

R&D Cost of Decarbonization-Promoting Product Development and Scaled Production in the Aquaculture Industry (UMITRON K. K.)



City	Year of Establishment	Founder
Shinagawa, Tokyo	2016	Ken Fujiwara

Partner VC	Latest round of Fundraising	Valuation
-	Series A	Non-Disclosure

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- Business Plan
Utilizing Umitron’s proprietary AI and IoT technology, a large-scale, systematic research and manufacturing platform shall be developed. By minimizing the risks associated with high initial equipment costs, limited species applicability, and production scalability in the commercialization and social implementation, a decarbonized and sustainable aquaculture industry will be realized.
- Research Outline
In this R&D effort, a cost-reduced smart feeder CELL4.0 will be developed by improving the existing UMITRON CELL3.0, to resolve issues by implementing greater versatility in device size and fish species compatibility, which is different from the conventional existing products.
The following PoCs will be attained to realize the establishment of a scalable decarbonization model in aquaculture:
 - ① Experiment of prototyping CELL4.0 and conducting environmental durability tests using FRP enclosures and standardized internal components.
 - ② Evaluation of feeding performance and adaptability of CELL LARGE and CELL MINI to support diverse fish sizes and species.
 - ③ Proof of personalized AI feeding optimization adapted to regional environments and fish types, and quantification of decarbonization effects in real-world conditions.

Business Area/Field	Research Period	Research Grant Amount	International collaborative technology demonstration
Information & Communication	PCA 2024～2026FY	JPY 381 million	-