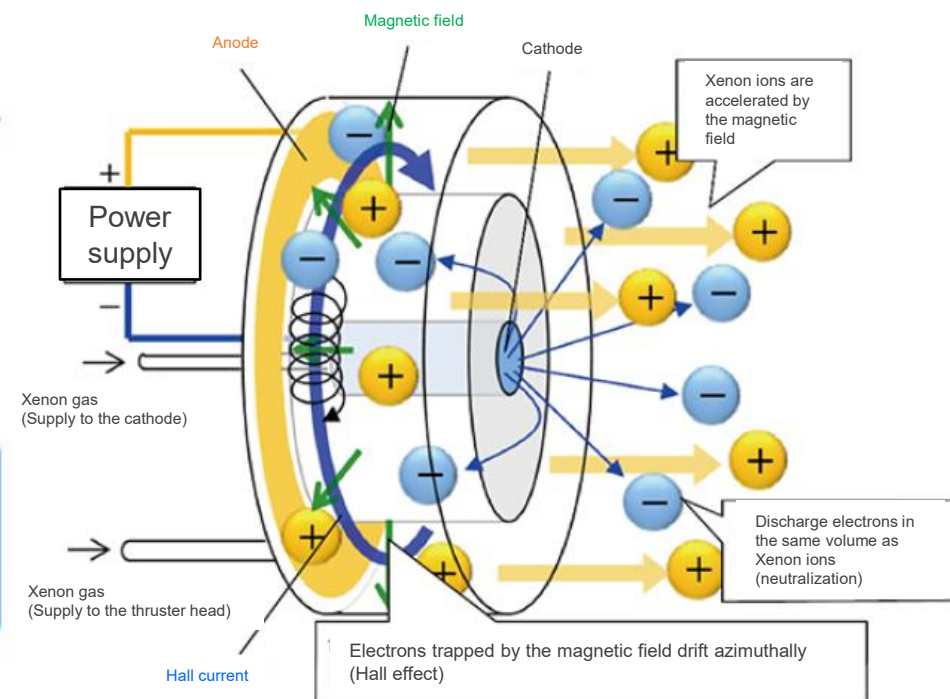
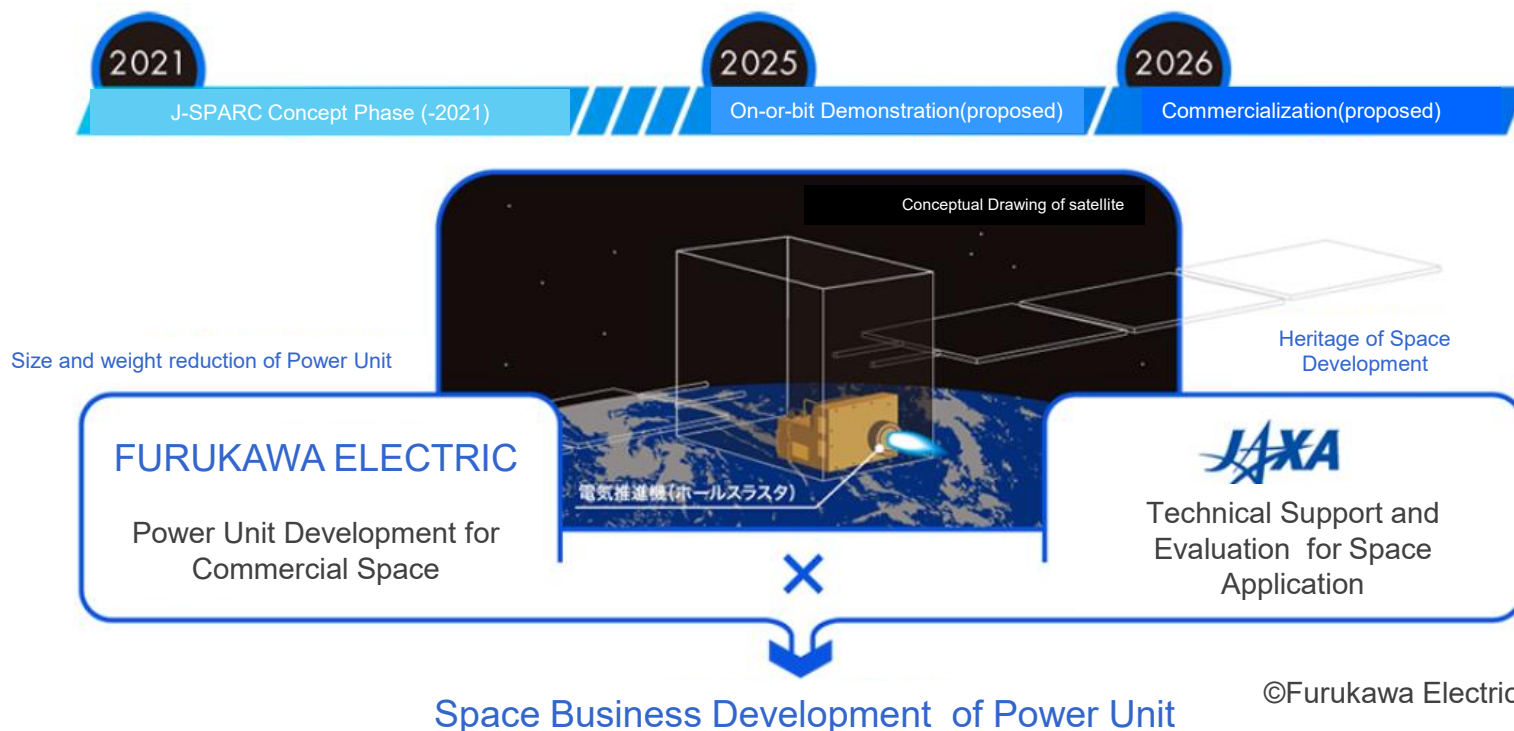


Example of a business: Space

Using our heat design, magnet wire design and power device technology, develop a smaller, lighter weight, lower cost power supply, and aim for commercialization in FY2026

Furukawa Electric and JAXA have commenced joint development of power supplies for satellites

- Aiming to create a power supply business for space applications through next-generation electric propulsion that is lighter weight and lower cost -



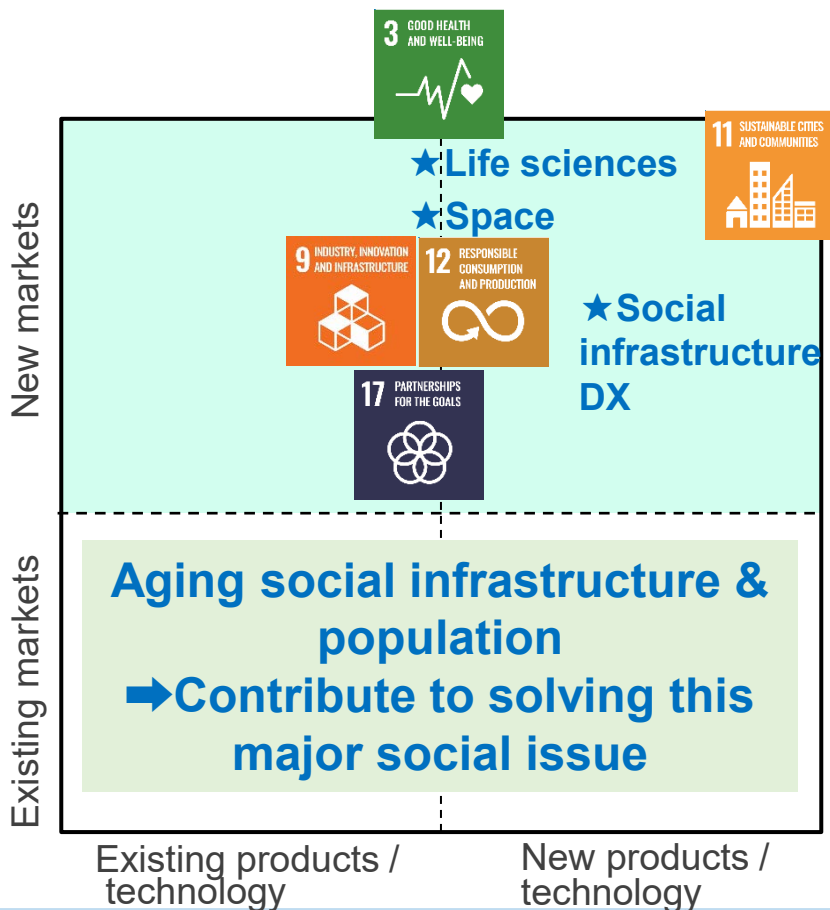
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Create and foster businesses with high capital efficiency that are designed to solve social issues

Use an Ansoff growth matrix to define new businesses and identify new business domains



Social Infrastructure DX

Create a database of various data including position data and imaging

Commercialized in FY2021 for national & local governments, construction consultants and highway corporations

Year	Growth rate
2020	0
2021	~10
2022	~40
2023	~70
2024	~140
2025	~280

Life sciences

Photonics technology + proposal capability that anticipates medical practitioners' jobs

Optical waveguide Optical fiber Semiconductor laser

TELLUMiNG
体内医療機器位置検知ソリューション

Currently conducting trials with a medical device manufacturer toward planned commercialization in FY2023

ATONARP 古河電工

Commercialize a measurement platform by 2025

Accelerate growth of new businesses

Strategic investment Agile implementation

- Leveraging the core technology, aim to create new businesses designed to solve social issues.
- Already launched several products.
- Directed at 2030, evolve into a business with high capital efficiency.

Thank you very much for your attention.

