



**Cost-benefit Assessment of Mitigation Options in  
Rice Production: Data compilation, tools and training  
within the Vietnamese context**

(IRRI Ref. No. A-2018-162)

**Report on Regional Training Workshops  
Toolkit for cost-benefit analysis of mitigation options in rice production in Vietnam**

**submitted to the**

**United Nations Industrial Development Organization - Vietnam**

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**Report on Regional Training Workshop under the framework of TA:**

**Cost-benefit Assessment of Mitigation Options in Rice Production: Data compilation, tools and training within the Vietnamese context (CBA-Rice)**

CTCN ref. 2016000061

Submitted by

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Deliverables:

<b>Output 2: Development of an interactive and dynamic tool to calculate cost and benefits of selected mitigation actions in rice sector</b>	
D 2.8	Two regional pilot training workshops for at least 40 local participants each, including documentation (held jointly with the regional pilot training workshop under Activity 3.2)
<b>Output 3: Geographic information system (GIS) based mapping and analysis tool to support the propagation of selected climate change mitigation technology options that will enhance the country's rice production</b>	
D 3.6	Two regional training workshops for at least 40 local participants each, including documentation (held jointly with the regional pilot training workshop under Activity 2.2)

**LIST OF ATTACHMENTS:**

- News article on the first training workshop on 10<sup>th</sup> November 2020: <https://www.irri.org/news-and-events/news/vietnam%E2%80%99s-ndc-process-be-aided-tools-assessing-costs-and-benefits-greenhouse>
- List of participants – first training workshop: [https://drive.google.com/file/d/1GvwuLgg\\_yu4CDX5hVr45hVtqoasyAjt看/view?usp=sharing](https://drive.google.com/file/d/1GvwuLgg_yu4CDX5hVr45hVtqoasyAjt看/view?usp=sharing)
- Training materials – first training workshop: [https://drive.google.com/drive/folders/1ysuMaYh85qd05Nq3noUsQ8LdczWN7x\\_w?usp=sharing](https://drive.google.com/drive/folders/1ysuMaYh85qd05Nq3noUsQ8LdczWN7x_w?usp=sharing)
- List of participants – second training workshop: <https://drive.google.com/file/d/14N2XIHTLu57eUOEm6otSVVtOuQ52QN6d/view?usp=sharing>
- Training materials – first training workshop: <https://drive.google.com/drive/folders/1q-4EjKqsw6saUBV-OASSI6HdJ4afZCRI?usp=sharing>
- Photos of the training workshops: [https://drive.google.com/drive/folders/1URcD7ScLV43AGommTB\\_wSvmatKNGaE1I?usp=sharing](https://drive.google.com/drive/folders/1URcD7ScLV43AGommTB_wSvmatKNGaE1I?usp=sharing)

## DETAILED UPDATES:

### **D 2.8 & D 3.6 Two regional training workshops for at least 40 local participants each, including documentation**

In cooperation with the Institute of Policy and Strategy for Agricultural and Rural Development (IPSARD) under the Ministry of Agriculture and Rural Affairs (MARD), IRRI and UNIQUE conducted the regional pilot training workshop titled *“Toolkit for cost-benefit analysis of mitigation options in rice production in Vietnam”* on 10 November 2020. The toolkit comprised of three stand-alone tools: “MapAWD” – the GIS-based mapping and analysis tool, “SECTOR” GHG emissions calculator, and “Rice-CBA” costs-benefits analysis tool. The event was conducted both in-person and online simultaneously, accommodating 73 participants from MARD, government research institutes, NGOs, private industries, and universities from different areas of the country. They were given introductions and detailed instructions to operate the tools, followed by a use case example that demonstrated the steps to use and combine them together to evaluate different mitigation scenarios.

According to the feedback from participants, IRRI and UNIQUE improved the Rice-CBA tool and user manual to better address the needs of analysing investment costs and benefits. Followingly, IRRI, UNIQUE, and IPSARD organised an in-depth training workshop on 01 December 2020, again online and in-person simultaneously. The 49 participants familiarized themselves with basic and advanced functions of the tools through hands-on exercises with SECTOR and Rice-CBA. As a result, they were able to use these tools and generate analysis scenarios to inform planning and decision-making of mitigation projects. In the second session of the training, the expert from UNIQUE’s introduced basic and advanced features of the Rice-CBA tool to participants through a presentation and interactive working on the tool itself. The training session enabled users to adjust input data and models of the tools to develop project plans which optimize environmental and economic benefits.

The two training workshops have enhanced Vietnam’s policy makers’ and researchers’ capacity to assess mitigation options for low-carbon rice production. Dr. Tran Cong Thang, Director General of IPSARD, highlighted the usefulness of such tools in advancing Vietnam’s national strategy of transforming the rice sector towards sustainable production and reducing environmental impacts. Dr. Tran Dai Nghia, Head of Department of Environmental and Resource Economics Research (IPSARD) expected to further develop and roll out this toolkit for use of the Ministry of Agriculture, private companies, and large farms in mitigation investment and certification of low-carbon rice products.