

Atmanirbhar Viksit Bharat 2047 Sustainable Aquaculture

Healthy Fish | Healthy Human | Healthy Environment

GeoSmart India 2025, Delhi

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GIZ, Agroecological Transformation

giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

Viksit Bharat 2047, Going forward...



Domestic Consumption

India

- Approx 73% non-veg
 - 8.89 per capita consumption (Rank 129/183 countries)
 - 4.05% growth in last 15 yrs
- Bangladesh : 24.7 kg per capita consumption
Indonesia: 54kg per capita consumption
China: 50kg per capita consumption



Sustainable practices

Opportunity

- Export of certified IMC
 - Middle east market – IMC from Bangladesh/Myanmar



Safe Food

Urgency

- Forever Chemicals - PFPA (per-and poly fluoroalkyl substances), TSA (trifluoroacetic acid)
- Microplastics contamination
- One Health – Fish, Human, Environment
- Low-cost certification

Food for thought

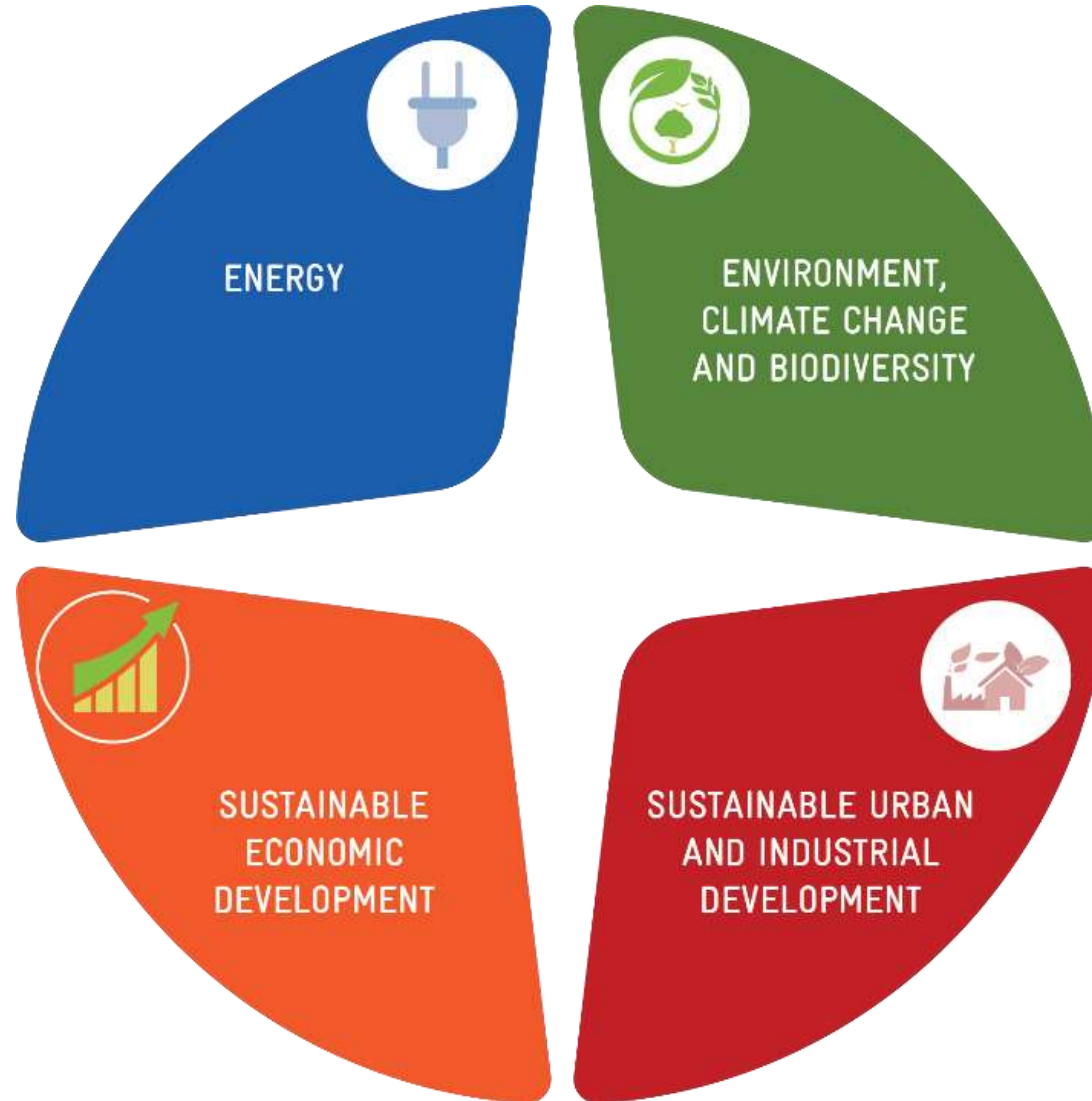
- Is it possible incorporate learning in education system,
- Can local consumers made aware of safely and nutrition
- Will mass QSR (Quick-service restaurants) make a difference? E.g. something similar to KFC,
- Can we make seafood is available in NE markets beyond Guwahati/Shillong?

- Can we measure area, resources, raw material used for production of “1” kg fish, e.g including Maize, soyabean, oil cake, etc?
- How to measure adoption of knowledge on sustainable practices?
- How to ensure market system for PGS products?

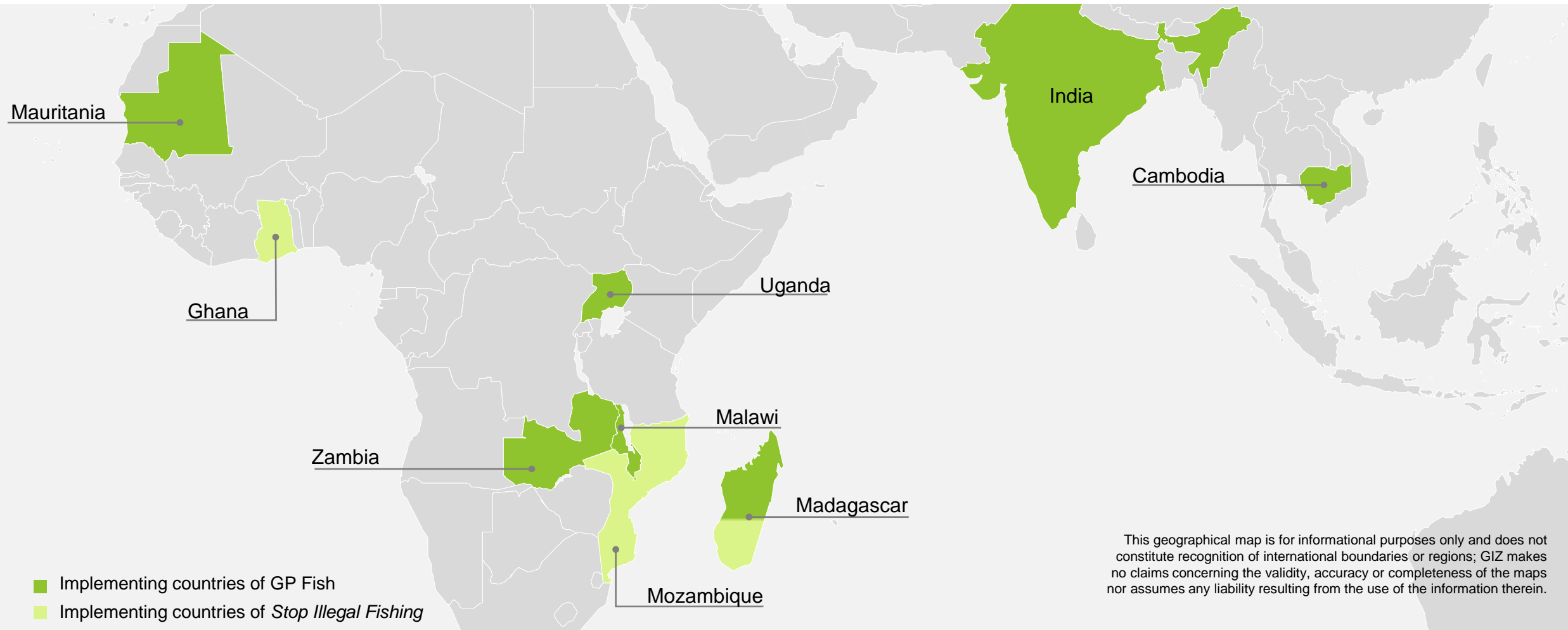
- Is it possible to increase implied studies/research by private sector,
- Is it possible to structurally organise, join hands among Private sector, Farmer Producer Organisation, Government, Universities, NGOs , Development Co-operations?

GIZ India – Overall Thematic Areas [100+ projects in India]

Indo-German
Technical
Cooperation
- 1970



Project Countries **GP Fish**



Theory of Change: Food Systems Transformation through Agroecology - 10



Innovative Resource-Efficient Integrated Aquaculture Model

ABS: Aqua Business School

CIC: Community Information Center

CRP: Community Resource Person

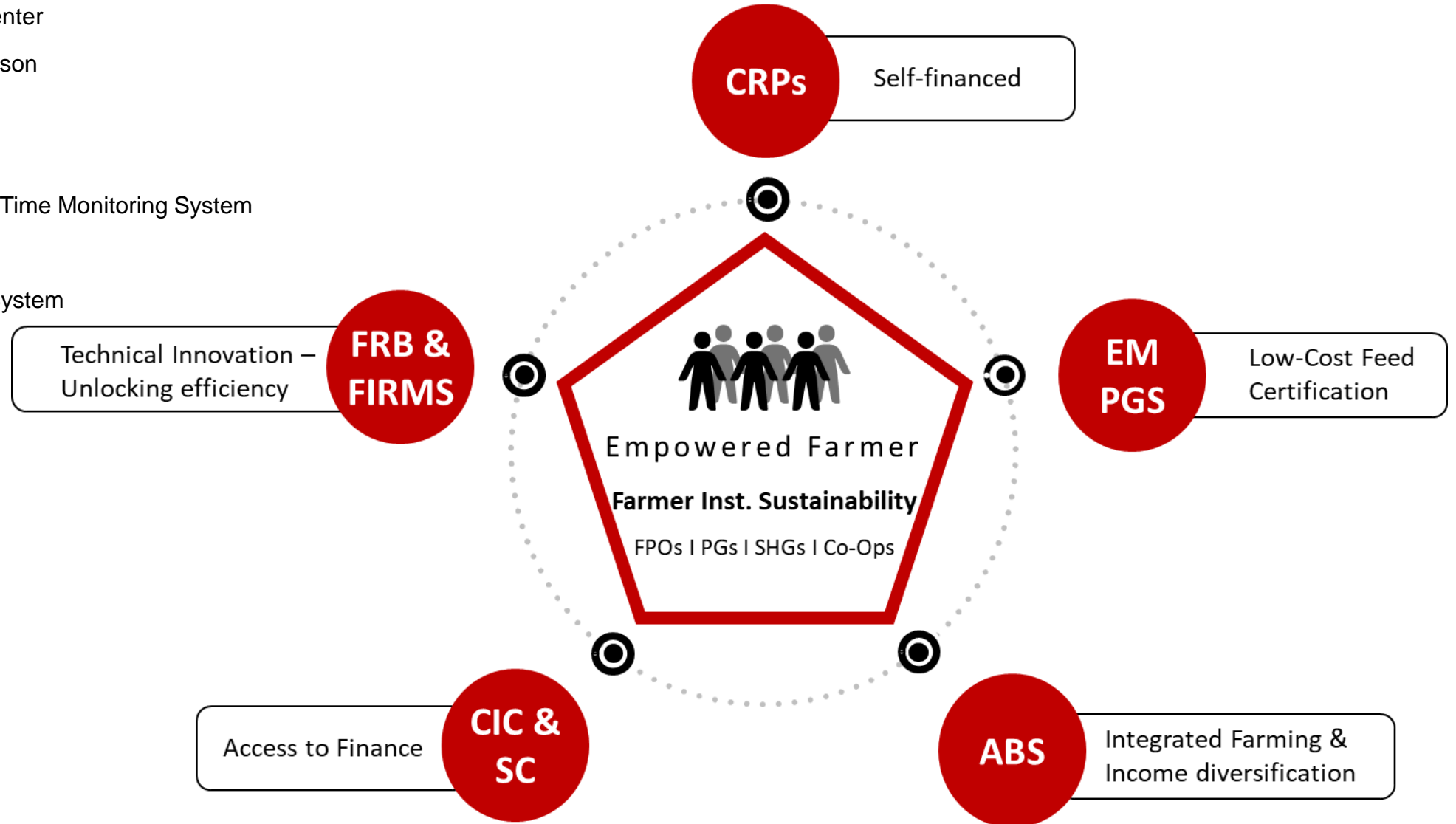
EM: Effective Micro-organism

FRB: Farm Record Book

FIRMS: Farmer Institution Real Time Monitoring System

SC: Satellite Center

PSG: Participatory Guarantee System



Knowledge material , new courses and tools:-

PANORAMA [Sustainable Aquaculture for Food and Livelihood | PANORAMA](#)

SAFAL (Sustainable Aquaculture for food and livelihood), GIZ

implemented with **Department of Fishery, MoFAHD**

Results in 2 states

Funded under Indo-German Technical Cooperation	German Federal Ministry for Economic Cooperation and Development (BMZ), German Government
Implementing Partner / States	MoFAHD and DoF, Assam & Odisha
Term	May 2021 to July 2025
Objective	Enhance fish production and income from sustainable and resource-saving pond-based aquaculture in existing ponds.
Target Group	Aquaculture fish farmer (including members of FPOs, FPCs, SHGs), Actors in Aqua Value Chain

Items	Number	Items	Numbers
Water area reached	1500 ha approx. among 7500+ farmers (SHG, FPO, cooperative)	Low cost certification system-PGS model with women fish farmer in Assam	35-45% fish sold at premium price
Production and productivity	3300 ton [approx. value Rs. 33 crore] 147% increase from 1.65 to 2.43 ton	Access to 13 Govt. schemes	2500+ farmers via 10 Community Information Center (CIC)
Local trainers for farmers (Self-finance extension)	500+ Community Resource Person	320+ Rural Aqua Entrepreneur	110 business plans worth 8.5cr

Testimonial: Ms. Sonmani Devi

Borbeel Farmer Producer Company Limited

Dist: Nagaon, Assam

Water area: 1.75 acres (present)

Species: IMC

Before training

**After GIZ and DoF support
(Training in 2022)**

Annual Income:
20,000 INR

Annual Income-
1,20,000 INR

Percentage Increase: above 100%

What changed?

- Scientific pond preparation and management
- Application of lime and organic manure
- Regular water quality test
- Adoption of Effective Microorganism application

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Thanks



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