

**Global Forum for Sustainable Transformation
Bharath Advisors & Partners LLP
& Government of Haryana**

Haryana Aquaculture Tech AI Shaping the Next Era of Governance

**Revolutionizing Aquaculture with DeepTech: Propelling 30% Growth
From Rs. 2600 Cr (2024-25) to Rs. 10,000 Cr GVA by 2030,
out of Rs. 22,000 Cr. with full potential**

Innovate and Transform: Shaping the Future of Aquaculture with Technology

@ GFST 2025

All Rights Reserved

DISCLAIMER

This work is a product of GFST's dedicated research team, enriched by contributions from external sources. The findings, interpretations, and conclusions presented here are based on rigorous analysis but may not necessarily reflect the views of GFST, its Board of Directors, CEO, or collaborating governments.

While we strive for accuracy and completeness in data verification, GFST does not guarantee the absolute precision of the survey results, referenced reports, or datasets utilized in this work. We do not accept liability for any errors, omissions, or discrepancies in the information provided. Additionally, citing external works does not imply endorsement of their authors' views.

For inquiries or further information, please contact GFST at (admin@gfst.in).

Conceptualisation: GFST Team

Photo Credits & Designs: CANVA and GFST Team

Printer: Harshitha Printers, Hyderabad



Global Forum for Sustainable Transformation
#409, 4th Floor, Shangrila Plaza, Road No.2,
Banjara Hills, Hyderabad 500034, Telangana, INDIA.
www.gfst.in

THE ECONOMIC AMBITION



Shri Nayab Singh Saini
Hon'ble Chief Minister, Haryana

If we sustain a 15% annual growth rate, Haryana can become Top State with Highest Per Capita Income \$1 trillion economy by 2038,

We are committed to inclusive growth, innovation, and sustainable development together, we will shape a Viksit Haryana.

Economy from Aquaculture can be reached to 10,000 Cr by 2030.

Towards Highest Per Capita Income State

HARYANA AQUACULTURE - IGNITING INNOVATION AT THE EDGE



**GFST Transforms
Haryana's Aquaculture
From ₹2,600 to ₹10,000
crore by 2030.**

**GLOBAL FORUM FOR
SUSTAINABLE
TRANSFORMATION**



**We Are Transforming Governance
Through Innovation, Technology,
and Impact, Under the Visionary
Leadership of
Shri Nara Chandrababu Naidu**

A multi-stakeholder think tank driving government transformation through AI, ML, Blockchain, and GovTech—aligned with Viksit Bharat 2047 and SDG goals, powered by visionary leaders, seasoned bureaucrats, and expert technocrats.

Driving Next-Gen Governance via DeepTech Collaboration

GFST AND BHARATH SUPPORTS - 45-DAY CONCLAVE SPRINT



TO CREATE A 5-YEAR ACTION PLAN FOR AQUACULTURE IN HARYANA FOLLOWED BY IMPLEMENTATION OF 5 YEAR STRATEGY

Cross-Sectoral Workshops

Map data sources and pain points for each goal

Live Dashboards

Enable real-time governance for ministers and administrators

5-Year Action Plans

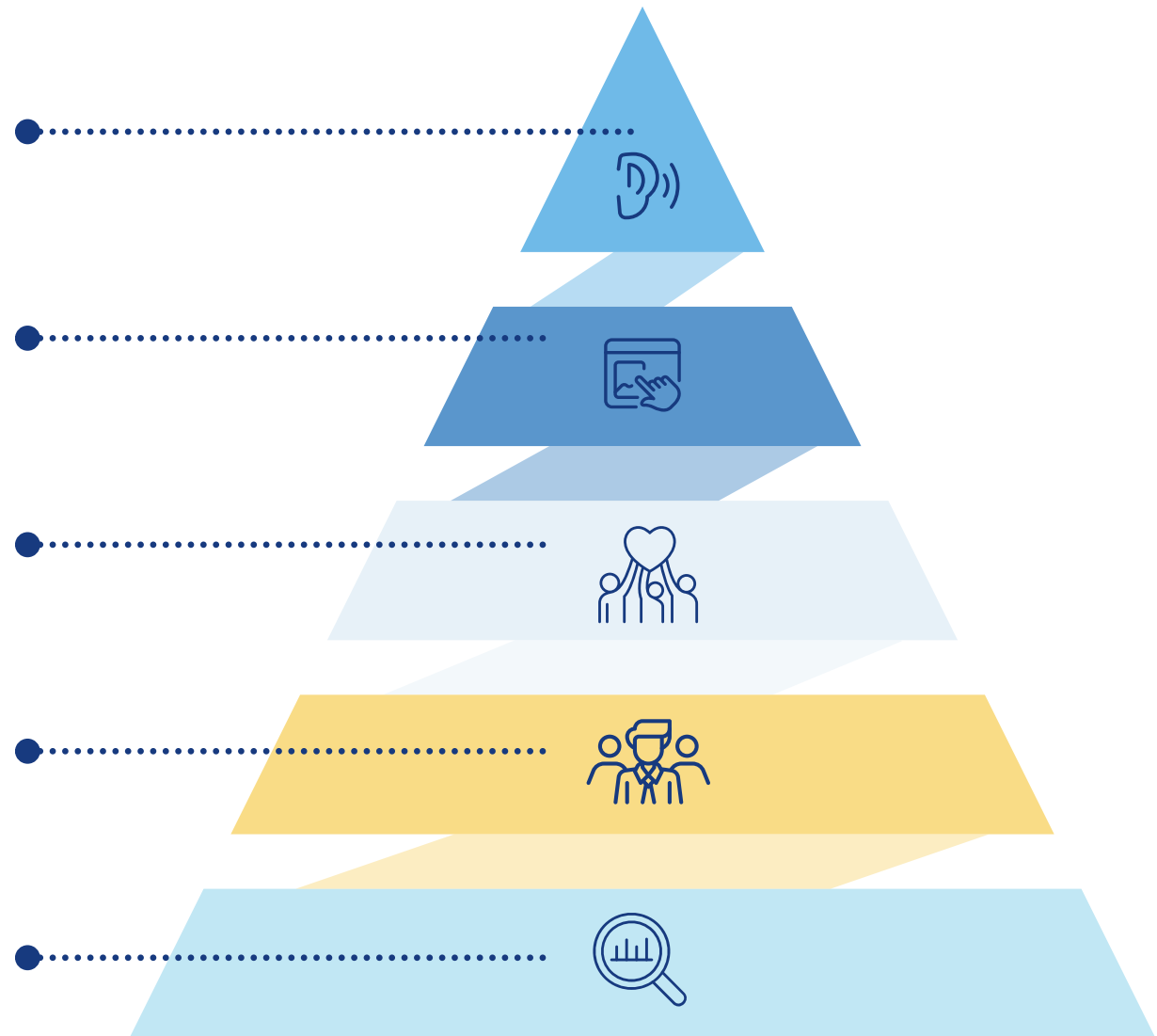
Provide actionable plans with tech support and KPI logframes

Policy & Outcome Institutionalization

Institutionalize policy and outcomes with continuous handholding

Integrated Growth Framework

Define a realistic growth framework backed by measurable success



A 45-day innovation sprint co-developing reforms with the Department's framework

HARYANA - CURRENT AQUA FARMING

KEY METRICS – 2024-25



16,000

Farmers



2.32 L MT

Fish Production



2,624 Cr

0.25% of GSDP



23,318 Ha

Area under Aquaculture



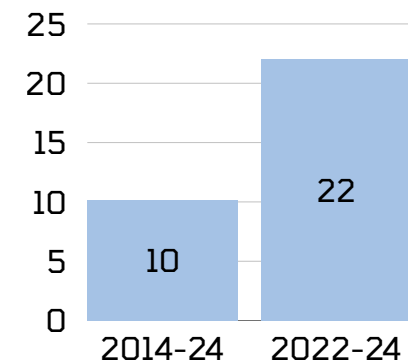
11,920

Aqua Ponds



1,45,054

Saline/Water logged area



Growth Trends

Empowering Aqua Farming: 16,000 Farmers, 2.32 Lakh MT Fish Production, 21.61% Growth

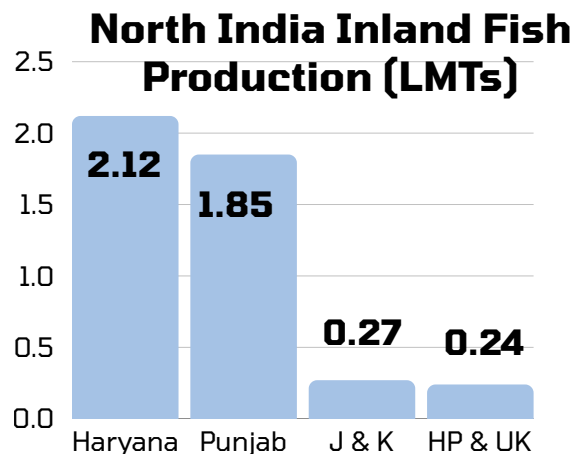
Source : Fisheries Dept, Haryana

Scaling Sustainable Aquaculture: Farmers First, Production-Led Growth and Future-Ready Haryana.

HOOKED ON SUCCESS: HARYANA'S FISH FARMING EXCELLENCE



Haryana ranks second nationally with 11,000 Kg/hectare and supports over 118,000 fishermen



2

in the average annual fish production per unit area in the Country

Source : Fisheries Dept, Haryana

Avg Annual Fish Prodn - Haryana
11000 Kg/Hectare
National Avg : 3000-5000 Kg

No. of Fisherman

1,18,455
(0.42% of population)



1,17,934
(99.56%)
Male

Fisherman Per District

5,384

300% growth in saline water aquaculture (2020-2024)



Strategic position in North India for fish and shrimp exports



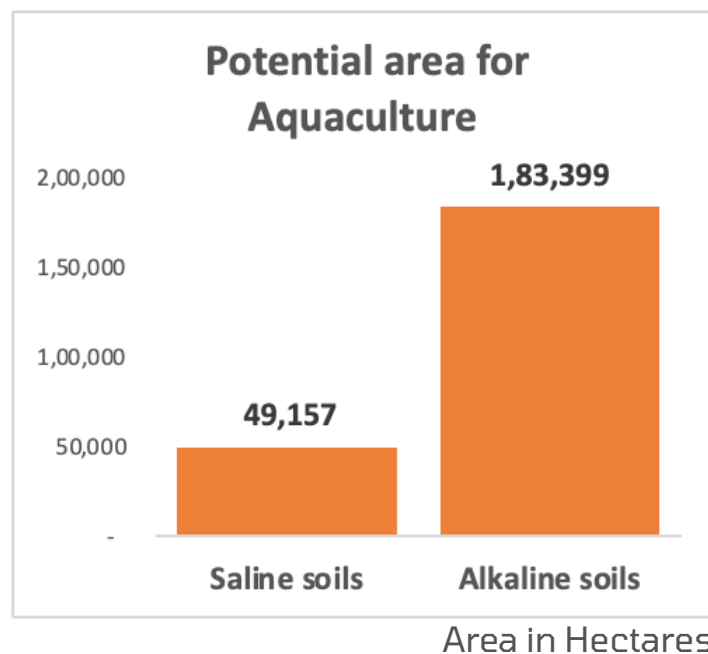
Proximity to Delhi fuels Haryana's aqua growth, with farmers harvesting live fish for higher market prices



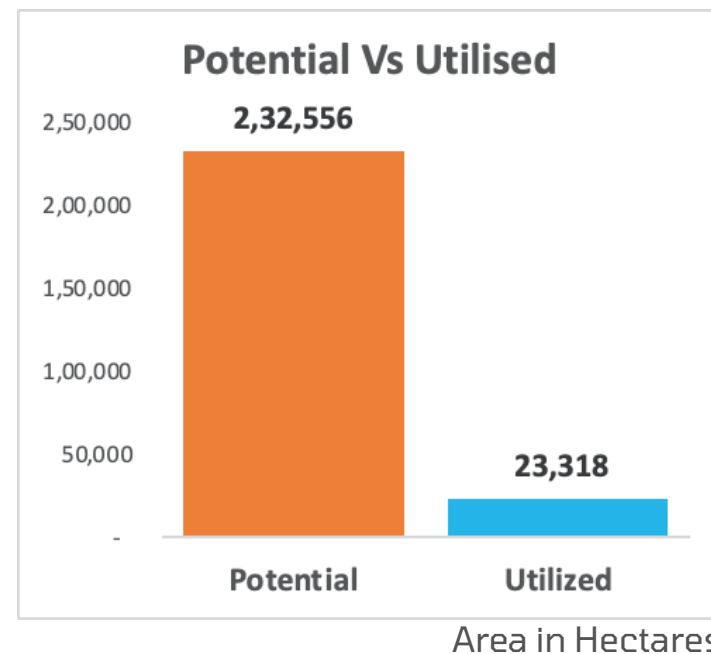
More than 80% of the village ponds in the state have been brought under fish farming

2 Lakh+ Hectares Waiting to Generate Ultimate ₹22,000 Crore GVA Opportunity

- **Untapped Land Potential: ~2.0 lakh Hectares**
- **GVA Per Hectare: Rs. 11.26 Lakhs**
- **Additional GVA Potential: ~Rs. 22,000 Crores**



Still, 90% of land is under utilised.

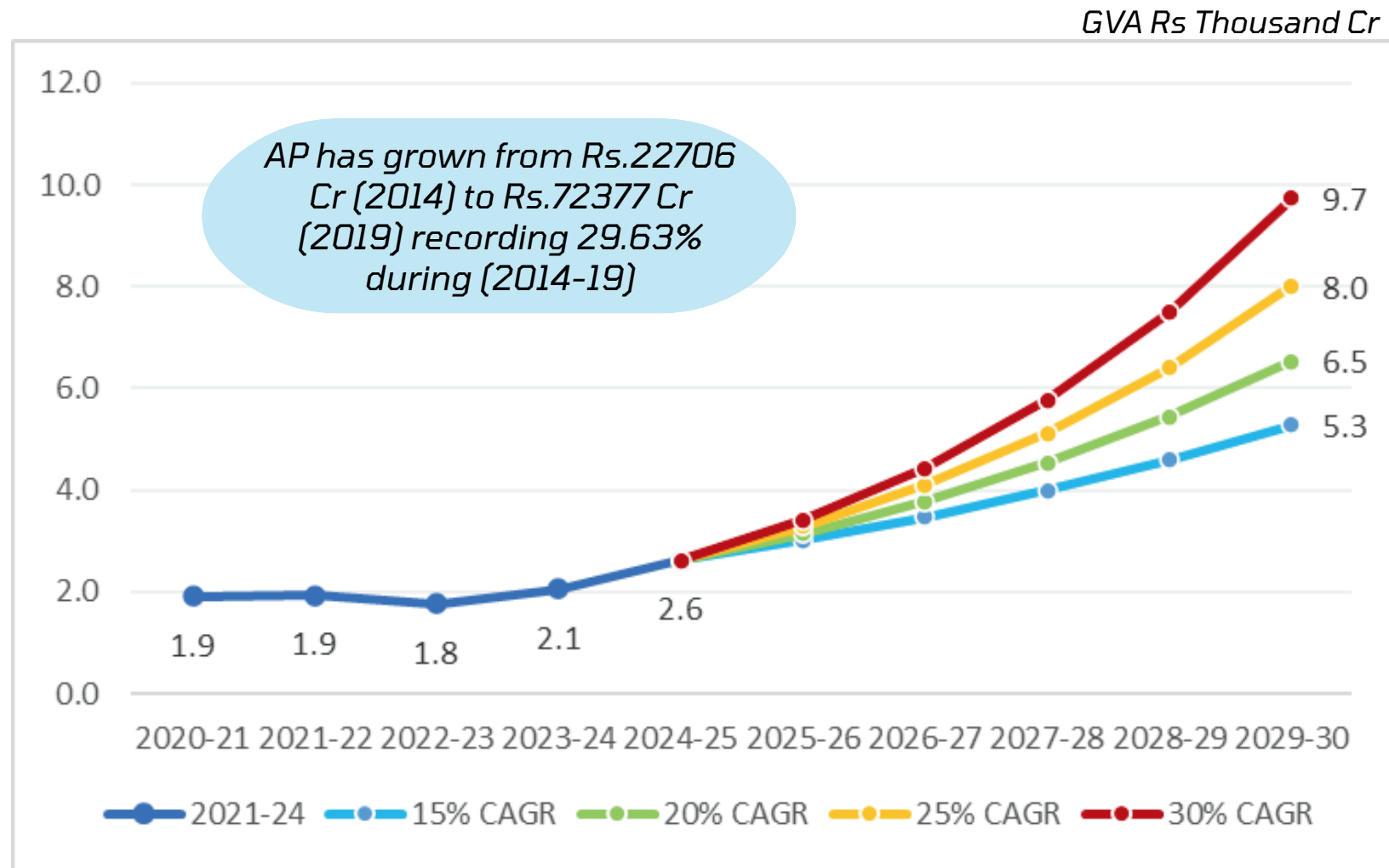


Haryana's alkaline/saline tracts—once liabilities—are now prime aquaculture assets, especially for vannamei shrimp, with growing scope for brackish finfish where salinity fits. With CIFE's ion-fortification protocols, lined infrastructure, and PMMSY support, the upside is strong for clusters in Hisar–Fatehabad–Sirsa–Rohtak belts and similar pockets.

Turning Alkaline & Saline Lands into High-Value Aquaculture Hubs

ACCELERATING AQUA GROWTH PROJECTIONS: PATHWAYS TO ₹10,000 CR BY 2029-30

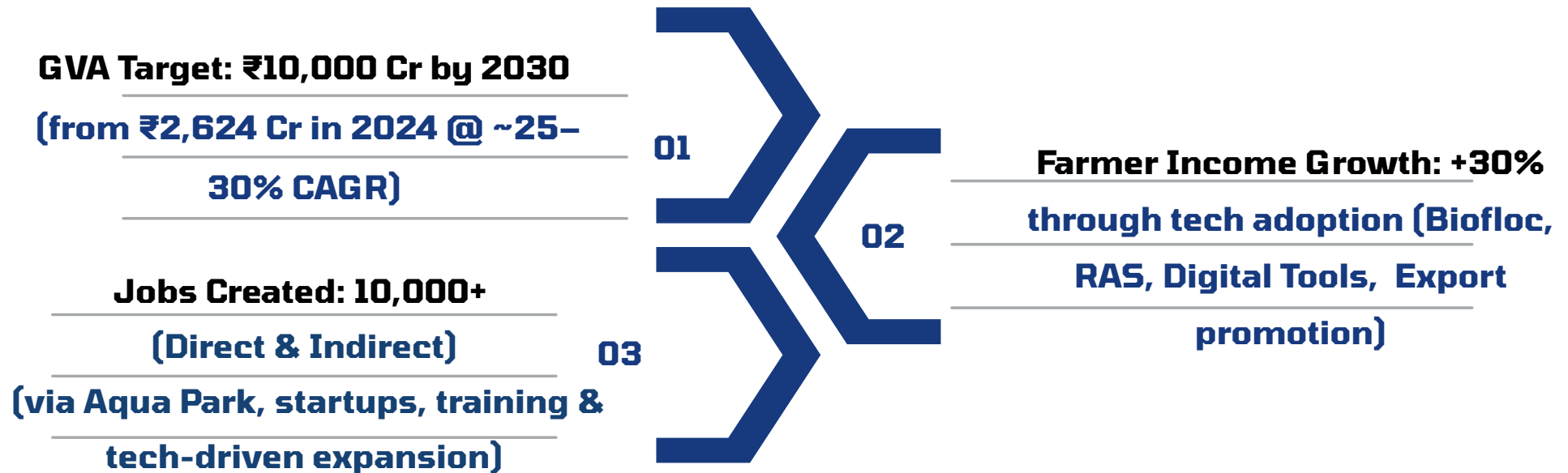
Exploring 4 Growth Models with Annual Growth Rates from 15% to 30%



Accelerating Aqua GVA: Unlocking Land. Scaling Value. Shaping the Future

Transforming 1.0 Lakh Hectares into an Economic Powerhouse

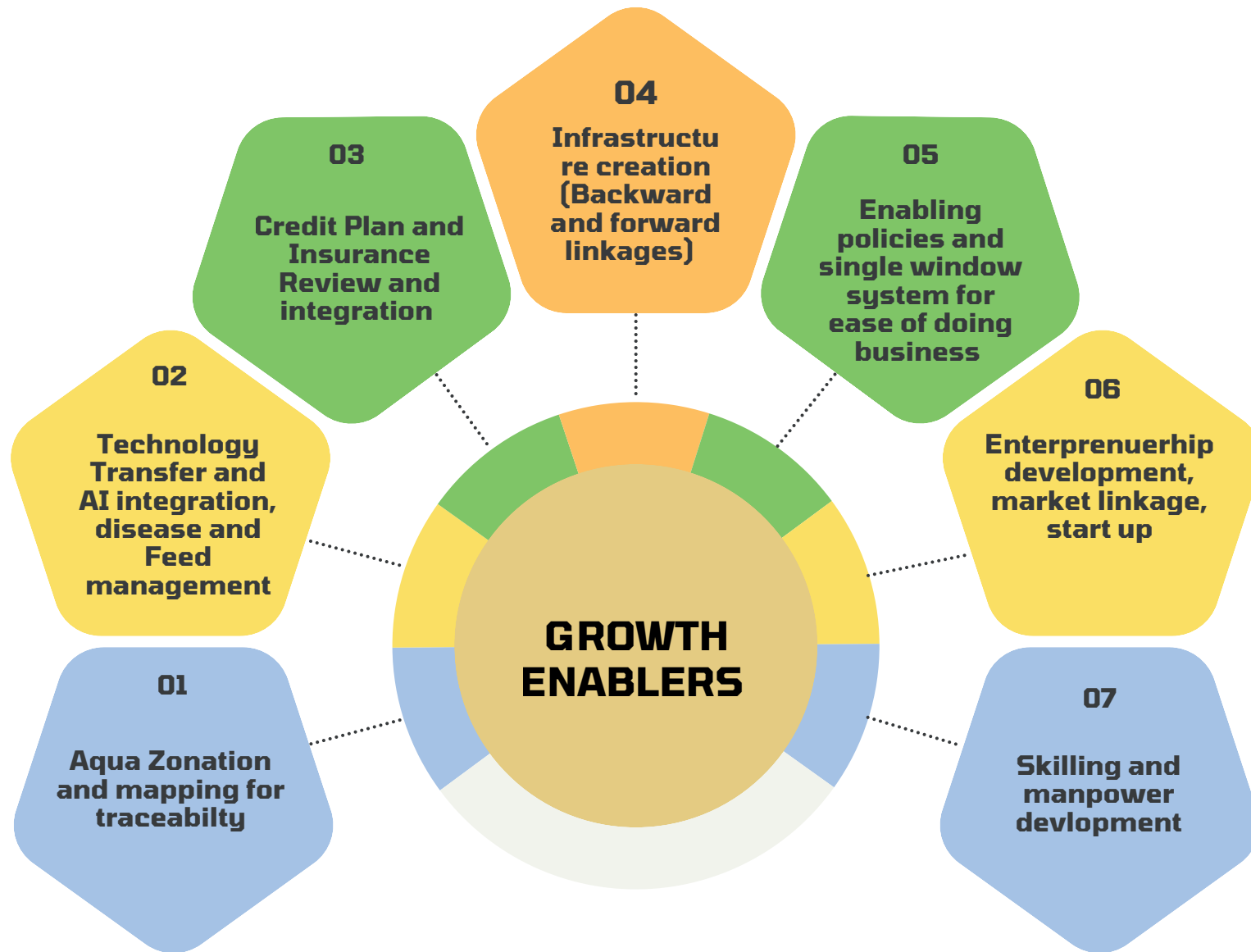
Technology-Driven Transformation | Empowering Farmers | Export Excellence



GVA Ultimate Potential: ~Rs. 25,000 Crores from Untapped Land of 2.0 lakh Hectares

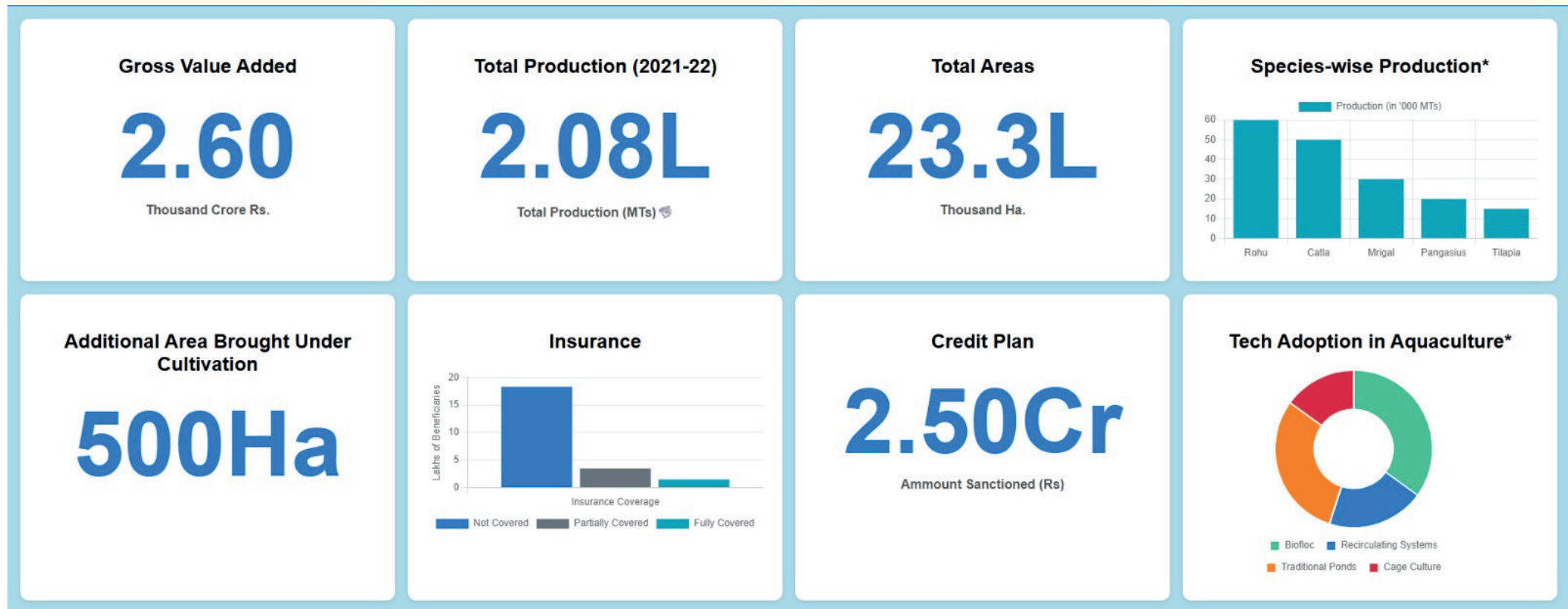
To make Haryana a leader in North India in sustainable aquaculture by leveraging DeepTech, AI, and precision farming, turning untapped saline land into an economic engine for rural prosperity.

TAPPING HARYANA'S AQUACULTURE POTENTIAL



Strategic interventions. Scalable models. Sustainable growth.

DASHBOARD WITH KPIs (PROPOSED)



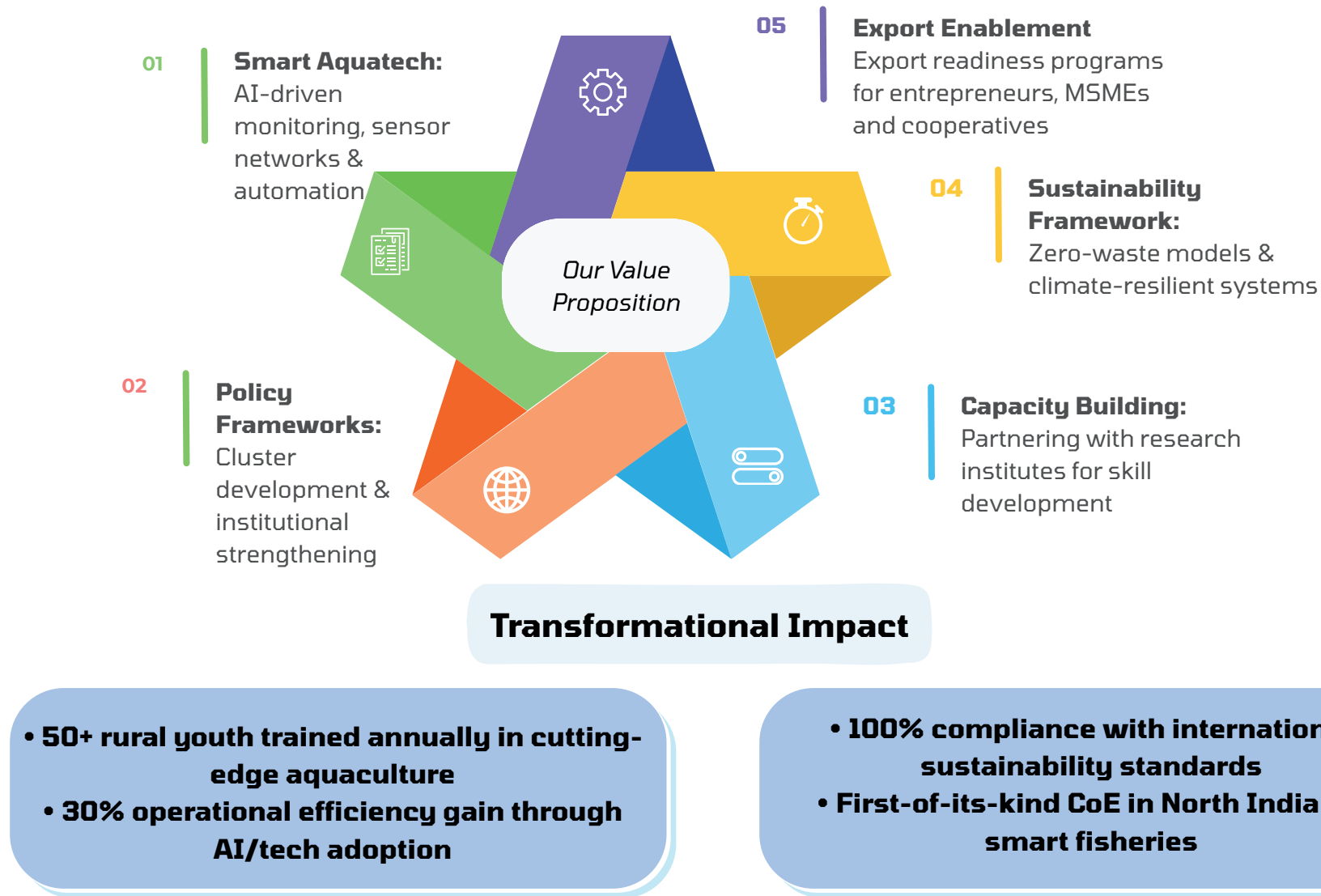
Note: Sample Dashboard with Sample Data

From Ground Reports to Ministerial Dashboards One Integrated Dashboard for Aquaculture Impact

STRATEGIC PARTNERS MAKING HISAR AQUA PARK A GLOBAL BENCHMARK



GFST & Bharat Advisors and Partners (BAP) - Creating a Center of Excellence



Building Bridges Between Technology and Tradition for Sustainable Aquaculture



ABOUT GFST AND TEAM

Meet the Team Driving the Transformation



S.P. Tucker, IAS (Retd.)
Vice Chairman & Director



Sanjay Gupta, IFS (Retd.)
Chief Executive Officer



Sridhar Seshadri
Director
Global Foresight &
Innovation



Shreeram Iyer
Director
Global Impact



Raghav Bhandari
Bharat
Advisors &
Partners LLP



Gaurav Gandhi
Bharat
Advisors &
Partners LLP

Why Haryana Aqua?

- First landlocked state to farm shrimp using underground saline water
- 11,000 Kg/Ha fish yield — double the national average
- 90+ Biofloc units, Hisar Aqua Park (₹98.9 Cr) driving innovation
- Proximity to Delhi fuels premium pricing & export potential

Haryana Strengths

- 2.32 lakh hectares of saline/alkali soils ideal for inland aquaculture
- Declared fish culture disease-free by ICAR – a rare national distinction
- 16 RAS units, 90+ Biofloc farms, and ₹98.9 Cr Hisar Aqua Park underway
- Near Delhi NCR for fast logistics, higher market prices, and export readiness

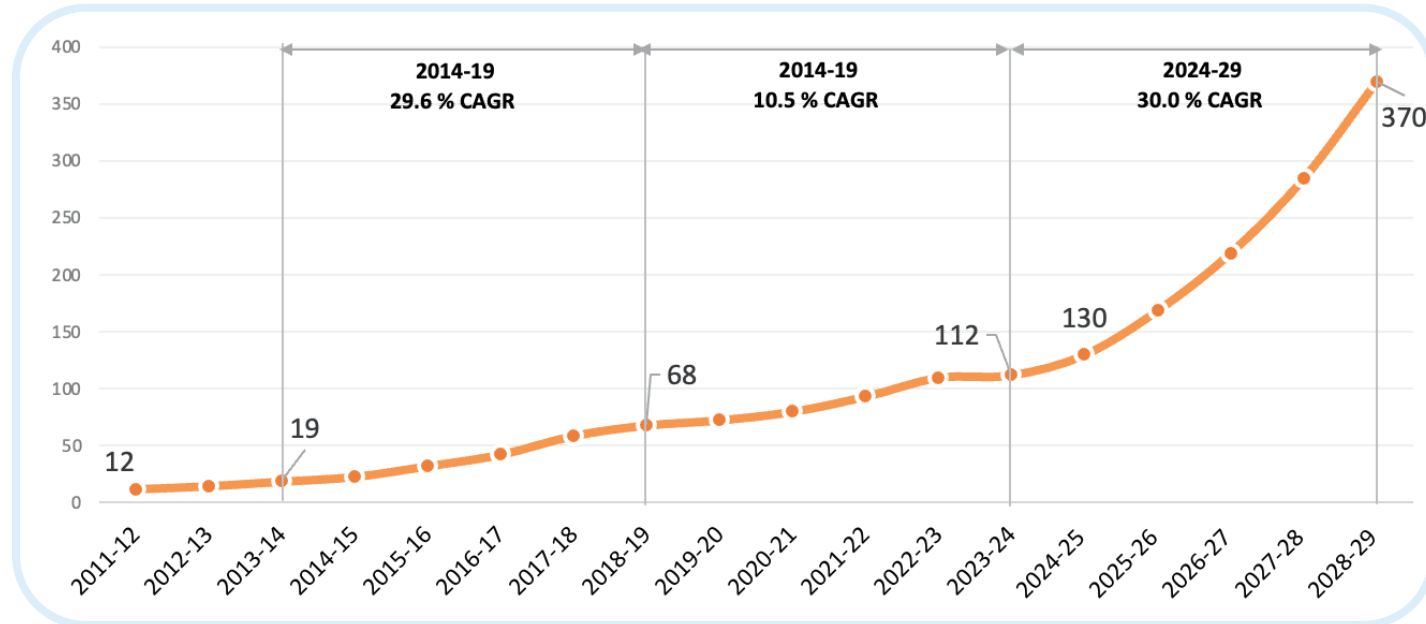
About Global Forum for Sustainable Transformation (GFST)

Accelerating Governance through Technology & Partnerships
The Global Forum for Sustainable Transformation (GFST) helps governments adopt AI, ML, Blockchain, and DeepTech to improve governance. We bring together policy experts, technologists, and administrators to deliver data-driven, inclusive, and transparent development—aligned with Viksit Bharat @2047 and global SDG goals.

Innovation, Infrastructure, and Income – Triple Edge in Aquaculture

AP Aquaculture's Evolution: Pioneering the tremendous growth

- 2015 onwards AP placed at top and moves upwards as it is (Rs. 1.3 lakh crore) double the value of 2nd place (West Bengal with Rs. 0.62 lakh crore)
- AP's expertise and robust ecosystem drive sustained growth through R&D and innovation



AP aquaculture sector took a transformative turn from 2014 onwards, tripling its output between 2014 and 2019 with an impressive 30% CAGR. The state adopted a mission-mode approach under the leadership of Sri S.P. Tucker, IAS (Retd.), allocating three times the previous budget, introducing a dedicated Aqua Policy, and formulating a comprehensive action plan to drive sustainable growth.

Once again, the state reaffirms its commitment to elevating the aquaculture sector into a thriving industry—backed by the nation's most progressive Aqua Policy, a strategic five-year action plan, the promotion of cutting-edge technologies, and comprehensive support, including targeted subsidies for stakeholders—to achieve a 30% CAGR.

AQUACULTURE INNOVATION TECH 2.0 CONCLAVE ANDHRA PRADESH



10 Lakh Acres by 2029–30 & Tripling GVA From Rs.1.29 to Rs.3.87 Lakh Crore

Conclave held in collaboration with the Department of Fisheries, Andhra Pradesh, on 16-18 February

- Comprehensive Baseline Assessment of 60,000 Aqua farmers covering 4.44 lakh acres
- 3-Day In-house Lab model involving all the stakeholders including progressive farmers, exporters, feed manufacturers etc., forming into 9 Strategic groups
- ~600 Progressive Aqua farmers participated
- Andhra Pradesh is once again committed to achieving a 30% growth rate for 2024–29 through a sustainable, ecologically balanced system



The Chief Minister announced several key strategic directives:

- Mandatory geo-tagging and traceability for all aquaculture farms in the state.
- Launch of a real-time digital payment system integrated with farm data.
- Promotion of seafood consumption in domestic markets through tie-ups with the Defence and Health Departments.
- Implementation of Aqua Stack digital infrastructure across all district fisheries offices within 90 days.
- Declaration of 12 Aquaculture Innovation Zones with modern infrastructure, incubation support, and green energy solutions.

**Conclave's core objective is to build a resilient, tech-enabled, and inclusive
Aquaculture economy in Andhra Pradesh**



GFST IN COLLABORATION WITH BHARAT ADVISORS AND PARTNERS LLP

Shaping the Next Era of Governance

**Together, let's revolutionize Haryana's
Aqua sector, empowering farmers and
creating a future of innovation, growth,
and prosperity for all!**