RAS:AI

Artificial Intelligence for
Recirculating Aquaculture

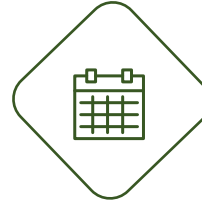March 2025

CONTENTS

1. RAS:AI'S MISSION

Providing advanced AI/ML solutions for Recirculating Aquaculture Systems (RAS)

Prediction
Predict outcomes in aquaculture, such as growth rate, disease outbreaks, and feed efficiency
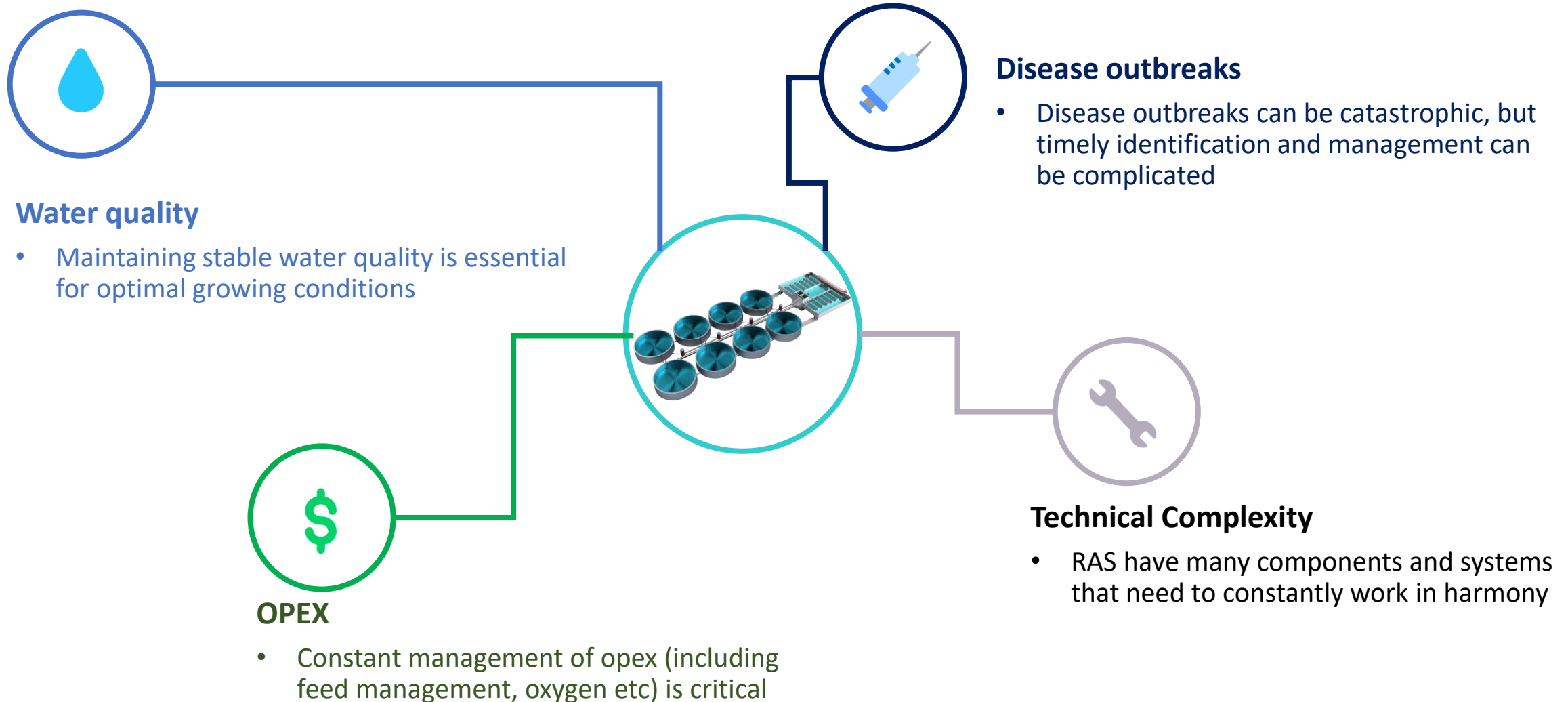
Monitoring and control
Allowing for real time monitoring of important parameters, and creating recommendations

Optimisation
Improving efficiency of inputs and growth, having a direct impact on the bottom line

2. THE PROBLEM: RISK MITIGATION AND MANAGEMENT IN RAS

Water quality

- Maintaining stable water quality is essential for optimal growing conditions

Disease outbreaks

- Disease outbreaks can be catastrophic, but timely identification and management can be complicated

OPEX

- Constant management of opex (including feed management, oxygen etc) is critical

Technical Complexity

- RAS have many components and systems that need to constantly work in harmony

3. THE SOLUTION: AI:ML TO MONITOR, CONTROL & OPTIMISE

Leveraging advances in aquaculture data collection and machine learning
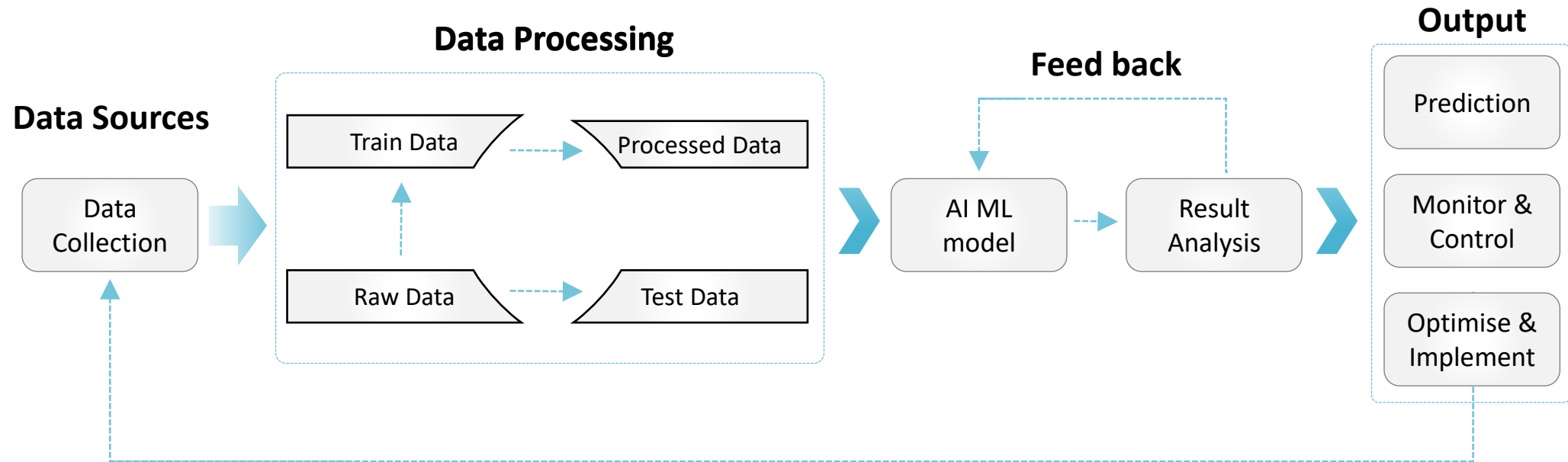
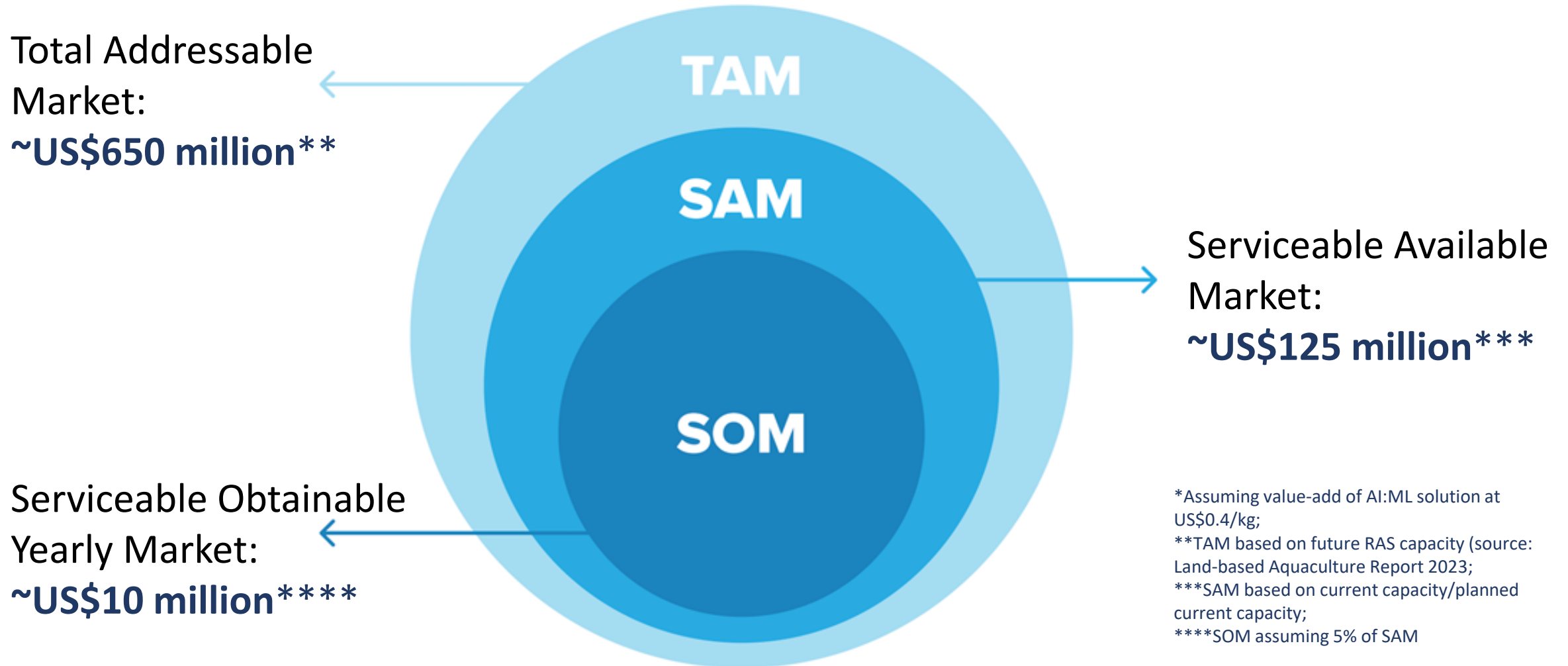# 4. MARKET OPPORTUNITY: RAPID DEVELOPMENT OF GLOBAL RAS

Total Addressable
Market:
~US$650 million**

Serviceable Available
Market:
~US$125 million***

Serviceable Obtainable
Yearly Market:
~US$10 million****

*Assuming value-add of AI:ML solution at US$0.4/kg;
**TAM based on future RAS capacity (source: Land-based Aquaculture Report 2023;
***SAM based on current capacity/planned current capacity;
****SOM assuming 5% of SAM

5. RAS:AI'S BUSINESS MODEL

SUBSRICPTION SERVICES

- Offering our AI:ML services on an ongoing subscription basis similar to other SAAS products

PROFIT SHARING

- Working hand-in-hand with RAS producers to optimise production / reduce opex costs and share the upside, based on agreed baselines
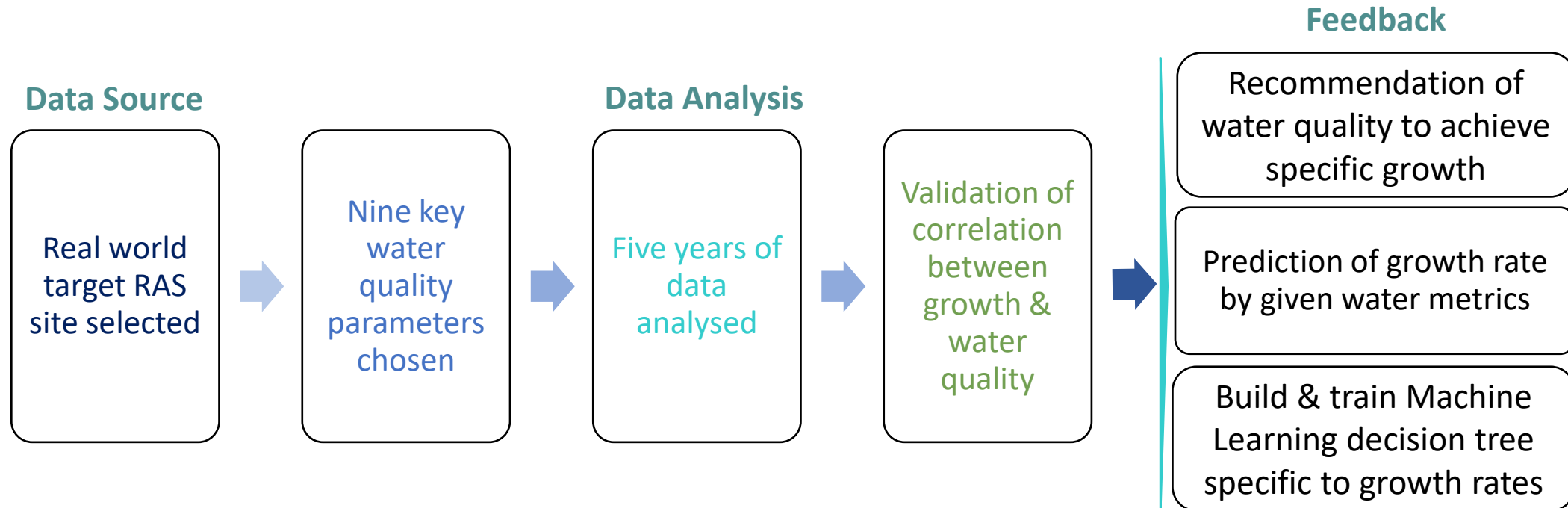
MONETISATION OF IP

- Developing and registration of Intellectual Property in the AI space that can be licensed to third-parties

We have completed a full POC using five years of real-world data from a commercial shrimp RAS facility

Our POC in brief:

Feedback

Data Source

Data Analysis

Real world target RAS site selected

→ Nine key water quality parameters chosen

→ Five years of data analysed

→ Validation of correlation between growth & water quality

→ Recommendation of water quality to achieve specific growth

Prediction of growth rate by given water metrics

Build & train Machine Learning decision tree specific to growth rates

7. KEY COMPETITORS

Name	Country	Company Type	Details
Akva Group	Norway	RAS Technology Company	Completed development of several optimization solutions
AquaMaof Aquaculture Tech	Israel	RAS Technology Company	Developing in-house data analysis development
Tidal	USA	Software Company	Developing AI and big data solutions
InnovaSea Systems Inc	USA	RAS Technology Company	Developed embedded AI Device
Aquabyte	Norway	Software Company	$25M Series B funding
REELDATA	Canada	Software Company	$8M USD Series A Round Funding

8. WE HOLD A COMPETITIVE ADVANTAGE

RAS:AI has a number of advantages that allow us to compete fully with existing players in the aquaculture AI space:

1.	Team of aquaculture RAS & AI experts
2.	Beta sites lined up for implementation of commercial solution
3.	Access to large network of potential clients
4.	Unique technology approach, using datalake instead of embedded solution
5.	AllCloud as Webservices Partner, an Amazon AWS premium partner

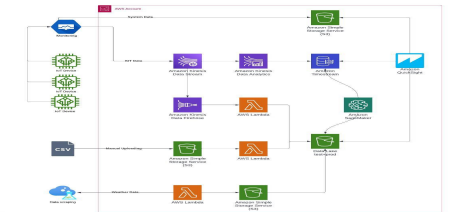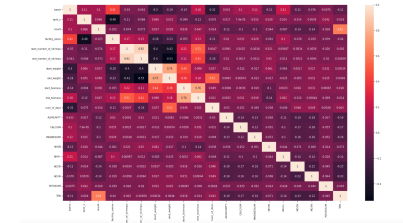# 9. OUR TRACTION TO DATE: PROGRESS ON A NUMBER OF FRONTS

RAS & AI team in-place

- Team of experienced **RAS, AI & Biz Dev** already in-place
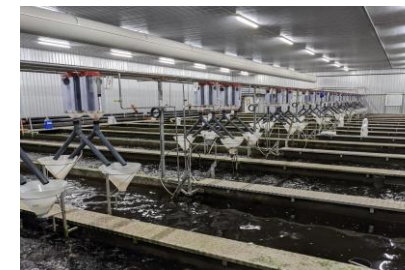- Partnerships with **external RAS companies**

POC Concluded successfully

- **POC concluded** to test the viability of AI for the RAS space
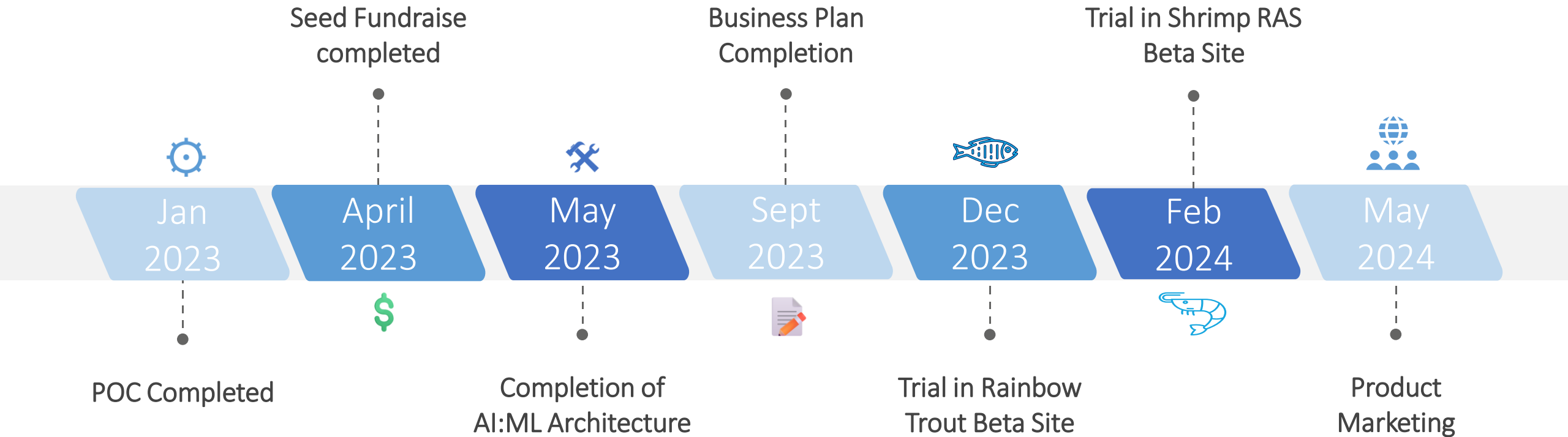- **Architecture & process in place** for building a commercial AI product

BETA Sites lined up

- **Operational, large-scale RAS** sites lined up for Beta testing
- **Negotiations ongoing** for exclusive use for Beta development

10. TIMELINE FOR THE COMPLETE AI:ML SOLUTION

Seed Fundraise
completed

Business Plan
Completion

Trial in Shrimp RAS
Beta Site

| Jan 2023 | April 2023 | May 2023 | Sept 2023 | Dec 2023 | Feb 2024 | May 2024 |

POC Completed

Completion of
AI:ML Architecture
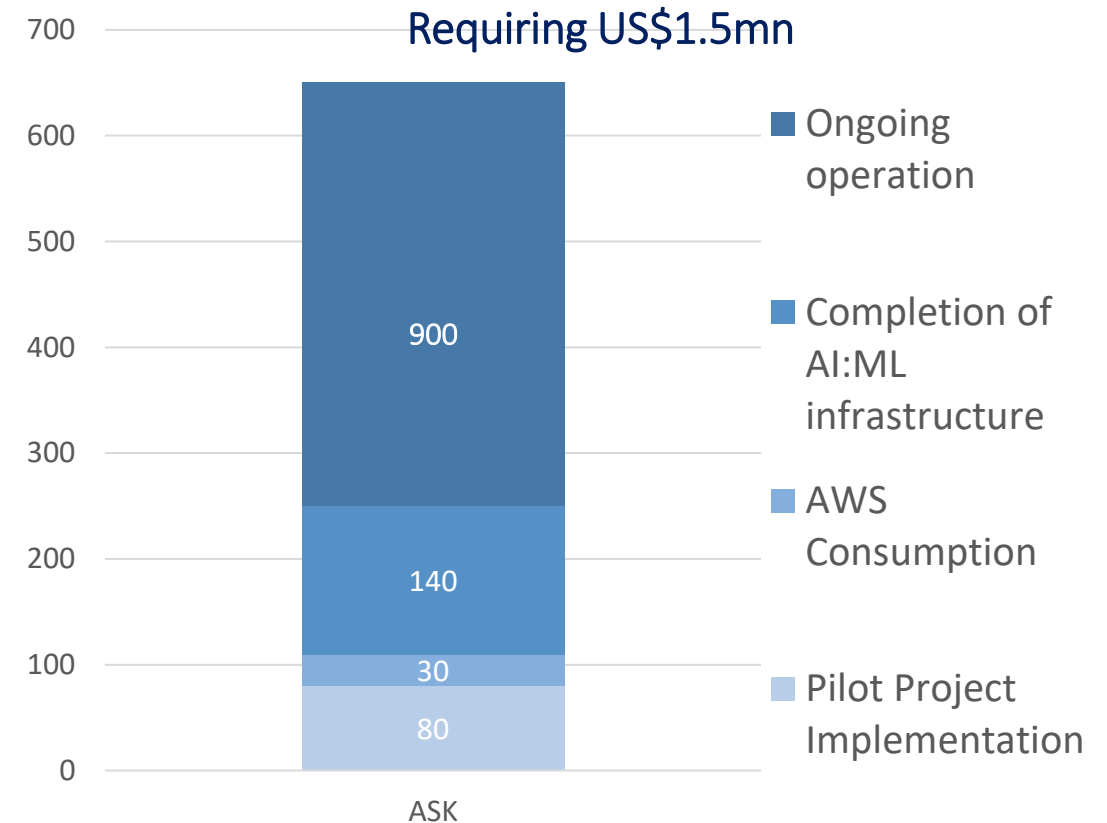
Trial in Rainbow
Trout Beta Site

Product
Marketing

Seed Raise: US$1.5 mn

Aim: To complete the AI product architecture, test at Beta Sites, and begin marketing a commercial product

1. Ongoing operation (for two-years) US$900k:
- Team salaries (including in-house AI experts)
- Exhibition, conferences
- Marketing of solution to third-party clients

2. Completion of AI:ML Infrastructure– US$140k

3. Amazon Web Services Consumption – US$60k

4. Implementation of full pilots with RAS partners - US80k

Requiring US$1.5mn

Chart (stacked bar, "ASK"):
- Ongoing operation: 900
- Completion of AI:ML infrastructure: 140
- AWS Consumption: 30
- Pilot Project Implementation: 80

Legend:
- Ongoing operation
- Completion of AI:ML infrastructure
- AWS Consumption
- Pilot Project Implementation

RAS:AI

12. Founder

AMIT FISCHER

An accomplished entrepreneur in the Aquaculture industry and an expert in Recirculating Aquaculture Systems (RAS), I possess a unique understanding of how technology and biology intersect to achieve optimal production in RAS settings. Furthermore, my extensive knowledge of RAS project financial models enables me to deliver successful outcomes.

With a decade of experience in Ag-Tech domain, I have a proven track record of building strong relationships with stakeholders, driving significant change, and lead multi-disciplinary operations

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RAS:AI

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APPENDIX 1: POC CORRELATION AND DECISION TREE

Our POC was based on five years of detailed data from an operational shrimp RAS facility

Using a Decision Tree model, we have been able to navigate unique use cases between branches for both prediction and implementation

The POC was implemented using AWS SageMaker, providing a robust and scalable platform for machine learning

Our decision tree model has demonstrated promising results and can be further refined and deployed to drive value
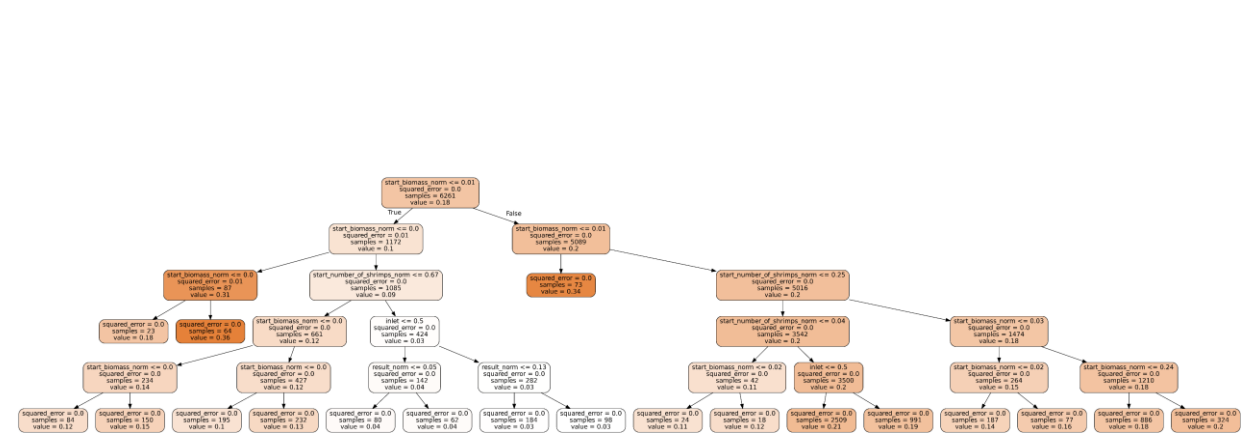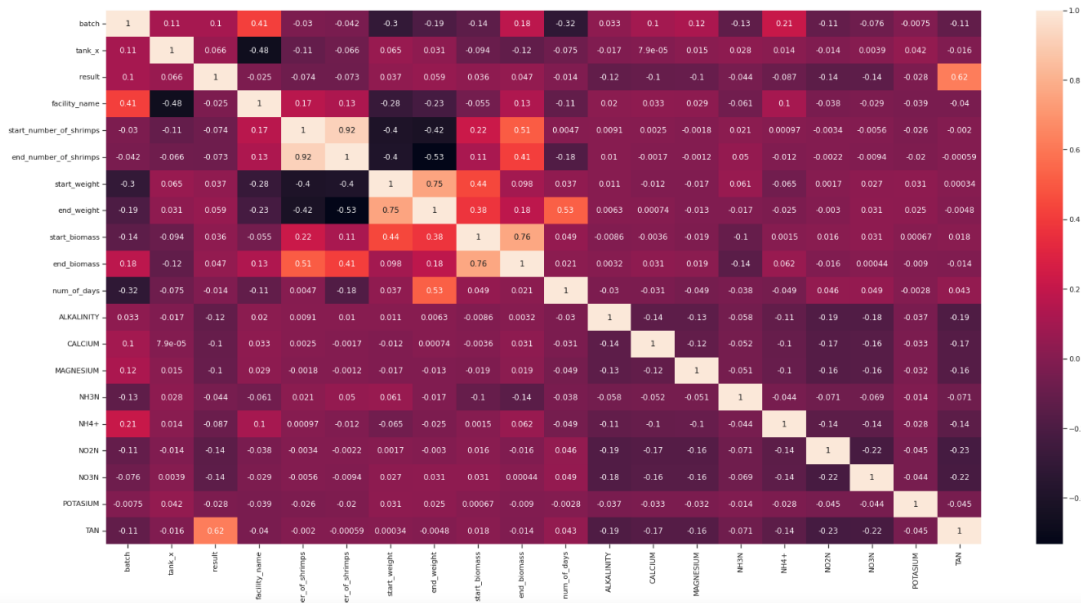
APPENDIX 2: SOLUTION ARCHITECTURE

Our AI product architecture enables the implementation of multiple use cases from our product backlog using cloud-based tools, such as AWS

This flexible architecture empowers our team to rapidly adapt to changing market needs and efficiently deliver value to our customers