

# Brief Summary of Intellectual Property Activities

FUJITSU LIMITED  
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  - Co-creating Digital Business
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# Transformation of Fujitsu Business & related Industry environment

## A digital society

- Instead of standardized service and products, personalized value is delivered to each individual in a digital society.
- IT, especially software, help people to create knowledge.

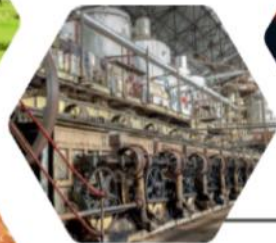


## A digital society

- Hunter-gatherer societies transitioned to agricultural societies
- Experienced a dramatic shift from industrial societies to post-industrial information societies.



Agricultural



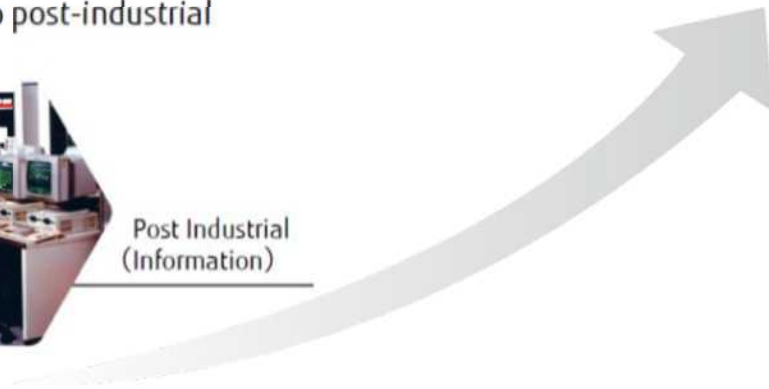
Industrial



Post Industrial  
(Information)



Hunter-gatherer



## Case: Unleashing the creativity of people

Design  
Thinking  
Workshops  
Digital  
Transformation  
Center



Co-creation in  
Silicon Valley  
Open  
Innovation  
Gateway

Maker Space  
TechShop  
Tokyo



Co-creation  
with Start-ups  
MetaArc  
Venture  
Program

Co-creating  
Digital Business



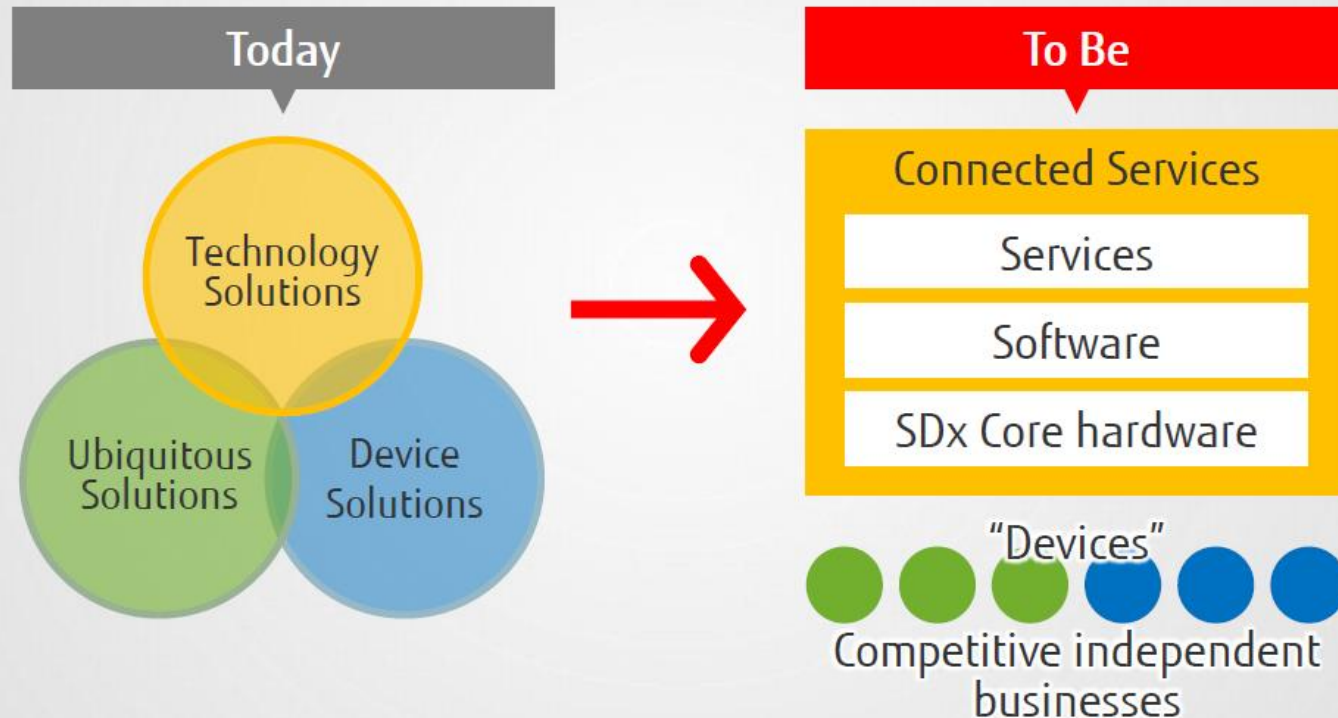


## Digital Co-creation

- Blending business expertise and digital technology
- Creating new value together with eco system partners and customers to shape a different future

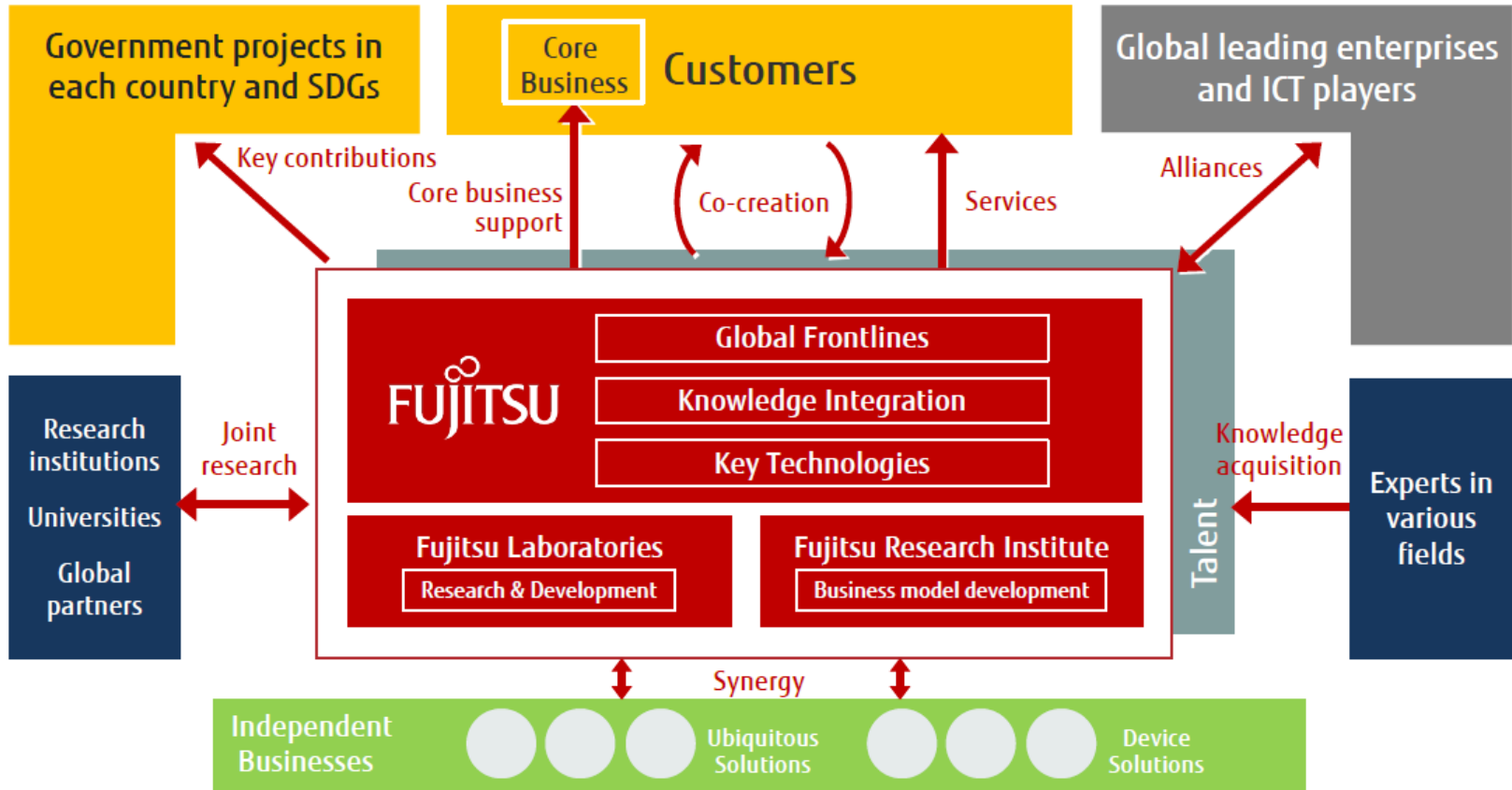


## Focus on Technology Solutions



# “Connected Services”

## Ecosystem for “Connected Services”



Source: Presentation Material for Management Direction FY2017 Progress Review June, 2017



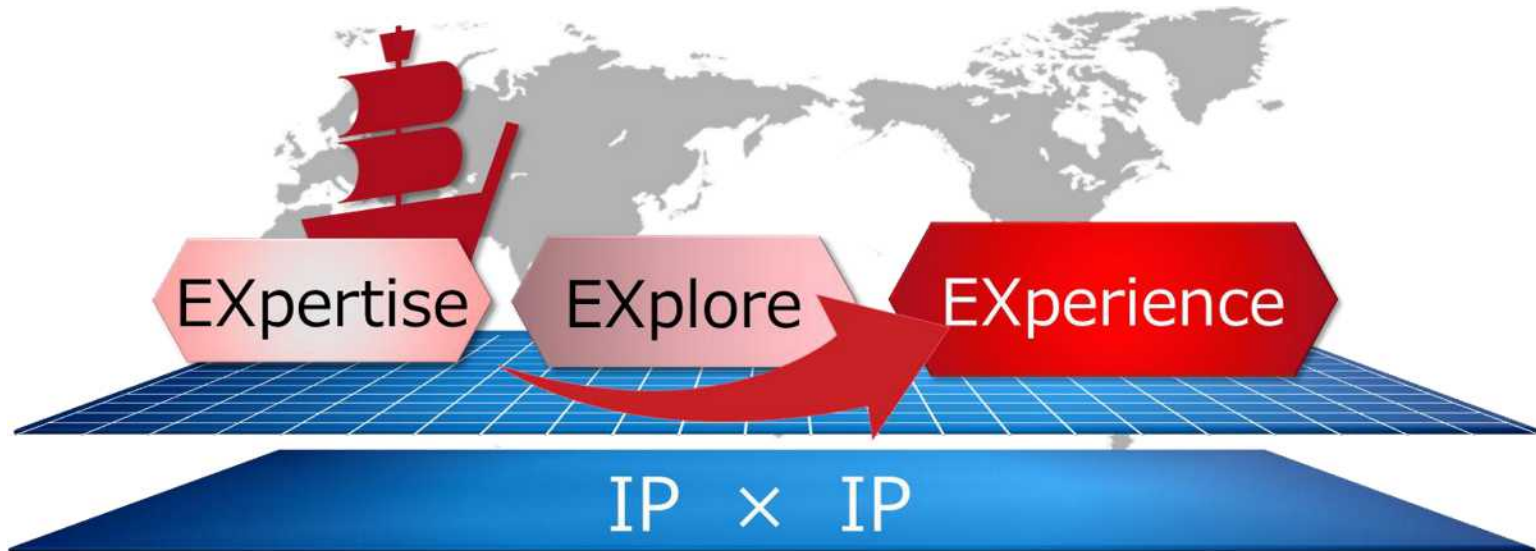
# Fujitsu IP Strategy & IP Activities

- IP Strategy for supporting Digital Co-creation

**"EX<sup>3</sup> × IP<sup>2</sup>"**

# Fujitsu IP Strategy "EX<sup>3</sup>×IP<sup>2</sup>"

- Handling Intellectual Property as an Innovation Pilot, Strengthen Fujitsu technologies by IP EXpertise, EXplore in the digital ocean for connecting technologies and business, Co-create new value with customer and provide User-EXperience



Intellectual Property × Innovation Pilot

Handling Intellectual Property as an Innovation Pilot

Based on EXpertises

EXploring in the Digital Ocean

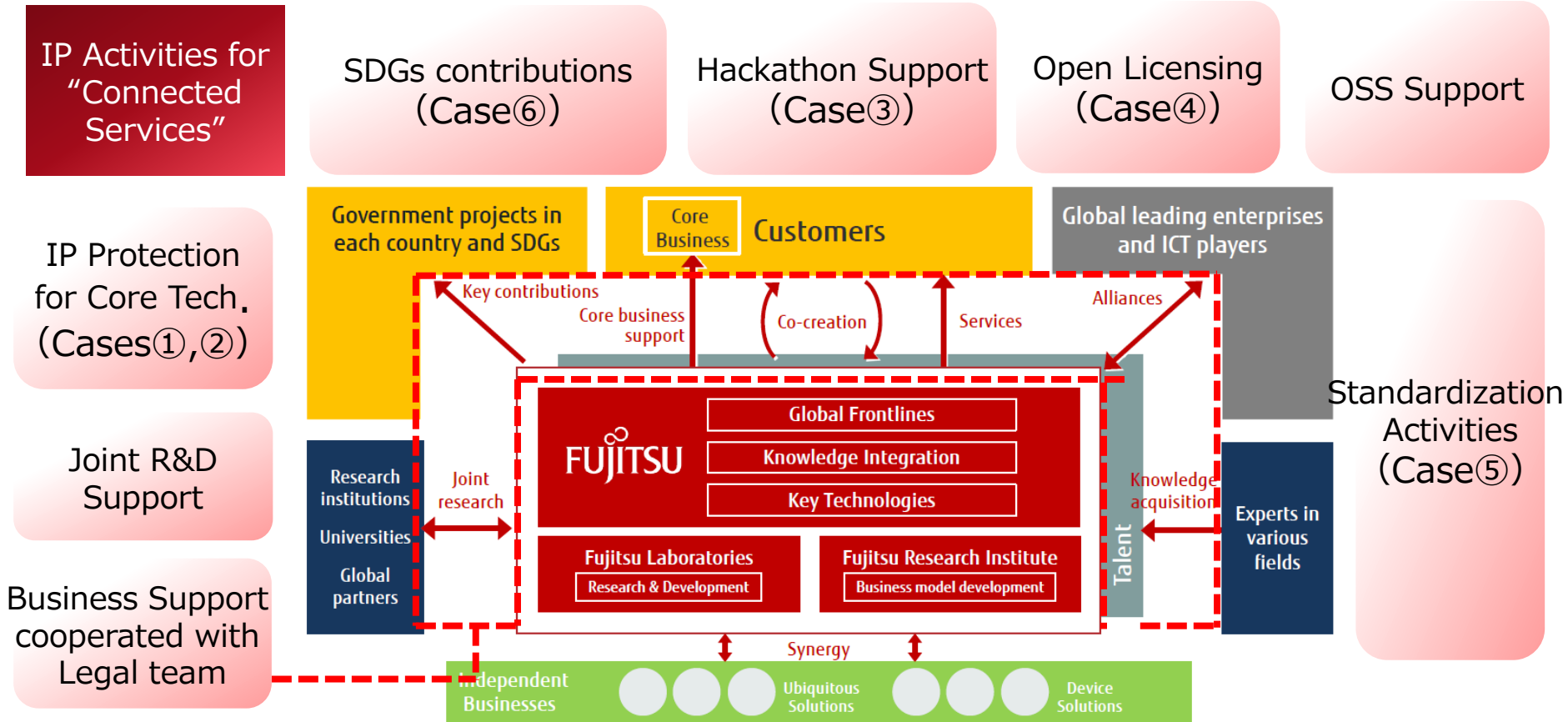
for Providing User-EXperience

Intellectual Property team coined the phrase "Innovation Pilot" (new IP definition) to denote:

Internal-External Networking and Connecting together Fujitsu intelligent units, such as R&D Units and Business Units

# Summary of Fujitsu IP Strategy

## ■ IP Strategy for supporting Digital Co-creation; "EX<sup>3</sup>×IP<sup>2</sup>"



# Case①:TOMOE Corporation

## Increased efficiency of assembly inspection by using AR technology

※AR: Augmented Reality

### TOMOE Corporation

- Being engaged in a broad range of business areas, from general construction to specialized steel towers, bridges
- Relied primarily on **visual inspection** of its assemblies, but defective inspections resulted in significant rework



- Developed an assembly inspection system combining AR technology and existing 3D CAD data
- Achieved taking only 2 to 3 minutes for inspection, which is about 10% of the time required for visual inspection as well as elimination human errors.



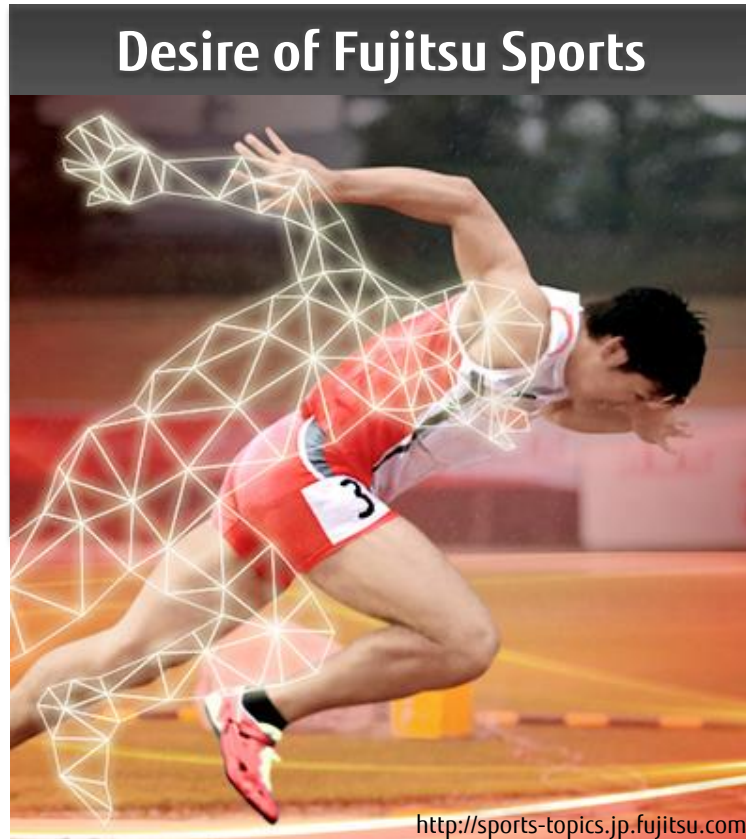
- In Co-Creation project with TOMOE Corporation, Fujitsu AR core technologies, **protected by IPR**, are combined to resolve inefficient inspection by the customer to create new value.

Source: FT&SV 2017

<http://www.fujitsu.com/global/about/resources/news/press-releases/2016/1227-01.html>

# Case②: Sports ICT

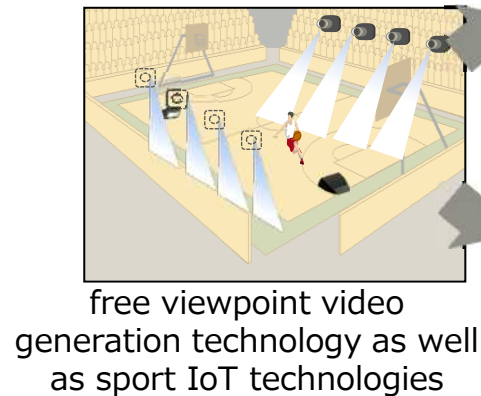
- For Sport ICT, design Fujitsu core technologies (3D sensing, 3D data processing, etc.) for sports science.
- Providing new User-Experience by the Co-creation, connecting customer's needs and knowledge with Fujitsu core technologies.



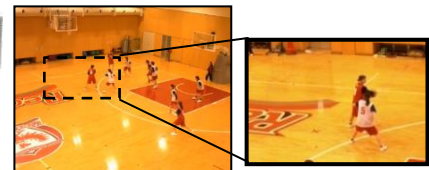
## ■ 3D Sensing



## ■ Smart Arena



Data-oriented scientific training



A new style for watching games with fascinating images



# Case③: IP Support for Hackathon

- In Fujitsu Hackathon\*, “Hackathon participation Agreement” provided by Fujitsu enables participants to generate or co-create new ideas at their ease.

\* Hackathon is an coined word (“Hack” plus “Marathon”), and means design sprint-like event in which several teams, including (internal and/or external) application service engineers, project managers, experts or students, collaborate intensively on given theme for a short term (typically, from one day to one week).

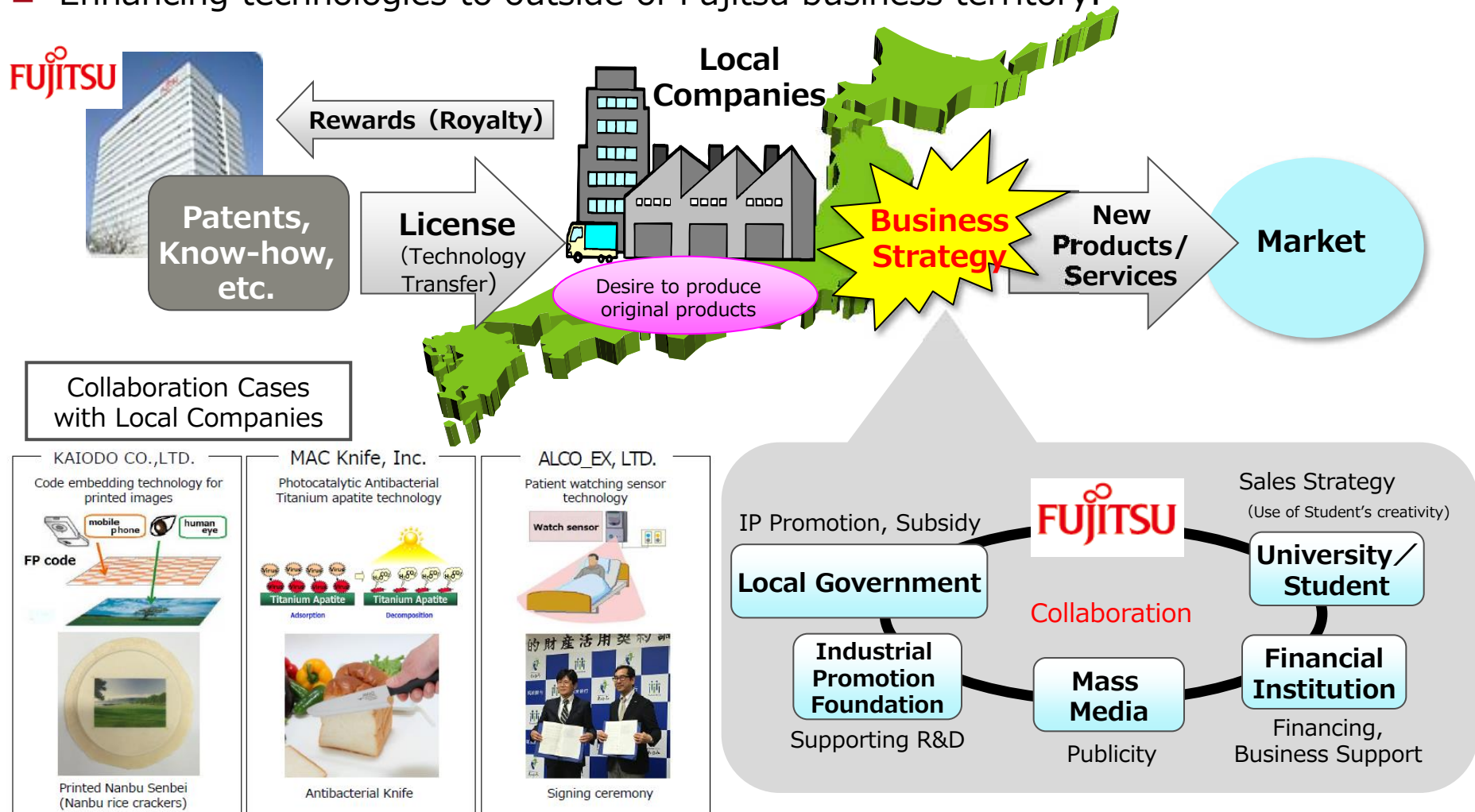
- Outcome of the Hackathon is full of unique and excellent ideas to attract customers. Securing the created IP in a timely manner, enables swift launch of the outcome to the agile business prototyping.





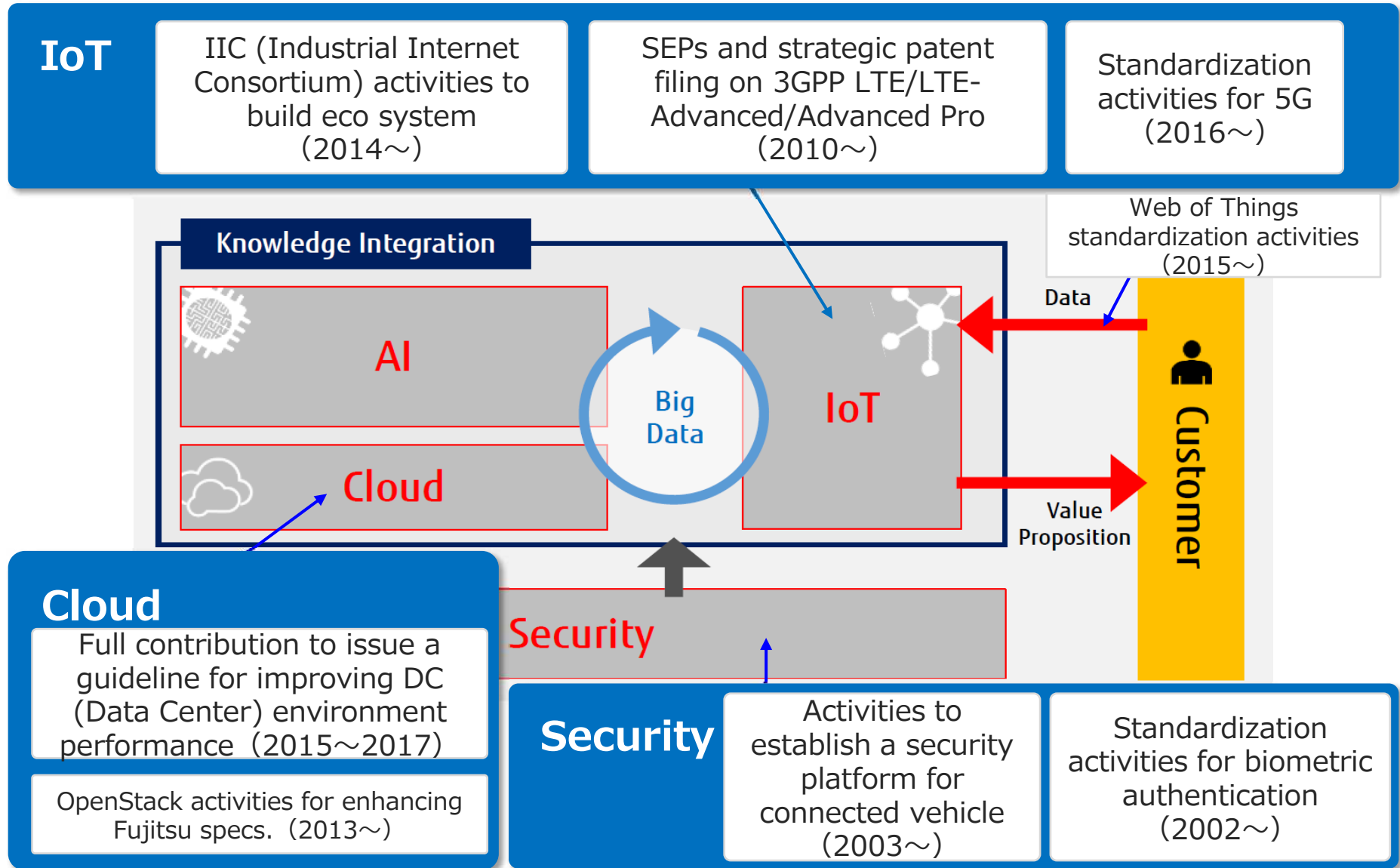
# Case④: Open Licensing

- Community contribution to create new business utilizing Fujitsu IP
- Collaborate with local governments or financial institutions. Promote to produce new products or services.
- Enhancing technologies to outside of Fujitsu business territory.



# Case⑤ : Standardization Activities

## ■ Standardization of **Key Technologies** for “Connected Services”



# Case⑥: Collaboration with International Framework for Co-Creation

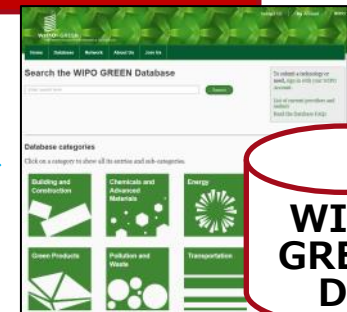
## ■ Partnership with WIPO GREEN in September, 2017




### Co-Creation with Global Companies toward SDGs goal



200 patents (HEMT AC adapter, etc.) registered to WIPO Green



WIPO GREEN provides world wide DB for entry of technologies and needs, and holds matching events supported by government institutions.



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