

# **ETHIOPIAN INSTITUTE OF AGRICULTURAL RESEARCH**

## **N2Africa Mid-Season Evaluation Workshop Melkassa Proresses**

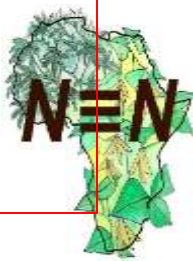
By  
MARC N2 Africa team

Debrezeit Agricultural Research Center  
Debrezeit, Ethiopia  
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# Introduction

- ❖ N2 Africa trial activities implementation was started by MARC from the bridging phase.
- ❖ Successful achievements
- ❖ Best variety were selected (which used in this year trial)
- ❖ From the input trial  $\Rightarrow$  diagnosis trial
- ❖ The diagnosis trial  $\Rightarrow$  demonstration
- ❖ Demonstration  $\Rightarrow$  Adaptation
- ❖ It is understood that the N2 Africa technologies have the possibility to be widely adapted and used
- ❖ Good potential



# Activities implemented

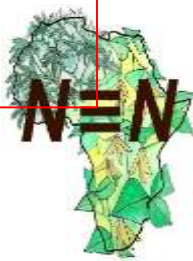
## Activity clusters:

### Diagnosis Trial

- ❖ Number of sites: - One District, 5 kebeles
- ❖ Number of farmers reached: 25 farmers (5farmers/kebele)
- ❖ Planned vs Achieved: done as per planned

### Demonstration trial

- ❖ Number of sites: - one District, 5 kebeles
- ❖ Number of farmers reached: 25 farmers (5farmers/kebele)
- ❖ Planned vs Achieved: done as per planned



# Activities implemented...

## **Activity clusters:**

### Adaptation Trial

- ❖ Number of sites: - one District, 5 kebeles
- ❖ Number of farmers reached: - 300 farmers (60farmers/kebele)
- ❖ Planned vs Achieved: done as per planned

### Researcher-Managed Agronomy trial

- ❖ Number of sites: - on station at MARC
- ❖ Planned vs Achieved: done as per planned



# Trainings

**Number of training sessions: - two**

1<sup>st</sup> training Session on:

- ❖ Overview about common bean production Challenges and opportunities
- ❖ Integrated Soil fertility management
- ❖ Importance of inoculant and practical session how to use inoculant
- ❖ Seed production challenges and opportunities
- ❖ Number of trainees Farmer M: 48 F: 2 total: 50
- ❖ DAs and Experts Male: 16 and female: 4 Total: 20 Total: M: 64  
F: 6 Total: 70



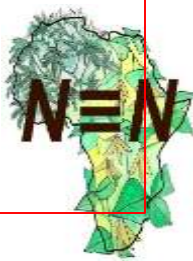
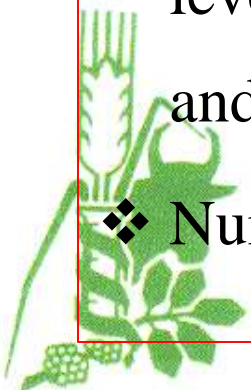
# Trainings...

## 2<sup>nd</sup> training session:-

- ❖ Awareness creation on data collection, field book management
- ❖ Training on data collection: M:11 and F: 3 total=14 DAs

## Evaluations or field days

- ❖ Regular visits by researchers, technicians and Development agents
- ❖ organized farmers field day involving farmers, zonal and district level administrators, development agents, Donors, implementers and invited researchers and research administrators
- ❖ Number of participants M: - **175** F: **61** Total=**236**

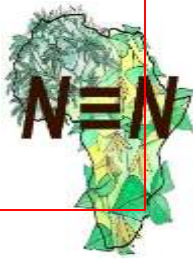
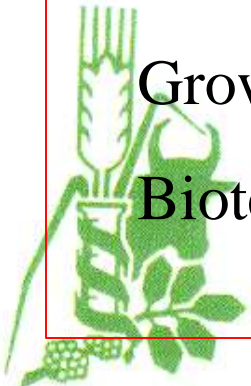


## Volume of inputs(adaptation trials):-

- ❖ Seeds: - 17.5quintal bean (Nassir) and 1quintal Maize (MHQ138)
- ❖ Inoculants:-350 pack
- ❖ Fertilizers: - 8quintals

## Stakeholders' engagements

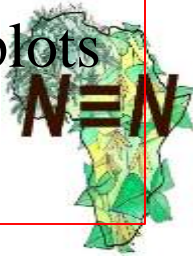
- ❖ Implementers: - MARC (with the integration of Crop and Land & Water Resource Research Process) and N2 Africa-Ethiopia
- ❖ Partners: BoA (West Arsi Zone and Shala Woreda), Gudina Seed Grower Association, Farmers, TL-II, PABRA and Menagesha Biotechnology Industry.



# Data collection status

Data collecting has been going on effectively as per the field book/data collection sheet such as:

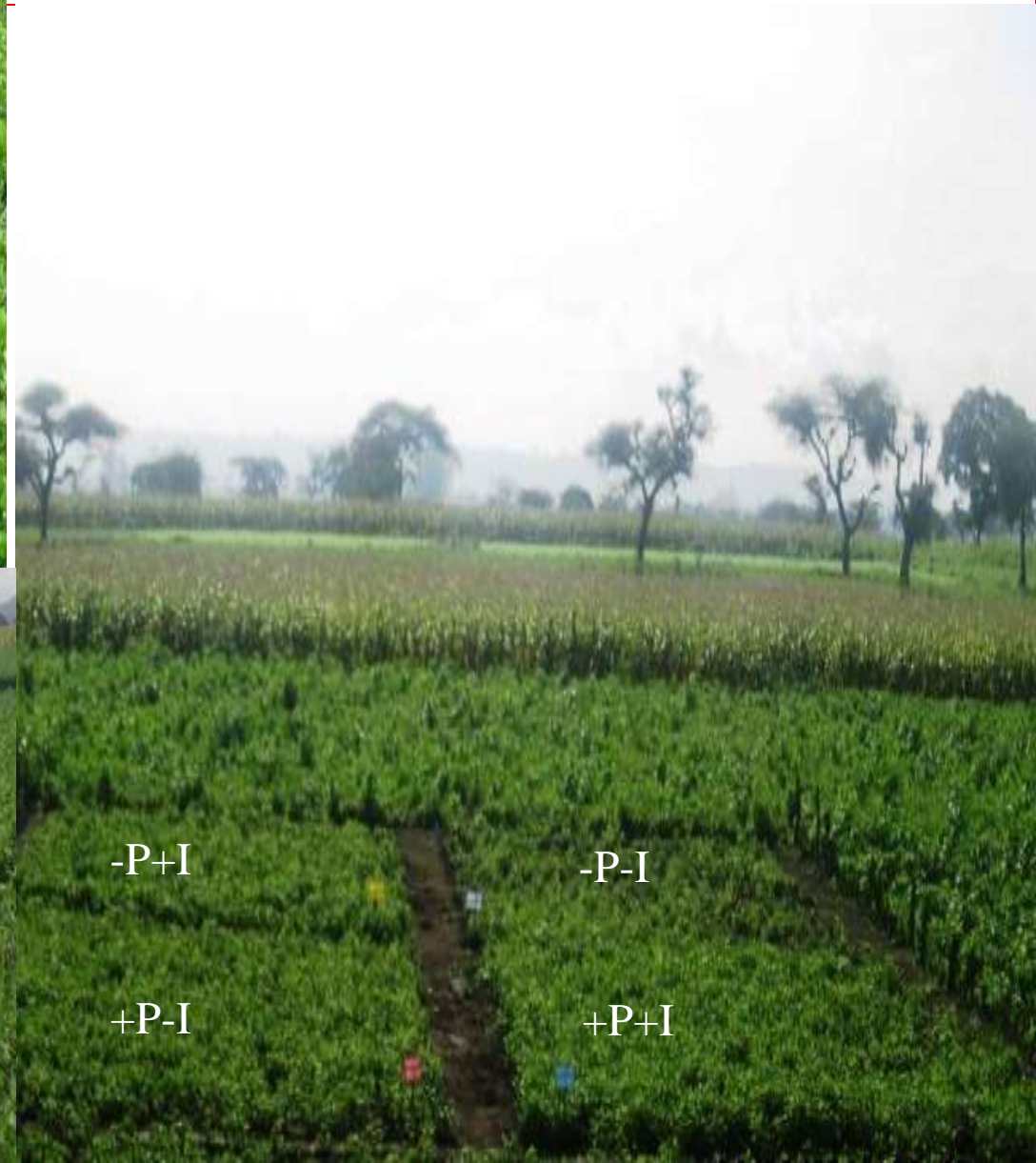
- ❖ Pre planting soil data sample
- ❖ Germination percentage
- ❖ Meteorological (rain fall) data
- ❖ GPS coordinates of the homestead
- ❖ Pest (insect, disease and weed) infestation
- ❖ Nodule count on the diagnosis trial field etc.
- ❖ Generally Meta-data and farm typology questions Information, observations and measurements on N2Africa experimental plots were collected as per the crop stage and activities calendar.



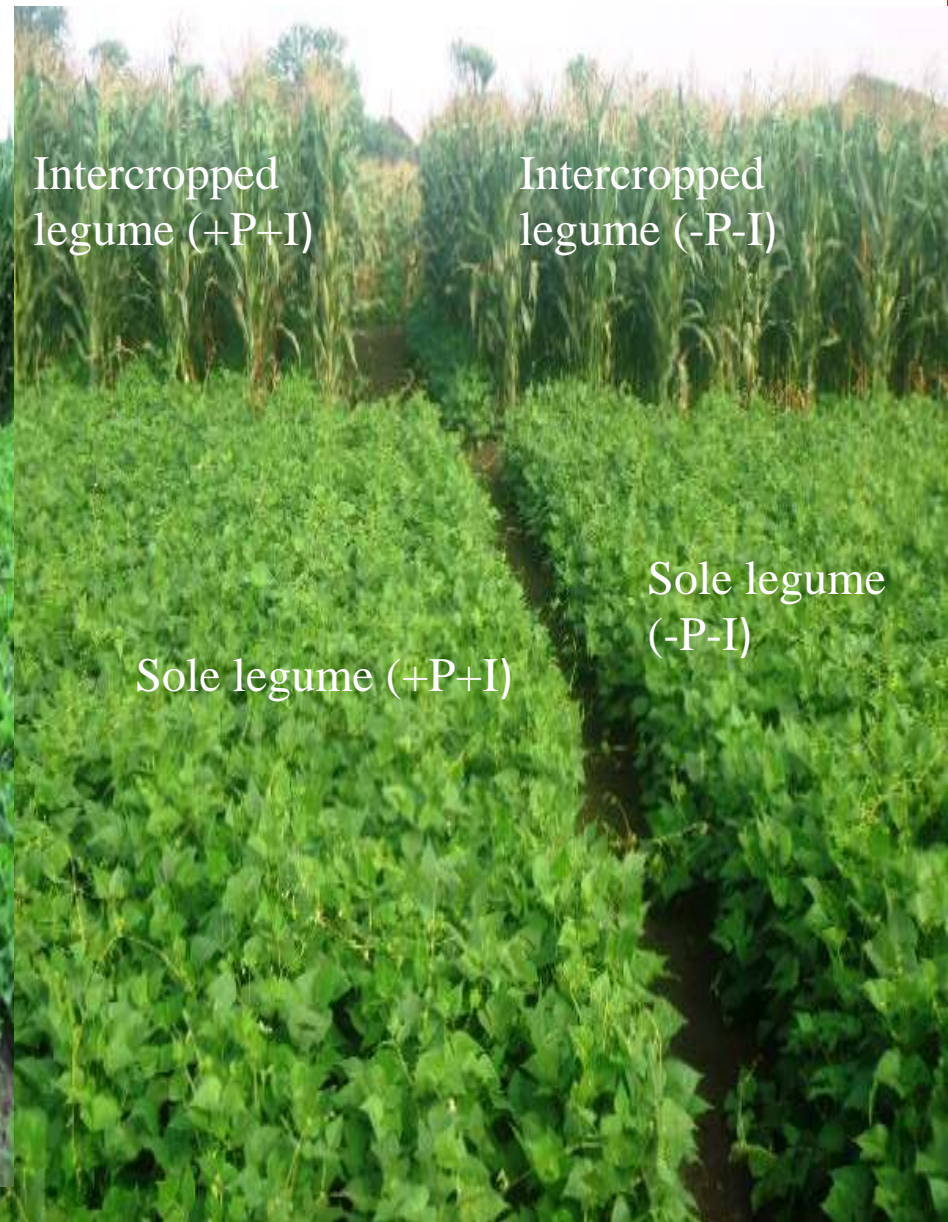
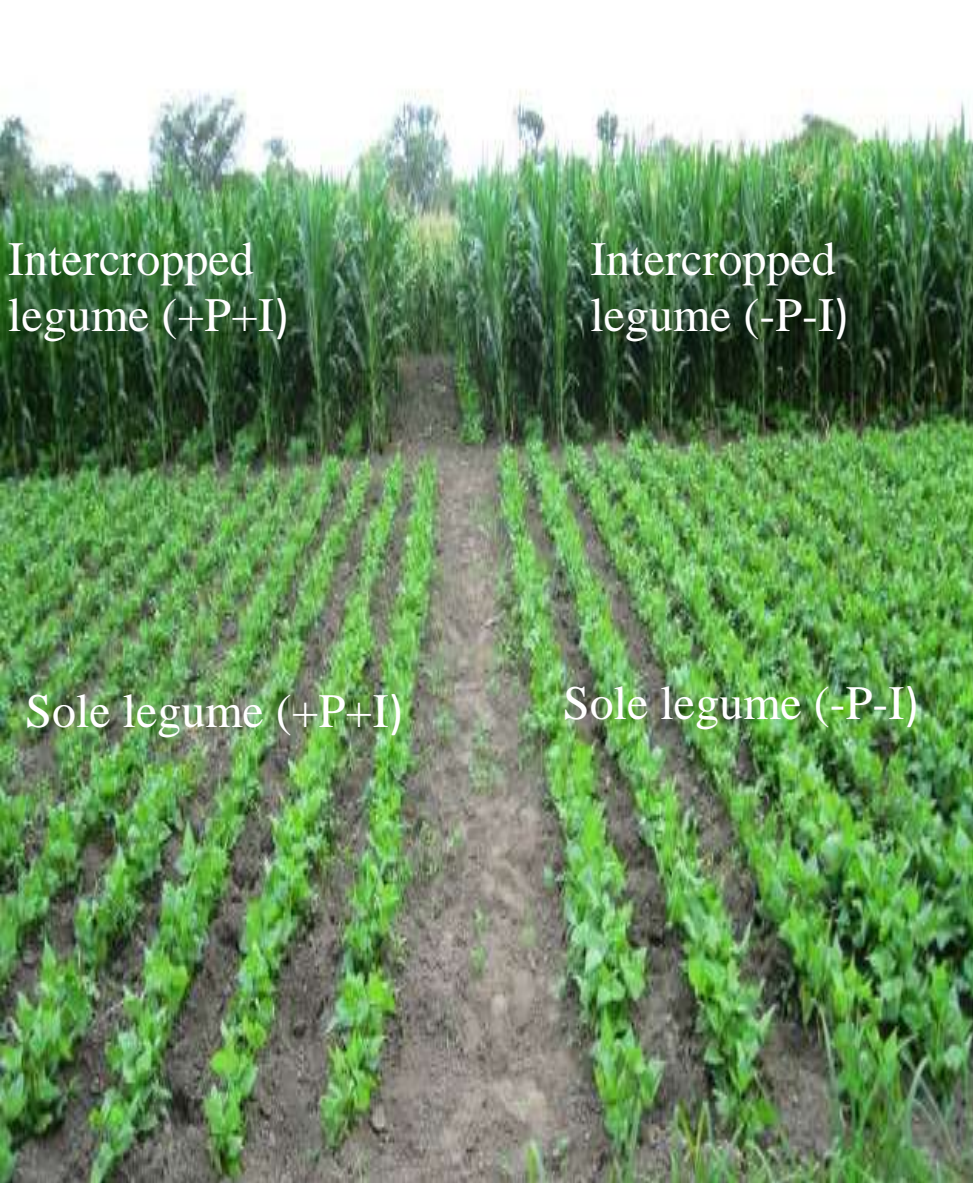


# Pictures Show trial status at different Crop stages

## Diagnosis cluster



# Pictures Show trial status at different Crop stages...



# Pictures Show trial status at different Crop stages...

## Long term Agronomy trial



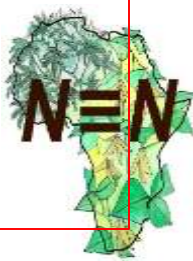
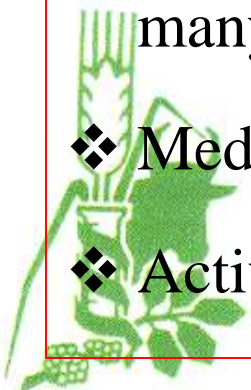
# Pictures Show Trainings activities





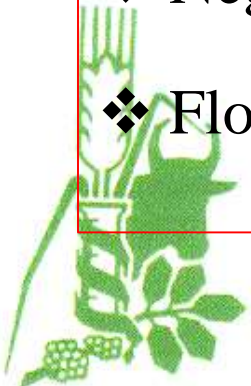
## Achievements (conclusion)

- ❖ Training conducted Awareness created about N2 Africa plots
- ❖ Successful establishment of the trials as planned
- ❖ The clear difference of N2 Africa plots from farmers plot⇒the impacts of inputs (inoculant) observed
- ❖ Awareness creation how to collect data⇒ data collection on progress
- ❖ Field day conducted⇒ N2 Africa technologies demonstrated to many peoples
- ❖ Media coverage⇒ N2 Africa technologies promoted
- ❖ Active partnerships establishment



# Main Challenges

- ❖ Fund transfer (internal)  $\Rightarrow$  critical problem
- ❖ Facilities (vehicles) specially due to the nature of the trials, the DAs forced to travel large distance on foot to manage the trials
- ❖ Severe infestation of bean stem maggot and weed and drought problem at trial establishment
- ❖ Animal damage
- ❖ Negligence of few farmers
- ❖ Flooding at some trial fields

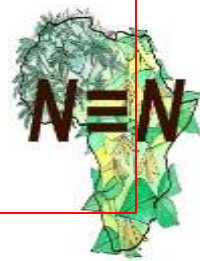


# Way Forwards

- ❖ Diagnosis cluster ⇒ Demonstration cluster
- ❖ Demonstration cluster ⇒ Adaptation cluster
- ❖ Adaptation cluster ⇒ wide scaling out
- ❖ Further technical support to farmers and extension workers

## Capacity building:

- Training (ToT, direct farmer training, demonstration)
  - Pre and post-harvest crop management
  - Quality maintenance
  - Seed marketing
  - Cleaning, Packing and Selling
- ❖ On farm seed production





**THANKS FOR YOUR ATTENTION !**

