Advancing ways forward toTransparent, Responsible and Sustainable Food system transitions through building Agroecology pathways: insights into research-based developments from a Vietnamese Academy of Agricultural Science (VAAS) led partnership

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Problems

Soil erosion
Simplification of agricultural systems
Biodiversity loss
Unsafe food
Environment pollution
Market access
Equity of both sellers and buyer

Transparent, Responsible, and Sustainable food Systems

AGROECOLOGY

Unsustainable development
Adapted from Jean-Christophe Castella and Jean-François Kibler, 2015

Emerging Initiatives

- Conservation Agriculture
- Agroforestry
- Home Garden
- VAC
- Permaculture
- Integrated Crop Management
- IPM
- System of Rice Intensification
- SRI
- Organic Agriculture
- Specialized Value Chains
- Landscape
- AGROECOLOGY
- Farming systems
- Rotation, integration
- Linkages between crop, livestock, fish production and nutrients recycle
- Climate-smart agriculture
- Nature-based agriculture
- JAS, USDA, TCVN, PGS,...
Our efforts in Agroecology R&D

Dissemination of agroecology assessment methods

Tool for Agroecology Performance Assessment (TAPE)
Process and Guideline for Application (Test version)

<table>
<thead>
<tr>
<th>STEP 0</th>
<th>DESCRIPTION OF SYSTEMS AND CONTEXT</th>
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<tbody>
<tr>
<td></td>
<td>Primary and secondary information:</td>
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<td></td>
<td>- Production systems, type of household, agroecological zones</td>
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<td>- Existing policies (incl. climate change)</td>
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<td>- Enabling environment</td>
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<tr>
<th>STEP 1</th>
<th>CHARACTERISATION OF AGROECOLOGICAL TRANSITIONS (CAET)</th>
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<tr>
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<td>On farm/household survey:</td>
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<td>- Describe current status</td>
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<td>- Based on 10 elements of agroecology with descriptive scales</td>
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<td>- Can be self assessment by producer</td>
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<tr>
<th>STEP 1bis</th>
<th>TRANSITION TYPOLOGY</th>
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<td>Statistical and/or participatory clustering to reduce sample size if large number of observations in CAET</td>
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<tr>
<th>STEP 2</th>
<th>CRITERIA OF PERFORMANCE</th>
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<tr>
<td></td>
<td>On farm/household survey:</td>
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<td></td>
<td>- Measure progress and quantify impact</td>
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<td>- Addressing 5 key dimensions for policy makers and SDGs</td>
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<td>- Time/cost constraints: keep it simple!</td>
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<th>STEP 3</th>
<th>ANALYSIS AND PARTICIPATORY INTERPRETATION</th>
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<td>At territory/community scale:</td>
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<td>- Review CAET results, explain with context, enabling environment</td>
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<td>- Review Performance results and explain with CAET</td>
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<td>- Analyze contribution to SDGs</td>
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10 elements of agroecology (FAO)

- DIVERSITY
- CO-CREATION AND SHARING KNOWLEDGE
- SYNERGIES
- EFFICIENCY
- RECYCLING
- RESILIENCE
- HUMAN AND SOCIAL VALUES
- CULTURE AND FOOD TRADITIONS
- RESPONSIBLE GOVERNANCE
- CIRCULAR AND SOLIDARITY ECONOMY

Desk and field Studies

2020 in Moc Chau, Son La

Stakeholder training workshops

farm, pastoralist, household, and community
Enhancing value chain coordination solutions in agroecological food systems

Supporting stakeholders (MARD; DARDs, VAAS - CASRAD, NOMAFSI, FAVRI; NIAS, IPSARD, CIRAD, FAO, ...)

Knowledge sharing and practices
Building stakeholder relationships

Producers
Consumers
Traders

Participatory Action Research

PRODUCTION
CONSUMPTION
Collective Brands Building

- Intellectual property protection
- Quality management
- Market linkages
Biodiversity protection from the global agenda to local policies

United Nations International Conference on Environment and Development (UNCED) in Rio de Janeiro, Brazil, 1992

Agenda 21 (Agenda 21) which contains statements on environment and sustainable development and principles for sustainable forest management.
Policy driver for agricultural development and ways forward to promote the sustainable transition

National Strategies and Programs

Resolution on Agriculture, Farmer and Rural Areas (2008)
National Target Program on New Rural Development (2010), Agricultural Restructuring Plan (2013)
National Organic Scheme (2021)
National Green Growth Strategy (2021)
A national Strategy for Plant Health and a National Plan for Plant Health Management for the 2021-2025
Food safety Law and Standards (TCVN)

Vision towards sustainable development anchored on the three pillares of “agroecology, modern rural and smart farms”

Party Congress XIII document (January 2021)
Take home massage

Building motivation of the agroecology transition through all three benefits

Appropriate strategies
THANKS A LOT FOR YOUR ATTENTION!