



**OARI**  
**Bako ARC**  
**Mid-season Evaluation Workshop**

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**Oct 2,2014**

## **Outline of presentation ( From April until now)**



- **Training Given on bean production( uses of BNF**
- **Training given on soybean utilization**
- **Activities so far implemented**
- **Volume of input used**
- **Field day organized**
- **Data so far collected**
- **Challenges**

## Training given in collaboration with Extension and SIMLESA teams



District	Number of Farmers trained		DA	Woreda expert
	Male	Female		
Ilu Galan	119	35	6	3
Bako Tibe	125	24	5	3
Gobu Sayo	97 + 47*	29 + 41*	4	2
Sibu Sire	84	27	3	6
W/ Tuka	154	29	6	5
Ilu-Harar	189+ 125*	85+ 105*	6	4
<b>Total</b>	<b>873 + 172*</b>	<b>325+145*</b>	<b>30</b>	<b>23</b>
<b>Over all</b>	<b>1198 + 462*</b>		<b>53</b>	

\*= number of farmers who participated on soybean utilization

# One day meeting with BOA ( five districts, 25 participants)



- The main objective was to discuss how the technologies will be addressed the end users
- They agreed to mobilize DA and farmers
- We also agreed to give training and inputs for the targeted farmers ( by center)



# Training on bean production and management ( about BNF)





**Women were preparing recipe from SB**



**They were preparing 'wot' from soya**



**She was introducing d/t type of soya recipes**

**They were preparing soya milk**





**They were Tasting Soya local recipes, Gobu Sayo district**



**At Ilu -Harar district**

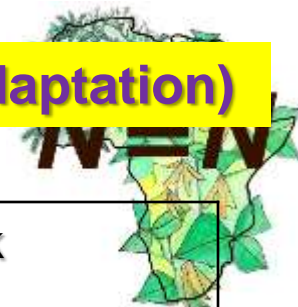
# Activities Implemented since June, 2014



Activity	No. planned	No. addressed	Field performance	Remark
CB diagnosis	75	40	81%	Some plots were attacked by wild animals and weed (7)
SB diagnosis	75	40	78%	Some plots were attacked by wild animals and weed (9)
Demonstration trials ( CB & SB)	300	150	60%	Most of the farmers did not managed very well
Adaptation SB	400	380		95% addressed
Adaptation CB	400	300		75% addressed
Total	1250	910		73% addressed



## Number of Farmers addressed in each district( by Scaling/Adaptation)



District	No. farmers addressed	Sole beans	intercroppin g	Remark
Ilu galan	100	50	50	
Bako Tibe	120	70	50	
Gabu Sayo	100	50	50	
Sibu Sire	100	50	50	Not good
Wayu Tuka	110	90	20	
<b>Ilu-Harar</b>	<b>150</b>	<b>150</b>	<b>0</b>	Excellent in performance
	680	460	220	85% of targeted farmers

# Volume of Inputs



<b>crop</b>	<b>Number of varieties</b>	<b>Amount (t/ha)</b>
<b>Common bean</b>	<b>Three(Loko,Anger,Nasir)</b>	<b>1.44</b>
<b>Soybean</b>	<b>Three ( Didesa,Ethio and Chari)</b>	<b>1.87</b>
<b>Strains ( Soybean)</b>	<b>85 packets</b>	<b>3400 birr</b>
<b>Strains ( common bean)</b>	<b>75 packets</b>	<b>3000 birr</b>



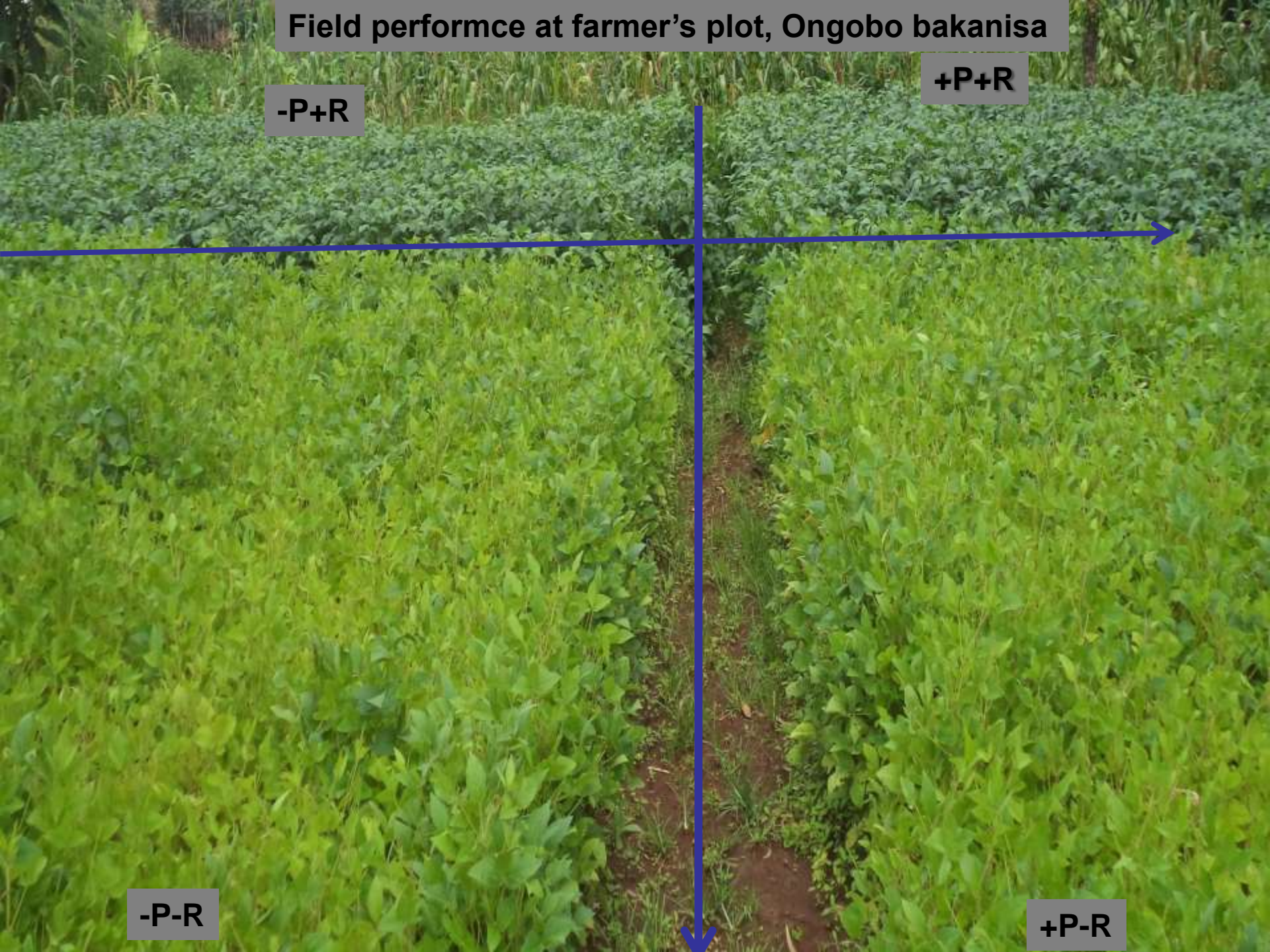
Field performce at farmer's plot, Ongobo bakanisa

-P+R

+P+R

-P-R

+P-R





# Tesisa's farm plots, Gambela Tarre

+R-P

P+R

-P-R

+P-R





**Shiferw Dhugasa's plot**

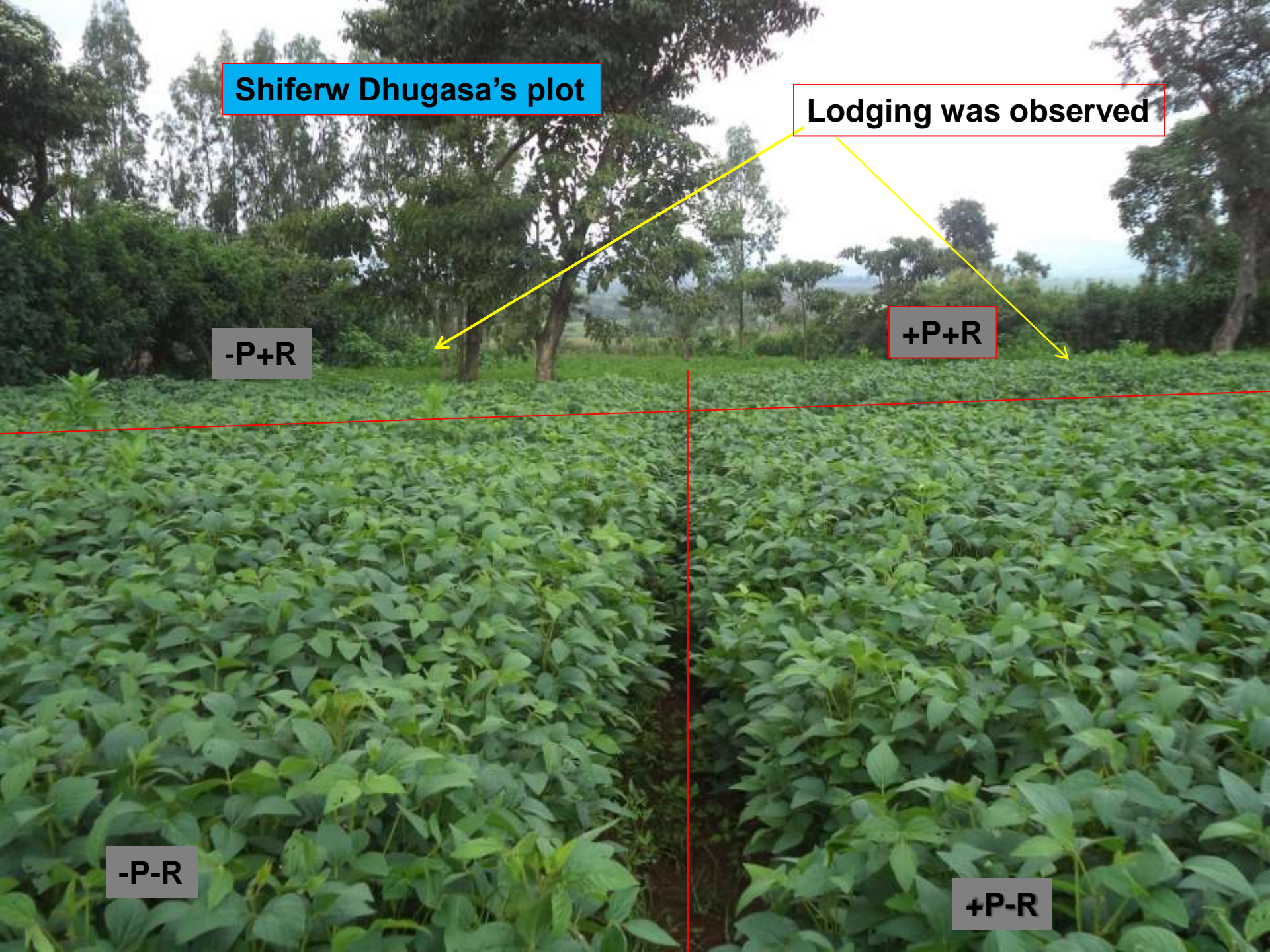
**Lodging was observed**

**-P+R**

**+P+R**

**-P-R**

**+P-R**





**Well Managed plots**



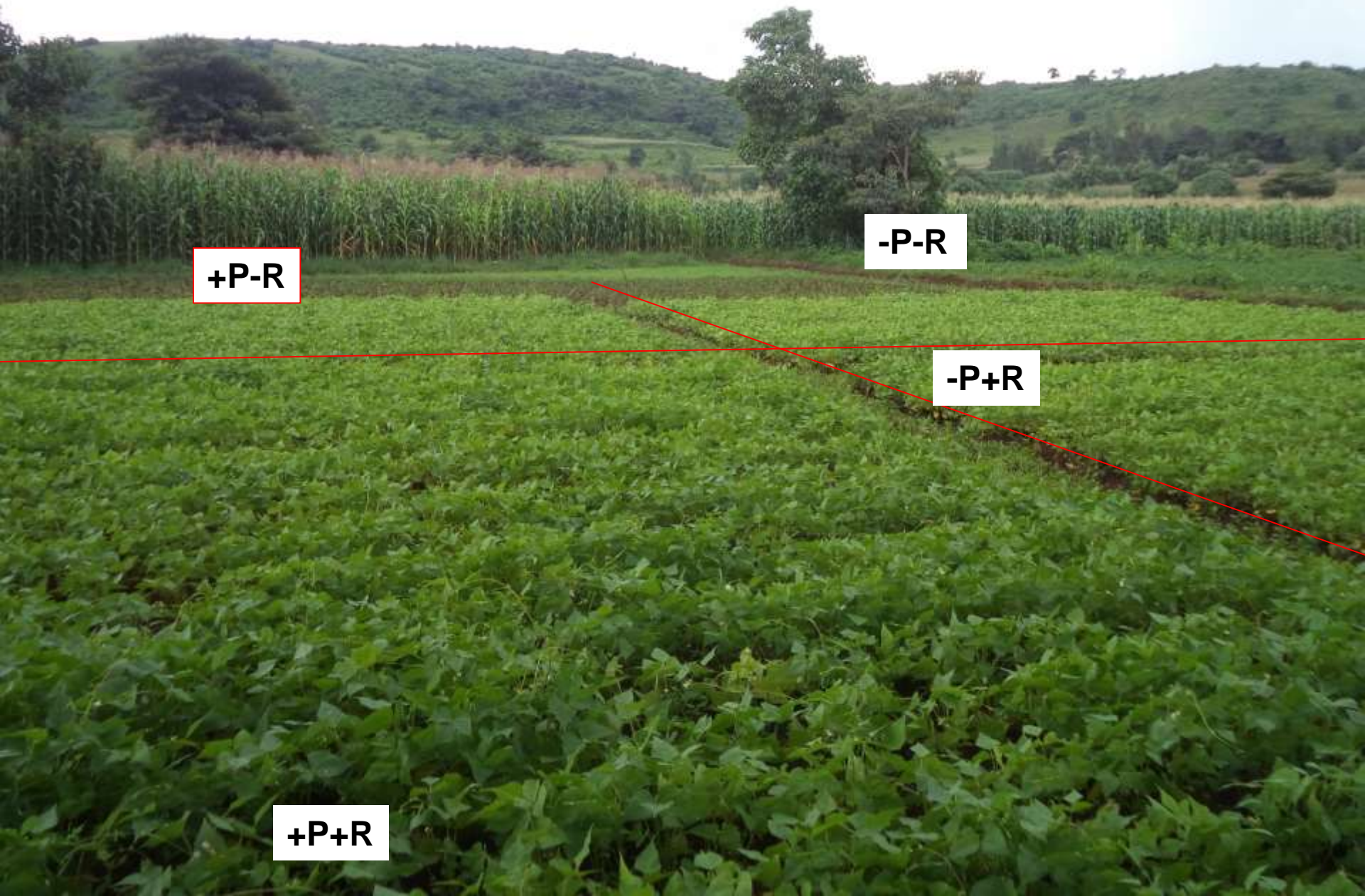
**Miss managed plots**



**Putting nitrogen fixation to work for smallholder farmers in Africa**



# Common bean diagnosis Trials, Bako Tibe District



**+P-R**

**-P-R**

**-P+R**

**+P+R**



**Current Stage**





# Demonstration plots planted by model farmer, G/Tare

-P-R

+P+R

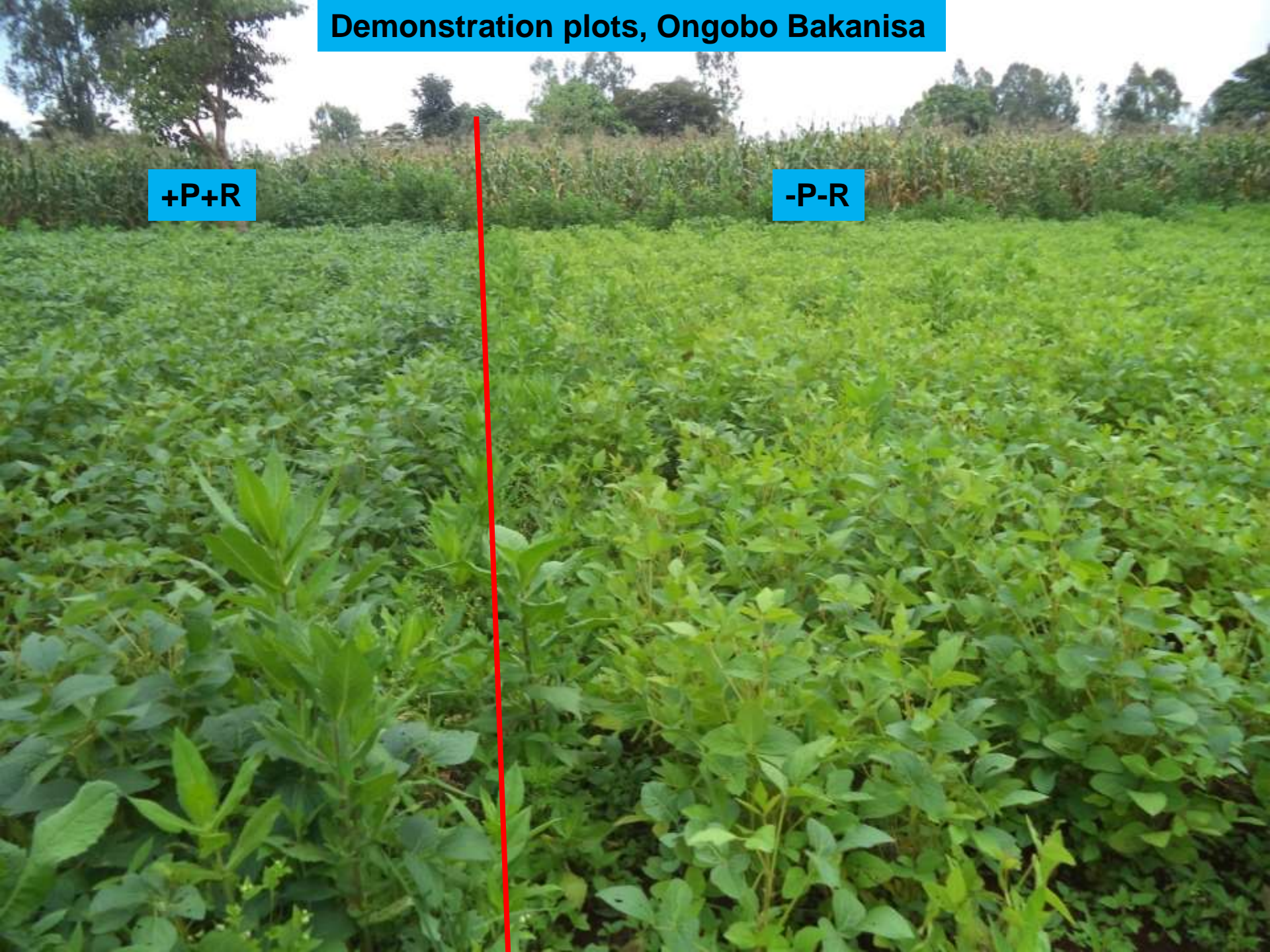




# Demonstration plots, Ongobo Bakanisa

**+P+R**

**-P-R**





**Maize-Soybean intercrops with R**



**Common bean scaling up, Ilu Galan district**



**Maize-CB intercrops with R**



**Soybean scaling up, around Ayeru area, Ilu Galan**





# Field day organized



Location	Crop	Planned number of farmers to participate	Number of farmers participated	Remark
Bako Tibe	CB( diagnosis and adaptation)	750	0	Budget was not released. <b>Crops already matured</b>
Gobu Sayo	SB ( diag and demo)	850	0	Will be done as per budget release. <b>Crop stage is good for visit</b>
Ilu Harar	SB adaptation	500	122	Supported by regional budget
W/ Tuka	SB adaptation	500	0	Will be done as per budget release.
Total		2800	122	

## Field day organized at Chewaka



**He introduce use of biofertilizer**



**The farmer explained uses of BNF**



**89 males and 33 females households were participated**



Oromia TV invited



Leaflets were dispatched



- Farmers commented that uses of BNF is economical
- **But their worry is market linkage**
- **Access to strains**
- Addresses of chair person of the cooperative
- **Mob: 0936923712 ( obbo Shaafii)**



Putting nitrogen fixation to



# Data Collected so far



Composite soil sample collected





## Tissue biomass



On farm diagnosis trials  
 District: Golcha sava Kebele: G/Tora Village: \_\_\_\_\_ Date: 2-7-2014  
 Farmer's name: Mamuye Gutu  
 GPS: 01.0134 N 051.0131 E Altitude: 1616m  
 Crop: Soybean Variety: Didessa

### A) Biomassa Sampling

Plot No	Treatment	Date of biomass sampling	Area of biomass sampling plot (m <sup>2</sup> )	No. of plants in sampled area	Fresh weight of all above ground biomass of ten plants
	VI( Didessa ) + P +R	<u>2/7/2014</u>	<u>200</u>	10	<u>696</u>
	VI( ( Didessa ) -P +R	''	<u>200</u>	10	
	VI( ( Didessa ) -P-R	''	<u>200</u>	10	
	VI( Didessa ) +P-R	''	<u>100</u>	10	

### B) Nodule count

Treatment	Nodule score of 10 plants									
	Plant number...									
	1	2	3	4	5	6	7	8	9	10
VI( Didessa ) + P +R	<u>2</u>	<u>1</u>	<u>1</u>	<u>12</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>35</u>
VI( ( Didessa ) -P +R										

## Nodules



Putting nitrogen fixation to work for smallholder farmers in Africa



# CHALLENGES



- **Critical shortage of vehicle**
- **Shortage of training (long and short)**
- **Untimely release of budget ( no field exchange visit until now except at Chewaka)**
- **It needs high energy, time, skill and knowledge ( training and ---??)**
- **Needs frequent supervision and follow up ( vehicle)**
- **Reluctactness of Woreda experts for frequent supervision and management**
- **Cost for soil analysis increased**





**THANK YOU VERY  
MUCH!!**