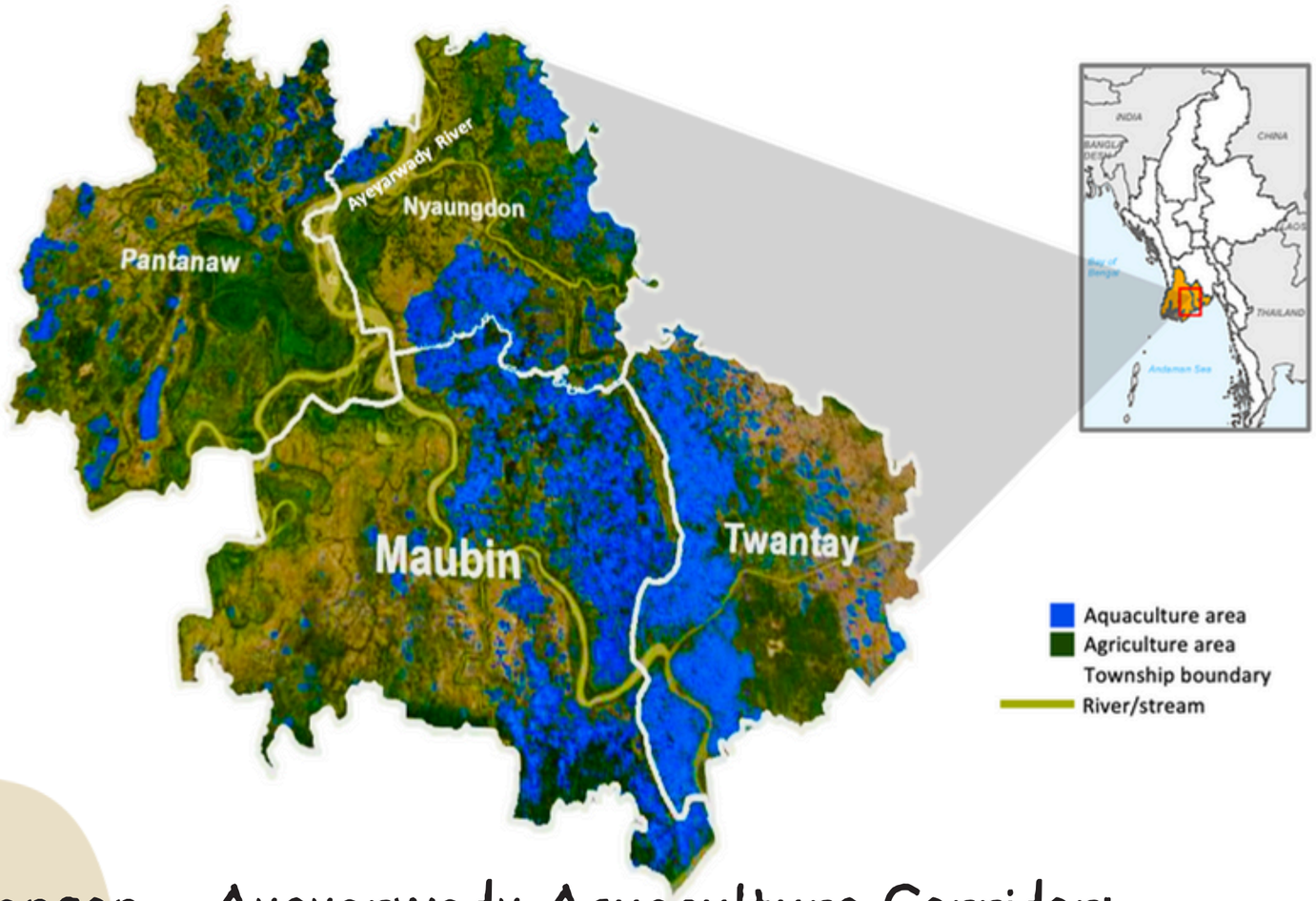
NURTURING GREEN AQUACULTURE

in Myanmar

Nurturing Green Aquaculture in Myanmar

To improve resource efficiency and reduce environmental degradation in Myanmar's aquaculture industry, while ensuring improved economic returns in the value chain

Jan 2022 - Dec 2024

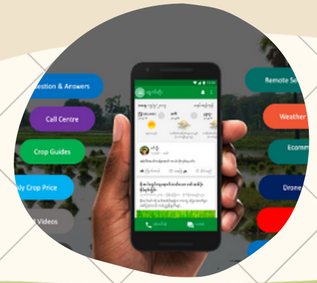


Yangon - Ayeyarwady Aquaculture Corridor:
Home to aprox. 60% of Myanmar's farmed fish prod.

Supporting aquaculture MSMEs to adopt more resource-efficient and greener production practices

Testing & Demonstrating 'Green Practices'

Working with 250 champion MSMEs to initiate scale & reach a tipping point



Digitizing Green Aquaculture Extension

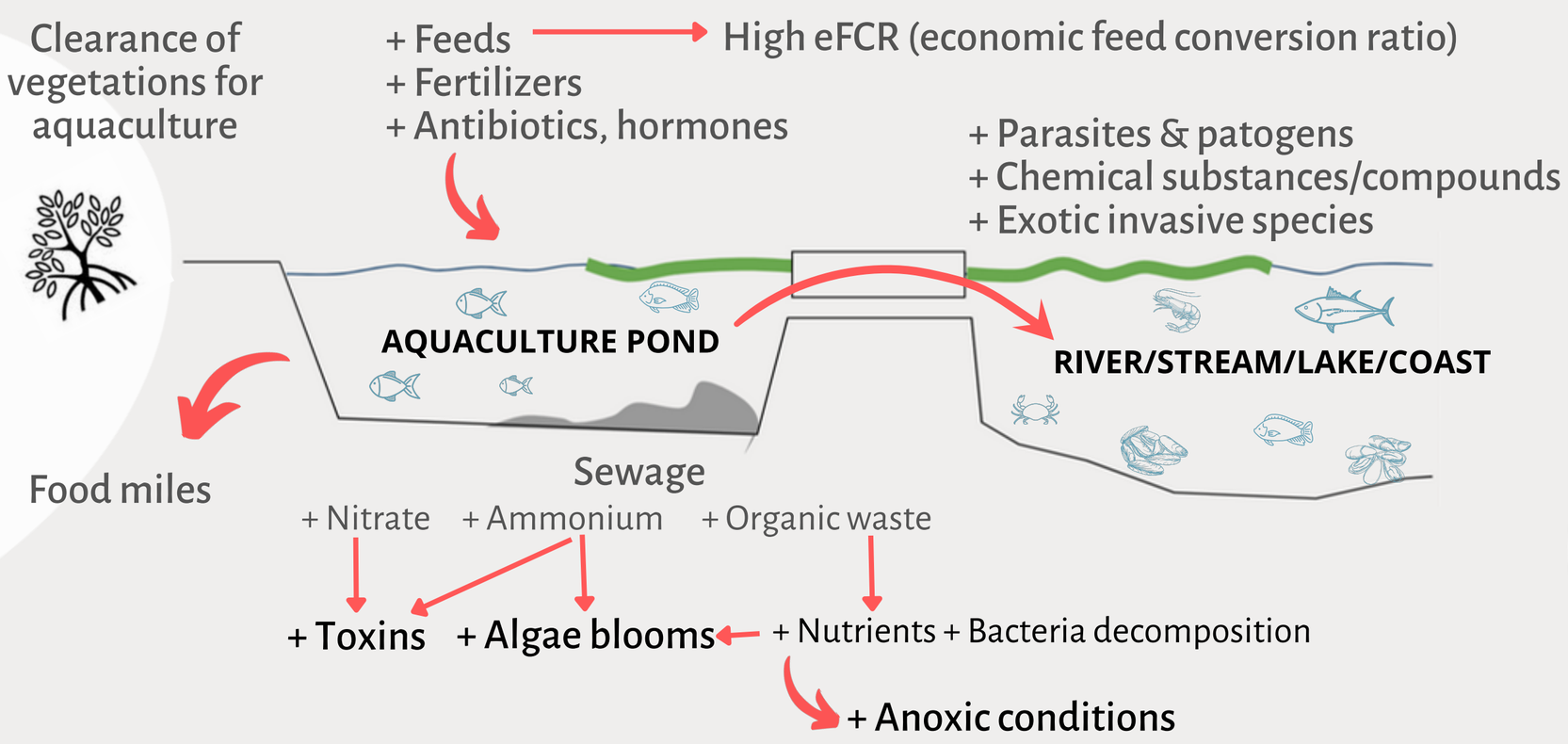
Partnering with a mobile-based ag apps to reach more MSMEs

Developing 'Green Loans' to enable scalability

Supporting Financial Institutions to develop green loans for MSMEs

Establishing Evidence-based Bankable Biz Cases

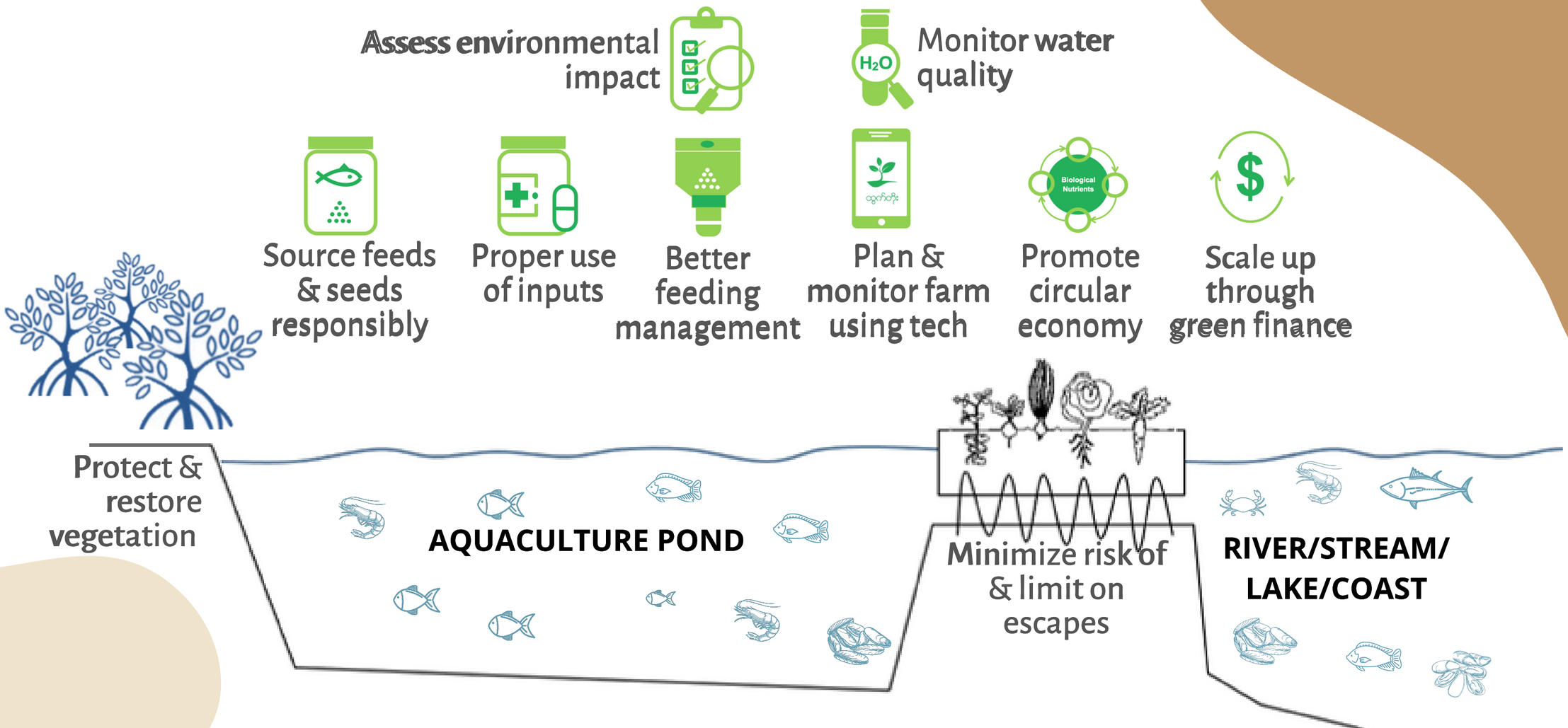
Evidence Gathering & Sharing through Meso-level Organizations



Negative Consequences:

Biodiversity losses | Disruption of ecosystem processes | Water contamination
Pollutants entering food chains | Low aquaculture productivity | Greenhouse gas emissions

Addressing the link between Myanmar's aquaculture sector and high levels of water pollution and other environmental issues



Promoting Circular Bio-Economy

Aims at producing renewable biological resources, facilitating a conversion of these resources and waste streams into value added products

Establishing Measurement Framework

M&E indicators, data collection methodology and tools

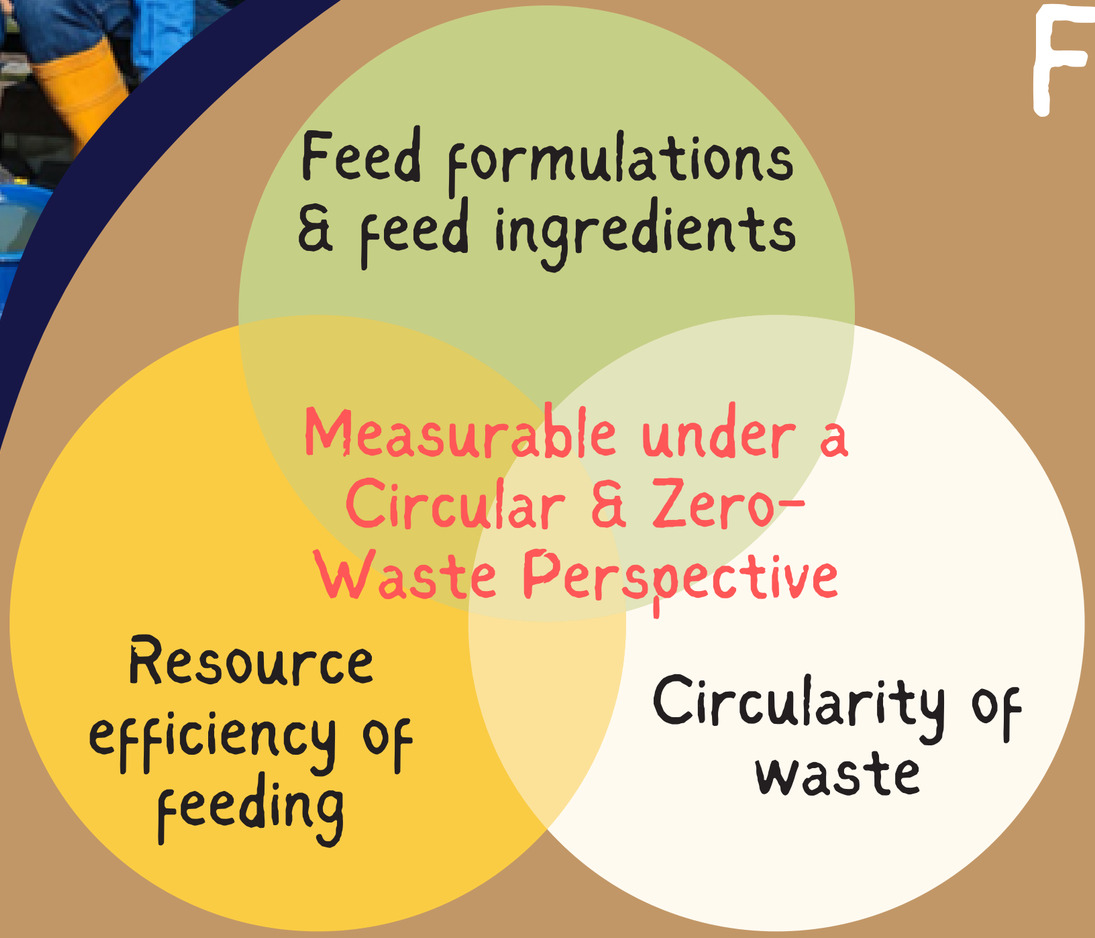
Promoting Circularity in Aquaculture Production

Support both Circularity and Zero-Waste pathways

Documenting & Sharing Lessons

Within the current challenging operational context

Establishing M&E Framework



To establish indicators, methodology & tools to measure circularity in aquaculture

To be able to evaluate circularity performance of aquaculture production systems for evidence-based

Promoting Circularity in Aquaculture Production

Improved feed formulations

Home-made aquafeed production

Commercial aquafeed production

Circularity of feed ingredients

'Green Water' for micro/small operators

Natural feed (plankton—mostly microalgae)

Reduce the use of 'linear' ingredients in feed production

Replacement of soybean meal with alternative protein feed ingredients

Promoting Circularity in Aquaculture Production

Resource efficiency of feeding

Monitor FCR & make improvement to minimize nutrient excretion

Promote 'smart-feeding' tech for medium/large operators

Circularity of waste

Integrated systems to closing the loop

Nurturing Green Aquaculture in Myanmar Programme