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CGIAR Standing Panel on Impact Assessment

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Moving Forward (2025-2027):

Dynamics of Agricultural Innovation in Vietnam (DAIV)

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Workshop organized by MARD, IRRI, and SPIA,
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Brief overview of ZEF

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- International research institute at University of Bonn
- Interdisciplinary research, aiming to find solutions that promote sustainable development and planetary health
- Total number of researchers: around 150 from 50 countries (including 120 PhD students)
- Examples of major research themes:
  - ✓ Agriculture and food
  - ✓ Nutrition and health
  - ✓ Climate change
  - ✓ Biodiversity
  - ✓ Innovations and science policy

This project in Vietnam: Moving forward

SPIA and partners have initiated very important work on:

- Identifying relevant CGIAR innovations in Vietnam
- Tracking their adoption on a countrywide basis
- Developing innovative approaches in adoption research

In DAIV, we will build on and extend this work:

1. Update the overview of relevant innovations
2. Extend adoption work and understand dynamics
3. Analyze impacts of selected innovations
4. Further develop approaches of adoption and impact research

(1) Update the overview of relevant innovations

- Update the SPIA stocktake of CGIAR innovations developed in Vietnam (technologies, practices, policies)
- Review available documents, websites, etc.
- Interview scientists, extension officers, policy-makers, other stakeholders, etc.

Objectives are to learn about:

- Status and timelines of projects and expected impacts
- Rollout of innovations (regions, timing, approaches)
- Possible constraints

(2) Extend adoption work and understand dynamics

Cooperate with General Statistics Office (GSO), to be discussed:

- Integrate additional questions on CGIAR innovations in 2026 Vietnam Household Living Standard Survey (VHLSS 2026)
- Re-interview parts of the VHLSS 2022 and 2023 samples, to increase sample overlap with 2026 for panel data analysis
- Collect genetic samples for rice, cassava, and tilapia for DNA fingerprinting
- Collect qualitative data from VHLSS 2026 subsample
- Use data from National Rural and Agricultural Census 2025

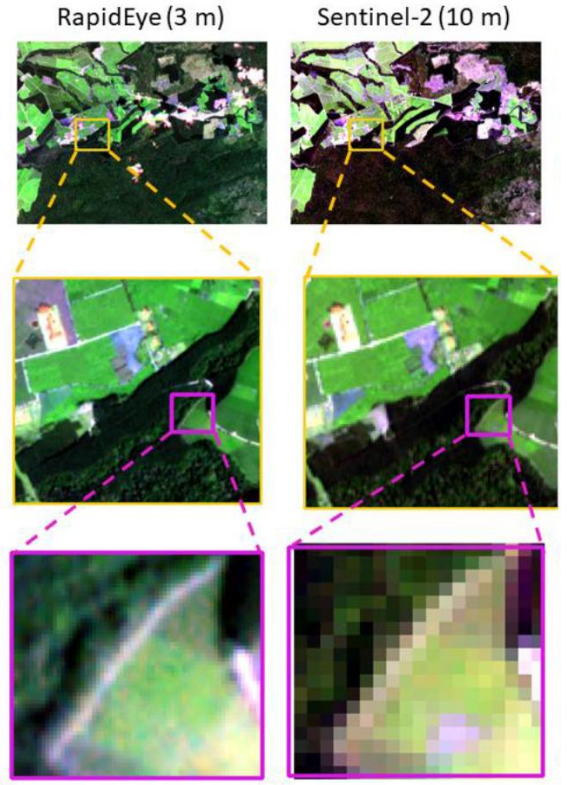
(3) Analyze impacts of selected innovations

- Identify innovations of particular interest in various subsectors (because of particularly high or low adoption, high impact potential, etc.)
- For these specific innovations, use household and community data to evaluate effects of adoption on:
  - ✓ Yield
  - ✓ Economic variables (costs, income, etc.)
  - ✓ Input use (fertilizer, pesticides, water, etc.)
  - ✓ Other sustainability outcomes (environment, food security, gender, etc.)
- Analyze regional heterogeneity of effects and underlying reasons

(4) Further develop approaches of adoption and impact research

- Develop panel data regression models for causal identification
- Use remote sensing data and compare with survey data for ground-truthing and training of algorithms
- Use DNA fingerprinting data for impact research
- Collect and use qualitative data from farmers and other stakeholders to complement quantitative analysis

Satellite images of land use types



Source: Wuepper et al. (2025)

We look forward to the cooperation

- We have recruited three PhD students and one postdoc to work with us at ZEF and VNUA on this project (Vietnam, Germany, Bangladesh)
- Important capacity-building components and mutual learning
- Close cooperation with CGIAR Centers, GSO, MARD and other national and international partners
- Annual workshops for discussions of preliminary findings