



CGIAR

SCALLING FOR
IMPACT

Innovation development

Integrated Rice-Field pond system for enhancing climate resilience and farm productivity in Cambodia

This report was generated from the CGIAR Performance and Results Management System (PRMS) on Tuesday, August 11th, 2026, at 07:28 CEST. Please note that the contents of this report are subject to change as future updates are made to the result metadata.

The present result summary presents a standalone result reported for the Reporting 2025 cycle through the CGIAR Performance and Results Management System (PRMS) - the central platform for reporting and validating results under the [Technical Reporting Arrangement \(TRA\) 2025-2030](#). Each result contributes to the [CGIAR Results Framework](#), linking Program and Accelerator outputs and outcomes to System-level Impact Areas and Sustainable Development Goals (SDGs), and these contributions are reflected in the [CGIAR Results Dashboard](#).



Result quality assured by two independent assessors

This result underwent quality assurance by two independent assessors following the CGIAR standard [QA process](#).

The submitted innovation level was quality assured and confirmed:

- Innovation Readiness: **Level 8**

Result details

Short title: Rice-Field Fisheries Pond for Climate Resilience of farmers in Cambodia

Result description: The Rice-Field Fisheries Pond system strengthens climate resilience and farm productivity by integrating climate-smart practices into traditional rice mono systems. Key innovations include inlets and outlets that improve water connection between ponds and rice fields, supporting fish migration and efficient water management. Aquatic plants covering 30–40% of pond areas enhance biodiversity, while fish shelters protect stocks and deter illegal fishing. The system is further enhanced through the integration of vegetables on pond dikes and poultry, promoting nutrient recycling and diversified food and income sources. Designed with low input costs, the approach builds on locally available materials and farmer knowledge, making it easy and fast for farmers to adopt. The system enables at multiple productions good for household nutrition, ensures fish availability during water stress, and has increased rice and fish yields by 57% and 67%, respectively, improving profitability, food security, and livelihood stability in rural communities. (modified for 2025)

Performance and Results Management System (PRMS) Reporting phase: Reporting 2025

Submitter of result: SP09 - Scaling for Impact

Lead contact person: Sean, Vichet (Worldfish) <V.Sean@cgiar.org>

Impact Areas targeted



Nutrition, health & food security

Score: (2) Principal

Components: Nutrition



Environment health & biodiversity

Score: (1) Significant



Climate change adaptation & mitigation

Score: (2) Principal

Components: Adaptation



Gender equality, youth & social inclusion

Score: (1) Significant



Poverty reduction, livelihoods & jobs

Score: (2) Principal

Components: Livelihoods

Following the OECD DAC criteria, Impact Areas scores are defined as follows:

- 0 = Not targeted: The result has been screened against the IA but it has not been found to directly contribute to any aspect of the IA as it is outlined in the CGIAR 2030 Research and Innovation Strategy.
- 1 = Significant: The result directly contributes to one or more aspects of the IA. However, contributing to the IA is not the principal objective of the result.
- 2 = Principal: Contributing to one or more aspects of the IA is the principal objective of the result. The IA is fundamental to the design of the activity leading to the result; the activity would not have been undertaken without this objective.

Contributors and Partners

Theory of Change



SP09 - Scaling for Impact

AOW02

[Access TOC diagram](#)

High Level Output: HLO 2.2.3: Scale-ready agrifood system solution bundles and packages

Contributors

Contributing Program: SP04 - Multifunctional Landscapes

Contributing CGIAR Centers:

- WorldFish - WorldFish

Partners

Name	Country HQ	Institution type
Takeo Provincial Department of Agriculture, Forestry and Fisheries	Cambodia (KH)	Government (Subnational)
Prey Veng Provincial Department of Agriculture, Forestry and Fisheries	Cambodia (KH)	Government (Subnational)

Bundled innovations

Portfolio	Phase	Code	Indicator	Title
P25	2025	25675	Innovation use	Integrated Rice-Field Ponds for Climate-Resilient Livelihoods in Cambodia

Geographic location



Subnational

Countries specified for this result:

-  Cambodia •  Lao People's Democratic Republic •  Myanmar

States specified of Cambodia for this result:

- Prey Vêng • Taakaev • Kâmpóng Thum

States specified of Lao People's Democratic Republic for this result:

- NOT provided

States specified of Myanmar for this result:

- NOT provided

Innovation Development details

Innovation Developer: SEAN Vichet,WorldFish
(v.sean@cgiar.org)

Current readiness of this innovation: Level 8: Uncontrolled Testing

Innovation readiness justification: An overall readiness score of 8 reflects robust technical validation, widespread farmer uptake, and clear economic and climate-resilience gains across diverse locations. Stable yield improvements, higher incomes, affordable practices, and alignment with Cambodia's NDC 3.0 priorities suggest the intervention is ready for scale, with gaps in support and private-sector engagement.

Innovation collaborators:

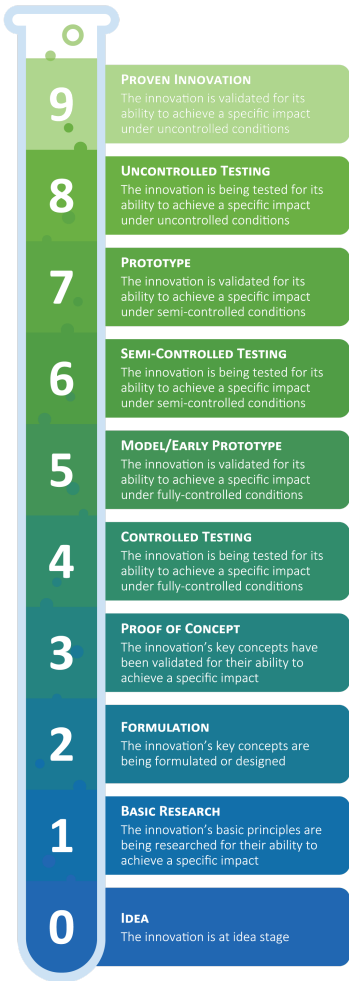
- MAM Kosal, WorldFish; Tuy Sinak, WordFish; Freed Sarah, CIAT;

Innovation nature: Incremental innovation: Innovations that already exist and undergo constant, steady progress, and improvement.

Innovation type: Technological innovation: Innovations of technical/ material nature, including varieties/ breeds; crop and livestock management practices; machines; processing technologies; big data and information systems.

Reference materials:

- <https://digitalarchive.worldfishcenter.org/items/0209694c-fbd5-4add-b20d-eb0b28276818>



Learn more in www.scalingreadiness.org

CGIAR and Partners estimated USD investment

Entity	Name	USD investment
CGIAR Science Program/Accelerator	SP09 - Scaling for Impact	To be determined
CGIAR Science Program/Accelerator	SP04 - Multifunctional Landscapes	20000.00
Partners	Takeo Provincial Department of Agriculture, Forestry and Fisheries	To be determined
Partners	Prey Veng Provincial Department of Agriculture, Forestry and Fisheries	To be determined

Anticipated Innovation users

Actors

#	Type	Actors
1	Farmers/ (agro)pastoralist/ herders/ fishers	Women (Non-youth), Men (Non-youth)
2	Other	Women (Non-youth), Men (Non-youth)

Organizations

#	Type	Subtype
1	Government	Government (Subnational)