

# Achievements in Eco-Village Development in South Asia: Experience from Bangladesh

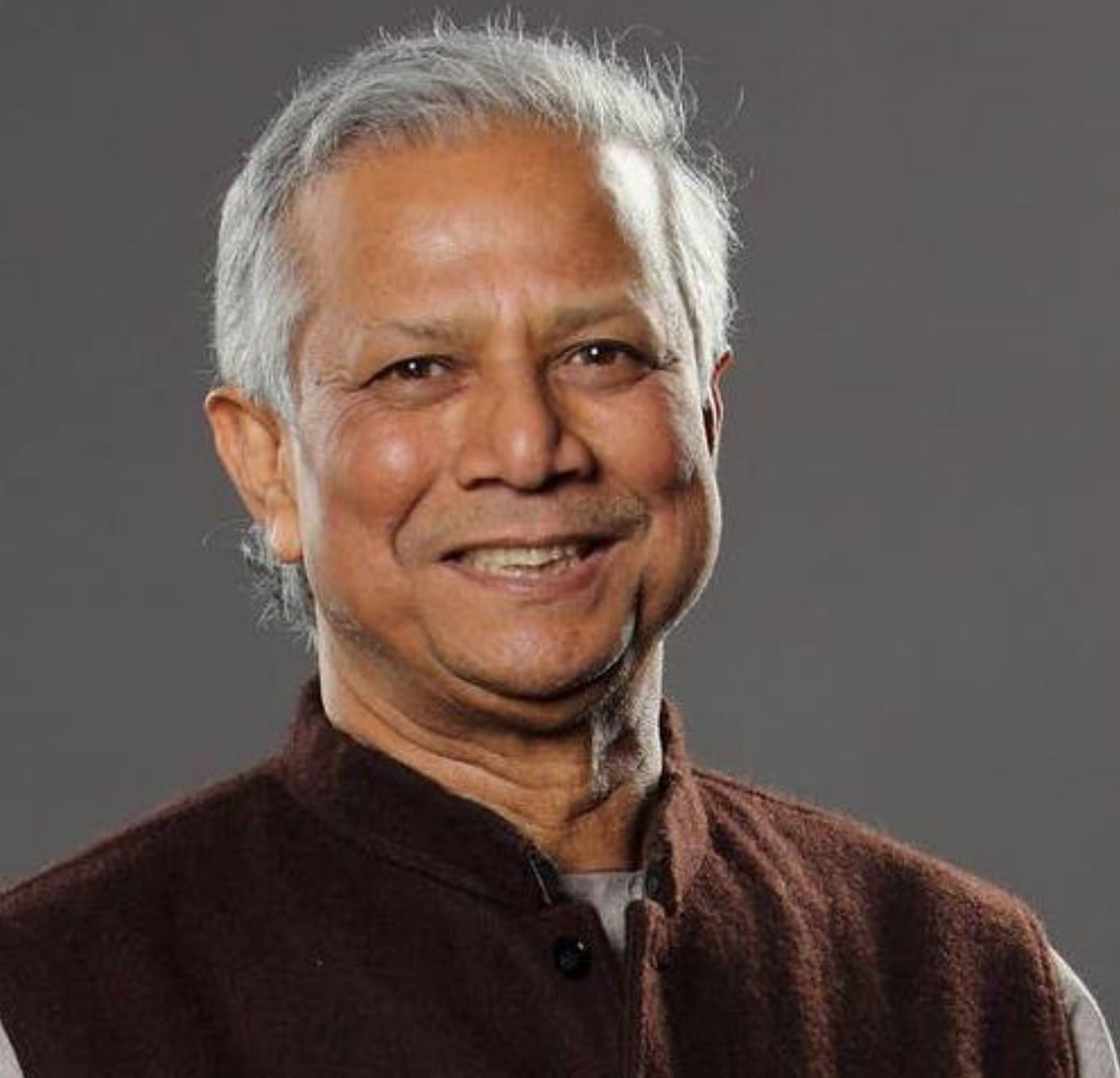
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17<sup>th</sup> October, 2022

Partners of  
ECO-VILLAGE DEVELOPMENT PROJECT:



SUPPORTED BY:



**Grameen Shakti** was  
established in **1996** as a  
Not-for-profit company by  
Nobel Laureate

**Professor Muhammad  
Yunus**

with the Objective of providing  
**Access to Energy** to  
the rural people of Bangladesh

# Major Achievements

## Solar Home System



**1,80,0000**

units installed

**397,417**

CO2 reduction/annum

## Improved cooking stove



**1,000,000**

units installed

**124,069**

CO2 reduction/annum

## Biogas plant



**35,000**

units installed

**890,862**

CO2 reduction/annum

**Total 15,00,000 CO2 reduction/annum**

# Eco-Village Development

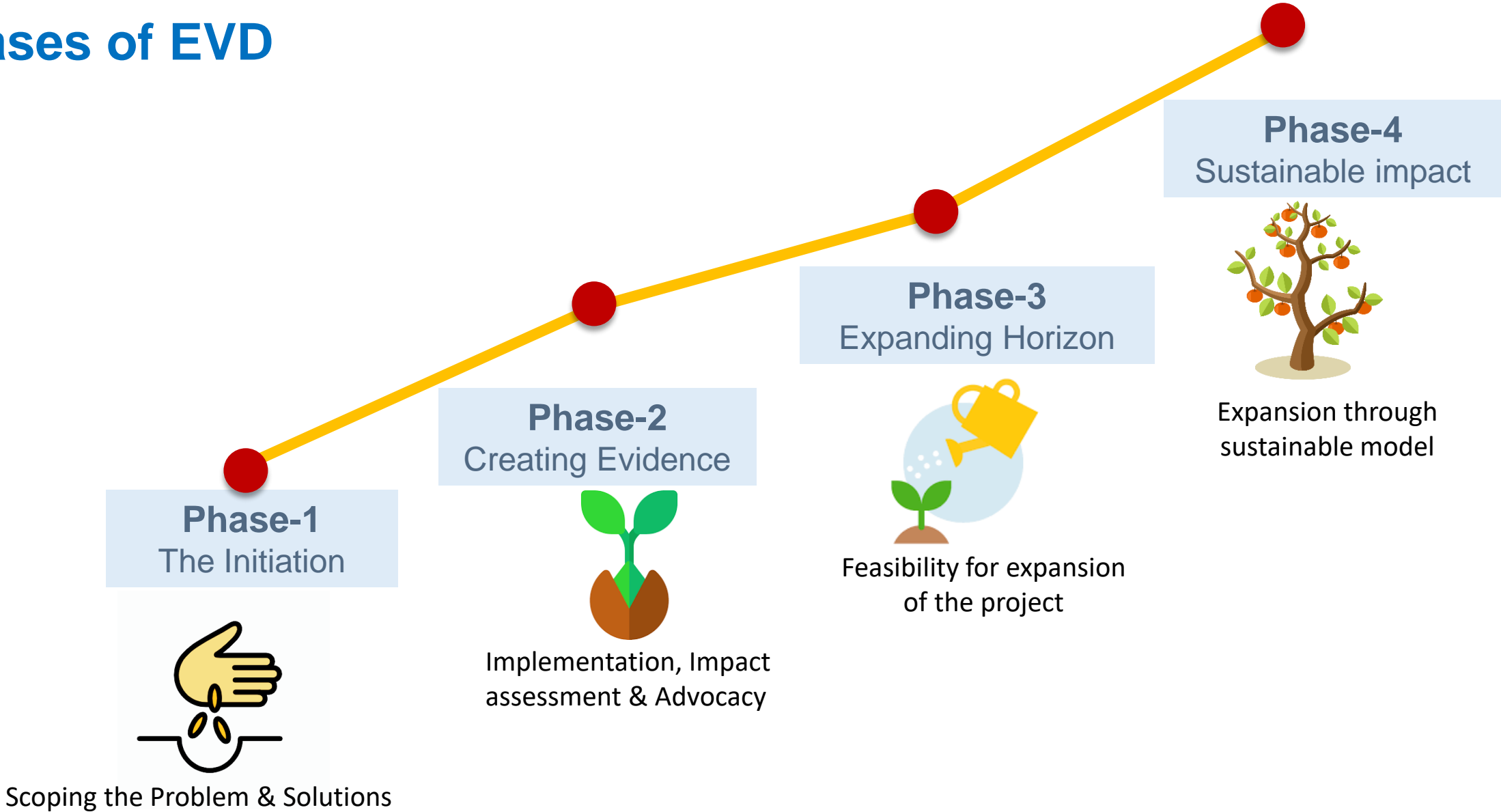
Grameen Shakti is Country Focal Point of **INFORSE** as well as one of the **Founders** for **INFORSE-South Asian Chapter**



**Eco-village Development (EVD)** is an integrated socio-economic development concept, in which Individual Solution combines in clusters to provide synergic benefit to the **COMMUNITY**



# Phases of EVD



## EVD Solutions (phase-2)

Problem	Solution
Access to clean drinking water	Solar power pump (drinking water)
Access to Electricity	Solar Street Light
Environment Pollution	Biogas plant with Low cost Bamboo made slurry pit
Inefficient cooking	Retained Heat cooker



# Model Village : Area Selection

- *Majher chor* village was chosen after assessing the findings of baseline survey

## Population

Total: 800+  
Male: Female = 52:48

## Natural Resources

River, Forest, Sunshine

## Major Challenges

Salinity intrusion, Flood, cyclone

## Infrastructure

No permanent road, One cyclone Centre, one primary school, utility grid existing, no water supply system

## Agricultural products

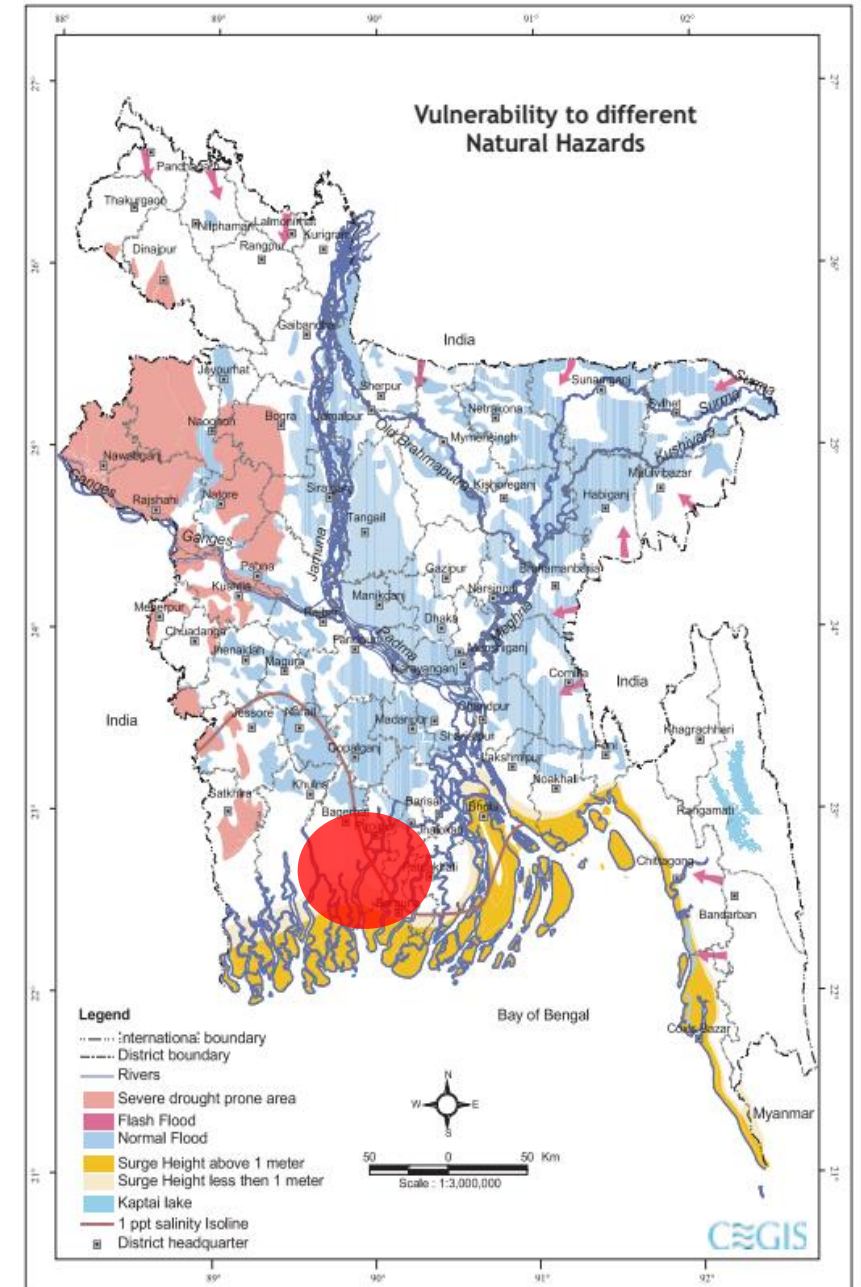
Rice, Pumpkins, Melons

## Major Economy

Fishing, Agriculture, remittance

## Access to Energy

Access to electricity: 80%  
Primary cooking fuel: fire wood



# Village Development Plan (VDP)



VDP was conducted in Mar'22, consisting of around 50 people from the Majher char village

Biogas Plant

**3 Households**

Cost share GS: HH = 75: 25

Improved Cook Stove

**50 Households**

Cost share GS: HH = 50: 50

Rain Water harvesting System

**5 Households**

Cost share GS: HH = 70: 30

Solar Street Light

**50 Households**

Cost share GS: HH = 80: 20

Community Based Biogas

**1 cluster**

Cost share GS: HH = 50: 50

Home garden

**5 Households**

Cost share GS: HH = 50: 50

Vermicompost

**3 Households**

Cost share GS: HH = 75: 25

Saline tolerant Crop

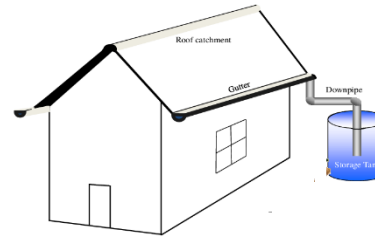
**5 Farmers**

Cost share GS: HH = 80: 20



# Model Village : Current status

- **Biogas plant**  
3 Units (completed)
- **Improved Cookstove**  
50 units (completed)
- **Solar street lights**  
6 units (Ongoing)
- **Bamboo made slurry pit**  
3 units (Ongoing)
- **Rainwater Harvesting System (RHS)**  
5 units (Ongoing)
- **Kitchen garden**  
10 units (planned)
- **Solar home system**  
5 units (planned)



# Local Networking/Advocacy

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Local Government Office,  
*Mathbaria*

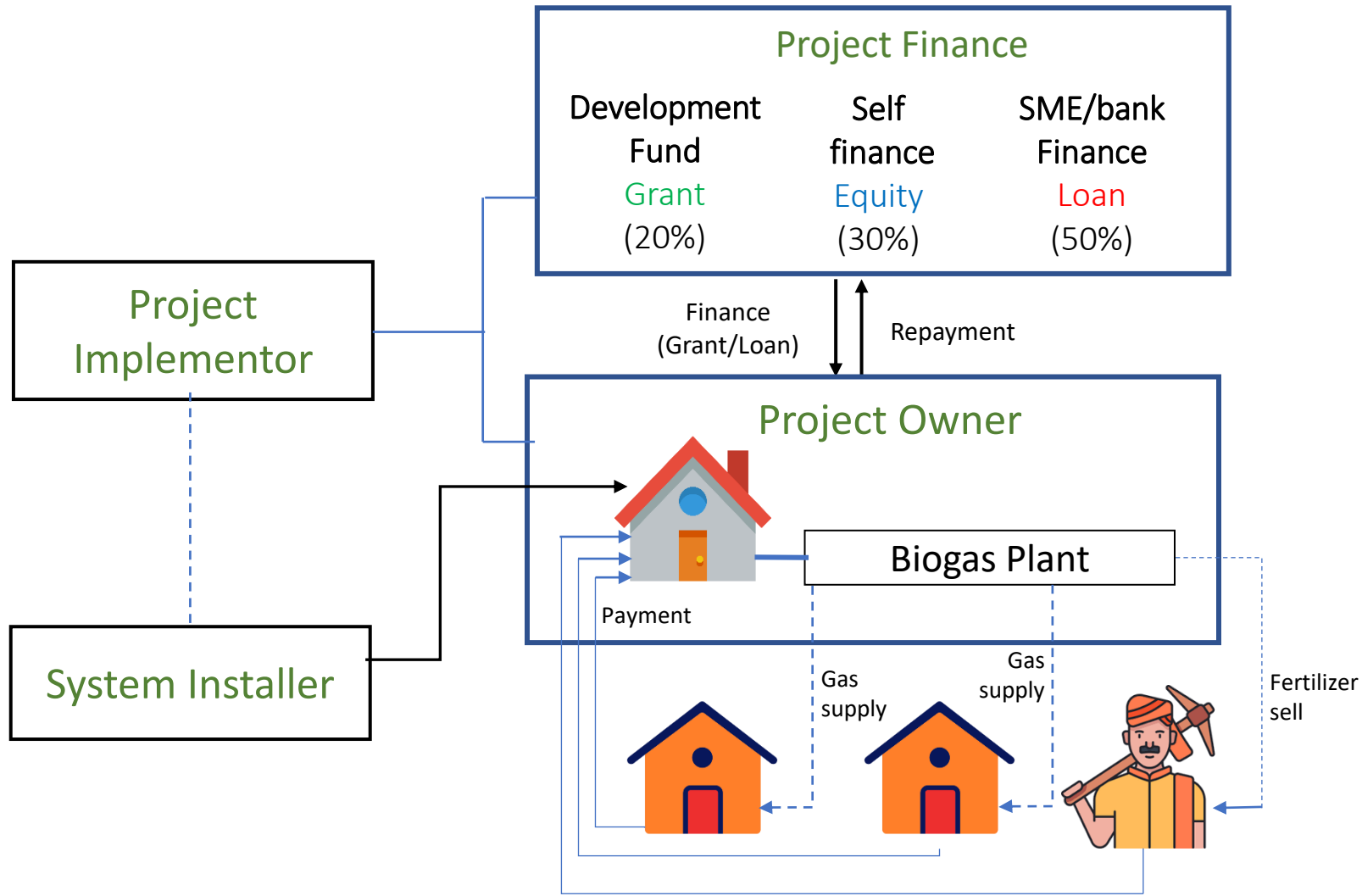


Agriculture Extension Department,  
*Pirojpur*



Engaging community Leaders in VDP,  
*Mathbaria*

# Social Enterprise Model



- A model for community based biogas plant has been developed and was shared with partners in midway meeting in Nepal
- Followed by that, we've conducted a session with Social enterprises who work in the cattle farming sector
- Selection of potential enterprise for pilot testing community based biogas plant is the is going

# Database

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Solar Home System



Biogas Plant



Improved Cook Stove



Retained Heat Cooker



Solar System For shop



Bamboo-made slurry pit



Solar Water Pump



Solar Street light



Thank You  
**Do IT WITH JOY**