



OpenSSF Community Day  
JAPAN

# Japan Open Source Hub

2025-06-18

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**IPA** Better Life  
with IT

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# Introduction

Today, I'd like to introduce IPA's open source promotion activities.

Just yesterday, we released a web page titled "**Japan Open Source Hub**".

I will talk about the meaning behind this name and how we are promoting open source with current issues.

1. Overview of the IPA and the Digital Infrastructure Center(DISC)
2. Our main themes:
  - \* Software-Defined Society
  - \* Building Block Approach Development
  - \* Issues of Legacy System Replacement
3. Value of OSS and issues in Japan
4. Role of IPA: “Japan Open Source Hub”

1. Overview of the IPA and the Digital Infrastructure Center(DISC)

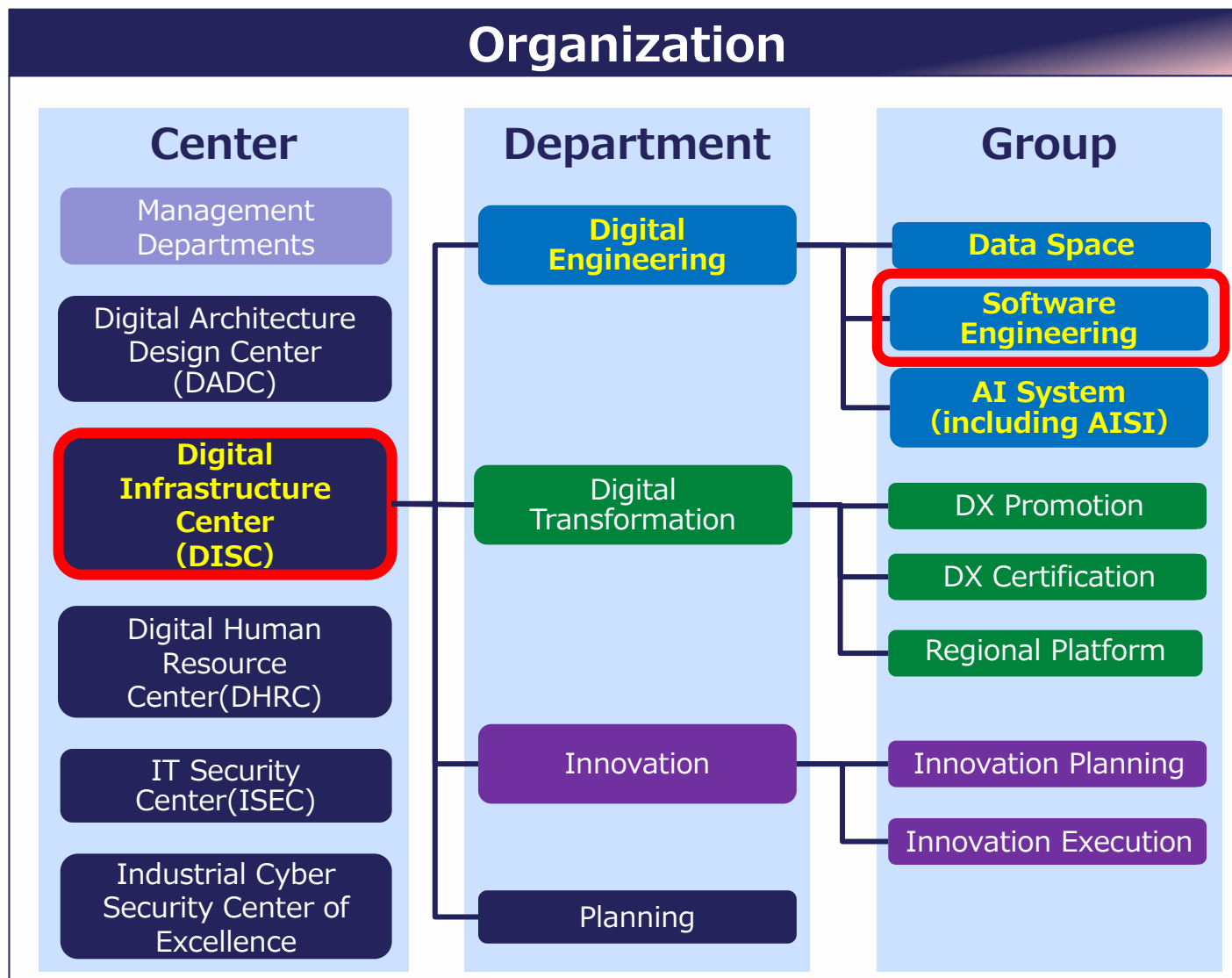
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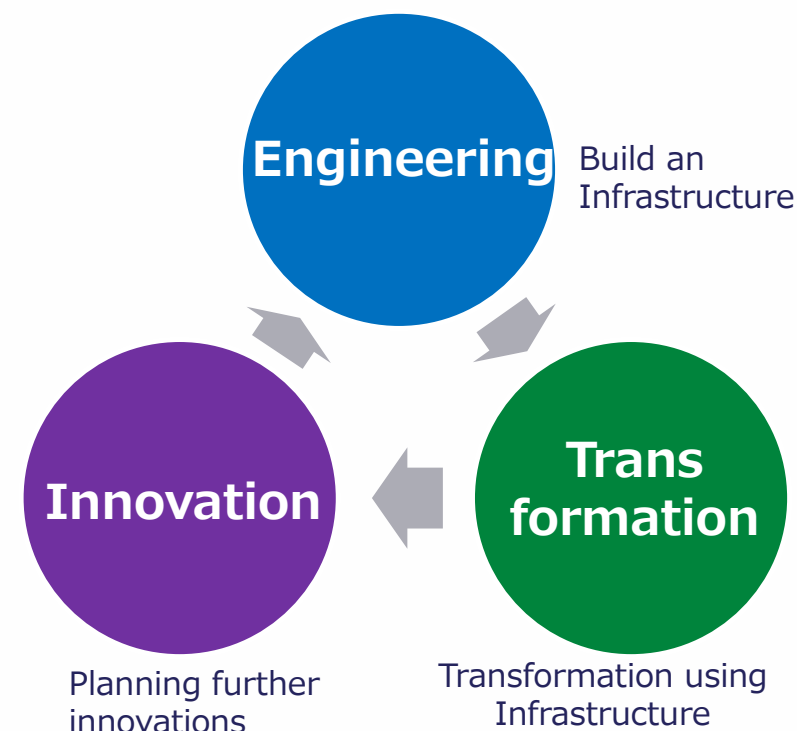
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# IPA and DISC Organizations



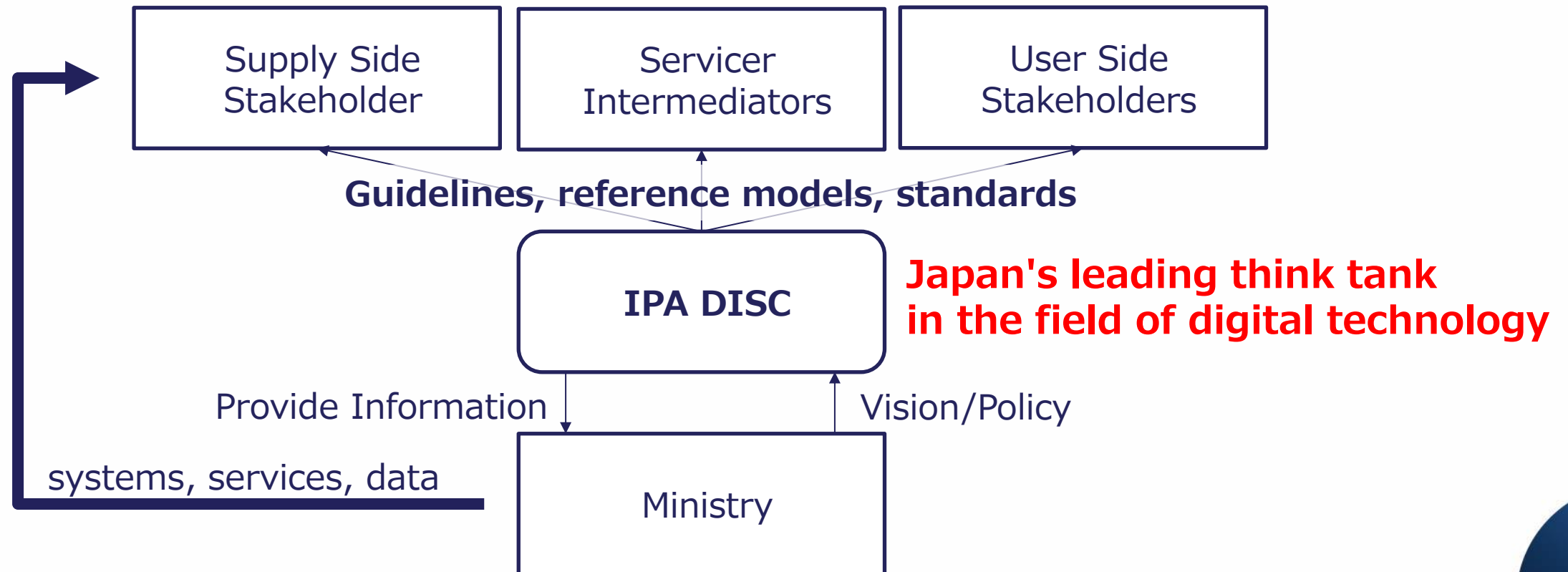
## Digital Infrastructure Center (DISC)

- Established in July 2023
- Organized with 3 factors of digital infrastructure



# Role of DISC

We are always stay several years ahead of the players and develop guidelines, reference models, standards, and other resources.



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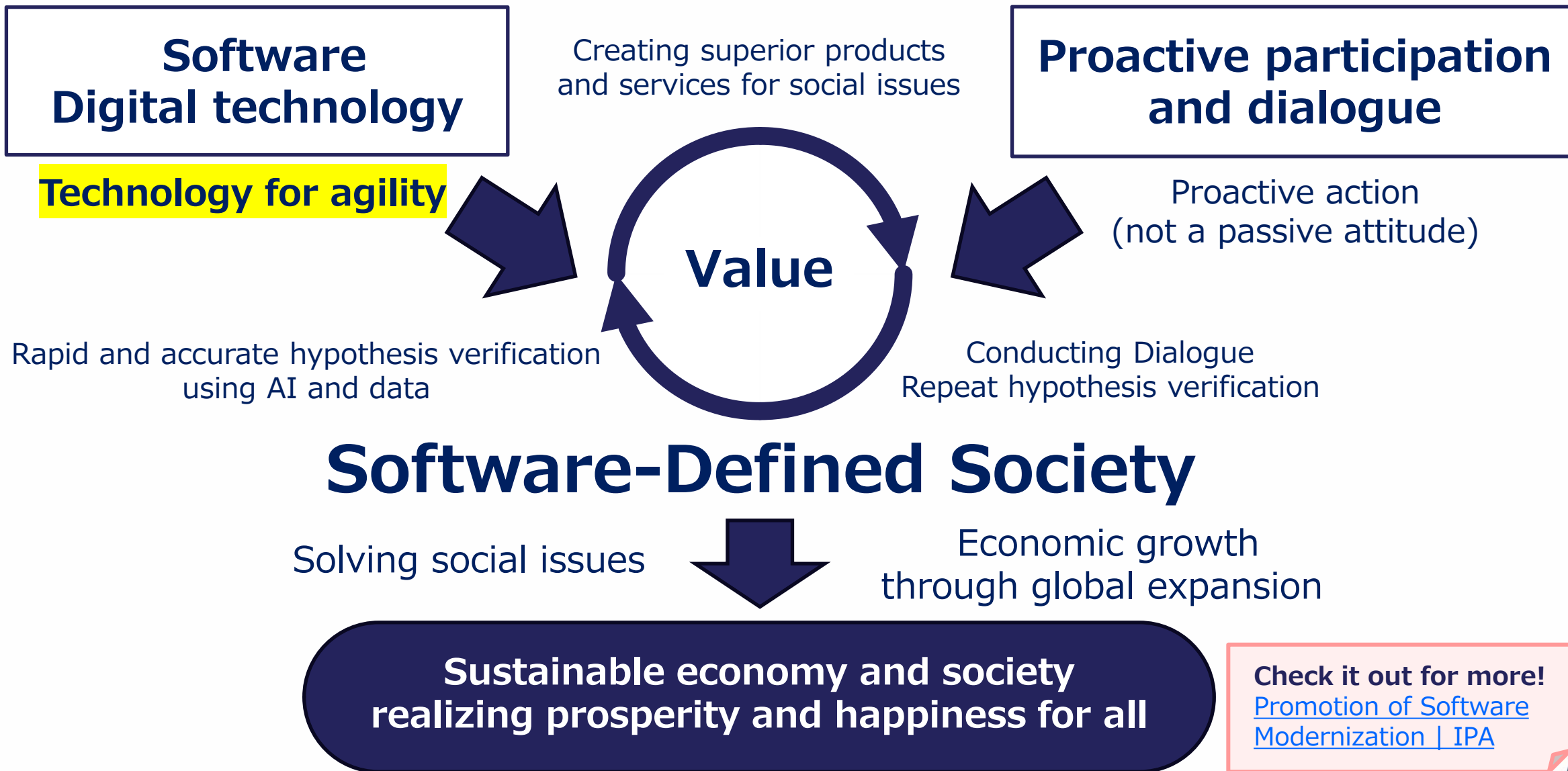
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- ♦ To respond flexibly and quickly to uncertain and changing needs, “**agility**” is essential.
- ♦ The key to this agility is the “**Software-Defined**” concept.
  - This is an approach that involves continuously updating the software that controls hardware.
  - Recently, this concept has been gaining attention in various fields.
    - e.g. Software-Defined Vehicle
- ♦ The concept of “**Software-Defined Society**” is an extension of this concept to society as a whole.

# Our vision of “Software-Defined Society”



- And many building blocks are developed and shared as open source software.**





# Supply chain risks posed by legacy systems

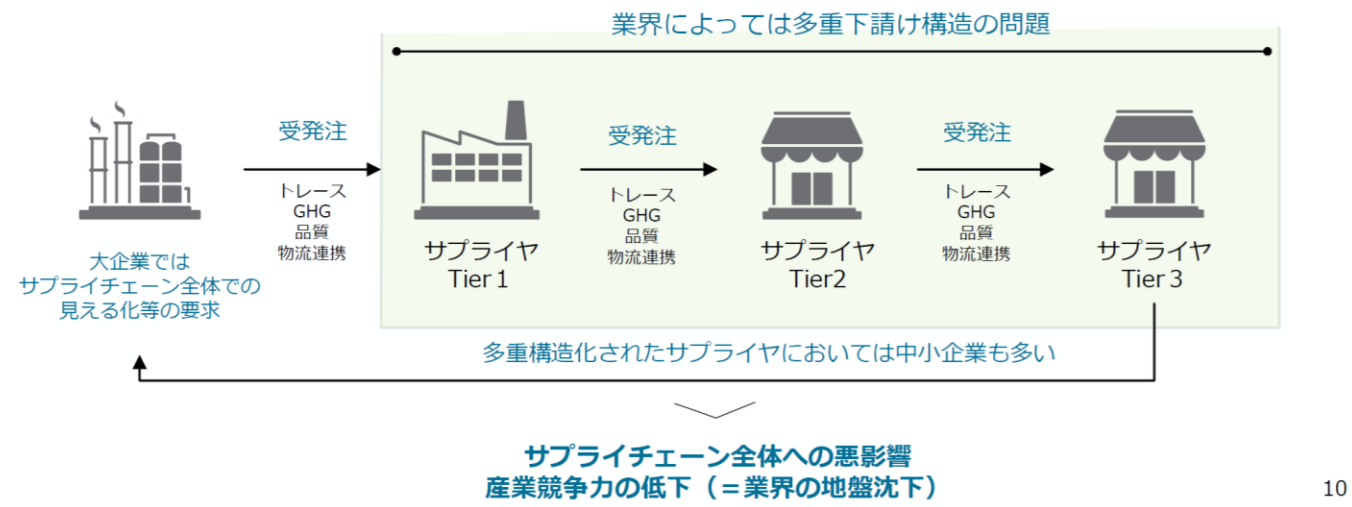
## Problems if existing legacy systems cannot be replaced

- ◆ Expanding impact on corporate economic activities
- ◆ Difficulty in integrating with the latest technologies (such as generative AI)
- ◆ Incompatibility with modern tools and services
- ◆ Insufficient adaptability to change

Report released by METI on May 28, 2025.

### DXやレガシーシステムのサプライチェーンへの影響

- 中小企業は、投資体力の他、経営としてのITリテラシーや人材リソースの問題が顕著。
- 大企業は、中小顧客やサプライヤ、および顧客企業自体のDXやレガシーシステム脱却の遅れに足を引っ張られ、自社のみならず、ゆくゆくはDXの先行企業、ひいてはサプライチェーン全体にビジネス上の悪影響が及ぶ可能性がある。



10

Source:

Ministry of Economy, Trade and Industry. Where we are now in DX and how to break out of legacy systems

Legacy System Modernization Committee Summary Report.

<https://www.ipa.go.jp/disc/committee/begoj90000002xuk-att/legacy-system-modernization-committee-20250528-report.pdf>(referenced 2025-06-11)

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# Value of Open Source Software (OSS)

- ♦ Rapid adoption of standard technologies
- ♦ Avoidance of vendor lock-in
- ♦ Global collaboration
- ♦ Corporate technology branding
- ♦ Recruitment of talented personnel

**All of these are reasonable from the perspectives of economy, sustainability, and strategy.**

## **2024 Software Development Trends Survey**

We conducted a large-scale survey on software development trends in Japan.

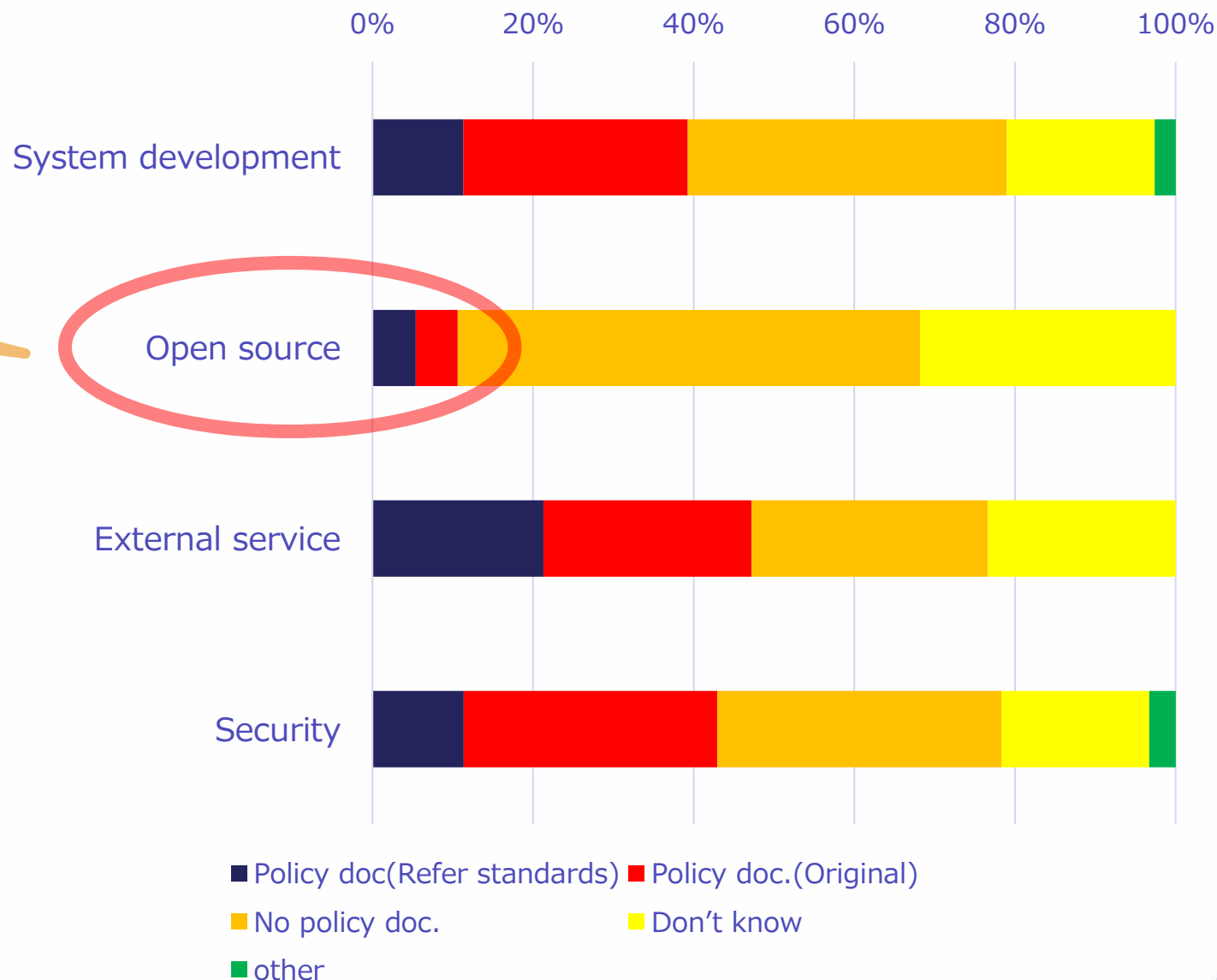
We received responses from about 800 companies in various industries.

## **Issues identified from questions about OSS**

- ♦ Failure to break out of the "just using" of OSS
- ♦ Lack of policies and governance systems for OSS
- ♦ Lack of progress in developing a Building Block Approach
- ♦ Lack of education and human resource systems

# Existence of policies, rules, and guidelines

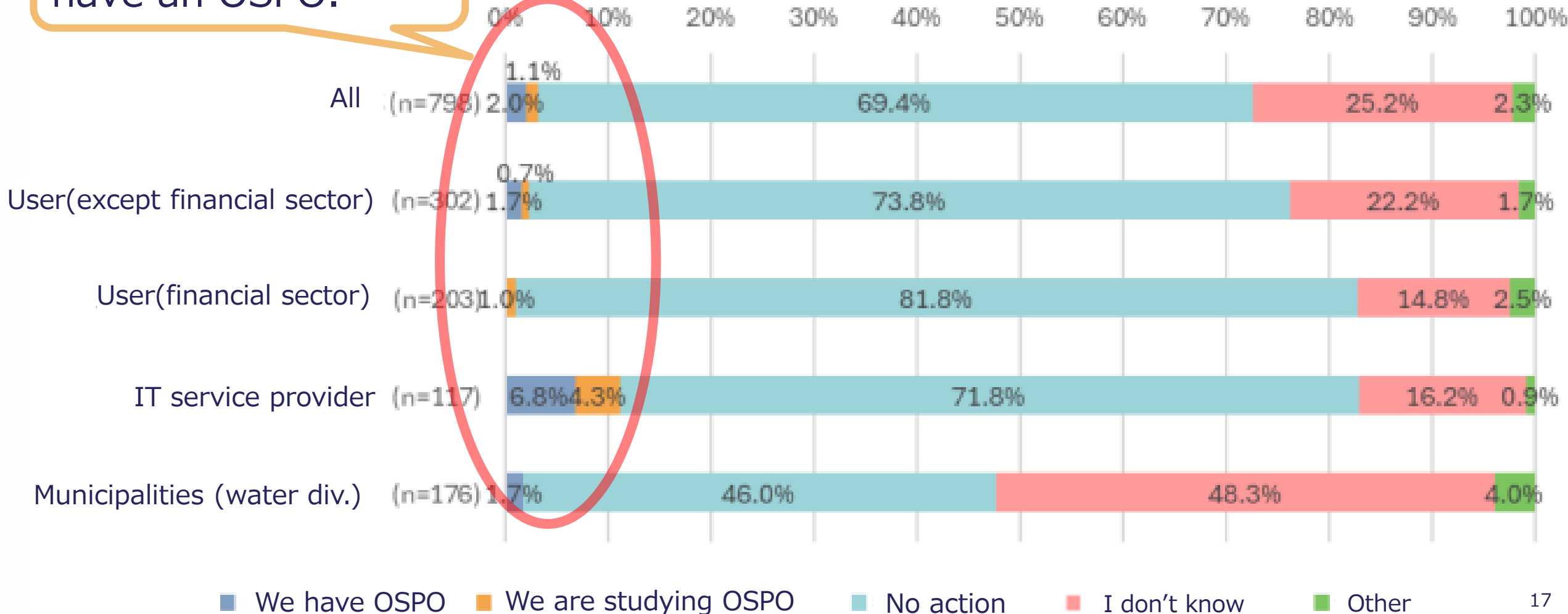
Few companies have policies for OSS usage.



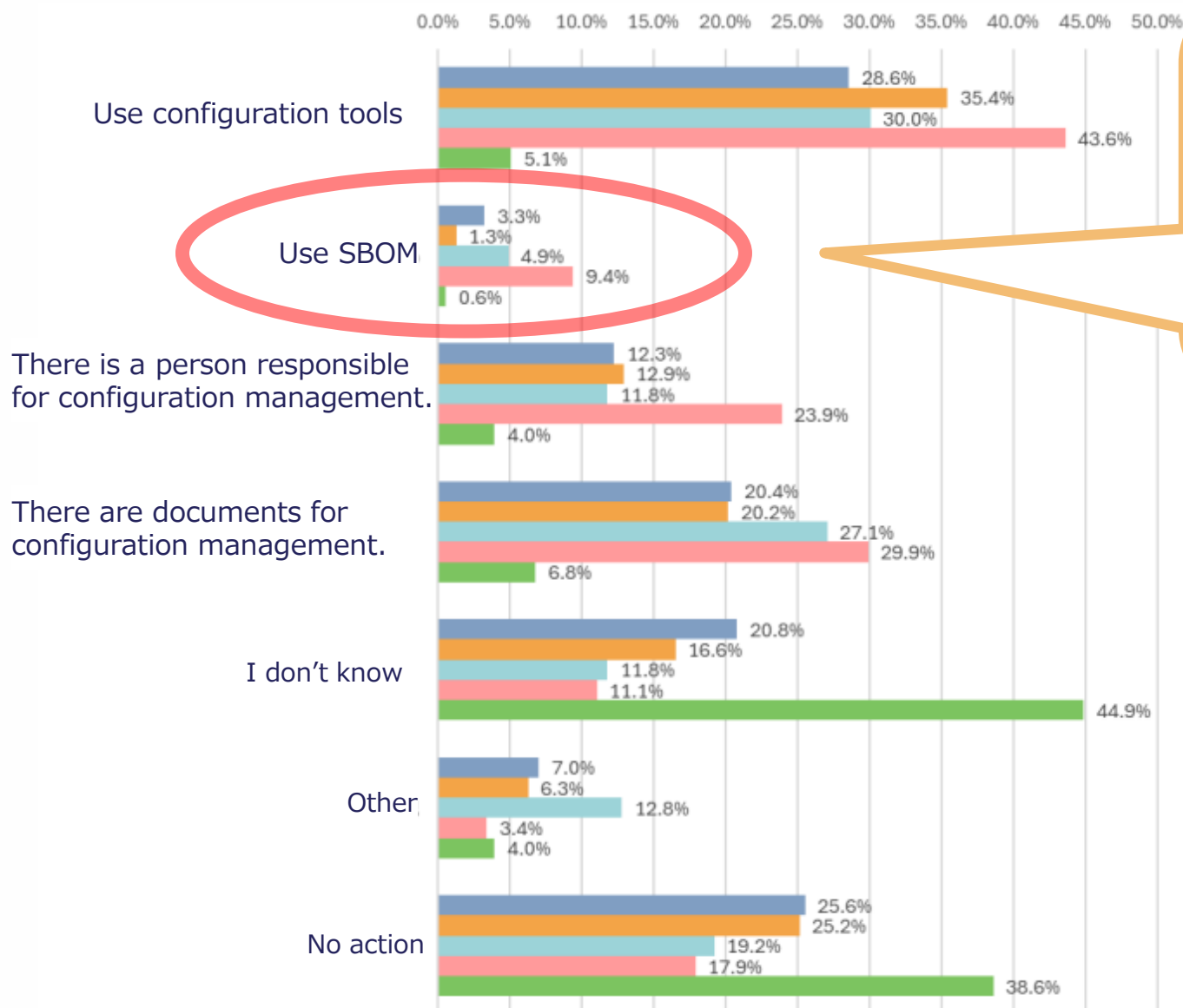


# OSPO(Open Source Program Office)

Very few companies have an OSPO.



# Configuration management



About 30% of companies use configuration management tools.

However, very few companies use SBOM.

- All (n=798)
- User (financial sector) (n=203)
- 自治体 Municipalities (water div.) (n=176)
- ユーザー企業 User (except financial sector) (n=302)
- IT service provider (n=117)

# Participation to the OSS community

Very few companies are committed to the OSS community.




# Psychological and cultural bias

“Low security” 

“Quality cannot be guaranteed”

“Responsibility is unclear” 

“OSS is free and not profitable”

“I don't get paid for my involvement” 

“Too much English, too difficult to understand” 

“I don't know where to start” 

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# Role of IPA: Supporter for participating in OSS

**We play a central role in promoting utilization of OSS and encouraging participation to the OSS community in Japanese society.**

1. Establish an environment that enables continuous use and improvement of OSS as a digital public goods
2. Expand the "power to participate in OSS"
3. Connect the public and private sectors, and bridge the gap between the policy and practice

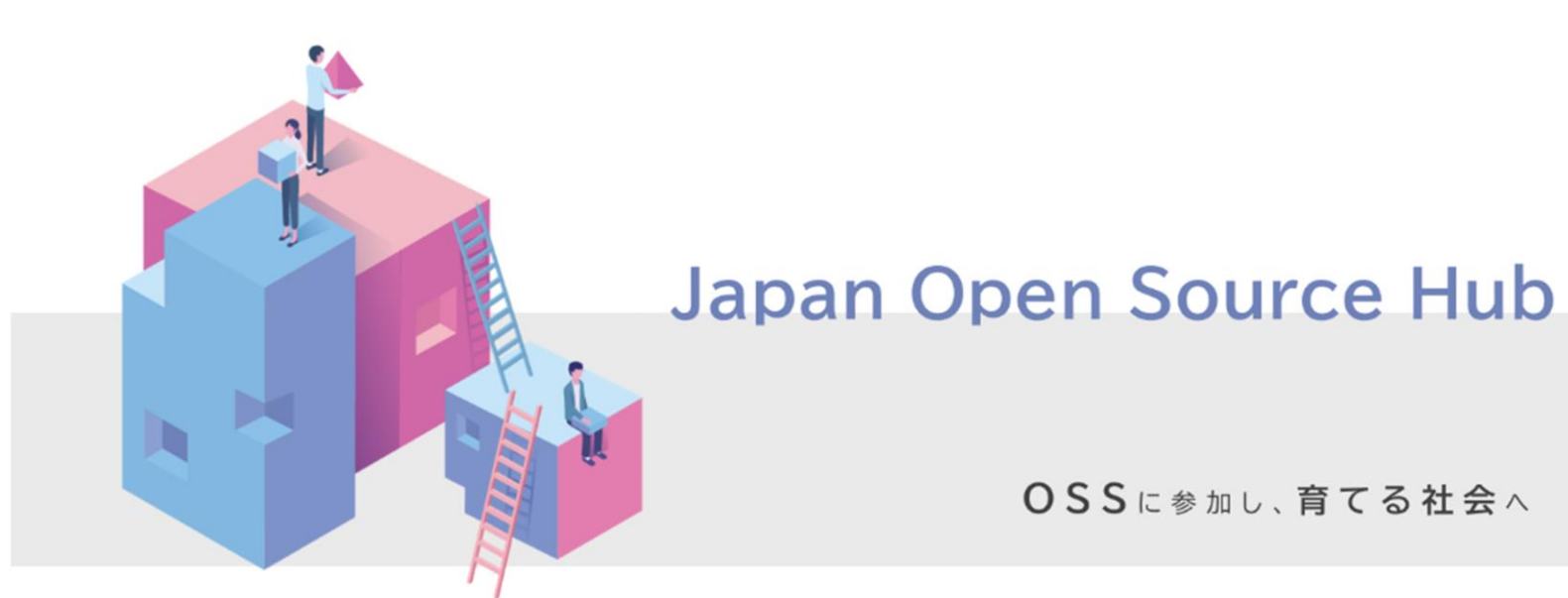
# Activities we focus on in 2025

- ◆ Promotion of Building Block Approach Development
- ◆ Provision of information to dispel misunderstandings about OSS
- ◆ Provision of guides serving as an “OSS initiative starter kit” for organizations whose OSS initiatives are not yet mature
- ◆ Development of human resources and educational systems related to OSS literacy and practical skills
- ◆ Conduct field research with the aim of revitalizing Japan's OSS ecosystem over the medium to long term



# Japan Open Source Hub

Japan Open Source Hub is a gateway of opening value,  
connecting, growing the OSS.



Japan Open Source Hubは、オープンソースの価値をひらき、つながり、育てるための入り口です。  
OSSに触れるのが初めての方も、導入を進める方も、ここから次の一歩を見つけてください。

🔍 Search for  
"IPA OSS"!



IPA

Welcome your  
cooperation and  
contributions!