Enabling Inclusive Supply Chains

Providing incentives, standards and models for reducing smallholder impacts

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• SNV is a non-profit, international development organization founded in 1965
• Operating in 39 countries in Africa, Asia, and Latin America.
• Our global team of 1600 local and international advisors use their expertise in:
  – Agriculture,
  – Renewable Energy
  – Water, Sanitation with Hygiene
Incentivising sustainable practices across the supply chain

Focus smallholders; 3 key elements:

1. Impact across the landscape; working with governments
2. Incentivizing smallholders; building inclusive and sustainable supply chains;
3. Traceability; data collection & monitoring tools

Partners

- Knowledge partners: Wageningen University, Utrecht University, Proforest/SHARP
- Private Sector: Prosympac, Rea Kaltim, Neste, Wilmar
- Certification Schemes: ISPO, ISCC, RSPO
- Partners: SPOi, LCAI, SPKS, Setara
- Strategic partner: IDH, SHARP, ISCC, ISPO
Impact Across the landscape: Siting Tool
Incentivizing smallholders

- Better management practice guidelines and training (HIT): Increase yields for smallholders in appropriate areas; improve incomes
- Integrate sustainability/certification

1. Design
   - Design the training model and templates:
     - Set criteria for trainers, select writers
     - Design templates

2. Development
   - Development of Training Materials
     - Write training materials
     - Graphic design of training materials
     - Testing training materials

3. Delivery
   - Delivery of training
     - Training of Trainers
     - Training of Beneficiaries
     - Assessing Beneficiaires
     - Support beneficiaries

4. Determine Effectiveness
   - Determine effectiveness of training
     - Trainee course evaluations
     - M&E structure and processes
Incentivizing smallholders

Poor practices in Palm Oil Farming leading to low yields

High Impact Training in Better Management Practices for Palm Oil Farming lead to high yields
Incentivizing smallholders; Inclusive Business

Inclusive Business Training program
• Better Management Practices
• Institutional development
• Internal control systems and (preparing for) certification
• Monitoring & traceability systems
Example; Medium Scale Biogas

- One digester of 50m³ is installed at Desa Marga Mulya unit 2 Kecamatan Sungai Bahar, Kabupaten Muaro Jambi
- 10 local masons are trained on biogas construction
- Design of digester is very strong, reliable and works more than 20 years
- 15 houses are connected through pipeline and gas is supplied for cooking
- The approach of SNV is - sustainability, market based, sense of ownership, long term functioning, durable design and maximization of benefits
Incentivizing smallholders; Biogas POME

- Cooking, lighting and electricity generation
- Mainly at large cattle farm
- Higher than 30m³ size
Incentivizing smallholders; Biogas POME
**Results so far:**
- Gas production is sufficient for 5 hour use every day
- Bio slurry is discharged every day which will be used as fertilizer
- Use of gas has reduced consumption of fuel wood, LPG and charcoal

**Next steps:**
- SNV aims to scale up in Muaro Jambi, 30 digesters with Prosympac
- SNV aims to install digesters up to 200 m3 with the aim of producing electricity
- Digester will be integrated with agriculture, environment and income generating activities
Monitoring & Traceability: FLOW

how it works...

public or private

you can collect data offline!
Monitoring & Traceability: FLOW
Forest/Plantation Monitoring

Ground Control Station

Real-time Video

Remote Control

Camera
Forest/Plantation Monitoring

Drone is programmed to fly determined path with GPS points
Forest/Plantation Monitoring

Figure 9: Imagery Produced by Combination of NIR and Thermal Bands
Forest/Plantation Monitoring

Legend
Land Cover Classes
- Crop Land
- Fallow Land
- Open Area
- Palm Plantation
- Settlement
- Trees

False Green
False Red
Thank you for your attention