

SONOFAI Launches World's First Frozen Albacore Tuna Fat Content Inspection Device Powered by Fujitsu's Ultrasound Analysis AI Technology

~Non-destructive and automated assessment enables 100% inspection, contributing to increased availability of high-value frozen albacore tuna.~

SONOFAI Inc.
CEO
Hisashi Ishida



April 9, 2025

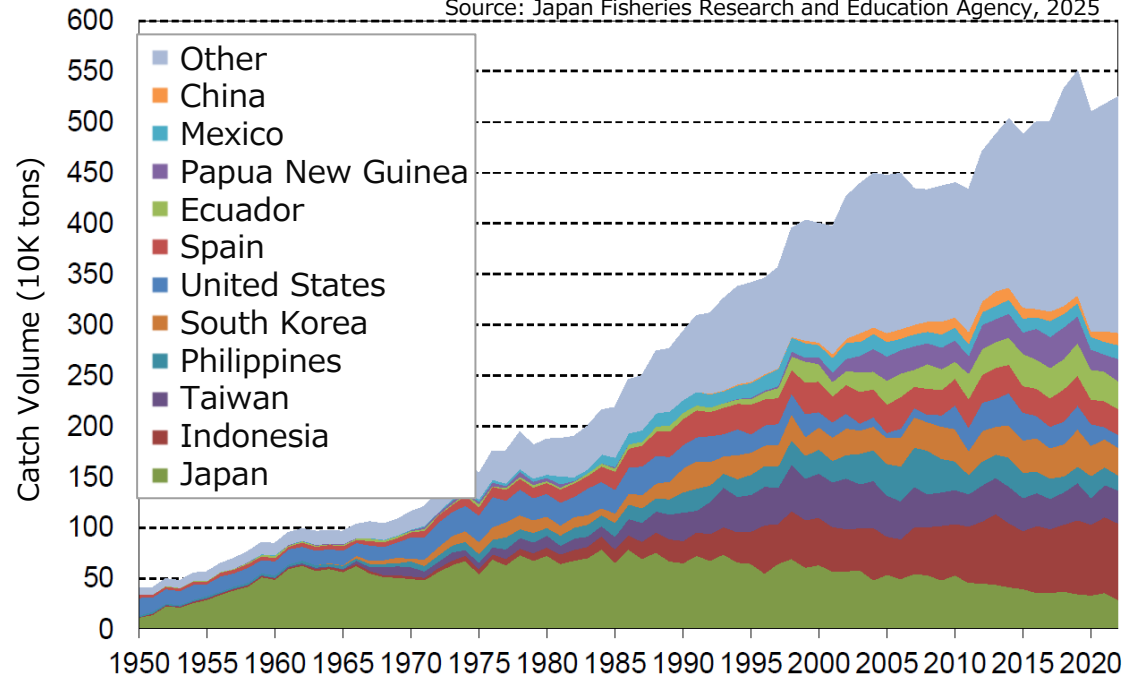
Challenges | Global Tuna Resource and Market Size

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- Global tuna catches have increased by 25% in the past 20 years, and international quality demands for tuna are increasing annually.

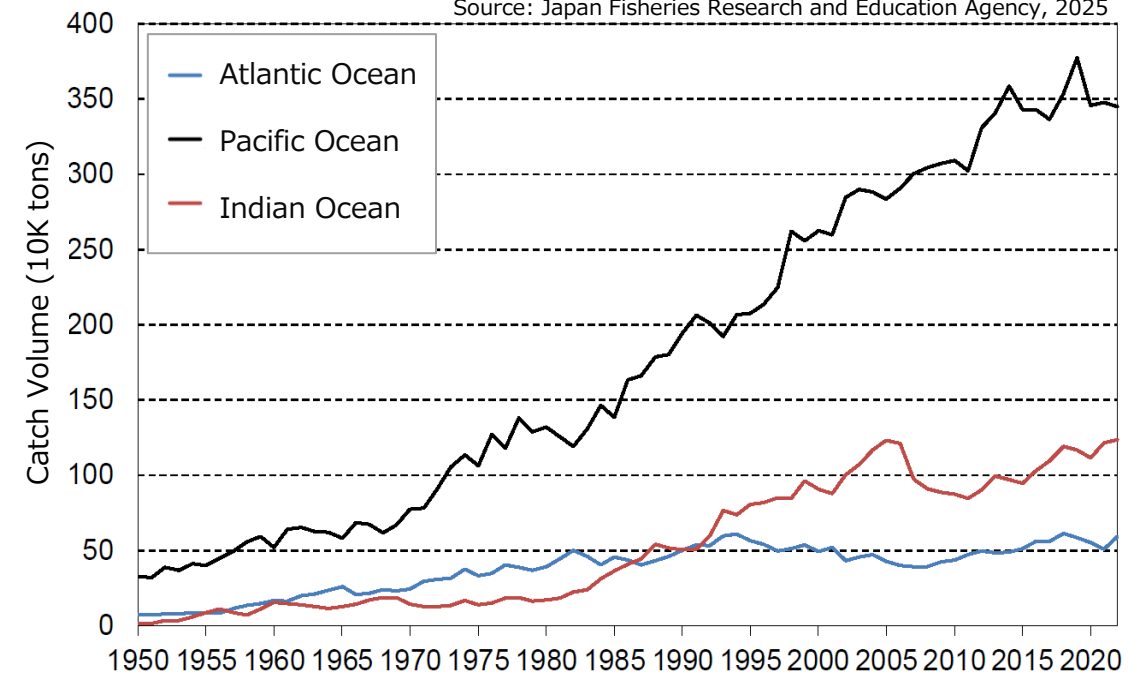
Trends in Tuna Catches by Major Country/Region

Source: Japan Fisheries Research and Education Agency, 2025



Trends in Tuna Catches by Major Ocean

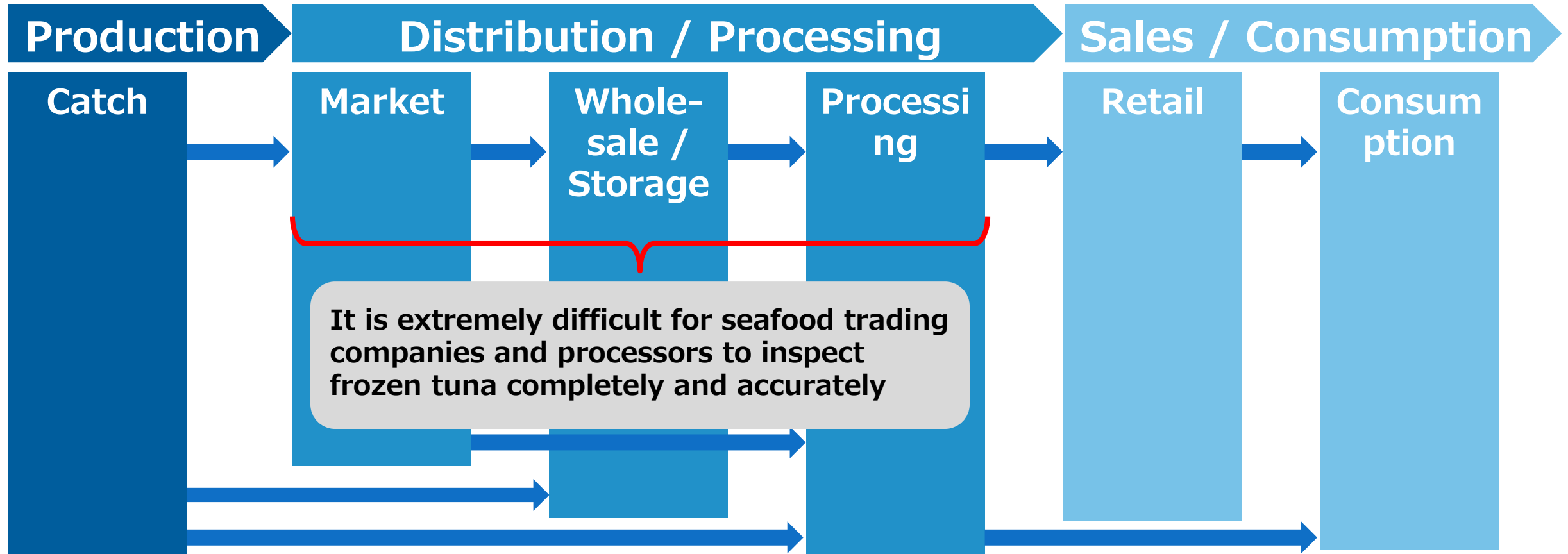
Source: Japan Fisheries Research and Education Agency, 2025



The global tuna market is growing year by year and is currently valued at 5 trillion yen (33 billion USD).

Challenges | Challenges Facing Tuna Distribution and Market ²

- Enhanced value through accurate inspection and labor savings in the tuna distribution process.



Challenges | Challenges Related to tail-cut selection

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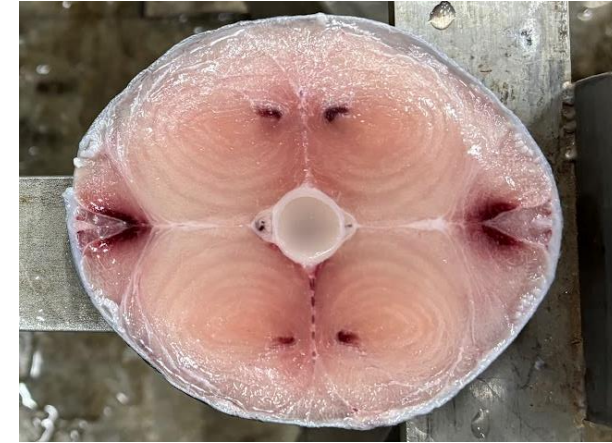
- Three challenges in the tail-cut selection process, which is essential for tuna inspection.



Cutting the tail of frozen tuna with a power saw.



Arranging the cut tails one by one and thawing them in hot water.



Experts visually assess fat content, etc., from the cross-section.

**Hazardous
Work**

**High
Workload**

**Requiring
Expertise**

Photo Source: Yaizu Suisan Web Site "Knowing Yamafuku"
URL : <https://www.yaizu-yamafuku.co.jp/policy/>

Background | Collaboration between Fujitsu and IsedaTec

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Fujitsu recognized the potential of Ultrasound Analysis AI, but device development was necessary for practical implementation in society

Fujitsu and Ishida Tec met through Owned Media.



Fujitsu PR note Top Page
(As of March 25, 2025)

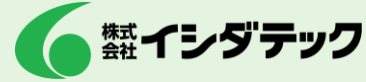


IsedaTec note Top Page
(As of March 25, 2025)

Initial meeting in March 2024, followed by discussions.

Collaboration began in April 2024.

Ishida Tec Co., Ltd.



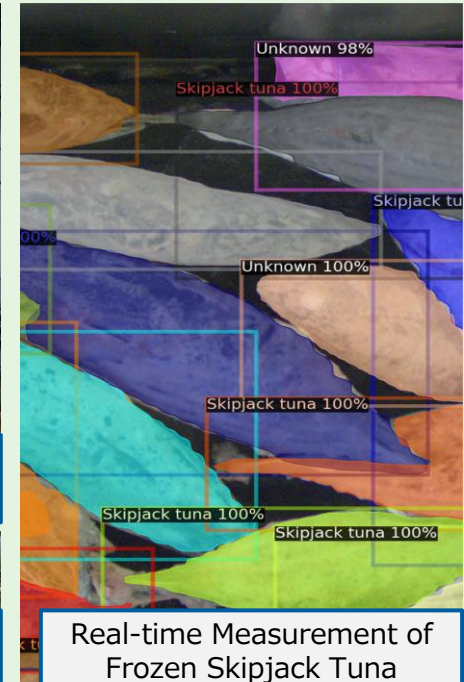
- A device manufacturer headquartered in Yaizu City, Shizuoka Prefecture, that develops, designs, and manufactures food and pharmaceutical manufacturing equipment.
- Established as a private company in 1948. Holds 82 cumulative patents and 62 utility model registrations.
- Currently developing AI selection systems for processed seafood products and brewing ingredients.



IshidaTec
Yaizu Plant



Food Manufacturing
Equipment (Products)

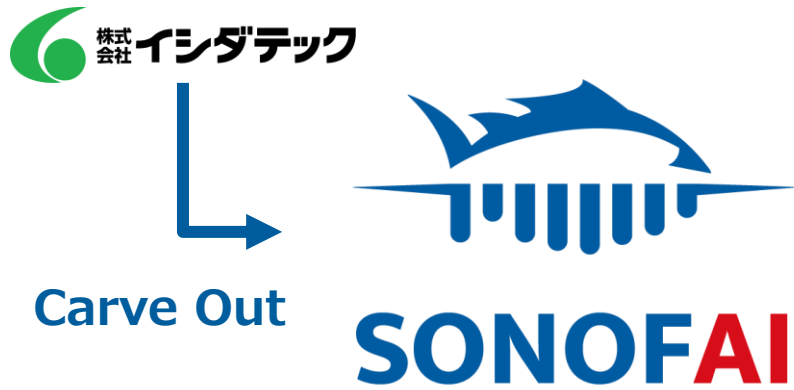
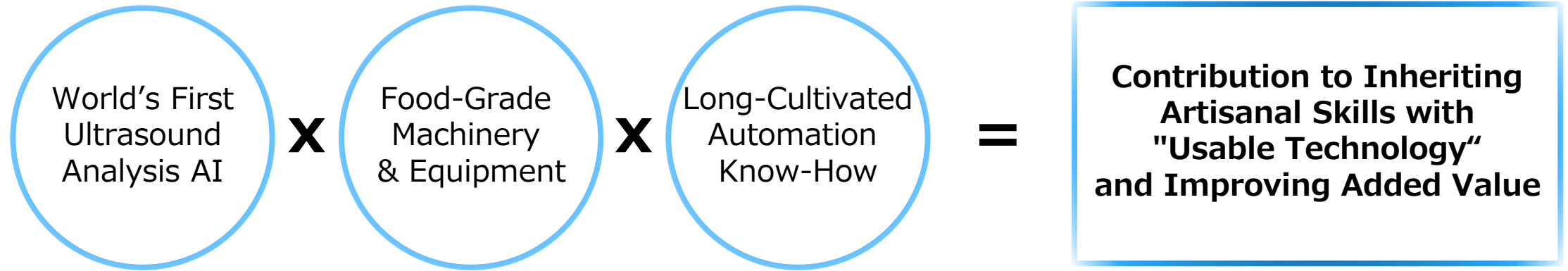


Real-time Measurement of
Frozen Skipjack Tuna

Company Overview | SONOFAI INC.

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SONOFAI is a manufacturing/engineering startup based in Shizuoka Prefecture, aiming to be a partner in inheriting the skills of master craftsmen through digital technology.



Logo: Expresses analog skills digitally. The colors are based on the sea of Yaizu, which nurtures fisheries and marine industries, and Fujitsu Red, which represents technology supply.

Sonofai Inc.

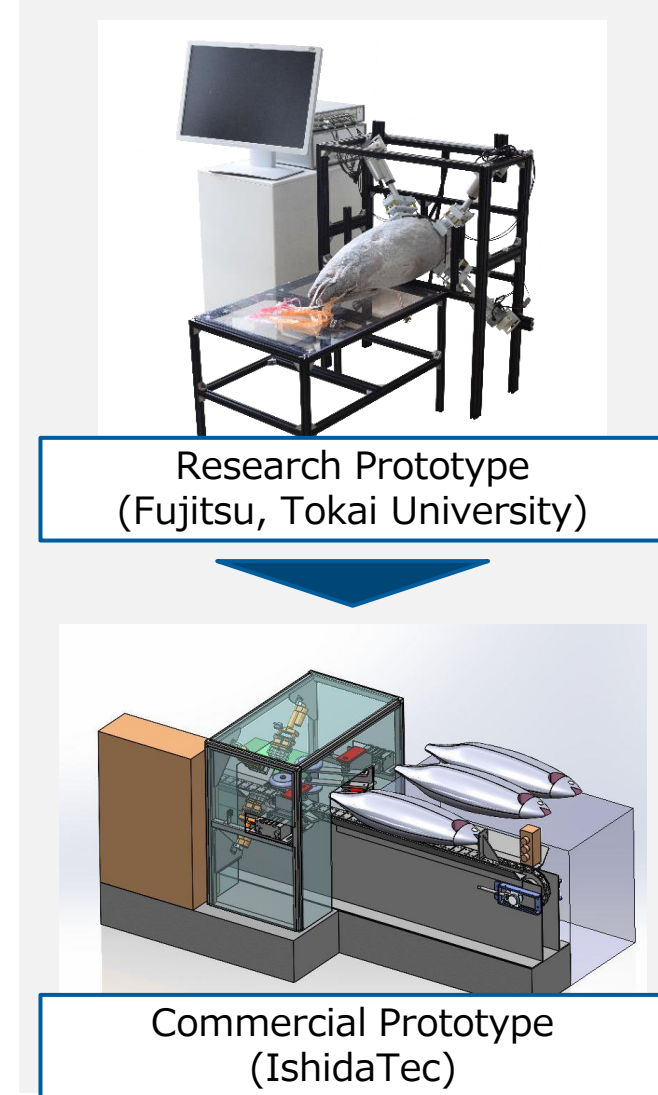
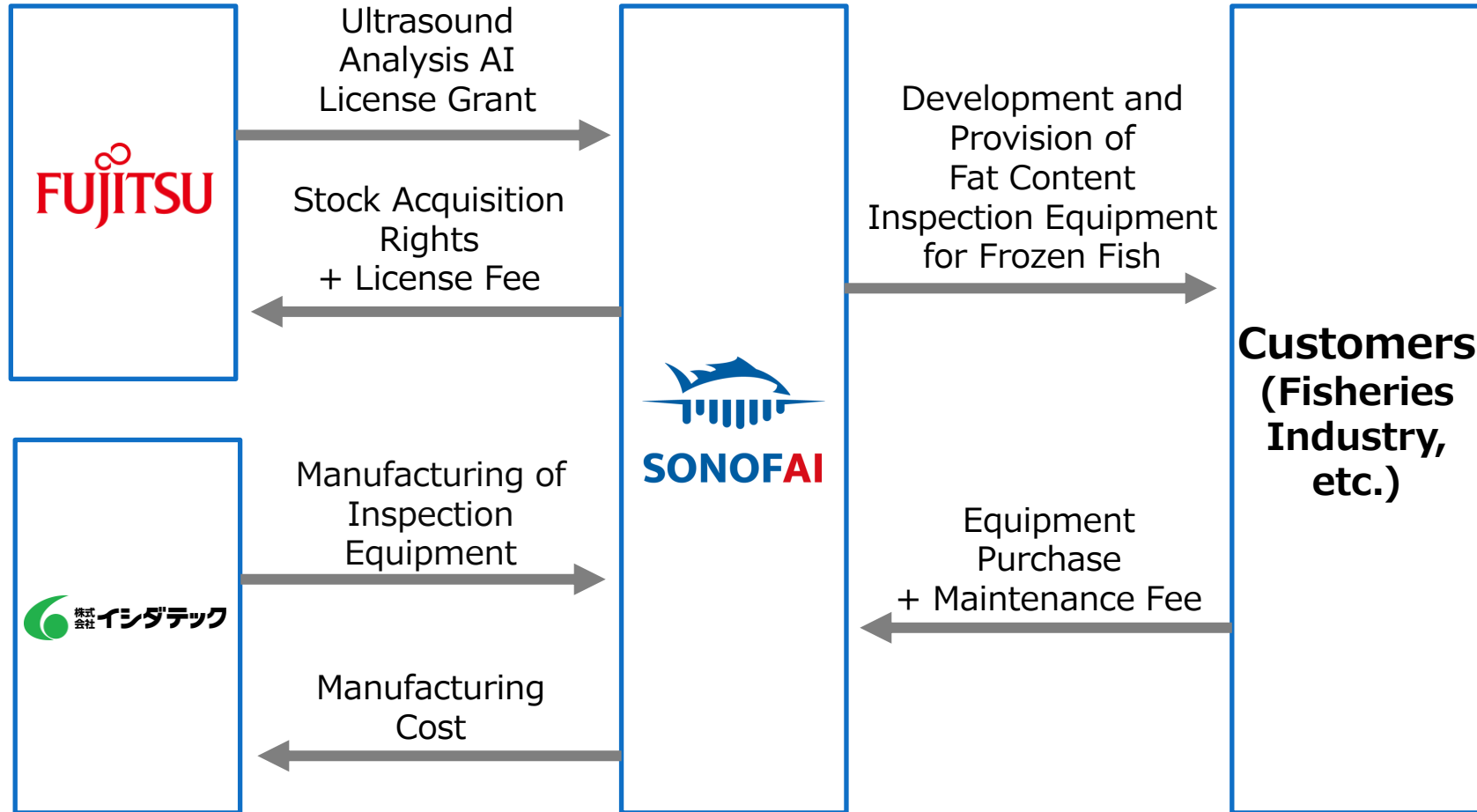
Establishment	December 16, 2024
Capital	5,000,000 yen
Location (HQ)	355 Sakamoto, Yaizu City, Shizuoka Prefecture (within IshidaTec Co., Ltd.)
CEO	Hisashi Ishida

The company name "SONOFAI" is derived from: "SONO," which means "sound" in Latin; "F" from "Frozen Fish" and "Fujitsu"; and "AI" representing Artificial Intelligence. Subsidiarily, it also implies "Son of AI," meaning the offspring of AI realized by AI.

Development

Development | Pieces Needed for AI Social Implementation

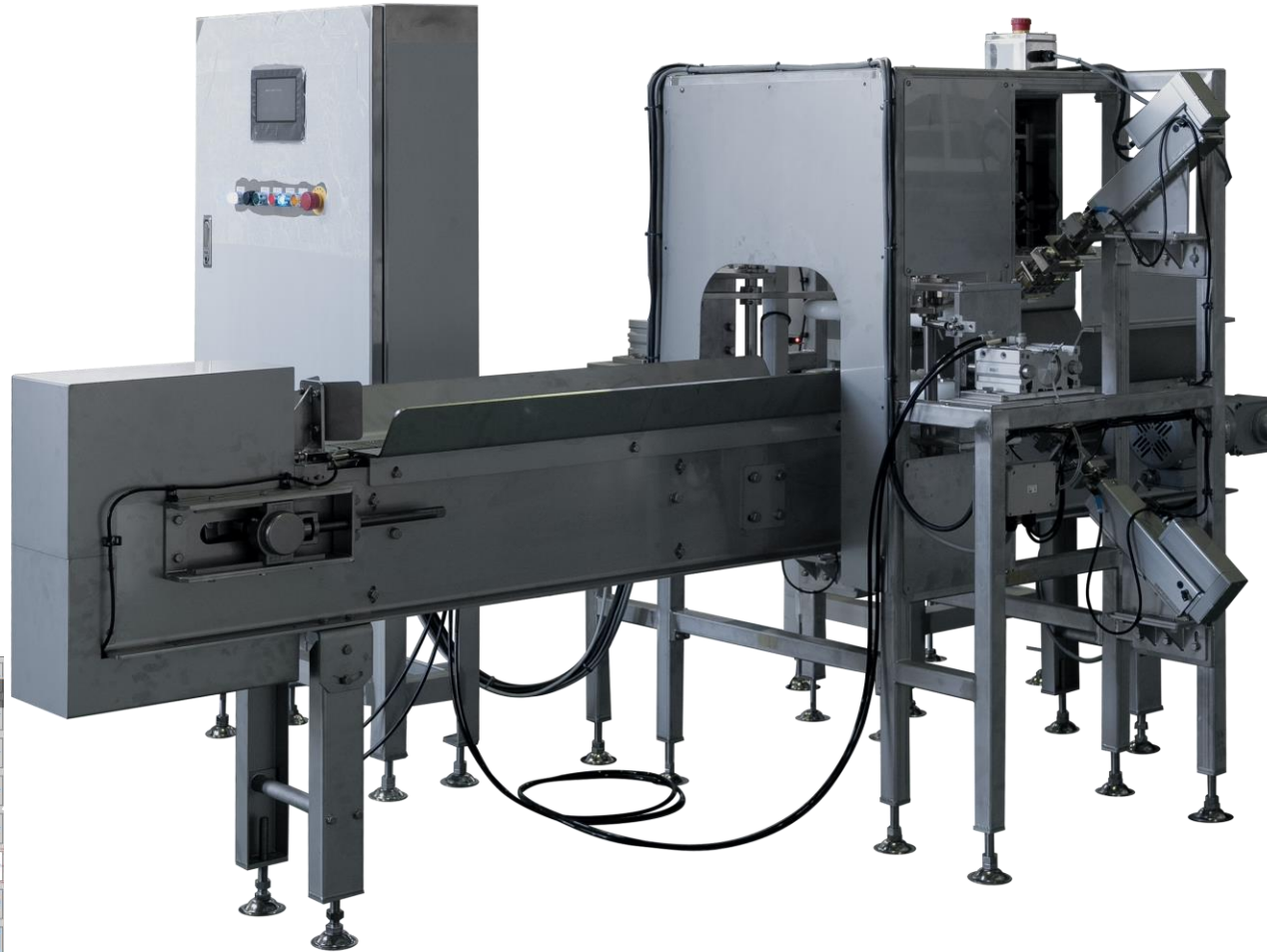
- SONOFAI promotes the project by inheriting Fujitsu's Ultrasound Analysis AI technology and Ishida Tec's equipment.



Product | "SONOFAI T-01" World's First Ultrasound Analysis AI device

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Scheduled to be available domestically in June 2025



Ultrasound Measurement Device **SONOFAI T-01**

Basic Material:

Stainless Steel

Dimensions:

W2700 x D1450 x H1600 (mm)

Compatible Size:

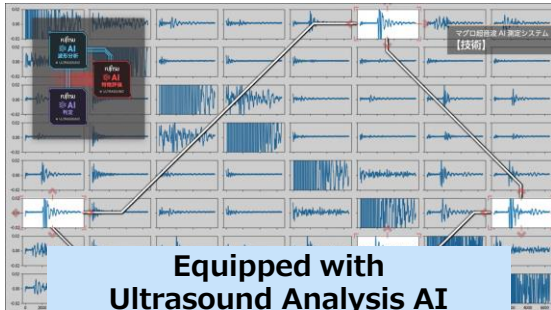
10kg - 20kg

Compatible Fish Species:

Albacore Tuna

Processing Capacity:

5 fish / minute



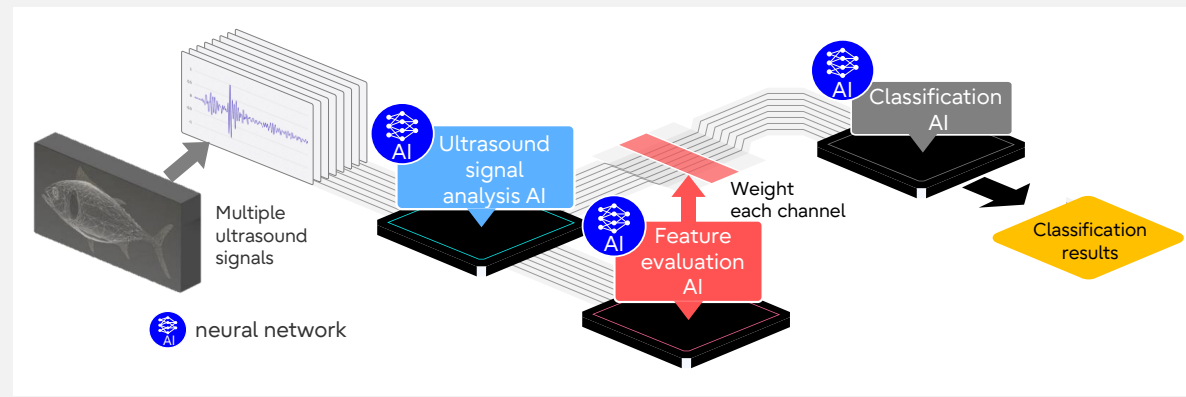
Equipped with
Ultrasound Analysis AI

In a collaborative effort, Tokai University, renowned for its research on tuna flavor, and Fujitsu, a leader in Ultrasound Analysis AI^[1], are proud to announce a world-first non-destructive testing of frozen tuna. (December, 2023)

[1] Ultrasound Analysis AI: Core Technology of AI Service "Fujitsu Kozuchi"

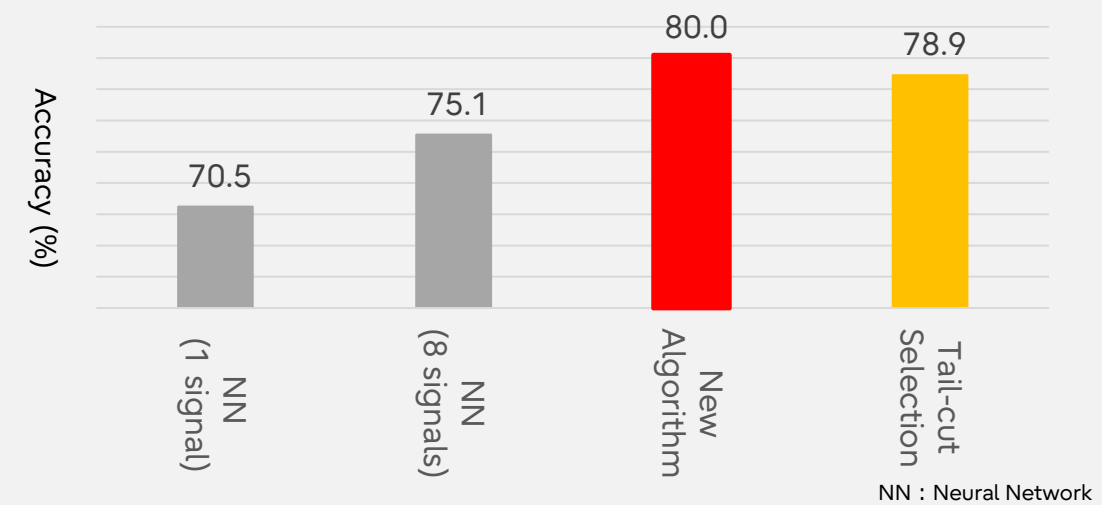
High-Precision Inspection for Frozen Products

- Ultrasound inspection is a safe and cost-effective non-destructive method, but data analysis has been challenging due to the large amount of noise.
- By using low-frequency ultrasound, we have achieved non-destructive inspection of frozen products, which was previously impossible.



Accuracy Exceeding Tail-Cut Selection

- Performance is enhanced by weighting and analyzing the multichannel signals based on the magnitude of noise.
- Compared to chemical analysis results, our AI successfully determined the fat content with an accuracy exceeding that of tail-cut selection.



- SONOFAI T-01 addresses all challenges

**Full
Inspection**

**Increased
Efficiency**

**AI-driven
Profitability**

**Standard
-ization**

Safety

- This technology enables the automation and acceleration of the selection process, making **comprehensive inspection**, previously unfeasible due to human resource constraints, a reality.
- This reduces lost revenue from **high-value products being sold at lower price points** and facilitates the increased supply of **high-quality, high-value-added albacore tuna**."
- Furthermore, this innovation reduces hazardous tasks, **improving the occupational health and safety environment for workers**.

- Using the SONOFAI T-01 can reduce the time required for tail-cut selection by up to approximately 80%. (based on hearing results from a fisheries company)

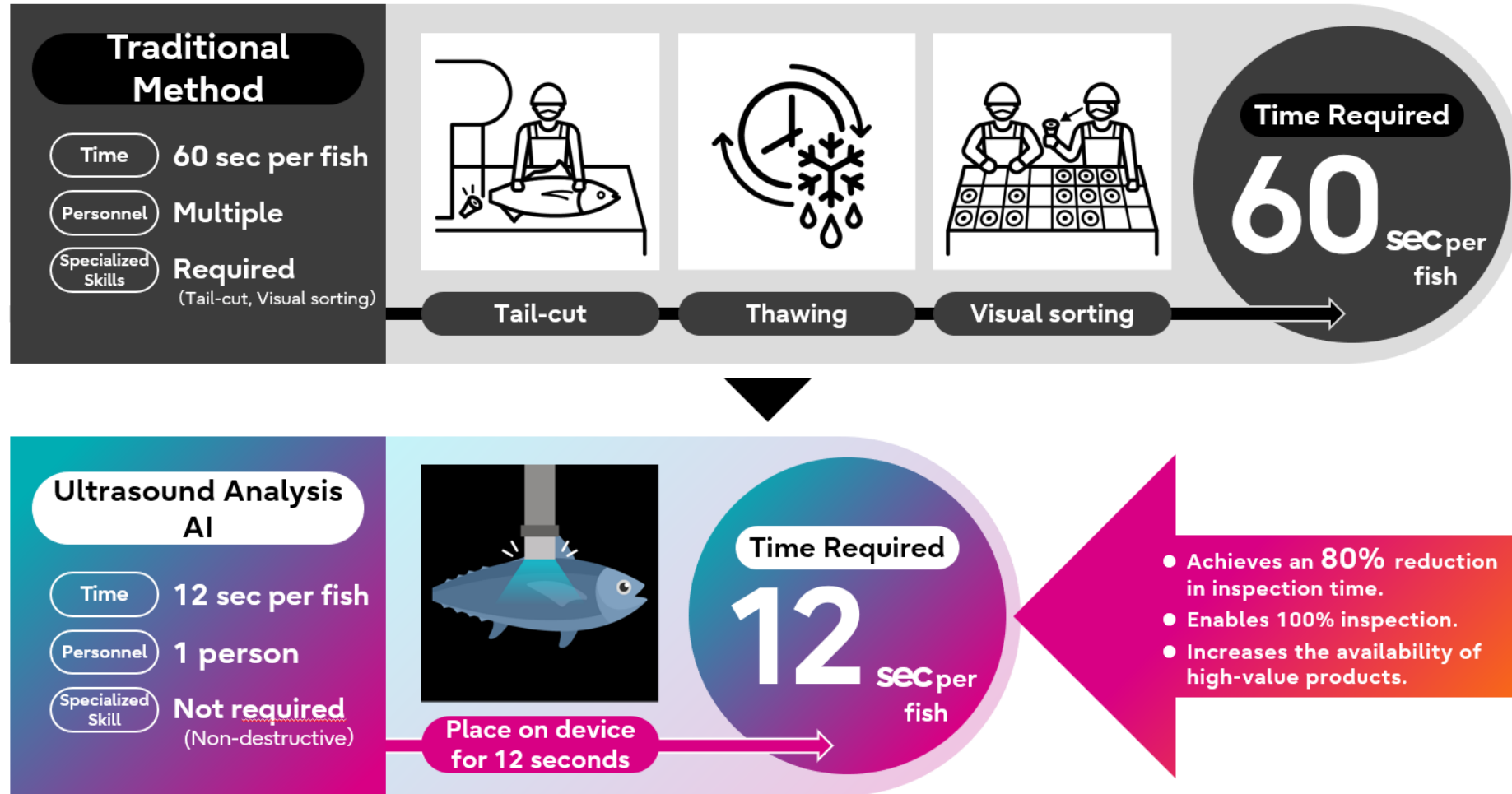


Illustration : Fujitsu

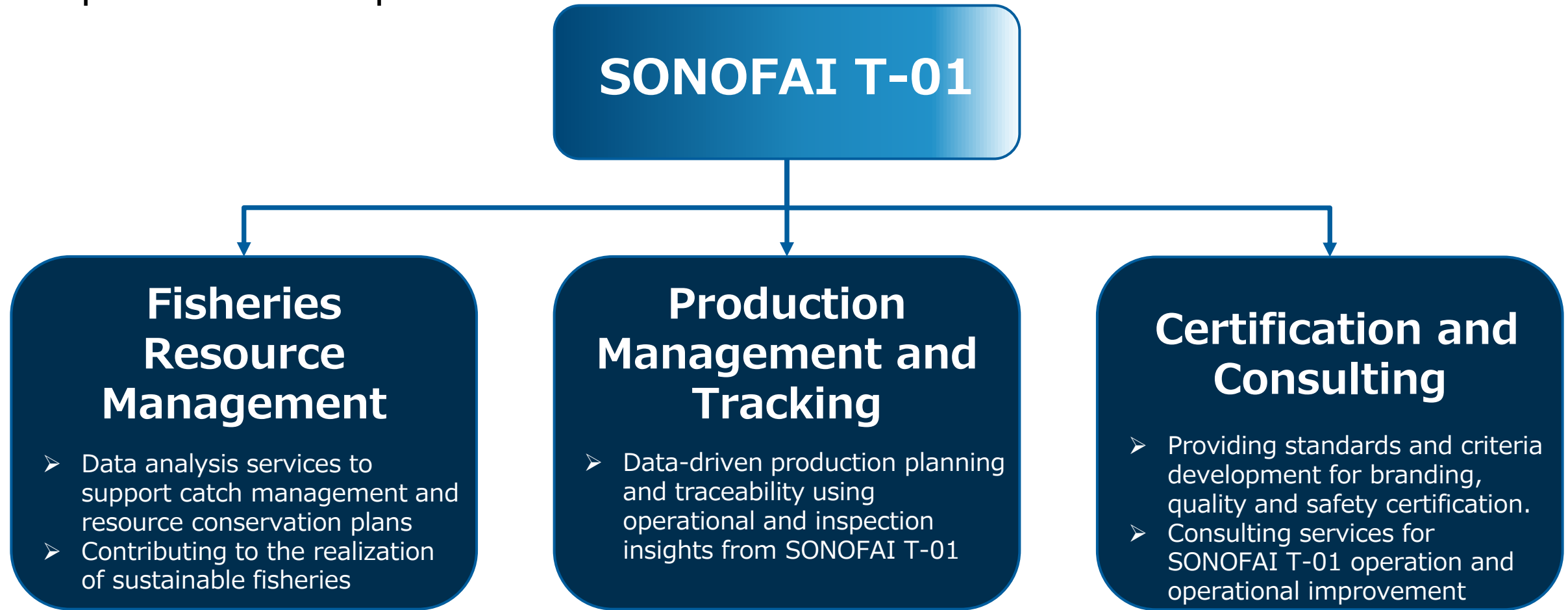
What's Next

- We plan to sequentially expand the range of supported fish species and add new features, aiming to provide 100 units globally within the next five years.

		FY2025	FY2026	FY2027
Fish (Tuna) Species	Albacore	○	○	○
	Yellowfin		○	○
	Bigeye			○
	Skipjack		○	○
Evaluation Function	Fat Content	○	○	○
	Freshness		○	○
	Flesh Quality ^[1]		○	○
Expansion Function	Handling	Automated Sorting Before / After Device	Batch Processing (Transport / Logistics Management)	
	Data Collaboration	Remote Management / Collaboration	Data Collaboration with SONOFAI's Proprietary AI	

[1] Flesh Quality : A comprehensive indicator that encompasses firmness and elasticity, which affect texture and taste.

- Contributing to sustainable industrial development through various services and products, starting with the "SONOFAI T-01".
- Updates will be provided online.



- Exhibiting at FOOMA JAPAN 2025 (World's Largest Food Manufacturing Expo)

FOOMA JAPAN 2025

運営事務局へのお問い合わせ 出展社申請・手続きサイトログイン

開催概要 FOOMA JAPANとは 出展効果 FOOMAアワード 集客プログラム FOOMA JAPAN ch

Touch
FOOMA,
Taste
the Future

—— 世界最大級の食品製造総合展 ——

FOOMA JAPAN FOOD PROCESSING TECHNOLOGY EXPO

2025 東京ビッグサイト 東1～8ホール

6/10 火 **13** 金 10:00 ~ 17:00

主催：一般社団法人 日本食品機械工業会

出展申込受付は終了しました
来場事前登録は2025年4月1日より開始します

出展社一覧

出展について 出展効果について スタートアップ出展について

FOOMA JAPAN 2025: <https://www.foomajapan.jp/>



Tokyo Big Sight: <http://bigsight.jp/visitor/>

**Partner in inheriting master craftsmanship through digital technology;
standardizing Japan's food quality management.**

