



Delivery extension activities to improve provitability of smallholder dairy farmers



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EXISTED CONDITION IN SMALLHOLDER FARMERS AS MEMBER OF COOPORATIVE DAIRY CATTLE IN WEST JAVA

Coops	Dairycattle (head) /farmer	Lactation Cows (head)	Milk production (liter)	Milk Quality (TPC)	Extension (person)
A	20.000 h /4.500 person	11.500 h	140 ton/d	1.5 m	7
B	12.000 h /3.500 person	7.100 h	80 ton /d	1.5 m	11
C	3.500 h /1.800 person	1.900 h	23 ton/d	3 m	7

IMP/IPS accepted milk if: TS \geq 11.0; Fat \geq 3.5; Protein \geq 2.70; TPC \leq 3-5 m



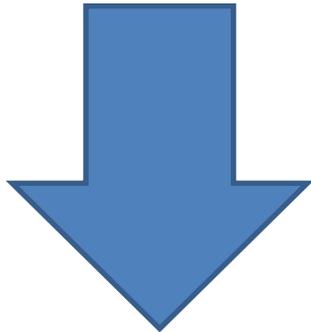
Objective-3

Develop, pilot and evaluate innovative extension approaches that improve on-farm profitability of smallholder farmers in West Java



Productive cows, prosperous farmers

Extension Agent, Trainer,
Motivator, Substance and
Implementation



Profitability is obtained through: The increase in population, milk production and qualities, price per liter and income. Farmers happiness.



Research questions for Objective 3 are:

- What are the most effective extension methods that will enable smallholders to:
 - optimise feed resources and adopt improved feeding practices and nutrition;
 - adopt profitable calf rearing and animal husbandry practices;
 - improve milk quality;
 - incorporate business management into farming decision making to improve profitability?
- What technical support and training is a priority for smallholders when endowed with dairy cows by the provincial government or private sector programs?



Focuss activities in IndoDairy

- Improving milk qualities
- Better nutrient and feed herd management
- Rearing and Animal husbandry practices
- Optimizing reproduction management
- Commercializing farm business management



Timeline

Purpose	2016		2017		2018		2019	
	Jan-Jun	Jul-Dec	Jan-Jun	Jul-Dec	Jan-Jun	Jul-Dec	Jan-Jun	Jul-Dec
Inception workshop		X						
Objective 1: Identify strategies and policies to support development of dairy chains in Sumatra and West Java								
Act 1.1 Guidelines heifer importation		X	X					
Act 1.2 Whole of chain analysis		X	X					
Act 1.3 Policy evaluation			X	X				
Act 1.4 Identify market opportunities			X	X				
Act 1.5 Whole of chain opportunities					X	X	X	
Act 1.6 Policy dialogue and industry advocacy		X	X	X	X	X	X	X
Objective 2: Identify barriers to adoption of profitable management practices and strategies to inform extension programs								
Act 2.1 Sampling design and baseline data collection		X	X					
Act 2.2 Research collaboration and strategy development			X	X	X	X	X	X
Objective 3: Delivery extension activities in West Java and North Sumatra to improve profitability of smallholder farmers								
Act 3.1 Design training and extension methods			X					
Act 3.2 Milk quality and hygiene training				X	X			
Act 3.2 Deliver pilot training				X	X	X		
Act 3.4 Ongoing M&E by re-interviewing and evaluation					X	X	X	X
Act 3.5 Follow up household survey							X	X
Final workshop - preparation and delivery								X



No.	Activity	Outputs/ milestones
3.1	Co-design an integrated training program for extension staff and service providers across the technical areas of nutrition and forage management, animal husbandry and reproduction, milk quality and business management.	<p>3.1.1: Consult and establish a network of key advisers, extension staff, researchers and industry representatives in Indonesia and Australia.</p> <p>3.1.2: Review existing technical material and successful extension methods both in Indonesia and internationally.</p> <p>3.1.3: Design and develop pilot training to test novel extension methods across technical areas.</p> <p>3.1.4 Co-design online communication methods with Indonesian counterparts.</p>



No.	Activity	Outputs/ milestones
3.2	Develop and deliver milk hygiene training for cooperative staff and farmers linked at the milk collection centres (MCC) in West Java.	<p>3.2.1 Pilot milk quality and hygiene extension training (Nov-17)</p> <p>3.2.2 Deliver milk quality and hygiene training workshops with staff and farmers at the milk collection centres (Feb-18)</p>



No.	Activity	Outputs/ milestones
3.3	Pilot and evaluate technical training programs with extension staff and dairy services providers in West Java and North Sumatra	<p>3.3.1: Deliver pilot training of integrated programs for extension staff and smallholder farmers in collaboration with key partners across the prioritised technical areas such as feeding systems and herd nutrition, rearing young stock and reproduction management, and business management</p> <p>3.3.2: Monitor and evaluate impact and relative success of pilot activities.</p> <p>3.3.3: Using the findings from 3.3.2 re-design and schedule full deployment of training for smallholder farmers and service providers in North Sumatra</p>



No.	Activity	Outputs/ milestones
3.4	Monitoring and evaluation of practice change activities delivered in 3.2 and 3.3	<ul style="list-style-type: none"> • Collect ongoing evaluation data using participatory approaches after all delivery of activities • Pilot the effectiveness of focus farms as a tool to evaluate skill development in service providers and farmer.



No.	Activity	Outputs/ milestones
3.5	Assess the short run and potential long run impacts of the project activities through a follow up survey during the final phase of the project.	Data will be collected from 400 households using structured survey methods.





Thank you very much



Terima kasih

