



SABAival PROJECT

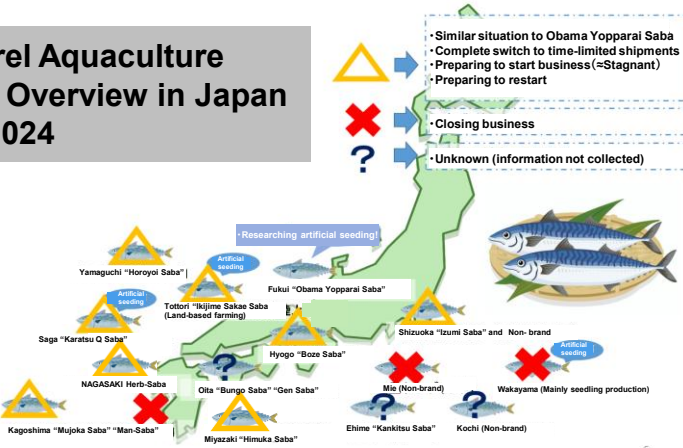


Fukui Prefectural
University

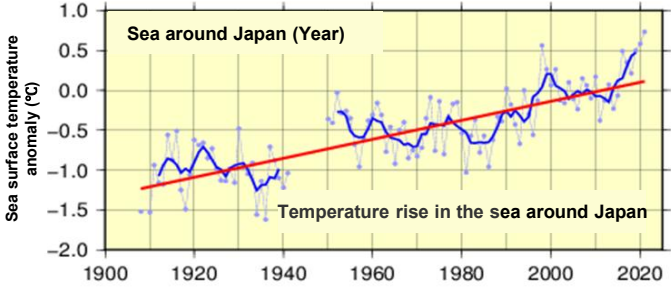
Problem

Mackerel aquaculture endangered in Japan

Mackerel Aquaculture Market Overview in Japan As of 2024



【Factor 1】 Massive mackerel mortality
due to warmer seawater



【Factor 2】 Shortage of mackerel seeds
due to poor catch

Achievements in Obama city

From 2016

Obama City, Fukui “SABAival” project

Faculty of Marine Science and Technology, Fukui Prefectural University
Fukui Fisheries Promotion Center
Tagarasu Suisan

Research achievements in hatchery-based aquaculture
through industry-academia-government collaboration

2019-2023 “Obama Yopparai Saba” Business
development in fish fattening

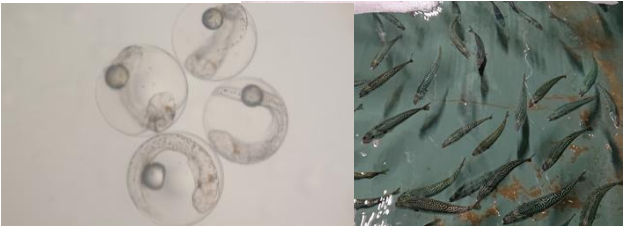
2020 Successful production of approximately 10,000
artificial seed

2023 Test sales of hatchery-based aquaculture of
mackerel achieved!

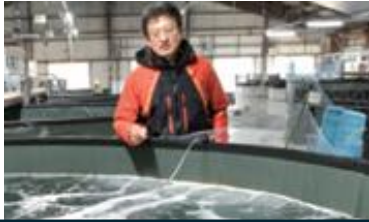
Results of STEP1

Hatching rate of fertilized egg

25%⇒75%



Challenges through startup



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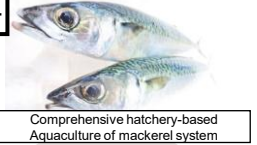
Core technology -Creation of the strongest Hybrid seeds-

**Scomber
japonicus**

**Scomber
austrasicus**

Patent Application Scheduled

- Taste of *S. japonicus* & High temperature tolerance of *S. australasicus*
- No risk of ecological impact
- Not started in fish farming⇒High novelty



Seeding
Feed
Environment

Business Goals

Domestic mackerel artificial seed market
⇒12 billion yen

Global edible mackerel market
⇒ approx. 200 billion yen