



MONITORFISH

INTELLIGENT FISH WELFARE MONITORING

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ABOUT US

Biotechnology Innovation-Startup

Funded by Berlin Government

IoT-System & fish welfare-diagnostic

Rated as Future Top-10 Global AgroTech startup by FAC in 2018

Prototype Tested. Fraunhofer IGD support



CHALLENGE

IN AQUACULTURE, FISH FARMING COMPANIES LOSS UP TO 40% OF THEIR REVENUE DUE TO LACK OF KNOWLEDGE-BASED MONITORING

A TYPICAL COMPANY WITH 100TN OUTPUT CAPACITY CAN LOSE IT'S TOTAL INVESTMENT OF € 400.000



MANUAL FISH DIGNOSES

THE FISH FAMERS SPEND 3.5HRS
PER DAILY WORKING TIME

COMPLEX QUESTIONS
LOW INFORMATION OFTEN LEADS
TO FAULTY DECISION MAKING



TEAM

Chaitanya Dhumasker, M.Sc.
CEO & CO-FOUNDER



Industry 4.0, water management

Dominik Ewald, M.Sc.
CTO & CO-FOUNDER



Biotechnologist and animal welfare
expert

PARTNERS



AI-based FISH HEALTH ANALYSIS

Increased Productivity

Knowledge-based quick action allows maintaining optimum fish conditions leading to fish output per m3 area.

Reduced Financial Risks

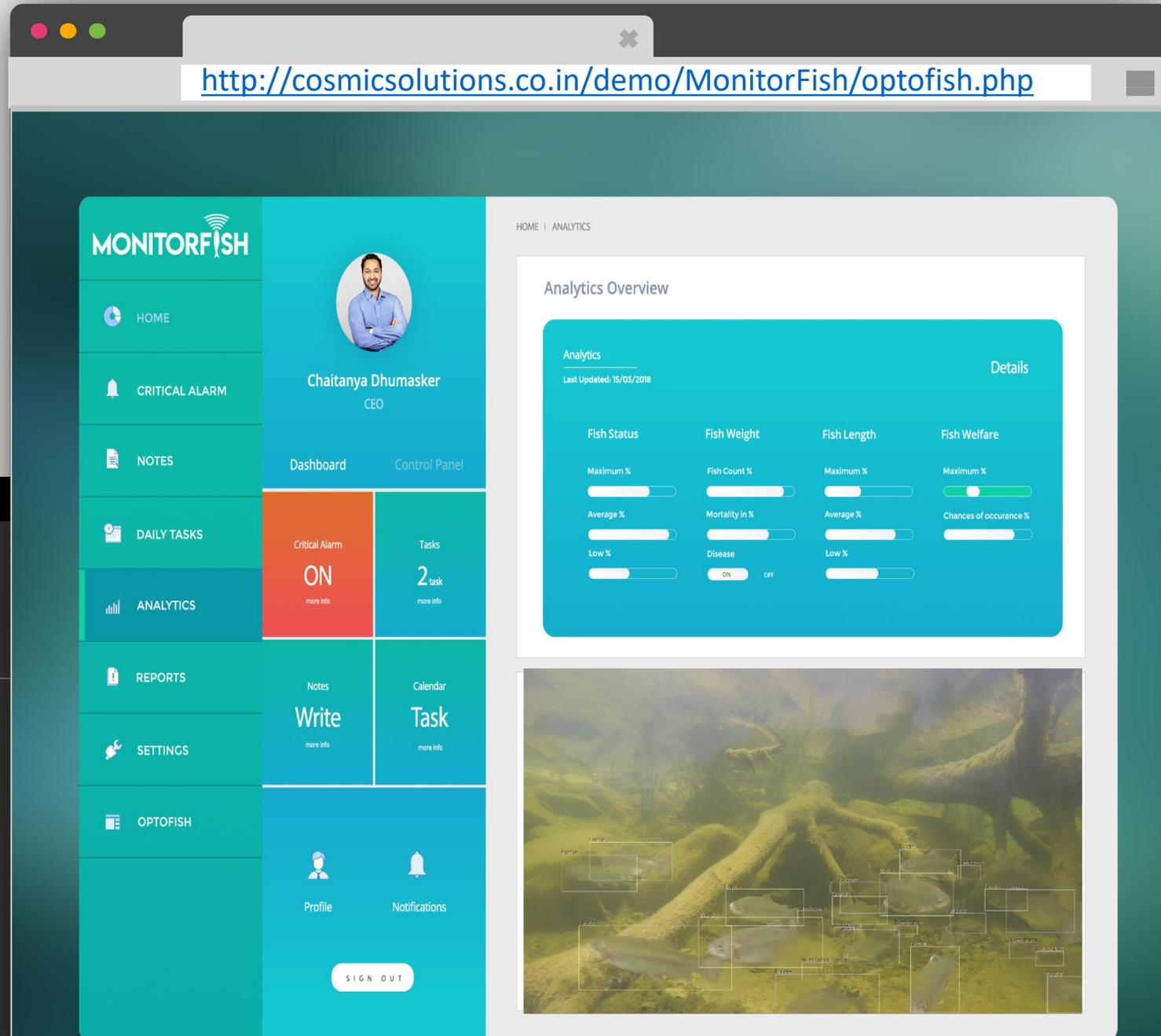
Intelligent monitoring avoids catastrophic loss of fish common in aquaculture.

Precision in farm operations

Optimized feed and fertilizers reduce the environmental impact of aquaculture



IoT enabled
Fish
diagnostic
tool



MONITORFISH

HOME | ANALYTICS

Analytics Overview

Analytics
Last Updated: 15/03/2018

Fish Status	Fish Weight	Fish Length	Fish Welfare
Maximum % Average % Low %	Fish Count % Mortality In % Disease	Maximum % Average % Low %	Maximum % Chances of occurrence %
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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	ON OFF		

Profile Notifications

SIGN OUT

Precise feeding
and fish health
conditions

Fish mass
estimation

Fish Phenotype

Optical Detection

PILOT PROJECT



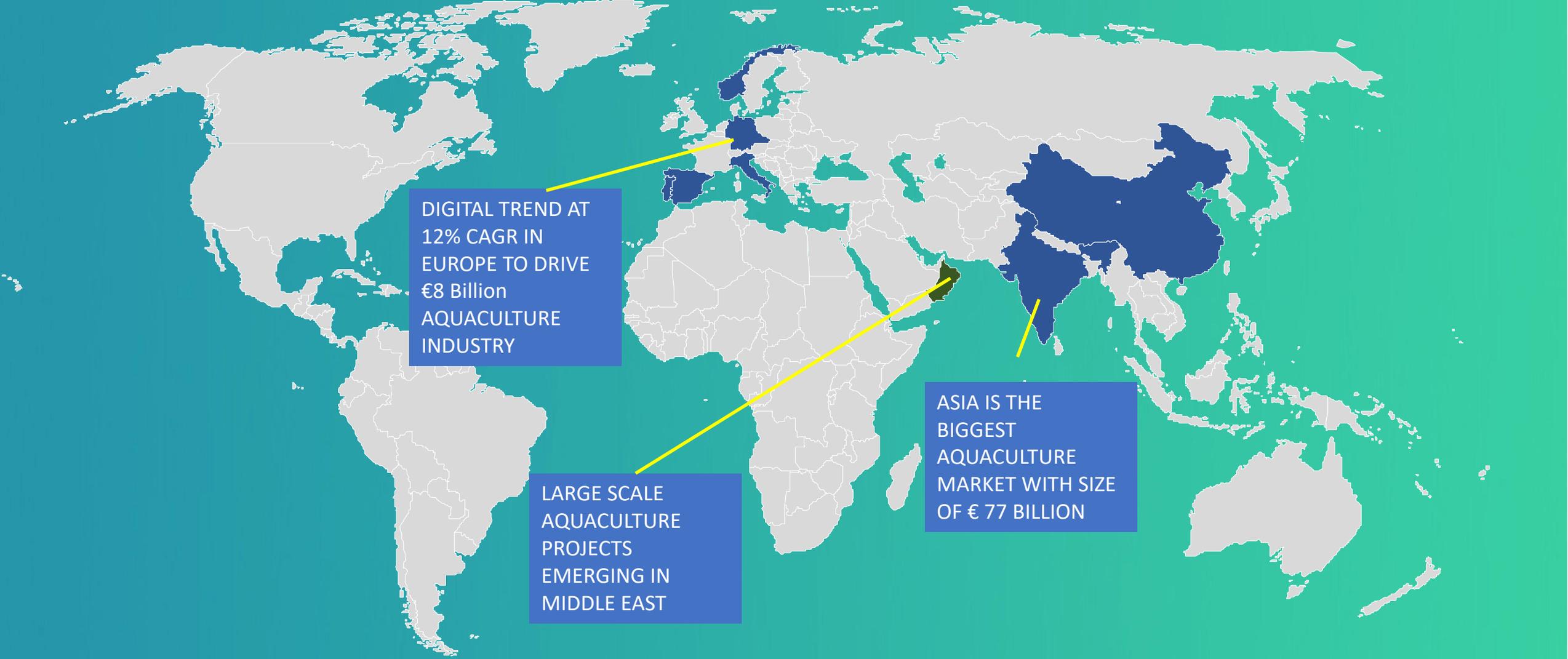
Pilot installation at Wilhelm Farm

PROJECT SUMMARY

LOCATION= Eberswald, Germany
FISH TYPE : MARAENE (WHITE FISH)
3 PONDS RECIRCULATION SYSTEM
CURRENT OUTPUT = 20 Kg/m³

TECHNOLOGY BENEFITS

EXPECTED SYSTEM STABILITY AT
60Kg/m³
POSSIBLE FINANCIAL GAIN =720€ /m³



DIGITAL TREND AT 12% CAGR IN EUROPE TO DRIVE €8 Billion AQUACULTURE INDUSTRY

LARGE SCALE AQUACULTURE PROJECTS EMERGING IN MIDDLE EAST

ASIA IS THE BIGGEST AQUACULTURE MARKET WITH SIZE OF € 77 BILLION

BY YEAR 2030,
60% of Global fish supply from Aquaculture

Roland Berger , 2015
European Commission- Fisheries, 2017
Fishstat,FAO, 2017
Directorate General for internal policy, Fishery,2017

OUR VISION

**To be the leading company in Marine Animal
Welfare and Sustainability**

MONITORFISH

INTELLIGENT FISH WELFARE MONITORING

www.monitorfish.com

Contact: info@monitorfish.com



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Europäischer Sozialfonds



Senatsverwaltung
für Wirtschaft, Energie
und Betriebe



Fraunhofer
VENTURE