

Please visit our website,

**Jaca.jp**

Activity started from  
Dec 2019 (3+ yrs)

**Legally  
established in  
Dec 2022**

**c.60 organization  
members**

(Over 50 are  
corporates)



**JACA**  
Japan Association  
for Cellular Agriculture

**Confidential,  
For the Cellular Agriculture Europe-hosted webinar on 24  
August 2023 only**



## About Japan Association for Cellular Agriculture (JACA)

JACA aims to contribute to key issues in Japan, such as food security and sustainability, by collecting information, as well as establishing and executing strategies and measures on how Japan should face growing cellular agriculture. Not only we are active domestically, but also we are to contribute to the international discussion by sharing our progress in one of the key areas globally.

## Domestic

### Startups



IntegriCulture Inc.



Diverse Farm

### Packaging technology companies



Toyo Seikan Group  
Holdings, Ltd.

Toppan Inc.

### Food majors



HFGサポート株式会社

Eat Well, Live Well.



Ajinomoto Co., Inc.



Ichimasa Kamaboko  
Co., Ltd.

### Retailers



Seven & i Holdings  
Co., Ltd.



Nipponham  
たんばく質を、もっと自由に。

NH Foods Ltd.



Japan Tobacco Inc.



House Foods Group Inc.

### Trading Company



SANCT Corporation.

Sumitomo Corporation

SUMITOMO CORPORATION

Marubeni

Marubeni Corporation.



Maruha Nichiro  
Corporation



Meiji Holdings Co.,  
Ltd.



YOKOHAMA OILS &  
FATS INDUSTRY  
CO., LTD.



Mitsubishi Corporation.

ITOHAM YONEKYU  
HOLDINGS INC.

MEGMILK SNOW BRAND  
Co., Ltd.

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Lifescience companies

**AsahiKASEI**

Asahi Kasei  
Corporation.

**kuraray**

KURARAY CO., LTD.

**SCAS** Sumika Chemical  
Analysis Service

Sumika Chemical  
Analysis Service, Ltd.

日本触媒

NIPPON SHOKUBAI  
CO., LT

**Myoridge**

Myoridge Co., Ltd.

**TOYOBO**  
Beyond Horizons

TOYOBO CO., LTD.

**Nissan Chemical**  
CORPORATION

Nissan Chemical  
Corporation

**PeptiGrowth**

PeptiGrowth Inc.

Canon Inc.

FUJIFILM Corporation

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Bioreactor / manufacturing equipment

**ダイダン**

DAI-DAN Co., Ltd.

**ZACROS**

FUJIMORI KOGYO  
CO., LTD.

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Manufacturing systems

**YOKOGAWA**

Yokogawa Electric Corporation

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Logistics



MITSUI-SOKO HOLDINGS

MITSUI-SOKO  
HOLDINGS Co., Ltd

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Law firms

**NISHIMURA  
& ASAHI**

Nishimura & Asahi

**tmi**  
ASSOCIATES

TMI Associates

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Venture capitals

*Future Food Fund*

Future Food Fund Inc.

*Value create*

Value Create Inc.

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Creative



**GÉODE INC.**

GEODE Inc.

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Consulting Services

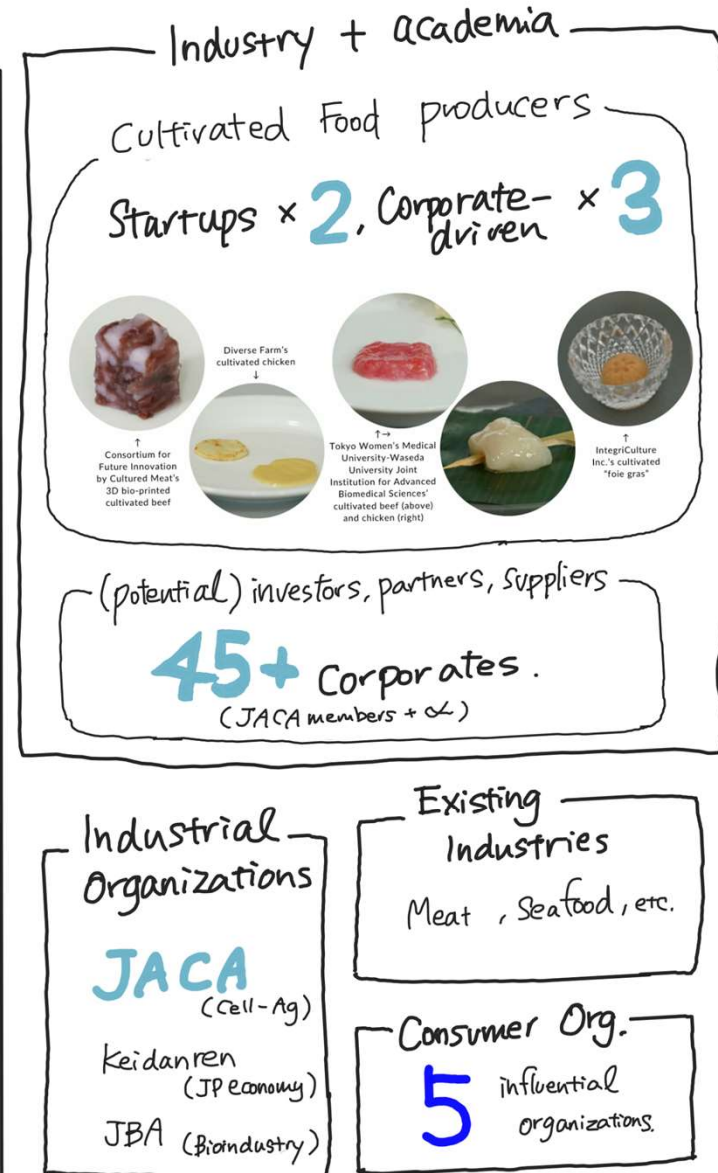
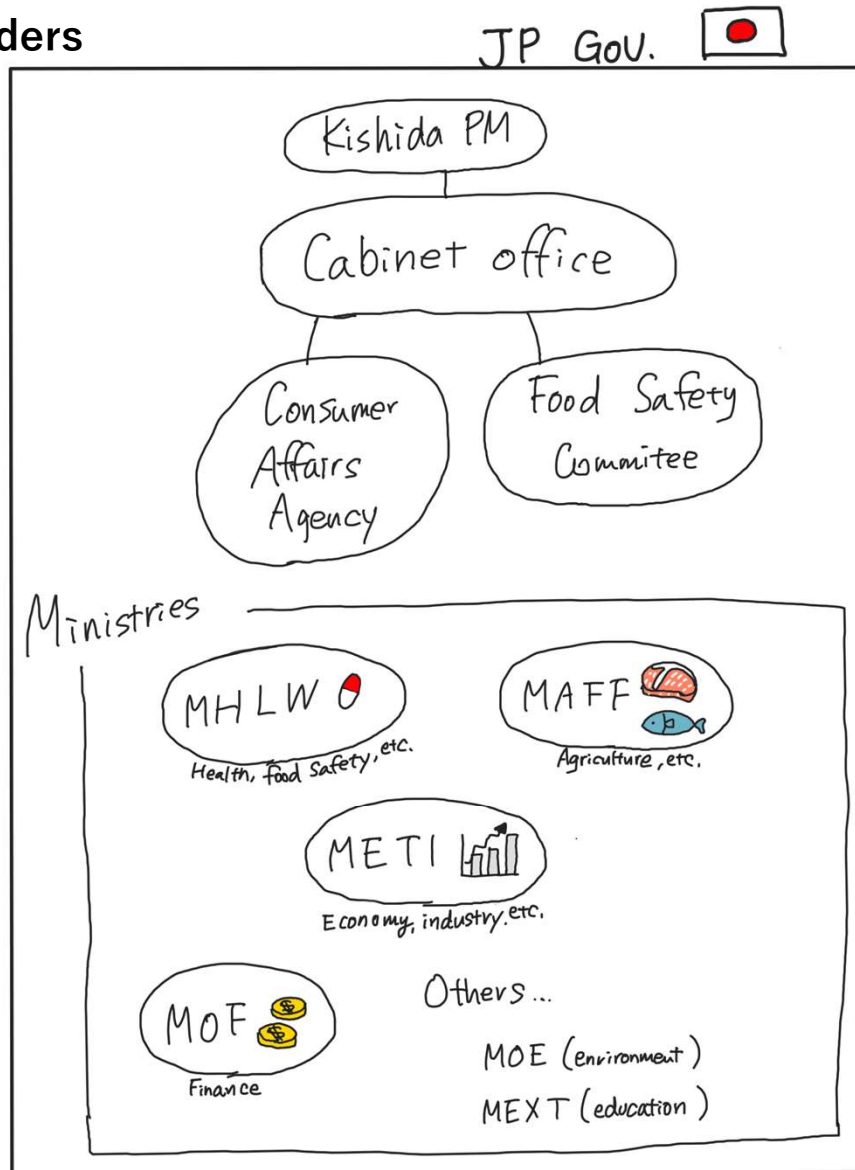
**SIGMAXYZ**

株式会社シグマクシス

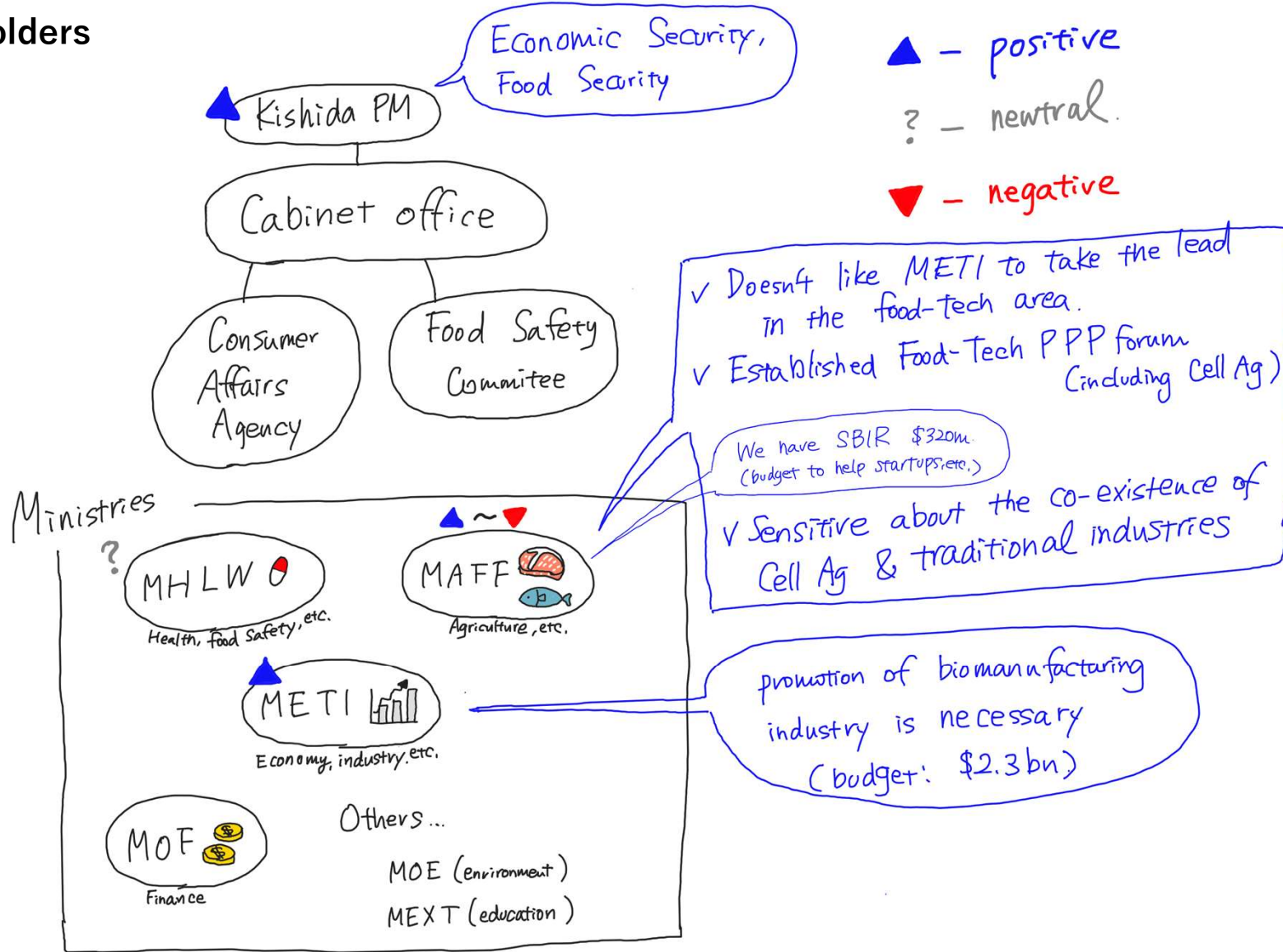




## Key stakeholders

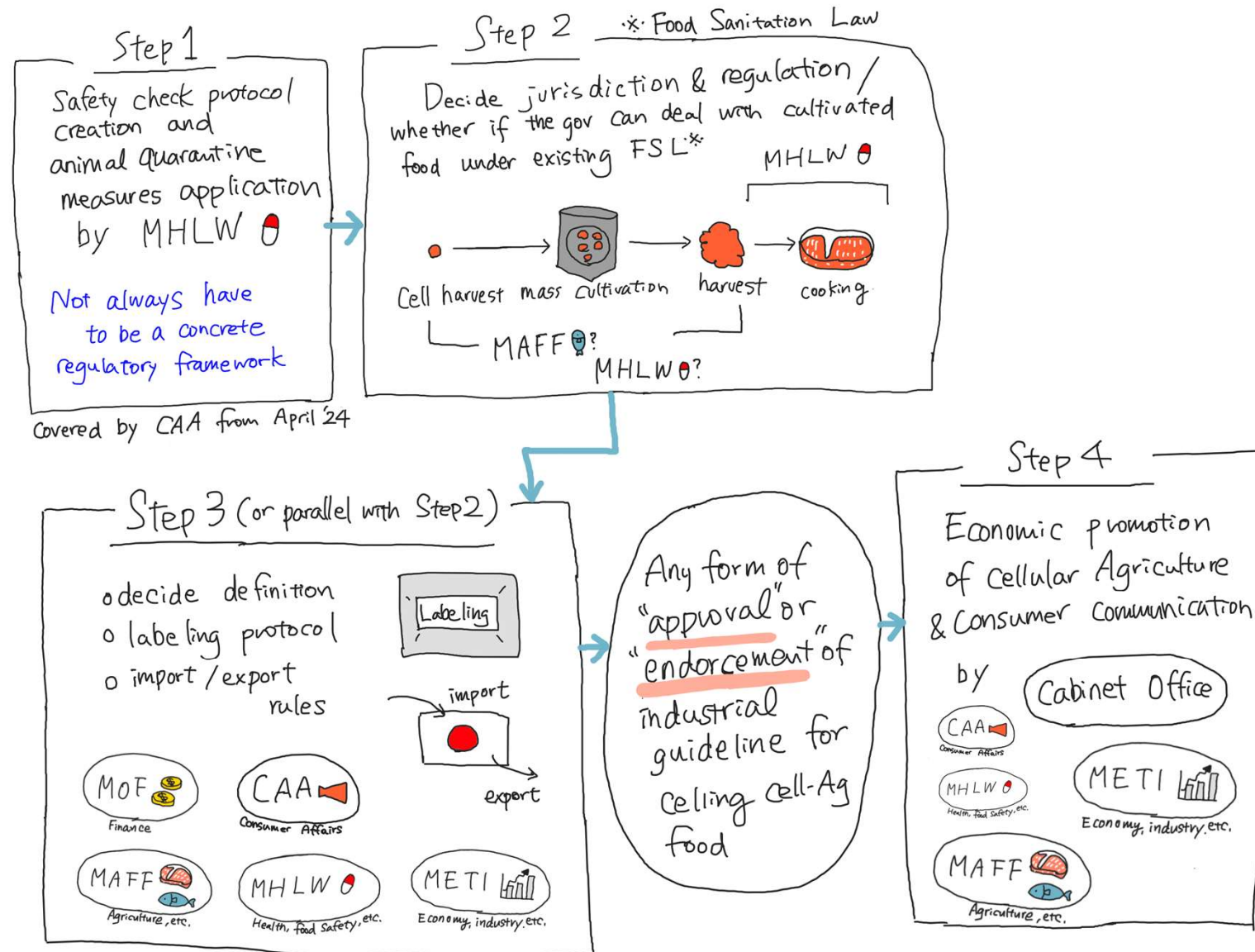


## Key stakeholders



# What JP government need to do for us to sell cultivated food in Japan

- 1) MHLW need to create safety check protocol
- 2) MHLW and others need to discuss whether we need regulatory framework and jurisdiction
- 3) Import/export and labeling rules will be prepared
- 4) Any form of official announcement to allow selling products
- 5) MAFF and METI to promote the industry



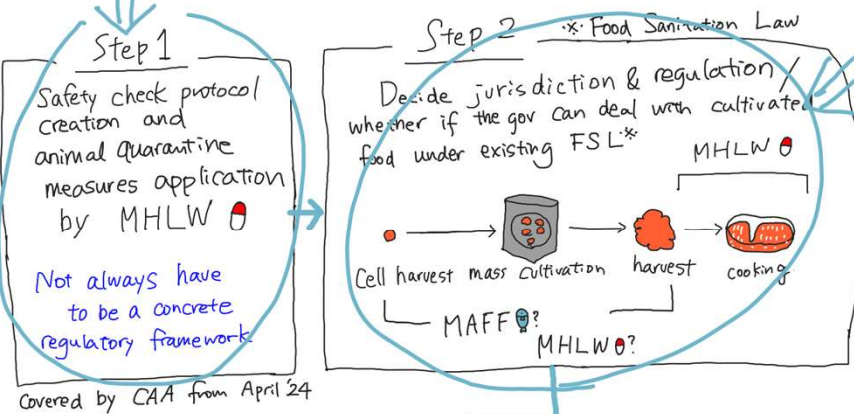


Our ongoing projects are

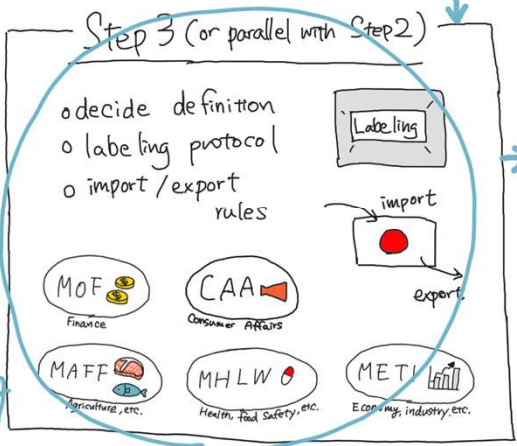
- ①Support safety check protocol creation of MHLW
- ②Policy recommendation about the regulatory framework
- ③Preparation of guideline
- ④Advice METI about the strategy of promoting Cell Ag industry

JACA's focus

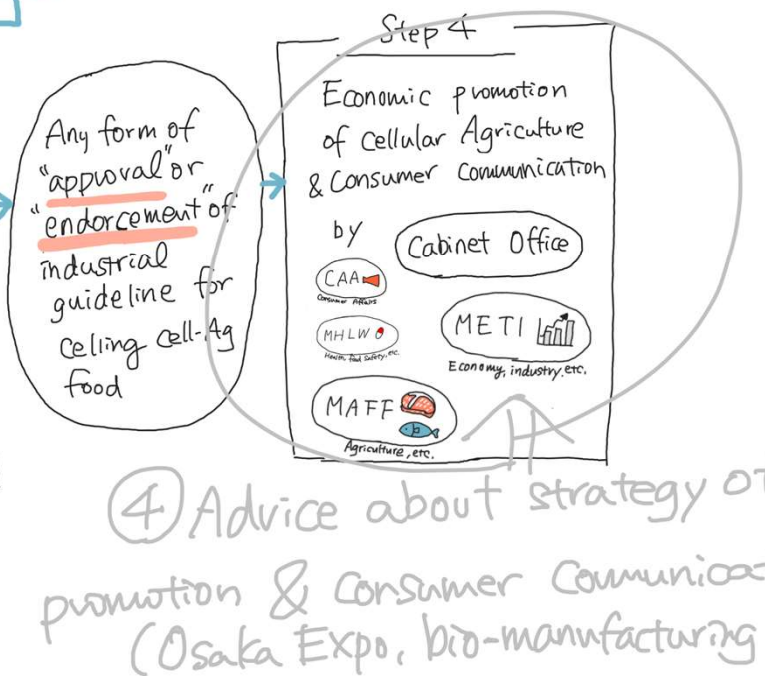
① support safety check protocol creation



② Policy recommendation about the regulatory framework



③ Preparation of guideline





①Support safety check protocol creation of MHLW

Collecting safety-related information is pretty important for MHLW to proceed ①, however, they avoids direct dialogue with developers by excusing that “there are lack of consensus in the industry [about safety measures, etc.] and it’s too resource consuming for us to manage all the communications with developers”.

We tried many types of communications to encourage MHLW to start dialogue with developers, but they avoided them by various reasons →



①Support safety check protocol creation of MHLW

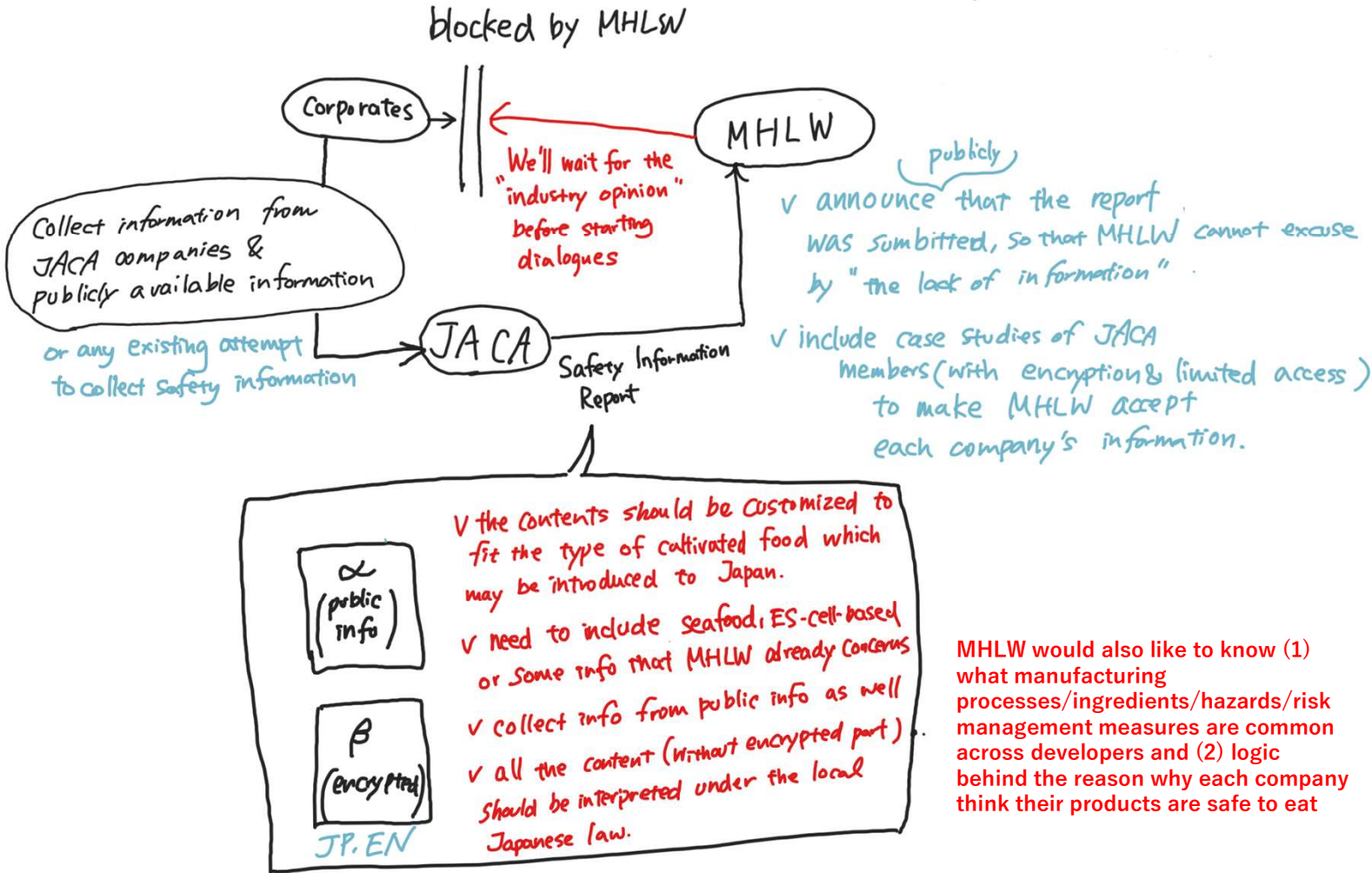
Since MHLW blocks the option of developers directly communicating with MHLW,

JACA is trying to collect information of how each company understands that their product is safe, and submit it as Safety Report.

There are some requirements that MHLW gave or implied for us to cover in the safety information report→.

We will publicly announce that we submitted enough information at maximum effort so that MHLW cannot excuse any more about the lack of info

①Support safety check protocol creation.





## Proposals (Next page)

# List of corporate names that support the recommendation

## ② Policy recommendation about the regulatory framework

## ② Policy recommendation about the regulatory framework.

JACA drafted a policy recommendation covering...

- ✓ accept information from overseas developers
- ✓ increase the no. of team for cell Ag food
- ✓ accelerate your understanding about the safety
- ✓ prepare for the rules to import cultivated food
- ✓ Set up a reporting line across Ministries to speed up discussions.

We asked external industrial organizations to harmonize policy recommendations about biotechnology and alternative food promotion

Keidanren  
JP's largest  
business federation

1500+ corporates,  
income \$45m (2020)

JBA  
Japan Bioindustry  
Association

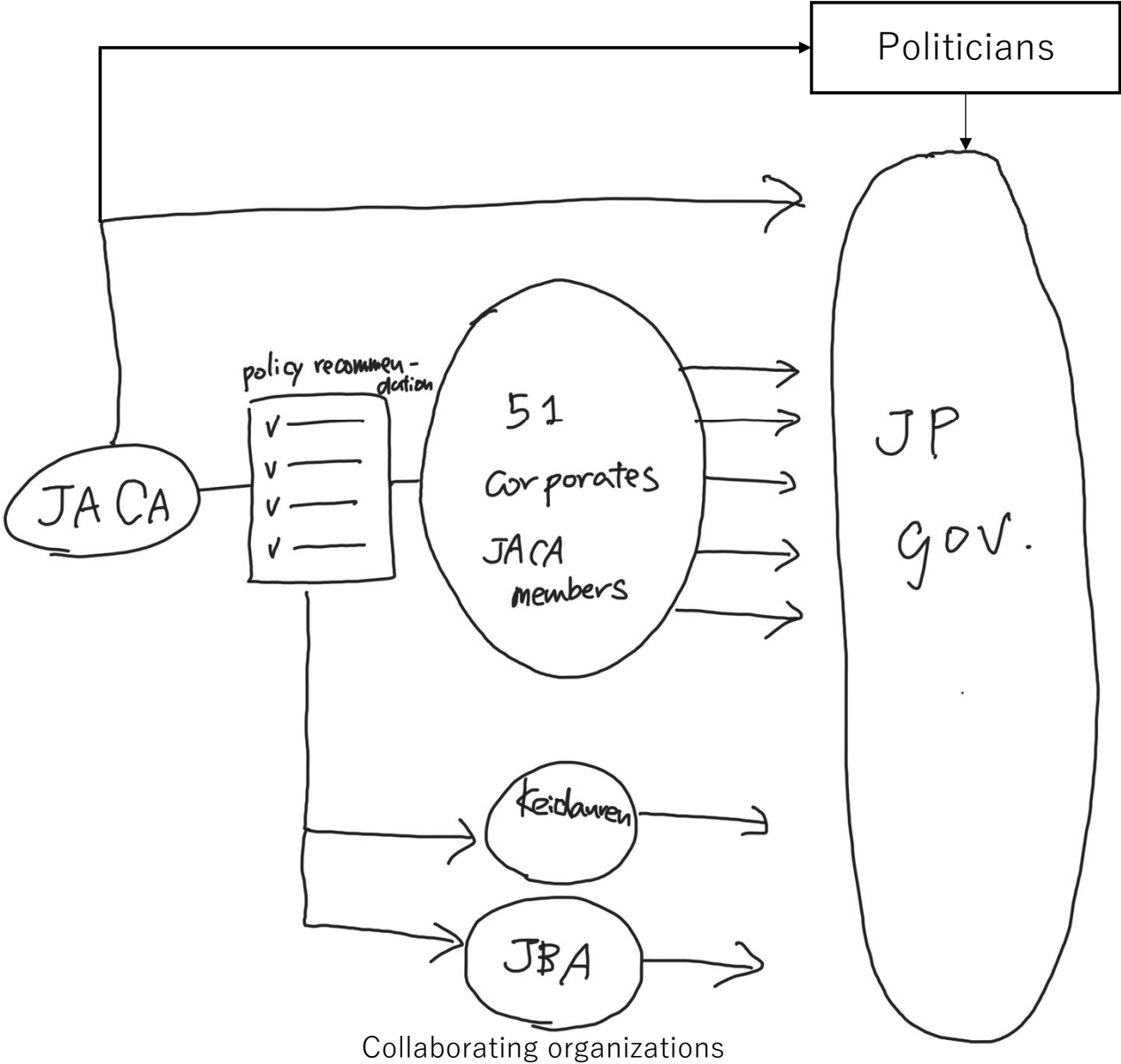
400+ corporates



②Policy recommendation about the regulatory framework

We will make use of the wide network in Japan to push the recommendation forward through Politicians, JACA members corporates, and collaborative partner organizations.

The recommendation will be also used as the harmonization guideline of each JACA member's communication strategy with the JP government.



**Proposals – screenshot time**

Proposal to MHLW

- I. As part of the transfer of food safety responsibilities from the Pharmaceutical and Food Safety Bureau of the Ministry of Health, Labour and Welfare to the Consumer Affairs Agency, the urgent task is to include discussions on the safety of cell-based foods as a handover item.
- II. For companies considering the market release of cell-based foods, establish a pre-consultation point (a window for individual information confirmation in a simulated review process) and build a system to accept the latest technological information from companies developing cell-based foods (even from overseas companies)
- III. Establish a relevant / resource-rich team for considering crucial matters in the cell agriculture industry
- IV. Deepen the discussion on safety check process for cell-based foods.
- V. By the winter of 2024, provide a template for companies to organize matters necessary for the sale or sampling of cell-based foods in the form of "guidelines" or similar resources.

Proposal to MAFF, METI, MHLW, MOF

- I. Enhance collaboration between government ministries and agencies (e.g., by establishing communication councils across relevant ministries and agencies) to share information about technological prospects and societal impacts of cell agriculture, as well as the status of policy development in each ministry.
- II. Further delve into the classification and labeling standards of cell-based foods, and clarify the national policies and progress status to consumers / corporates
- III. Begin discussions on the framework for import and export, including the manufacturing and sale of cell-based foods domestically, and clarify progress and points of consideration

Proposal to MAFF and METI

- I. Accelerate discussions on the arrangement of rights for producers of ingredients when cellular components of premium ingredients are used in cell-based foods, and examine necessary frameworks
- II. Consider establishing an internationally led conference by Japan to shape the international market for cell agriculture, ensuring Japan's strengths in its food culture and technology in the medium to long term
- III. Consider proactive measures and opportunities for cooperation between the public and private sectors to enhance communication and promotion for encouraging consumers' accurate understanding

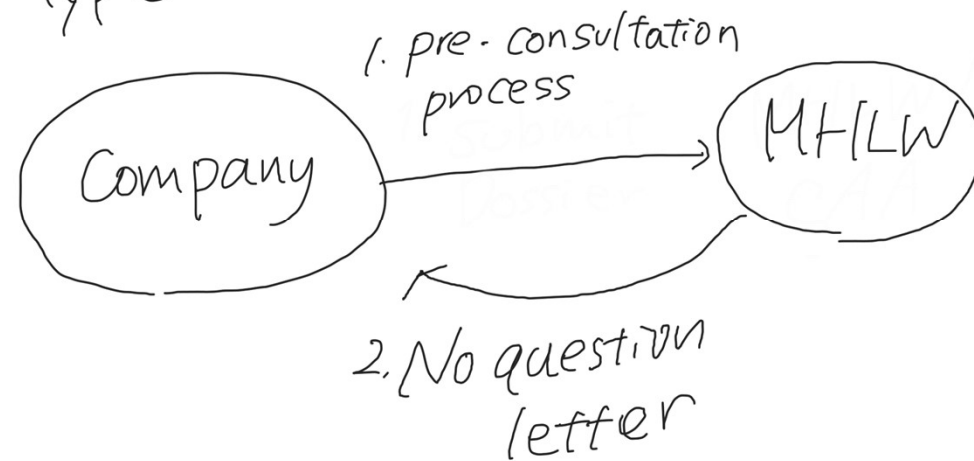
## ② Policy recommendation about the regulatory framework

We assume Japan's local regulatory framework for "Gene Edited Foods" would be sufficient for the framework,

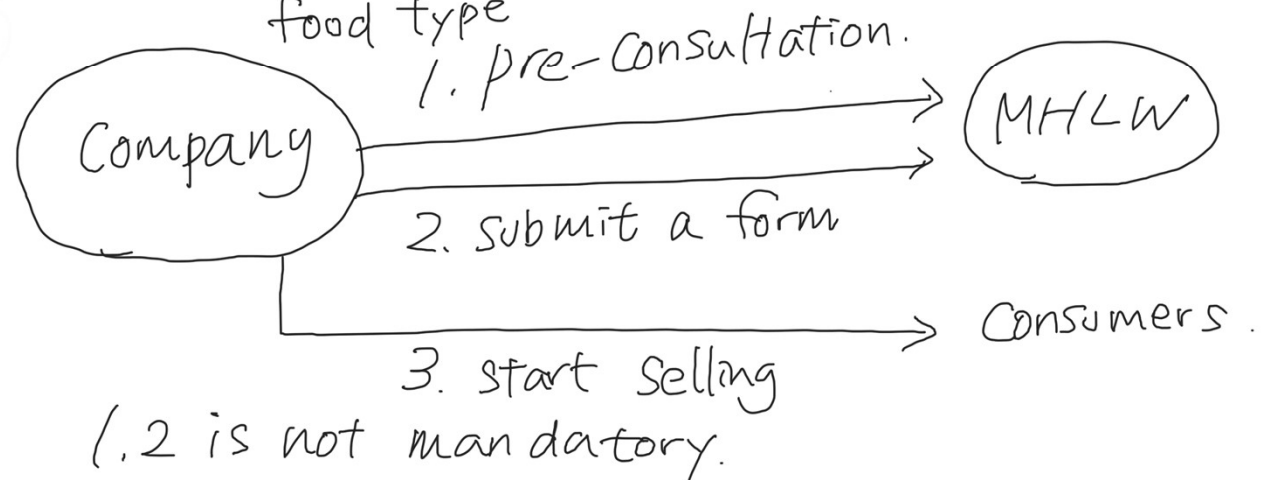
Though we don't actively propose it by using "gene editing framework", but we are more focused on the importance of opening up the pre-consultation opportunities for developers

### Possible regulatory frameworks

#### ① Us type.



#### ② Gene edited food type



③ best case

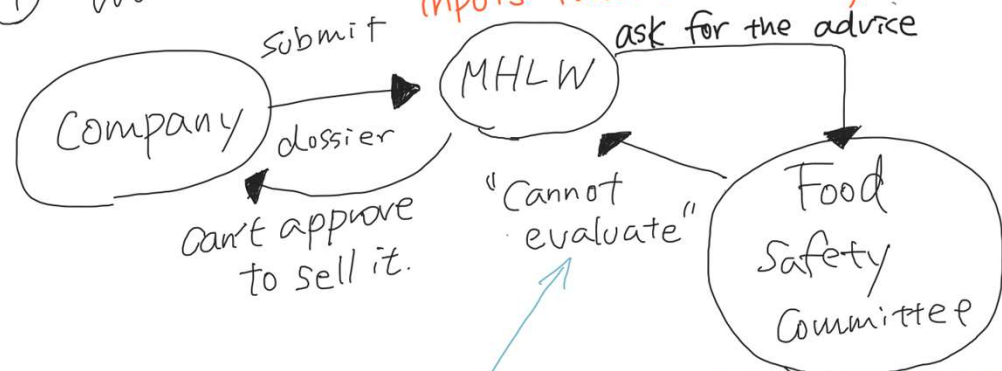
Logical story to persuade MHLW that cultivated food is safe by following FSL and its interpretation (industrial guideline)

MHLW to announce how to apply FSL to cultivated food manufacturing

or, endorse a report, which was submitted by JACA, about the interpretation of FSL.

Justifying cultivated food by interpreting FSL

④ worst case - likely to happen without any inputs from the industry



Even if the comment is based on the lack of info, consumer organization may think the product is dangerous.

(lacks information)  
takes 3-4 yrs to consider.



### ③ Preparation of guideline

③ preparation of guideline. (other than safety report, etc.)

