

National Repository to bring Researchers Work into  
Spotlight:  
The Ethiopian Attempt to Link Universities and  
Research Centers with the National Repository



## Outline

- A little bit of history
- Mission
- Objectives
- Methodology
- Stakeholders
- Responsibilities

## A little bit of history

- **November 2017** –Ethiopian Research and Education Research Network (EthERNet) hosted the UbuntuNet Connect 2017 Conference; with a special workshop on **Towards an African Open Science Platform Infrastructure Framework.**  
Outcome: The State Ministry of Science and Technology opened the workshop and announced in an interview the decision to create a National Academic Digital Repository for Ethiopia -> **NADRE concept start**
- **February 2018** -> **Kick-off Conference with Pre- and Post Conference Workshops**
- **June 2018** -> **NADRE training workshops at university level have started**
- **December 2018** -> HE the Minister of Science and Higher Education **formally kicked-off the implementation at the university side**
- **July 2019** -> **INAUGURATION of NADRE**



## NADRE Mission

- NADRE intends to provide researchers, lecturers, students and stakeholders from outside of the academic world **access to all research works published by Ethiopian universities and research institutions.**
- All public and private universities as well as research institutions will contribute to the NADRE **provide all citizens access to it.**
- **To encourage each Ethiopian university to build its own institutional repository and to provide the [Ethiopian Research and Education Network](#) (EthERNet) access to that institutional repository.**

## Objectives

- **To increase the access to research works published by Ethiopian researchers**
- To foster the dissemination of research outcomes and make them, as well as their authors, more **visible inside and outside the country**
- **To spread completed research works** to all corners of the country to **allow other researchers to build on.**
- NADRE mainly include **Master theses, dissertations, journals, articles, conference proceedings** as well as all works published by researchers from Ethiopian universities and research institutions as well as from Ethiopian researchers living abroad.
- All articles will be published under **Creative Commons licenses** and will be tagged with **Digital Object Identifiers** (DOIs)

# Methodology (1/4)

## A. Work Plan

### ➤ Kick-off Conference, including the Pre- and Post-Conference Workshops

- In the Pre-Conference workshop **all participants have to become familiarized with DOIs and the ORCID IDs**
- **All researchers** participating at the Conference should have **received their ORCID IDs** by the end of the Conference
- The Post-Conference workshop participants have been **trained on how to use and maintain repositories**

### ➤ 1st Training Plan

- The Conference and its pre- and post-workshops have structured the next steps in the training to implement and to use the university repositories and NADRE.
- **Detailed training plans followed for cluster universities** with sessions on remote and at place

## Methodology(2/4)

### ➤ **A series of Workshops**

- **At 4 cluster universities workshops took place.**
- The agenda for the workshops was structured in accordance to the **needs of librarians and their ICT staff** as discovered during the Conference Workshops

### ➤ **NADRE Website and Manual**

- The NADRE Website and Manual have been compiled.
- The information necessary to use and maintain NADRE in an efficient and sustainable way for the users (researchers and students) and the NADRE experts (librarians and the ICT-staff) has been stored on the NADRE Website.

### B. Outcomes/outputs so far

- Kick-off Conference, including the Pre- and Post-Conference Workshops
  - **Training sessions for the university librarians and the library ICT staff who participated in the workshops.**
  - **All Ethiopian universities have their DOIs (sub)prefixes specifying their universities)**
  - **All researchers of the participating universities have received their ORCID IDs**
  - **Trained university librarians and library ICT staff in the use and maintenance of repositories, application of DOIs and ORCID IDs**



## Methodology(3/4)

### ➤ Trainings

- **Trainings at place and on remote**
- Agenda for webinars and consultancy hours for librarians and ICT-staff
- **Workshops at the cluster universities**
- Each workshop and webinar has to be announced and has been documented either by written reports or the provision of the 'machine' reports especially for Webinars

### ➤ NADRE Website and Manual

- The Project will be finalized with the formal handover of the NADRE [Website](#) and [Manual](#) as an information resource to EthERNet for the technical maintenance and further development and to the Education Strategy Centre (ESC) for the management and continuous training of researchers.


# NADRE Website and Manual

<https://nadreweb.ethernet.edu.et>



<https://nadreweb.ethernet.edu.et/doc/documentat>

### NADRE Services

|   |  |
|---|--|
| <br><b>Repository</b><br>A standard-based Open Access Repository | <br><b>Agenda</b><br>A tool to manage from simple lectures to complex conferences |
|---|--|



**Documentation**

Expand All

- > Introduction
- For Users
- For Experts

**Introduction**  
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This section of the NADRE Website contains the NADRE Manual, which is a compilation of the information necessary to use and maintain NADRE in an efficient and sustainable way. Information is separately provided for users (e.g., researchers and students) and experts (e.g., librarians and ICT staff).

# Stakeholders

Source: Roberto Barbera



MoE



Policy

Funding



Ethiopian Universities



## Responsibilities of the Ethiopian NREN (EthERNet)

- **To provide the space on the cloud or servers to host the NADRE** and the Institutional Repositories of those universities and research institutions requesting that.
- To provide the **technical support**
- To do the programming necessary for the NADRE to be fully accessible and in operation
- To manage the **creation of DOI sub-prefixes** to those universities and research institutions requesting them
- **To inform universities and research institutions how to request and obtain a DOI** prefix for their Institutional Academic Repository
- **To train local IT staff to cope with the IT-related challenges** arising during their Institutional Academic Repository operation and maintenance

## Responsibilities of Education Strategy Center (ESC)

- To **coordinate between** universities, research institutions and EthERNet
- To **advise users how to work with the NADRE**
- How to **get an ORCID ID** and how to link research works to the ORCID profiles of their author(s)
- To **organize workshops and tutorials for university librarians and curators of Institutional Repositories (IRs)**
- To report towards **the Ministry of Science and Higher Education**

## Responsibilities of Ethiopian Universities

- Universities have to collect their researchers articles, master students theses and PhD students dissertations and publish on their IRs that it can be harvested by NADRE
- To **disseminate** among their researchers the standards necessary to accommodate research works to **the NADRE repository**
- To promote the creation of ORCID IDs by their researchers
- To manage the issuance of DOIs to tag research documents
- To handle the license issue with their researchers
- To **run the plagiarism check**, prior the research documents will be provided to the NADRE
- To curate their IRs

## Conclusions

- Those universities that are not able to set up their IRs will get support from EthERNet.
- Besides its technical aspects the main challenge is to define the automatic procedure to copy contents from IRs to the NADRE.
- NADRE is triggering a discussion on an Ethiopian National Open Access/Data/Science Policy which is currently in preparation.
- NADRE services are linked with the FAIR principles (Findable, Accessible, Interoperable and Reusable) and they can be "cloned & customized" wherever needed.
- The TVET sector shows special interests on the NADRE.

## Reference

- Persistent identifiers for researchers and research outputs / Roberto Barbera [PRESENTATIONSNADRE-2018-043]
- Short Invenio Admin Guide / Riccardo Rotondo [PRESENTATIONSNADRE-2018-046]
- How to request a new DataCite DOI prefix or a sub-prefix of the DOI prefix assigned to EthERNet / Roberto Barbera ; Mario Torrisi [PRESENTATIONSNADRE-2018-045]



**Thank you!**

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