

EVALFOREARTH WEBINAR • AQUATIC FOOD SYSTEMS PERSPECTIVE

Bridging Policy and Practice

Evaluating Postharvest Loss Interventions

Methods, Frameworks, and Insights from Africa and Asia

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31 July 2026

Based on the 2025 practitioner's guide co-published by WRI, WorldFish, FAO and partners



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From loss measurement to better decisions

This aquatic-food perspective complements the webinar's capacity-building lens across Africa and Asia.



The thread throughout: evidence must be relevant, effective, equitable, cost-effective and sustainable.

WHY THIS MATTERS

The crisis is large and often invisible

Loss hides in volume, quality, value and nutrition - so a single percentage never tells the whole story.

15–35%

of aquatic food may be lost or wasted each year

37M tonnes

produced annually by small-scale fisheries and aquaculture

2.3B people

rely on aquatic foods for essential nutrients

Evaluation implication

Track what disappears, what degrades, who loses value; and which nutrients no longer reach diets.



**One catch.
Four kinds of loss.**

Source: Practitioner's Guide (2025).

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WHAT TO MEASURE

Loss has four faces

Each needs a different indicator and a different response.

01 PHYSICAL

Mass removed from the value chain - discarded, dropped, scavenged or trimmed.

02 QUALITY

Damage or exposure that downgrades grade, price or usability.

03 MARKET-FORCE

Value lost through price pressure, gender bias, forced sale or inaccessible markets.

04 NUTRITIONAL

Protein, mineral or vitamin value depleted through spoilage or processing.

Technology alone cannot solve loss

Social, economic and infrastructure gaps reinforce one another.

01 SOCIAL

Gendered power • uneven voice • weak coordination

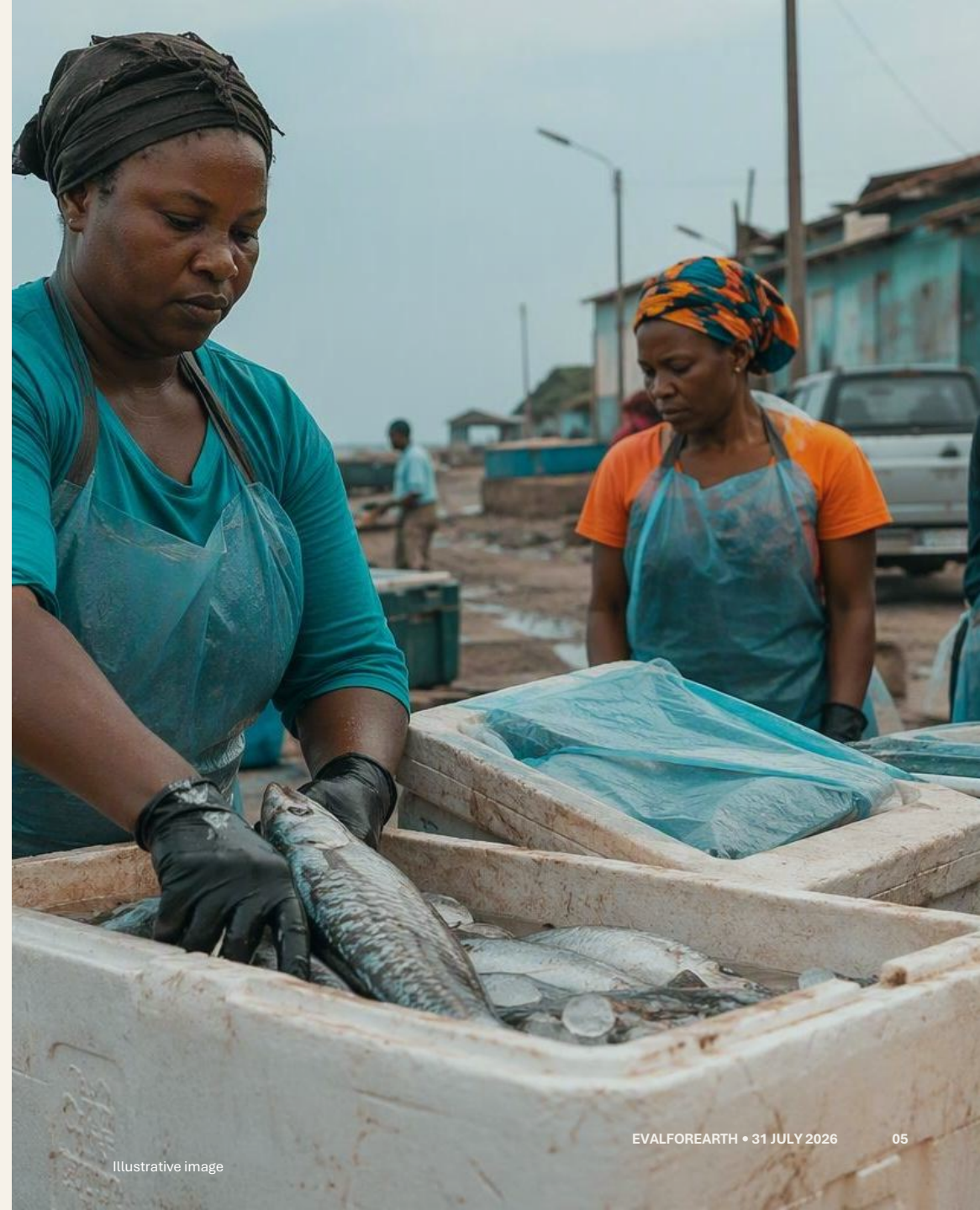
02 ECONOMIC

Narrow markets • low price transparency • limited investment

03 INFRASTRUCTURE

Storage and cold-chain gaps • poor roads • limited processing

Design indicators around drivers - not only end-point loss rates.



Most loss emerges before food reaches a plate

Map where loss occurs, then match the method to the question.



MEASUREMENT LAYER

Observe practices → identify actors and drivers → quantify loss → validate findings → monitor change

Hotspot ≠ highest volume alone. Consider value, nutrition, equity and feasibility of change.

The gap is not data alone - it is a path to action

Global consultation, October 2024–April 2025

- 01**  **NO CONSOLIDATED RESOURCE**
Methods exist, but intended use and trade-offs are scattered.
- 02**  **NO COORDINATED PLANNING TOOLS**
Projects struggle to connect early design, fieldwork and implementation.
- 03**  **TOO LITTLE DOCUMENTED COMMUNITY PRACTICE**
Engagement is often described as a principle, not as repeatable practice.

A guidebook built for field decisions

Published October 2025 by WRI, WorldFish, FAO and WholeFish Strategies.

PRACTITIONER-BUILT

Interviews, surveys and discussions with practitioners worldwide.

END-TO-END

Methods span project setup, assessment, validation and intervention design.

CONTEXT-RESPONSIVE

Gender, local knowledge, markets and infrastructure shape method selection.

“Go beyond diagnostics - co-design solutions that are grounded in local realities.”



Six stages turn diagnosis into action

Flexible and iterative—not a rigid sequence.



Prepare, Train, Explore and Validate protect quality even when project resources are constrained.

Prepare and Train protect data quality

The strongest baseline begins before any questionnaire is deployed.

PREPARE

- Define scope and focus areas
- Map value-chain actors and power
- Build partnerships and permissions

TRAIN

- Develop assessment capacity
- Pilot and refine tools in the field
- Train local trainers to reduce bias

UP TO
10
working days for a
full training process

Evaluation payoff

Clear assumptions, stronger participation, fewer measurement errors and greater ownership.

Explore and Quantify combine two lenses

Qualitative inquiry explains the pattern; quantitative tools establish its scale and change.

EXPLORE

Understand the system

EFLAM

Exploratory Fish Loss Assessment Method

Observation • interviews • stakeholder discussion

GRFLAM

Gender-Responsive Fish Loss Assessment Method

Who is affected • gendered roles • power and access

OUTPUT → loss types, seasons, actors and root causes

QUANTIFY

Measure and monitor

LOAD TRACKING

Follow product through value-chain nodes

QLAM

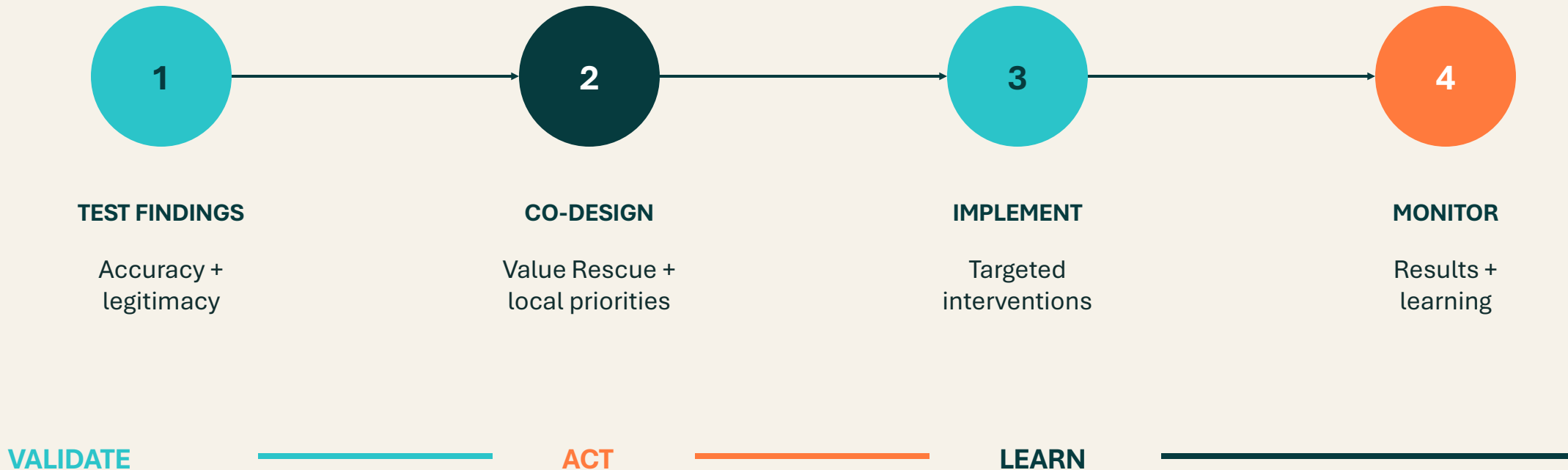
Questionnaire Loss Assessment Method

Standardised questionnaires + real-time quality checks

OUTPUT → defensible baselines, hotspots and trends

Validation makes evidence usable

Stakeholders test the interpretation before interventions are designed or scaled.



Iteration—not technology alone—turns loss data into sustained change.

By-products become value

Six hake competitors formed the Namibia Ocean Cluster after three years of pre-competitive collaboration.

COLLAGEN

FISH OIL

PET FOOD

FISH LEATHER

WHY IT HELD

Proximity • political backing • shared commercial benefit • member ownership

EVALUATION LENS by-product use • jobs • new value chains

[READ THE FULL STORY → GUIDEBOOK BOX 4](#)



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CASE STUDY 2/3 • MOZAMBIQUE

A common language strengthens the baseline

- | | | |
|----|------------|---|
| 01 | PHOTOGRAPH | Fish specimens and gear |
| 02 | NAME | Record local names—including women's often-overlooked knowledge |
| 03 | FILL GAPS | Use regional guides |
| 04 | VALIDATE | Confirm with the community |

A shared visual guide improved classification, questionnaires and community legitimacy.

RESULT

[READ MORE → GUIDEBOOK BOX 5](#)

Ownership mattered more than the gadget

95%+

of landed octopus was damaged by traditional spearing and handling.

10 women gleaners • 3 co-designed trials

Harvest • storage • transport

The cooler backpack did not significantly improve quality. Yet co-design raised awareness, improved practice and showed that ownership mattered more than the device.

[READ MORE → GUIDEBOOK BOX 7](#)



Ask more than “how much loss?”

A useful M&E plan connects outcomes, drivers, equity, cost and sustainability.

1 RELEVANT?

Does the intervention address the hotspot and local priority?

2 EFFECTIVE?

Did loss, quality or value change against the baseline?

3 EQUITABLE?

Who benefits, who bears costs, and whose knowledge counts?

4 COST-EFFECTIVE?

Is the value rescued worth the resources required?

5 SUSTAINABLE?

Can local actors maintain, adapt and finance the change?

Use mixed methods to answer: what works, for whom, under which conditions and why?

Evidence must travel to action

Measure the loss. Explain the drivers. Validate with people. Learn and adapt.

- 1 Build the baseline with communities-not for them.
- 2 Combine quantitative trends with gender-responsive explanation.
- 3 Use findings to improve interventions, policy and investment decisions.

Discussion

Which evaluation question is currently missing from your post-harvest work?

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wri.org/research/practitioners-guide-assessing-and-reducing-post-harvest-food-loss-small-scale-aquatic-food

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