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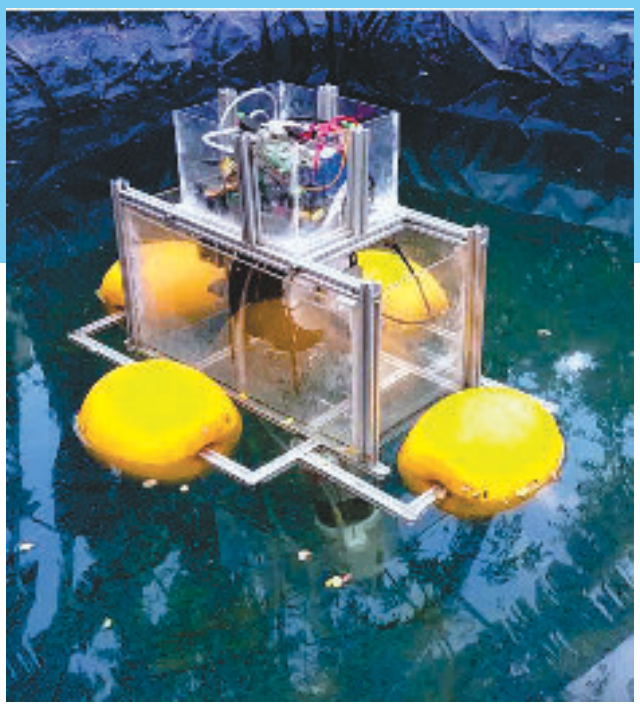
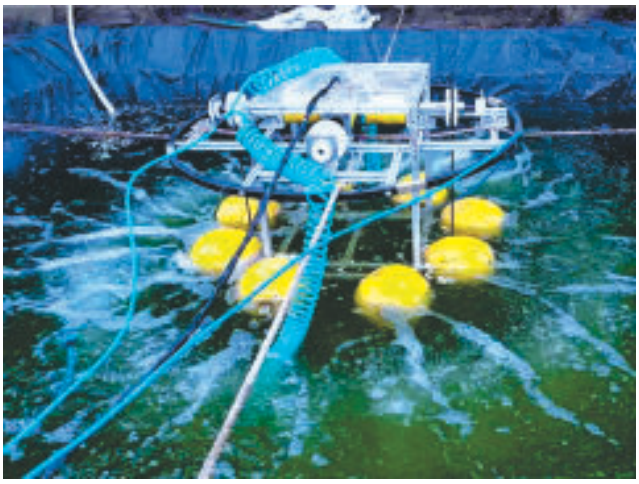
Bariflolabs™

BREAKING THE BARRIER

OUR VISION





Aspire to be market leader in water body management in the direction of aquafarming by Focusing on employment genereation & creation of wealth by leveraging developed technology utilising surface water reserve.

Mission is about people

Develop sustainanble technology and processes for aquaculture farming by solving critical water issues and disease issues which will benifit traditional to institutional farming.

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MESSAGE FROM THE CEO

Dr. Mrityunjay Sahu

CEO

Mission is about people, not projects

My vision is to develop effective, affordable and sustainable solutions; for rejuvenation and maintenance of agricultural, aquacultural, wastewater treatment and drinking water bodies, and it's associated systems; reversing collateral damages resulting from anthropogenic activities in co-ordination with AI,IoT and robotics

ABOUT COMPANY

Bariflo Labs is an industry 4.0 compliant startup has developed waterbody management system based on Fluid dynamics, IOT, robotics, AI for aqua-farm management, urban water-body man--agement. We offer technological solution for aquafarmers,co-operatives,villages,communities, cities & industries at avariety of scales.Currently We have a presence in Odisha, Tamil Nadu and Telangana.

TEAM

Domain expert team of enthusiast professionals

SOLUTION

Offers turnkey solutions

R&D

Ground breaking research in multi disciplinary

HOW WE WORK ?

01 We, at Bariflo Labs, are solving the water quality degradation of lakes, reservoirs and aquafarmers by developing a profitable socio- technological business model in the form of vertical agriculture on top of water surface and aquaculture within waterbody.

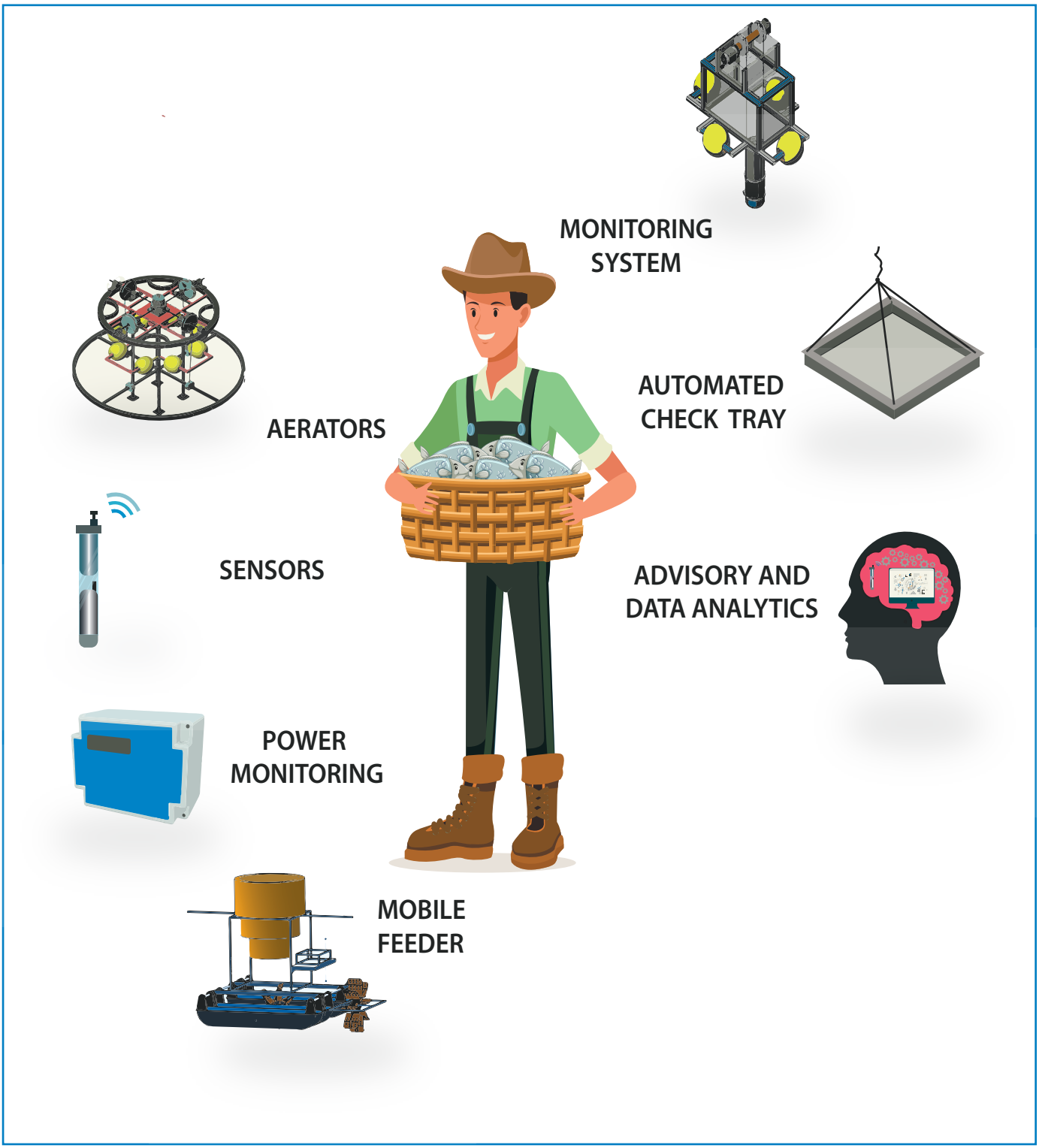
02 Implementing robotic technology developed using the concept of environmental hydraulics, Ai, IoT and upgrading traditional methods.

Also during the harvesting process we will be generating carbon and water security credits to offset by selling it to carbon rich industry and incentivizing the marginal farmers through our block-chain data framework.

VERTICLES

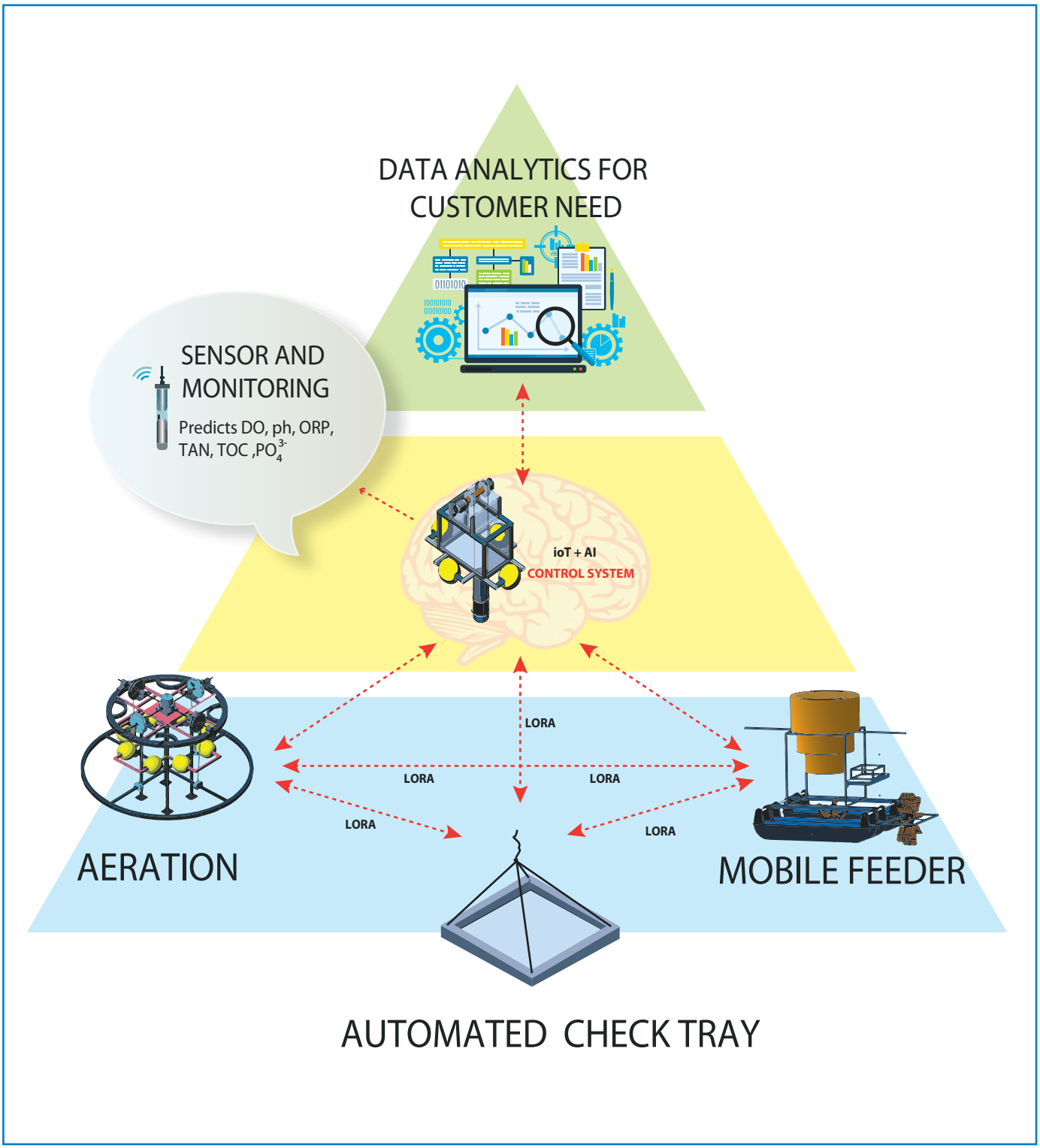
AQUAFARMING	URBAN WATERBODY MANAGEMENT

AQUAFARMING

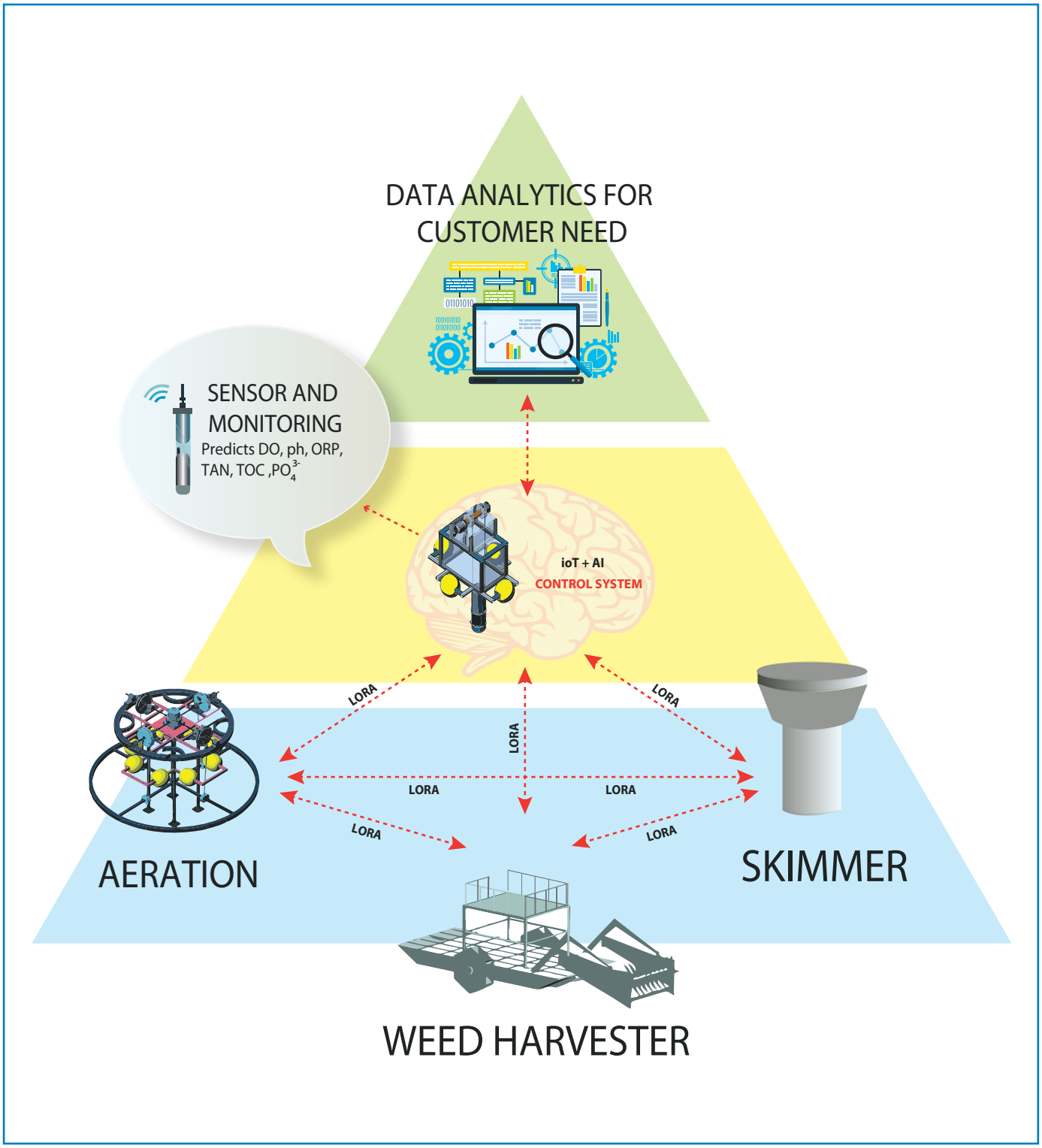


URBAN WATERBODY MANAGEMENT

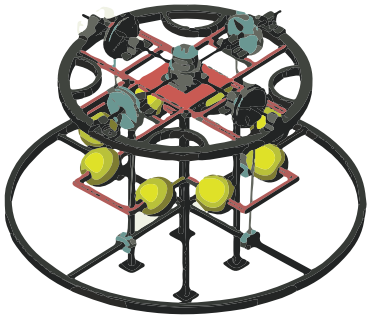
AQUAFARMING



URBAN WATERBODY MANAGEMENT



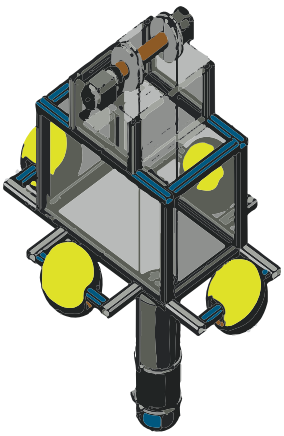
PRODUCTS



AERATION SYSTEM

Our patented sediment aeration device diffuses air at the sediment level where the majority of waste and aquatic species shelter and helps maintaining dissolved oxygen at sediment oxygen boundary layer.

- Intelligent sediment aeration
- Energy cost saving by 50%
- Capital cost reduction by 25%
- Growth by 10%
- Climate driven aeration
- Remote operation through cell phone dashboard
- Warranty of 3years



MONITERING SYSTEM

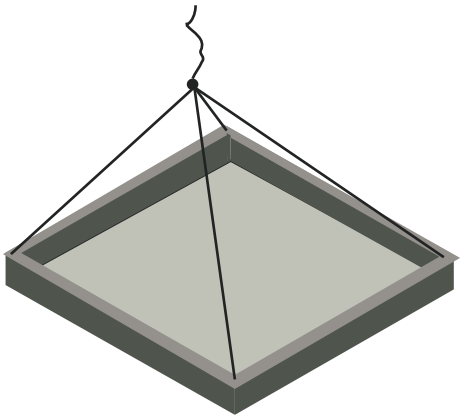
Our cost effective AI based monitoring device will provide data at various places across the waterbody to present practical problems, which existing technologies are devoid of.

- Remote operation through cell phone dashboard
- Predicts DO, pH, ORP, unionized Ammonia,Phosphate
- Remote operation and Analytics
- Modular and easily transportable
- Warranty of 2 years

PRODUCTS

SMART CHECK TRAY

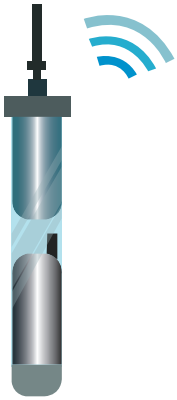
The paramount objective in feed monitoring is to adjust the daily feed ratio as close as possible to the actual requirement. To date, the most effective and practical approach to feed monitoring is with the use of the feed monitoring tray.



- Growth frequently improved
- Improved water quality
- Greater yeild
- Per unit feed cost reduced
- Reduced enviromental pollution

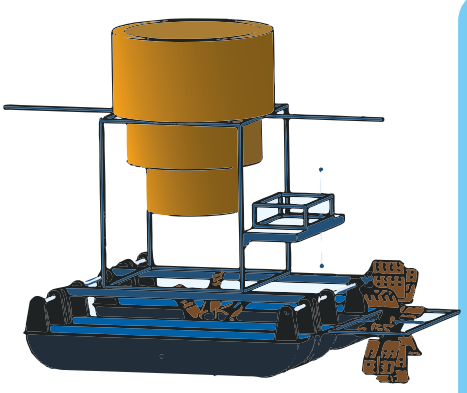
INHOUSE SENSOR

Sensors used in smart farming are known as agriculture sensors. These sensors provide data which assist farmers to monitor and optimize crops by adapting to changes in the environmental conditions.



- Minimise Maintenance and downtime
- Built to Last
- Increasing Reliability and Efficiency
- Tracks current and weather

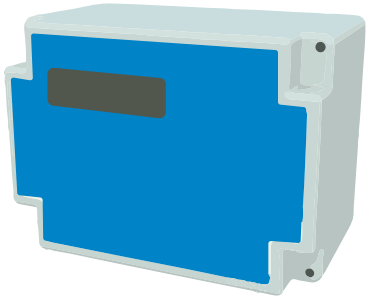
PRODUCTS



MOBILE FEEDER

The feed distribu-tion mechanism is the main component in an automatic feeder and distinguishes it from a feed dispenser. The feeders are fixed in a rack on the tank or on the cage,but may also be included in a buoy.

- Ease of Maintainance
- Even Spread of Feed
- Manage Feeder through Mobile App
- Daily Feed Reports
- Monitor attentiveness of supervision



POWER MONITERING

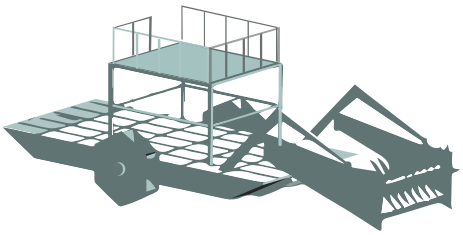
Studying power measurements allows teams to observe equipment performance, discover electrical problems, assess how an asset is consuming power, and even if assets are on or off.

- Ensure Avaibility
- Improve Efficiency
- Cover total cost of ownership
- Optimize and plan for capacity

PRODUCTS

MOBILE WEED HARVESTER

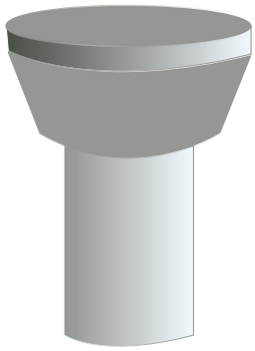
An aquatic weed harvester, is an aquatic machine specifically designed for inland watercourse management to cut and harvest underwater weeds, reeds and other aquatic plant life. The action of removing aquatic plant life in such a manner has been referred to as "aquatic harvesting



- Dual Impact Protection
- Improved water quality
- Releases healthy nutrients
- Eco Friendly

SKIMMER

Skimmer provides users with at-a-glance information on technician locations, start and finish times, daily routes, and service stop details.



- Reduction of Disposal Costs
- Recycling Opportunities
- Hygienic Benefits
- Extend Tool Life

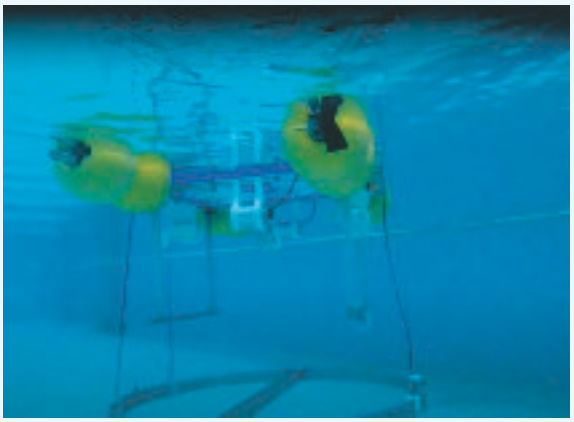
CASE STUDIES

NAME / PLACE OF DEPOYMENT	TYPE OF SECTOR
Chennai	Shrimp Farming

DURATION	(Oct,2019-Mar,2020) 6 Months

ENVIROMENTAL IMPACT	SOCIAL IMPACT
(I) Reduction of carbon by 50%. (II) Energy reduction by 50%	(I) Growth of carps by 10% (II) increase in income by 25%

DEVICE



CIBA

CASE STUDIES

NAME / PLACE OF DEPOYMENT	TYPE OF SECTOR
Nagapattinam, Tmilnadu	Shrimp Farming

DURATION	(Nov,2019-Feb,2020) 4 Months

ENVIROMENTAL IMPACT	SOCIAL IMPACT
(I) Reduction of carbon by 50% (II) Energy reduction by 50% (III) Maintains DO of constant 3.5 to 4.5 ppm	(I) Growth of carps by 10% (II) increase in income by 25%

DEVICE

CASE STUDIES

NAME / PLACE OF DEPOYMENT	TYPE OF SECTOR
Ramchandi , Andhra Pradesh	Shrimp Farming

DURATION	(Dec,2021-Mar,2022) 4 Months

ENVIROMENTAL IMPACT	SOCIAL IMPACT
(I) Reduction of carbon by 50% (II) Energy reduction by 50% (III) Maintains DO of constant 3.5 to 4.5 ppm	(I) Growth of carps by 20% (II) increase in income by 25%

DEVICE

CASE STUDIES

NAME / PLACE OF DEPOYMENT	TYPE OF SECTOR
Bhimavaram, Andhra Pradesh	Shrimp Farming

DURATION (Dec,2021-Mar,2022) 4 Months

ENVIROMENTAL IMPACT

(I) Reduction of carbon by 50%

(II) Energy reduction by 50%

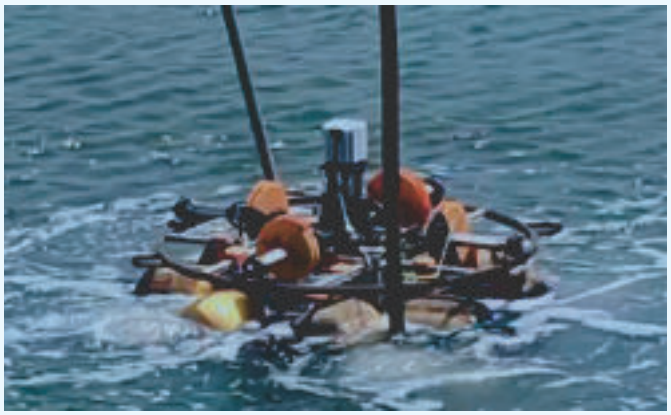
(III) Maintains DO of constant 3.5 to 4.5 ppm

SOCIAL IMPACT

(I) Growth of carps by 10%

(II) increase in income by 25%

DEVICE



CASE STUDIES

NAME / PLACE OF DEPOYMENT	TYPE OF SECTOR
Barbil,Odisha	Livelihood

DURATION	(Oct 2022 - Oct 2024)24 Months

ENVIROMENTAL IMPACT	SOCIAL IMPACT
(I) Reduction of carbon by 50% (II) Energy reduction by 50% (III) Maintains DO of constant 3.5 to 4.5 ppm	(I) Growth of carps by 20% (II) increase in income by 25%

DEVICE

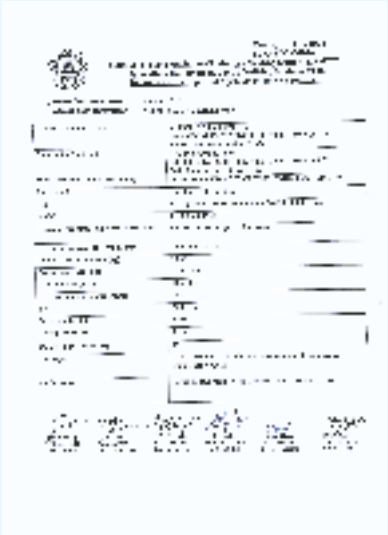
CASE STUDIES

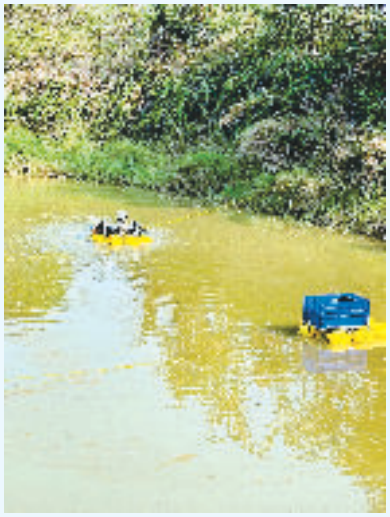
NAME / PLACE OF DEPOYMENT	TYPE OF SECTOR
Bhubaneswar	Shrimp Farming

DURATION	(Jan,2022-Mar,2022) 3 Months

ENVIROMENTAL IMPACT	SOCIAL IMPACT
(I) Reduction of carbon by 50%. (II) Energy reduction by 50%	(I) Growth of carps by 10% (II) increase in income by 25%

DEVICE





MENTOR INCUBATOR

t-hub

KIIT-TBI

CIBA

VIT
Vellore Institute of Technology
CHENNAI

dlabs
Indian School of Business

ICCW

villgro

JSW Foundation

GOVERNMENT AGENCIES

Startup Odisha

STARTUP TELANGANA

MEITY STARTUP HUB

Department of Biotechnology Government of India

Dst

TELANGANA STATE INNOVATION CELL

birac
Ignite Innovate Incubate

Ministry of Agriculture & Farmers Welfare, Government of India

Ministry of Housing and Urban Affairs
Government of India