

2022/09/29, ICES@Addis Ababa



Community-based road improvement and maintenance as social implementation in Ethiopia: SATREPS-MNGD (Making Networks for Glocal Development) [2]



Source (Kaneko & Shigeta 2020: 3)

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MNGD

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MAKING NETWORKS FOR GLOCAL DEVELOPMENT

The Project Outline

COMPONENT

1

Geotechnical
Engineering research



COMPONENT

2

Applied Agricultural
Research



COMPONENT

3

Social Implementation



MNGD

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MAKING NETWORKS FOR GLOBAL DEVELOPMENT

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Objectives

To report on the activities of an international collaborative research project between Japan and Ethiopia, the Science and Technology Research Partnership for Sustainable Development (SATREPS)

1. Background of component 3
2. The progress report of the component 3
3. The MNGD-ECO

1. Background of C3

Core members in Component 3



Prof. SHIGETA
Agric. Anthro.,
Area Studies



Dr. Kusse
President
Jinka Univ.



Dr. Eilias
Vice-president
Jinka Univ.



Prof. Gebre
Social Anthro.



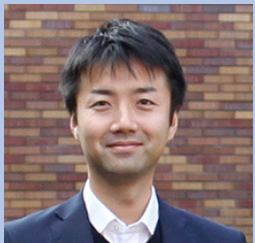
Dr. FUKUBAYASHI
Engineering



Dr. KANEKO
Anthro.,
Area Studies



Dr. MIYAZAKI
Engineering



Dr. KIMURA
Engineering
GIS



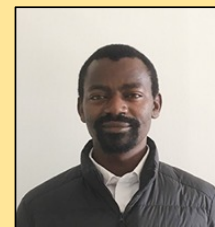
Mr. MATSUKUMA
Anthro.,
Area Studies



Dr. IKEDA
Design



Mr. HAGIWARA
Cult. Anthro.



Mr. Argachew
Ph.D. student in
Area Studies



Mr. Kassahun
Ph.D. student in
Area Studies



Mr. Melaku
Jinka Univ.



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Natural science background

social science background

Planned activities for C3

3.1

To gather information on, and make analysis of occurrences of road disasters as well as the current state of countermeasures undertaken in South Omo Zone

Identify the location of the black cotton in the community road



Photo 2019



3.2

To develop operation models of construction measures for problematic soil

Proposed site for test driving



Photo 2019

3.3

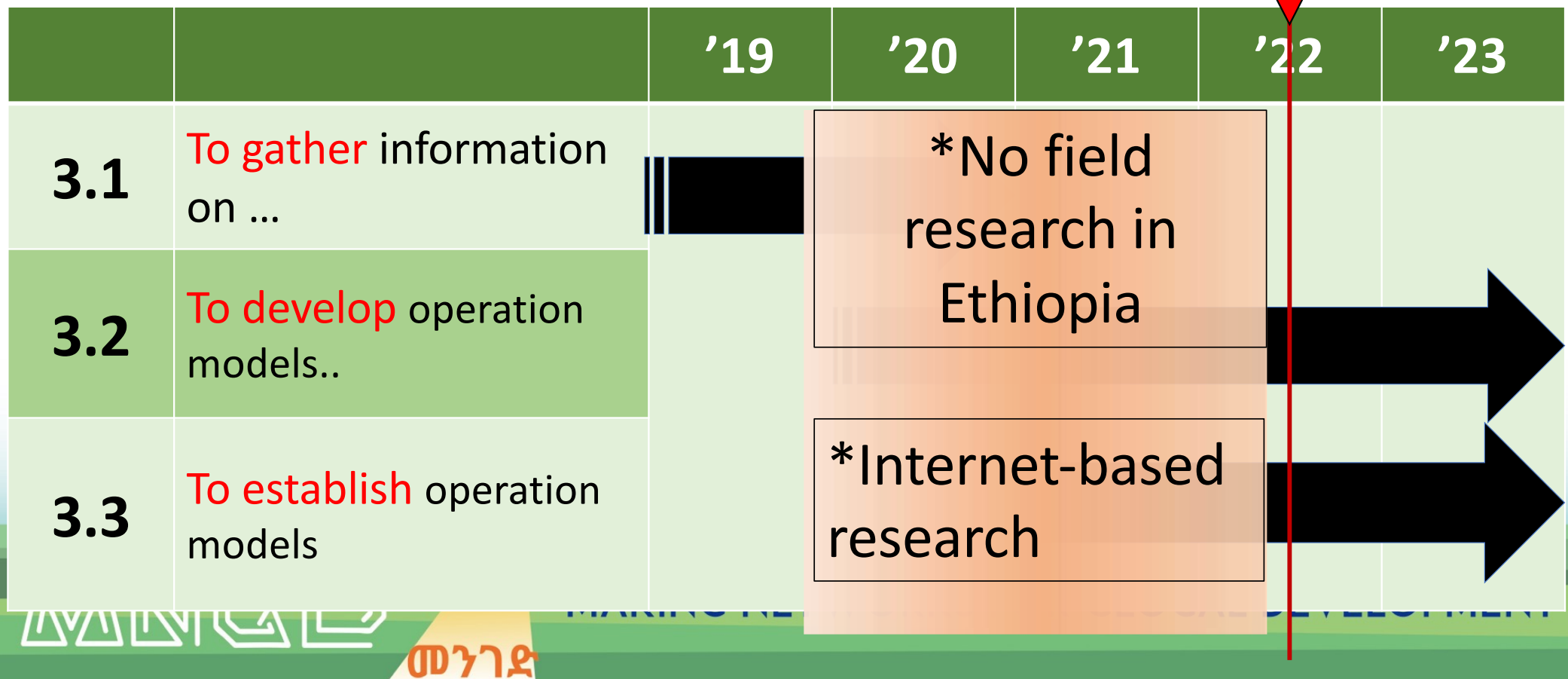
To establish operation models of construction measures for problematic soil, and road maintenance and management system



Demonstration for construction of community road, December 2019

Progress of C3 research activities

As of this moment



3.1. To gather info.

1. Selecting model sites in FY2019

- 1) Recommended by the local officials,
- 2) Conducting preliminary research to create the lists
- 3) Preliminary research by international students, Mr. Argachew & Mr. Kassahun

2. Getting the road traffic data etc. in the two model sites by the Jinka Field Research Team[FRT] from June 2021-July 2022

3. Academic staff in JKU have conducted their researches

2. Progress report

August 2019



January 2022



taken by Jinka FRT

ANCD

3.1 To gather info.



Mr. Argachew Bochena
Title: Rural community road access and its effects on staple crop production: The case of enset production and sustainability in South Aari woreda, Ethiopia

Kassahun Yemane
Title: Rural Road Development and Its Challenges in South Ari Woreda, South Omo Zone, Ethiopia

3.2. To develop operational model



Chemistry Lab.



3.3. Demonstration for community road construction [November-December 2019]



Fig. 5 Discussion with the Villagers and the Project Team (Matsukuma et al. 2021: iii)



Fig. 6 Villagers Forming the Gutters for Drainage (Matsukuma et al. 2021: ii)



Fig. 7 ZAIRAICHI-MNGD issue2

https://repository.kulib.kyoto-u.ac.jp/dspace/bitstream/2433/262770/1/zairaichi_3_a.pdf 

3.3. To establish ...road maintenance & management system [August 2022]



Demonstration in the model site B in 2019 and in 2022 [photos above]



Local officials in the model site B



Planned activities for the C3 from October 2022 to March 2023

3.1	To gather information on, ...	<ul style="list-style-type: none">- Conducting field work by Japanese members and collaboration with JKU & Jinka FRT.- Collecting data for creating the disaster map with the location of the black cotton soil [Collaboration with the Component 1]
3.2	To develop operation models ...	<ul style="list-style-type: none">- Collecting the basic data from the weather station- Preparing for the test driving [Collaboration with the Component 2]
3.3	To establish ...management system	<ul style="list-style-type: none">- Preparation for another demonstration in a model site

Proposed plan for the C3 in the MNGD project

Geotechnical
Engineering
research



COMPONENT

1

Applied
Agricultural
Research



COMPONENT

2

Social
Implementation



COMPONENT

3

**Collecting data/
examining case
studies**

- **from the test- driving**
on a road with plant-
based additives in
variety of geographic
features
- **from the
demonstration in
model sites**

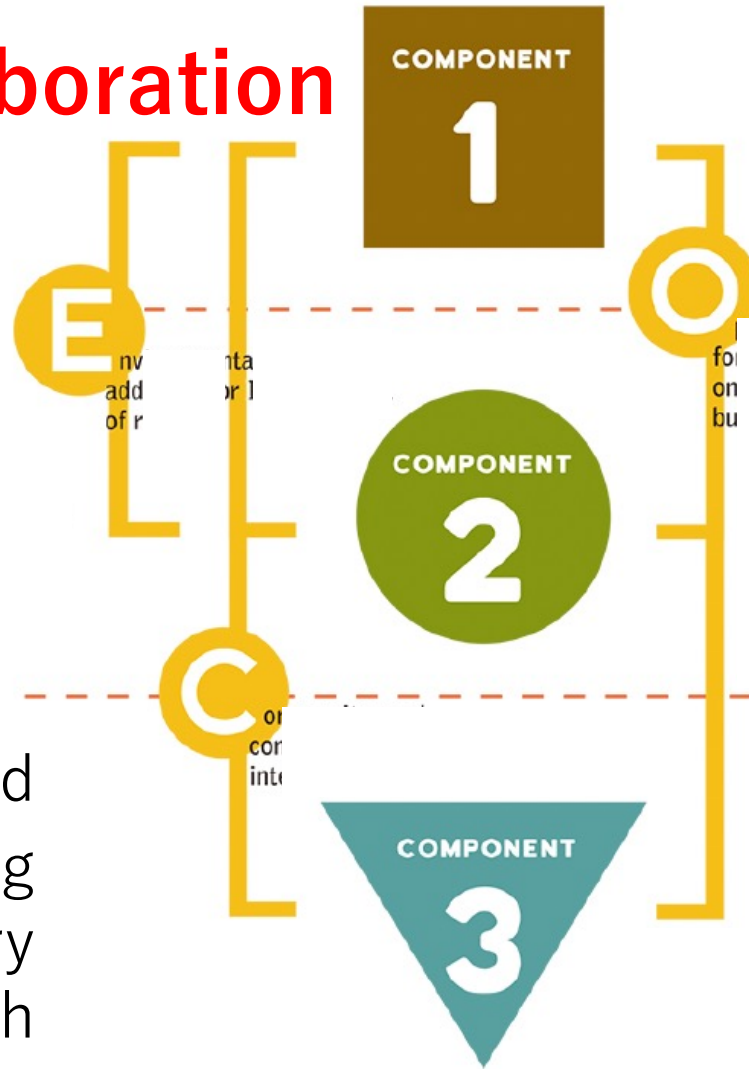
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MNGD-ECO: Research Collaboration

3. MNGD-ECO

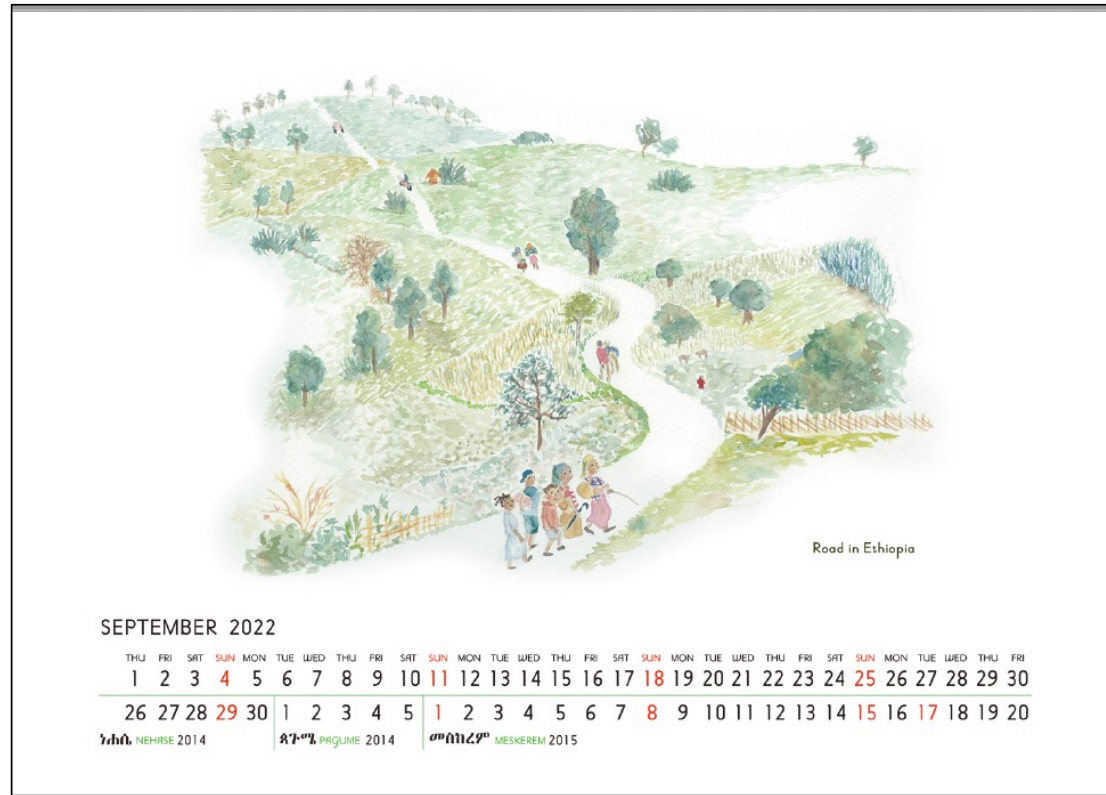
Environmental
friendly additives for
Improvement of
roadbed

Community road
construction by taking
interdisciplinary
approach



Thank you very much for your attention.

MNGD
CALENDER
2022-2023
2014-2015



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