

Fish Farming

Augmented Capabilities with Al

Fish Farming

Stakeholder K

What's the problem

Key Performance Indicator

The Stakeholder

Data Acquisition

Outdated OTS

Feed Costs [KPI]

What's the problem?

Water Quality

Feed Quality

Fish Growth

OS&Data

Water Temperature

pH H2S Salinity

Bacteria Biomass

Growth Monitoring

Spinal and Cardiovascular Development

Augmented Capabilities I

Feeding Efficiency

Biomass Estimation

Growth Tracking

Augmented Capabilities II

Early Detection of Deseases

Environmental Monitoring

Water Quality

OTs and Autonomous Robots

Heuristics Models & Pattern Finding

Temporal Information

Feed Quality

Biomass Prediction

(IoTs Data Water Quality Analysis Time Domain)

Average Daily Growth
(ADG) Feed Conversion
Ratio (FCR) Probiotic Regime

Fish Growth Health and Welfare

Fish Behaviour (Image and IoTs Data Analysis)

Fish Size,
Shape, and Position

Abnormal Appearance

Key Core Techs

Image Analysis (CNNs)

Sequential Data (LSTMs) Temporal Information

Pattern Finding (DNNs)

Key Core IoTs

Cameras. & Acoustics

Iot Sensors

Robotics Swarm

Digital

WINS

Monitoring

Optimisation and Simulation

Game On!

What's

Next?

Evaluate the quality of the Data

Evaluate the quality of the IOTS

Find the COSt functions that solves the problems

Go Eor it!