



# SIMULATION GAMES FOR AGRO-ECOLOGY TRANSITION

*Promoting agro-ecology transition via enhancing farmers' analytical and decision making capacity through application of simulation games*

*Thuy Thu Doan., Patrick D'quino., Can Truong Quoc*

*Siem Reap, 6-8 November, 2018*



**PART 1. SIMULATION GAME IN VIET NAM**

**PART 2. WHAT WE DID**

**PART 3. RESULTS**

# **SIMULATION GAME IN VIET NAM**

---

**Project:** “Enhancing farmers’ analytical and decision making capacity through application of simulation games” supported by ALiSEA - ACTEA & BftW

**Objective:** Provide the tool for improving decision making capacity and the implementation of adaptive measures.

**Partner:** Consultative Institute for Socio-Economic Development of Rural and Mountainous Areas - CISDOMA



# TerriStories Simulation Game- Innovated approach

Rainbow Spiral framework ( Patrick D 'Aquino and Papazian, 2014)

## QUESTIONS

1. What do you want to **ARCHIVE** as regards these targets?
2. What **ELEMENTS** of the context you want to highlight?
3. What are the priority **constraints**?
4. What are the “other” farmers’ **difficulties** (taking account farmers’ constraints)?
5. And what are the stakeholders of the context which should be involved to **achieve the solutions scenarios**?

Platform, stickers & Nuggets



*We need seating together to solve our difficulties !*

# KEY FEATURES OF THE GAME

## Rules

### ❑ Biophysical dynamics

- **1 game period = 1 year**
- 1 crop (rice /maize field)/ 1-2 livestock (pig, chicken, fish) . Development = bank note 100 000 VND

### ❑ Land uses and their impacts on bio. dyn.

- **Soil of an used: 2 cycles**
- Unused plots after each cycle
- Imply a land uses competition: **bank note 100 00 VND**

➤ **Farmers not enough for all, fall back to other uses**

### ❑ **Social organization**

- Traders : material provider and hirer
- Bank
- NGO project
- **Farmer's communication with their funding resources**



# ACTIVITIES DURING THE GAME SESSION ?

## 1. Negotiation

- Bargain with the traders
- Talk within the villagers
- Meeting with representative of Gov' officer and NGO's project



## 2. Analyse & Decision

- Crops
- Fertilizers & pesticide
- Livestock
- Waste management
- Risk of climate change

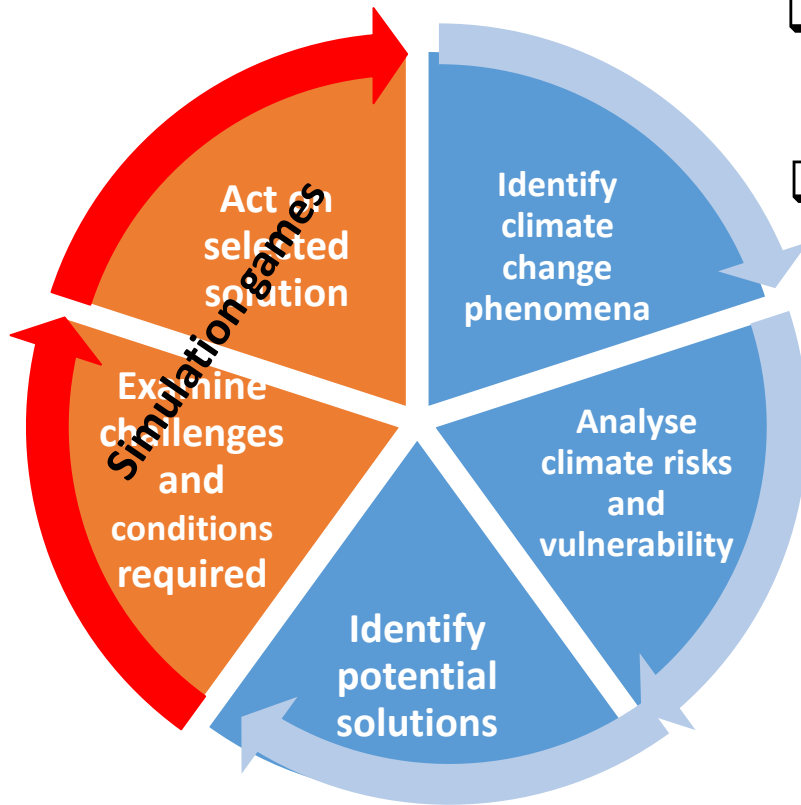




# **PART 2. WHAT WE DID...**

# SIMULATION GAME for PARTICIPATORY CLIMATE VULNERABILITY AND CAPACITY ANALYSIS

## WHERE WE APPLIED THE GAMES



- ❑ facilitates a process to identify the regional CC phenomena
- ❑ assess the impacts of CC phenomena to farmer's livelihoods
- ❑ identifying solutions and planning actions to cope with identified impacts of CC

Participatory assessment of climate risks and adaptive livelihoods.

**Well informed selection of climate adaptive livelihoods of the farmers.**



# SCHEME IMPLEMENTED...

Tam Duong, Lai Chau  
province

Nga Nam, Soc Trang  
province

CISDOMA office  
Ha Noi

Orient training workshop/ at with the international expert

Field work with the self-management Farmer groups with national and facilitators

Field work survey the with national facilitators

Documentation, case stories, and final report .  
 Organize the National workshop and sharing at regional forums



# **PART 3. RESULTS**

# SIMULATION GAME for PARTICIPATORY CLIMATE VULNERABILITY AND CAPACITY ANALYSIS

24 key trained facilitators



08 villages

- 200 peoples
- 71% women

Communities identified

- 03 phenomena of harsh weather
- 09 models of agrict r livelihoods

solutions & actions

- Biosafety chicken farm
- Ecological Rice production

# FOR AGRO- ECOLOGY TRANSITION...



**87% of farmers**

- **games help** understand better on the challenges and solutions in pursuing agro-ecological friendly practices.

**44/185 farmers**

- **committed** to apply the Bio-safety chicken farm after the games

**Publishion:  
videos and  
articles**

**Open-up  
the  
following  
activities**

- 30 farmers **trained**; 02 pilot-**Vermifilter systems** (Ecological filter) set up for animal **waste treatment** at household level

**FEED BACK ON THE GAME**

# BENEFITS of THE SIMULATION GAMES

- ❑ **Improve analytical skills** & solidarity among community members
- ❑ **Increase dialogue** between communities' members and with local authorities
- ❑ **Well informed** solutions and measurements
- ❑ **Promote communities'** collective actions
- ❑ **Mobilize local resources** and capacity for resilience

# HOW WILL YOU APPLY SIMULATION GAME?

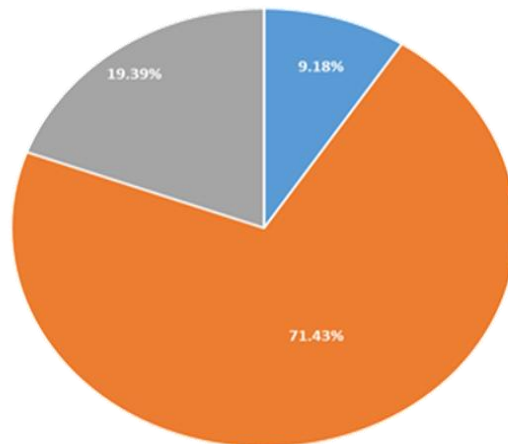
Introduce and share about the games to other groups



Continue to apply SG in facilitating the groups' discussion



No Yes



All Partly Not yet



# Lessons Learned

1. Simulation games proved to be a **effective tool** in Agro-ecology transition



2. Integration/adoption of simulation games in to **on-going project** helped promote better adoption of agro ecology friendly practices by the farmers.



3. The **partnership of various stakeholders** from different nature of work (development project, scientists, local technicians and community facilitators ) brought about valuable added value



*“Through this simulation, I learned new techniques to sensibly calculate costs and breed poultry. The integrated chicken farm model (chicken – earthworm – crop) not only helped reduce pollution, greenhouse gas from livestock breeding but also generated organic fertilizer that can be used for crops, improved soil quality and increased crop yield and income for the farmers.*

**Ms. Lo Thi Anh, Na Phat Commune, Tam Duong, Lai Chau**



*“The simulation was highly interactive and sparked interests among the participants, with a board game. This is also an excellent training tool in increasing the application of technology in the focus areas.”*

**Ms. Pham Thị Xuyen, Vice head of Crop management and protection division, Nga Nam, Soc Trang**



*I am interested in the **simulation games** that you mentioned in the fact sheets.*

*I can also highlight which of the **games** I found the most inspiring, giving the most insight to the **community members and the NGO.***

**Ellen Kalmbach, BftW**

**Simulation game introduced at the regional workshop of BftW partners**





**CISDOMA**



**Thank you**

CISDOMA

[www.cisdoma.org.vn](http://www.cisdoma.org.vn)