

Open Repositories 2021 - 16th International Conference

BROKERAGE EVENT TOWARDS A FAIR COMPLIANT COMMONS IN THE ASREN REGION

Experience from Ethiopia

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Outline

- Challenges of the higher Education Sector
- History behind NADRE
- Achievements
- NADRE Services
- Hands on Trainings
- Bootcamp
- Next Steps
- Summary and Conclusions

Higher Education Sector in Ethiopia



Demographic Challenge:

Population: 112 million (2019, Worldbank)

Area: 1,1 million km²

GDP per Capita: \$ 2,772

Median age: 19.5 years (Worldometers)

Higher Education Challenge:

Growth from 4 universities in 2004 to 45 in 2019

Problems of Scientists and Scientific Organisations in Ethiopia

■ Faced by **Researchers**

- **Fragmented** resources locations
- Lack of **streamlined thematic** research
- **Plagiarism**
- **Intellectual Property** Rights
- Lack of **Metadata** and **Within-Documents** Search
- Lack of Global **Visibility**

■ Faced by **Universities**

- **Replication** of similar resources
- Realization of **harmonized curriculum**
- Instructors' **quality gap** (young or remote universities)
- Lower **course contents quality** within private colleges/universities
- **Lack of coordination** of national research efforts
- Provide researchers adequate **access to international research documentations**

History behind NADRE

- **March 2016** – Workshop on Promoting Open Science in Africa in Dakar (Senegal), jointly organized by Sci-GaIA, TANDEM and MAGIC EU funded projects
 - Outcome: decision is made to hold a similar event in Ethiopia
- **November 2016** – The Sci-GaIA workshop on Open Science for Research without Frontiers is held in Addis Ababa
 - Outcome 1: 2 people from Ethiopia are sent to the WACREN e-Research Hackfest, held in Lagos (Nigeria) in the same month
 - Outcome 2: decision is made to hold an e-Research Hackfest in Ethiopia
- **February 2017** – The EthERNet e-Research Hackfest is held in Addis Ababa
 - Outcome: several services and applications are deployed and developed; some of them were the very first prototypes of today's NADRE services

- **November 2017** – EthERNet hosts the UbuntuNet-Connect 2017 conference; the special workshop Towards an African Open Science Platform Infrastructure Framework is held as side-event
 - Outcome: The Ministry of Education attends the workshops and announces later on the news the decision to create a National Academic Digital Repository for Ethiopia -> **NADRE concept starts**
- **February 2018** – The NADRE Kick-off Conference is held in Addis Ababa with the participation of international experts
 - Outcome: in March, GIZ open a tender for a service provision for the “Implementation of the NADRE”
- **June 2018** – Prof. Roberto Barbera bid wins the tender -> **the actual implementation of NADRE starts**
- **August 2018** – The workshop on Research Data Stewardship and e-Infrastructure for Ethiopian Stakeholders is held in Gondar as a NADRE side-event co-organized by HESC and the University of Vienna

- **September 2018 – June 2019** – Working Group between the Higher Education Strategy Center (HESC) and the Consortium of Ethiopian Academic and Research Libraries (CEARL) the Open Access of Ethiopian Higher Education Policy linked with the Institutional Open Access Policy has been developed and submitted to the Ministry of Science and Higher Education.
- **May – June 2019** – Data Stewardship Training for librarians, data managers and data scientists as well as repository engineers took place at Catania University (Italy)
- **June – September 2019** – Training of trainers programme for the implementation of Data Management Plans have been conducted.

Achievements

November 6, 2019

Other **Open Access**

NATIONAL OPEN ACCESS POLICY OF ETHIOPIA FOR HIGHER EDUCATION

Minister of Science and Higher Education of Ethiopia

The document contains the Ethiopia national Open Access policy for higher education.

532

views

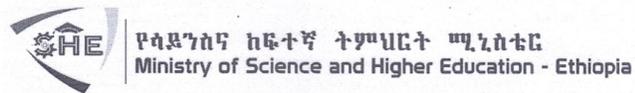
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downloads

[See more details...](#)

Preview

Page: 1 of 6 Automatic Zoom



NATIONAL OPEN ACCESS POLICY OF ETHIOPIA FOR HIGHER EDUCATION

1. Aims and Scope of the Policy

The Federal Democratic Republic of Ethiopia (FDRE) Ministry of Science and Higher Education is committed to supporting research of high quality and to ensuring that public research spending will lead to maximum economic and social benefits. The FDRE Ministry of Science and Higher Education is committed to supporting research of high quality and to ensuring that public research spending will lead to maximum economic and social benefits.

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Keyword(s):

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Higher Education

Communities:

National Academic Digital Repository of Ethiopia

License (for files):

[Creative Commons Attribution](#)



All versions

Found 10358 re

Access Right

- Open (10322)
- Restricted (18)
- Embargoed (16)
- Closed (2)

May 1, 2019 (v1)

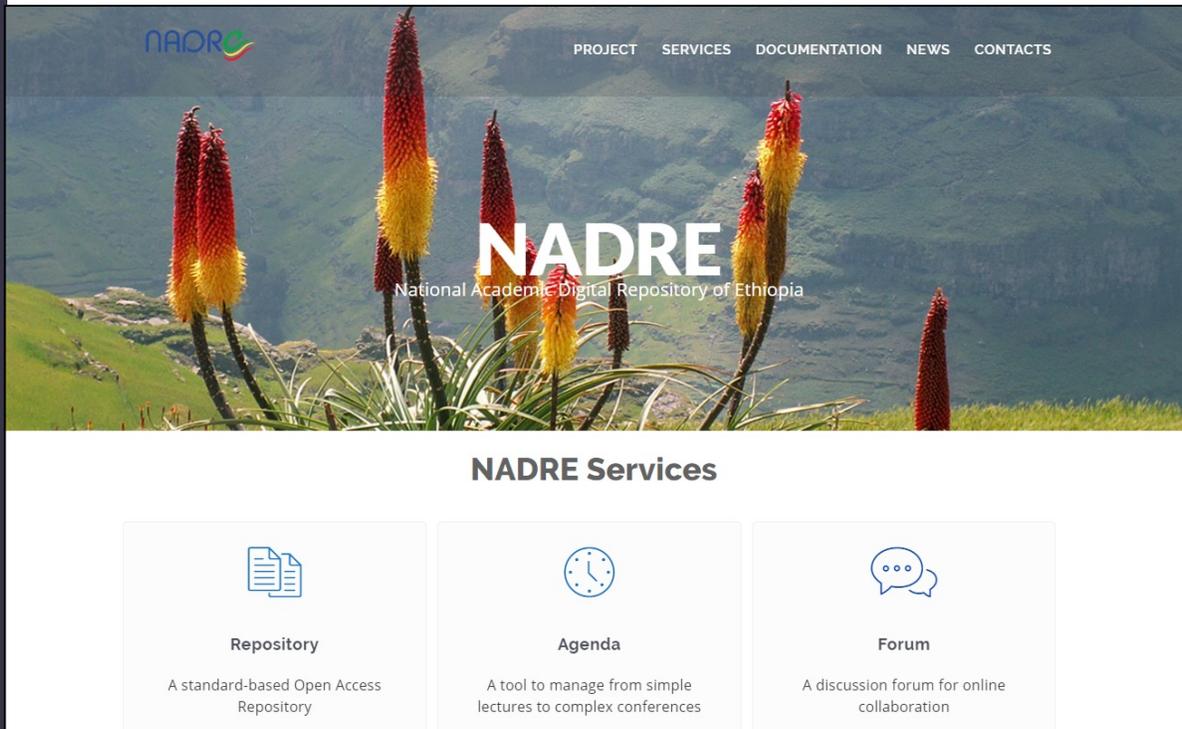
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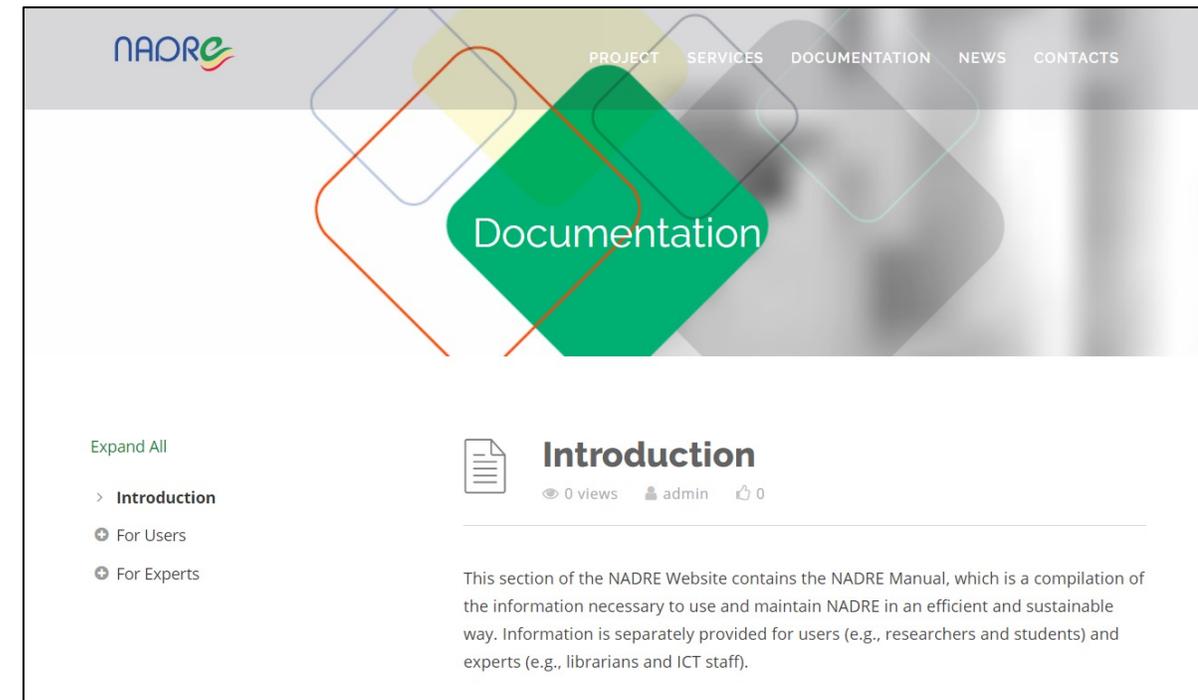
NADRE Website and Manual

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



The screenshot shows the homepage of the National Academic Digital Repository of Ethiopia (NADRE). The header features the NADRE logo and navigation links for PROJECT, SERVICES, DOCUMENTATION, NEWS, and CONTACTS. The main banner displays the text "NADRE National Academic Digital Repository of Ethiopia" over a background image of red and yellow flowers. Below the banner, the "NADRE Services" section is presented with three cards: "Repository" (described as a standard-based Open Access Repository), "Agenda" (described as a tool to manage from simple lectures to complex conferences), and "Forum" (described as a discussion forum for online collaboration).

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



The screenshot shows the "Documentation" page on the NADRE website. The header includes the NADRE logo and navigation links. A large green diamond graphic contains the word "Documentation". Below this, there is a section titled "Expand All" with a list of items: "Introduction" (with 0 views, admin user, and 0 likes), "For Users", and "For Experts". The "Introduction" section is expanded, showing a document icon and a description: "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)."



NADRE Services

- NADRE services' enablers
- Repository
 - Invenio
- Agenda
 - Indico
- Forum
 - Discourse
- Wiki
 - MediaWiki
- Platform for MOOCs
 - Open edX

General Hands on Trainings in 2018

- Library Carpentry Workshops
- ORCID & DOI Workshops
- NADRE Conference for librarians
- Research Data Stewardship
- Legal issues
- Data Management Plan Workshop

Hands on Trainings for Librarians in 2018

- Jimma University
- Aksum University
- Dilla University
- University of Gonder

Bootcamp at Catania University 2019

- One NADRE manger
- ONE Librarian
- One system admin
- Three software developer

Next Steps in NADRE

- Training for institutional repository managers and data stewards
- Training of data stewards to assist scientists and researchers in the use of Open Science and Open Access
- Training in leadership and governance of NADRE
- Bringing visibility to Ethiopian research outcomes

Summary

- NADRE has become the key for the Ethiopian higher education sector to participate in the international research community
- NADRE links Ethiopian universities with the top research universities in the world
- NADRE updates researchers and scientists about the most recent research outcomes around the globe
- NADRE brings visibility to Ethiopian researchers' work
- NADRE opens the door for Ethiopian students to high quality online education from elite universities
- NADRE will guide the Ethiopian society into citizens science

Gratitude – Sci-GaIA Team from Catania University



Prof. Roberto Barbera



Bruce Becker



Rita Ricceri



Mario Torrisi

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Thank You

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