



Hawassa University

N₂Africa Mid-season Evaluation Workshop

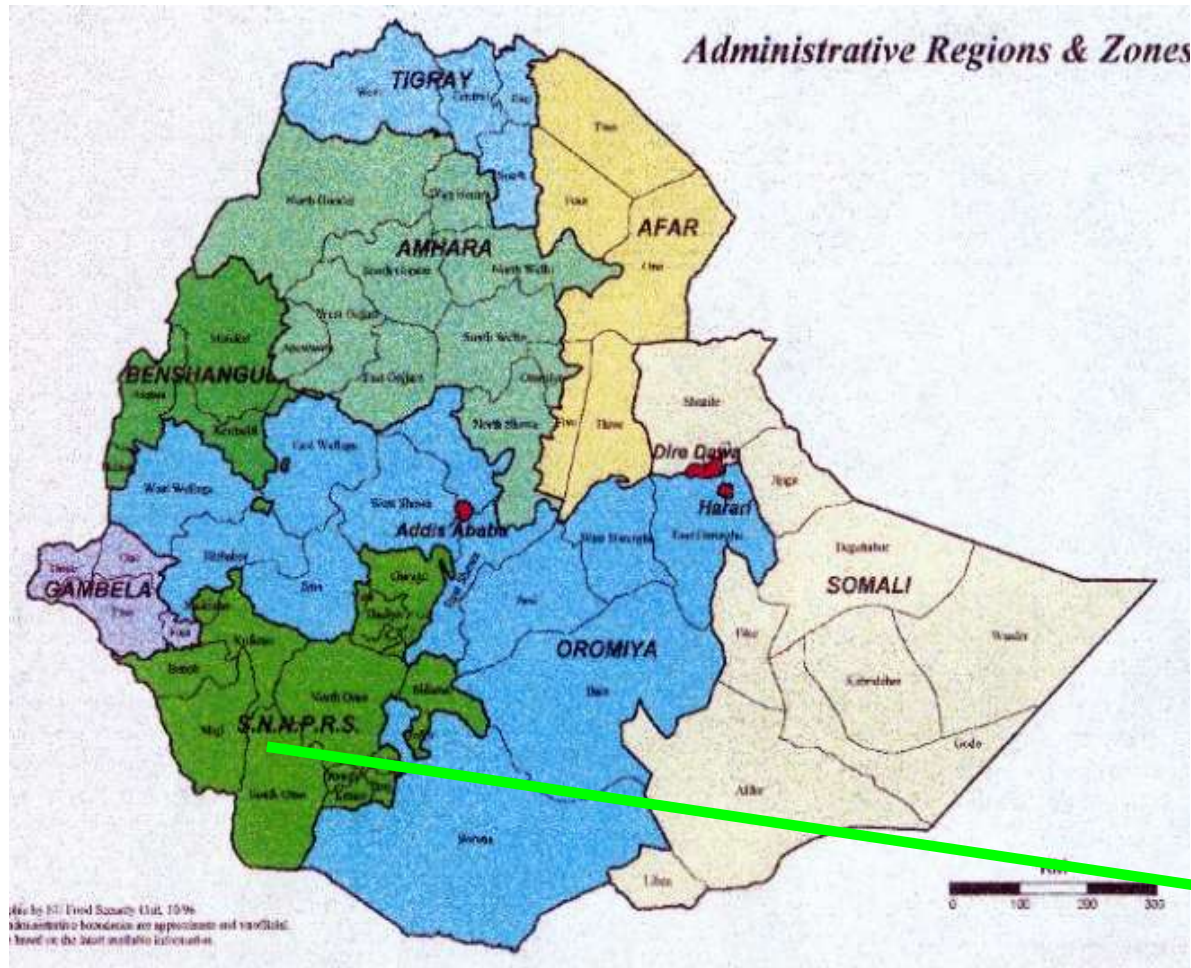
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Debrezeit, Ethiopia



N₂Africa target region



Putting nitrogen fixation to work for smallholder farmers in Africa



Target legumes in SNNPR



- Common bean, Halaba and Boricha woredas
- Chickpea, Damote Gale and Meskan woredas



Activities implemented



crop	cluster	# of sites	# of farmer	Planned	Achieved	Reason
Common bean	Diagnosis	10	10	50	10	Distance
	Demonstration	10	10	50	10	Distance
	Adaptation	10	400	400	400	
Chickpea	Diagnosis	10	25	50	ongoing	
	Demonstration	10	25	50	ongoing	
	Adaptation	10	400	400	ongoing	
	Total	40	1000	1000	NF	



Trainings given



Training season	No of trainee		Location	Content of Training
	Male	Female		
1	23	7	Halaba	Rhizio bio , Annual activities, Agronomy, Diffusion of Innovation
2	24	6	Boricha	
3	23	13	D/Gale	
4	25	11	Meskan	
Total	95	37		



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Contents of training



- Rhizobial-based biofertilizer application
 - Concept and principle
- Agronomy and Extension

Evaluations or field days = Too early to evaluate as it is on its way to commence it soon



Volume of inputs for Adaptation trial



- *Seeds = 28 quintal*
- *Inoculants= 1000 packed bags (250 for each Woreda)*
- *Fertilizers= 10quintal*



Stakeholders engagements



- Researchers and Technical staff from HU
- SARI
- Woreda Experts at different level
- Primary cooperatives and Union
- Menagesha Bio-ferti plc
- Farmers



I+P

+P-I

-I-P

+I-P



Main Challenge



DAs hadn't enough time to
work more N₂ Africa
Technologies - b/se of
other activities burden




Main Challenge



ፊርድጋጅ፡፡

የበሎቄ ነፍሳት ተባዮች

የበሎቄ ዝንብ Bean Fly (Bean Stem Maggot = BSM) *Ophiomyia phaseoli*



Bean fly (*Ophiomyia phaseoli*)



በበሎቄ ዝንብ ተል የተገደ ጠጠር

The image shows a slide or poster with Amharic and English text. At the top, it says 'ፊርድጋጅ፡፡' and 'የበሎቄ ነፍሳት ተባዮች'. Below that, it reads 'የበሎቄ ዝንብ Bean Fly (Bean Stem Maggot = BSM) Ophiomyia phaseoli'. The central part of the slide features two photographs of the bean fly against a light yellow background. Below these photos, the text 'Bean fly (Ophiomyia phaseoli)' is printed. To the right, there is a photograph of a bean plant with yellowed leaves, and below it, the Amharic text 'በበሎቄ ዝንብ ተል የተገደ ጠጠር' is visible.

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Rhizobiology Activities



- Symbiotic effectiveness and host range on Faba bean rhizobia isolated from nodules of Fb is underway by an MSc student at HU



Way forward



- Scaling out best technologies
- More focus in Adaptation
- Quality/ standard of inoculants may need to test



THANK YOU!