



LEAP4FNSSA Project



Deliverable N.: D3.1

Title: Database on projects

Funding scheme: Coordination and support action

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LEAP4FNSSA CONSORTIUM

The project consortium is composed of:

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SPAIN	Instituto Nacional de Investigacion y Tecnologia Agraria y Alimentacion OA MP (INIA)
SWEDEN	Sveriges lantbruksuniversitet (SLU)
THE NETHERLANDS	Stichting Wageningen Research (WR)
UGANDA	Regional Universities Forum for Capacity Building in Agriculture Limited (Forum) by Guarantee (RUFORUM) The Registered Trustees of the Association for Strengthening Agricultural Research in Eastern and Central Africa (ASARECA)
UNITED KINGDOM	Association of Commonwealth Universities (ACU) Forum for Agricultural Research in Africa (FARA) Natural Resources Institute-University of Greenwich (NRI)

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Work Package	Number	WP3	Title	Database on projects

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Dissemination level	<input checked="" type="checkbox"/> public <input type="checkbox"/> confidential			

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Abstract (for dissemination)	The database can be currently found in the following link https://library.wur.nl/WebQuery/leap4fnssa-projects?q=* .
Keywords	Database, clustering

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Abbreviations

ASARECA	Association for strengthening Agricultural Research in Eastern and Central Africa
AU-EU	African Union-European Union
CCARDESA	Centre for Coordination of Agricultural Research and Development for Southern Africa
CGIAR	Consultative Group for International Agricultural Research
CORAF	West and Central Council for Agricultural Research and Development
DG DEVCO	Directorate-General for International Cooperation and Development
e.g.	Exempli gratia (« for exemple »)
ERAfrica	Developing African-European Joint collaboration on Research and Innovation
EU	European Union
FAO	Food and Agriculture Organization of the United Nations
FNSSA	Food and Nutrition Security and Sustainable Agriculture
FP7	Seventh Framework Programme of the European Commission
GDPR	General Data Protection Regulation
HLPD	High Level Policy Dialogue
KMS	Knowledge Management System
LEAP-Agri	Long-term EU-Africa research and innovation Partnership on food and nutrition security and sustainable Agriculture
LEAP4FNSSA	Long-term EU-AU Research and Innovation Partnership for Food and Nutrition Security and Sustainable Agriculture
M	Month
WP	Work Package

1. Current status

The database is available at the following link https://library.wur.nl/WebQuery/leap4fnssa-projects?q=*. The reader should click on the link above to enter the database and value its current form and potential uses. So far (January 2020) there **are 118 projects included in the database**, and more projects will be integrated soon. Some illustrations from the database can be found in Annex 1. A preliminary version of the database and its search tool was presented at the HLPD (High Level Policy Dialogue) AU-EU (African Union-European Union) meeting in Addis Ababa in November 2019. This presentation was well received by the participants. They showed a lot of interest for this tool and provided relevant feedback for further development. More details on the methodology used to build the database and next steps of the work can be found in the following parts of this document.

2. Background

The building of a database with past and ongoing projects related to the fields of LEAP4FNSSA is one of the two components of WP3 “Information Generation and Knowledge Management” System. It is a core component of the project since it will be used to provide detailed and structured information of the related activities towards the set-up of the Platform that will, in turn, help to strengthen the decision-making process of the HLPD and the EU-AU FNSSA Partnership.

The information in the database is compiled from public related FNSSA (Food and Nutrition Security and Sustainable Agriculture) projects (e.g. webpages) and/or public information available from other databases. Projects funded by the EU and by the AU were first included in the database, followed by projects funded (or coordinated) by other organisations such as FAO, CGIAR centres, FARA, ASARECA, CORAF/WECARD, CCARDESA, EU and AU member states, and other international organisations.

The database does not include data and information of individuals, in compliance with GDPR (General Data Protection Regulation) rules for personal data protection. The host structure currently used is the one of the WUR database of all projects currently linked to WUR, with the objective to transfer it (or at least link it) to the LEAP4FNSSA website <https://www.leap4fnssa.eu/> soon. The completion of the database will continue until M45.

3. Working steps

- As an initial step, discussions with the partners from Task 3.1 and then all partners of WP3 were conducted to decide on what kind of information/metadata/mandatory fields of each project should be included in the database. An illustration of this process is provided in the Table below.

Title*	
Acronym	
Start date*	Project status automatically set (not started, ongoing)
End date*	Project status automatically set (ongoing, finished)
Description*	Objectives, results etc in free text
Roadmap Theme*	Controlled list
Type of Project*	Controlled list
Country* (where project takes place)	Automatically also sets Region in Africa and Continent
Coordinator*	Controlled list
Partner(s)	Controlled list
Funders (Main funder, Co-funder)	Controlled list
Programme	
Total budget	In Euro
Website	When available
Links to documents	When available - Not publicly visible
Keywords	Free text (so far)

Table 1 - Metadata for project database. **In bold*** = mandatory field

- Extensive mapping of all ongoing and completed projects contributing to the FNSSA Roadmap (including EU projects supported through programmes such as Horizon 2020, FP7, ERAfrica project, LEAP-Agri project, etc.) was done in parallel. Projects funded under the AURG programme (AURG I and II) were also mapped. The general searching definition used to identify such projects was: “*Projects about Food Security or Nutrition Security or Sustainable Agriculture*”. The projects had to include partners from both Europe and Africa, and take place in Africa”. At first stage, the Cordis database, but also other programme databases, were explored for these searches.

- As a next step, selected projects were included in the database. To test the functionality of the different fields in the database (and to identify limitations that should be improved), a number of different national/bilateral programmes funded by EU countries (Denmark and the Netherlands) were also included, together with some DG Devco funded projects.

- Some of the outcomes of the work in these previous steps led to decisions concerning the different fields used to describe each project. These decisions are of a technical feature: for instance, while the term “Roadmap theme” and “subthemes” are a kind of backbone to the whole database, two or more subthemes can be assigned to each project (according to the Roadmap text). So far, it has been possible to assign at least one subtheme to all projects. In some cases there is some subjectivity. The term “Project type” was changed since the first

attempt for a controlled list was hard to use in a consistent way. The new list includes projects in a more useful way. “Keywords” were added with no particular strategy or vocabulary, and if the project itself had keywords already assigned, or if Cordis had keywords already assigned, these were the ones used. If there were no existing keywords in other sources, some important concepts from the text were picked up to facilitate the searching exercise.

- Quality assurance of the information of all inserted projects occurs to avoid subjectivity and/or other mistakes that can occur while feeding the database.

4. Next steps

Below are listed some short and long-term steps planned within Task 3.1:

- The database improvement work will continue by including more projects (projects from existing but also projects funded by programmes/organisations such as *EduLink* and *Erasmus+*, *DG Devco*, Philanthropic Foundations, and others). The inclusion in the database of new projects from programmes initially targeted will continue. In parallel, all LEAP4FNSSA partners have been asked to send information on projects that they want to be added, and results of this call will be included in the database as answers are received.

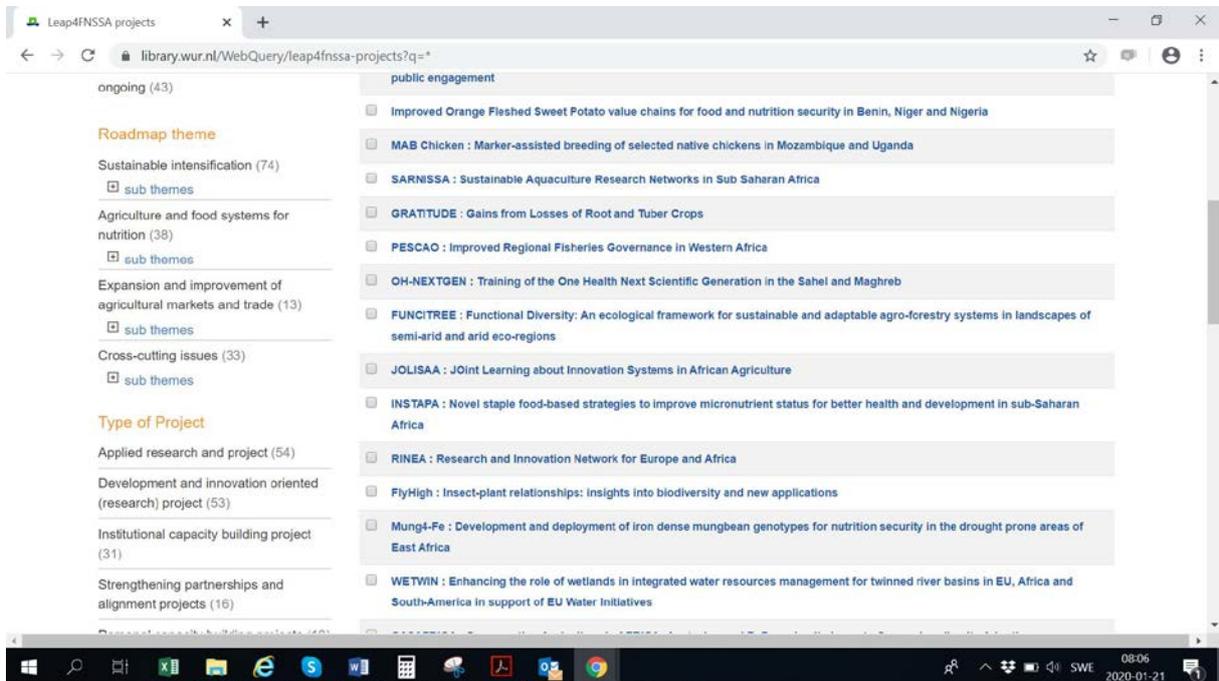
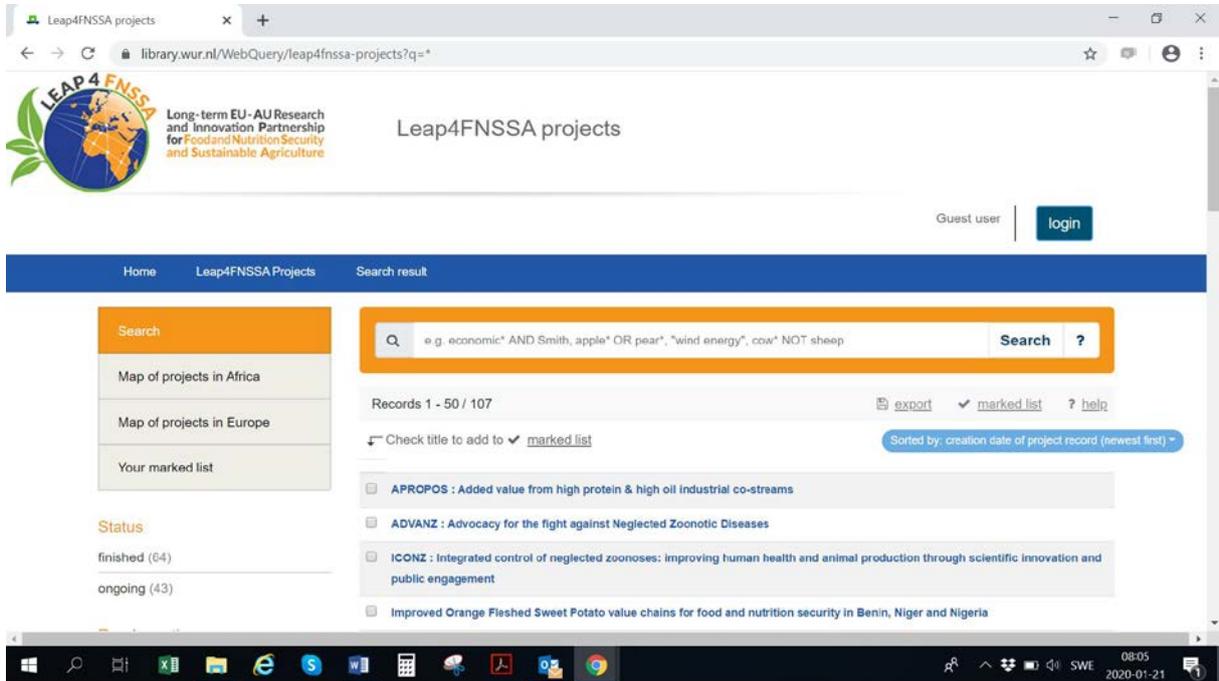
- The database will also serve as a source of information for supporting, designing, testing and then running the data and text mining system to be developed under Task 3.2 for the Knowledge Management System (KMS). The KMS will in turn help identify important projects/activities that will then be added to the database: in this way, both tasks are mutually supporting each other.

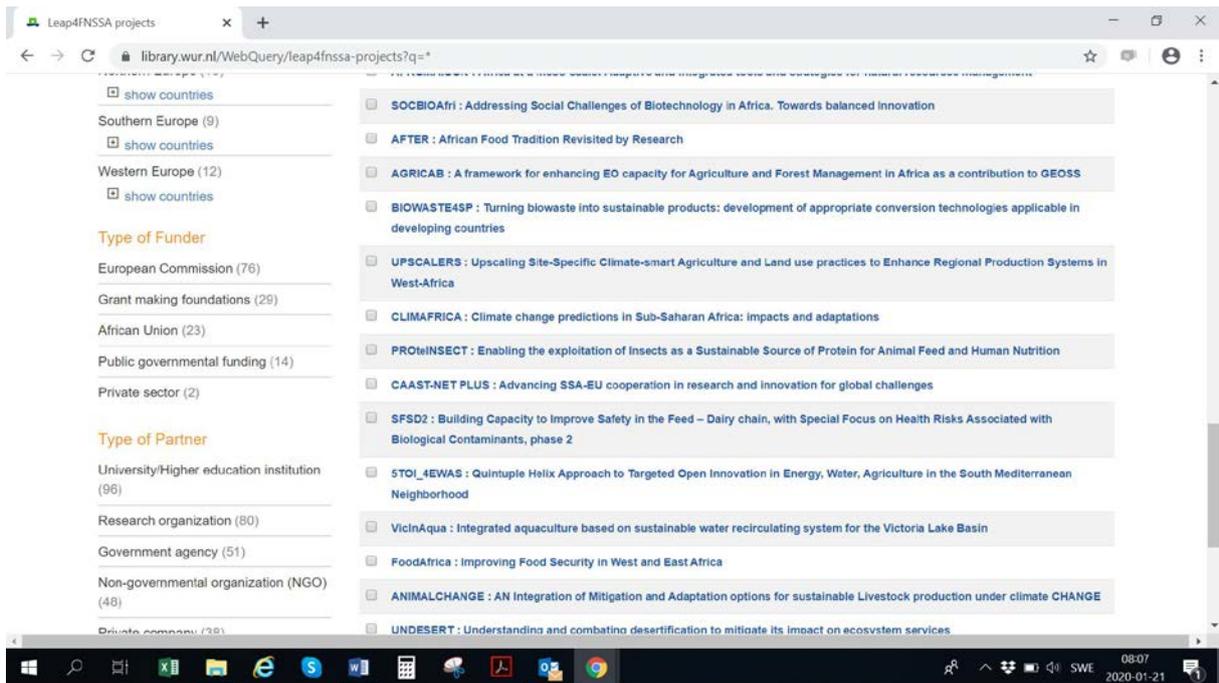
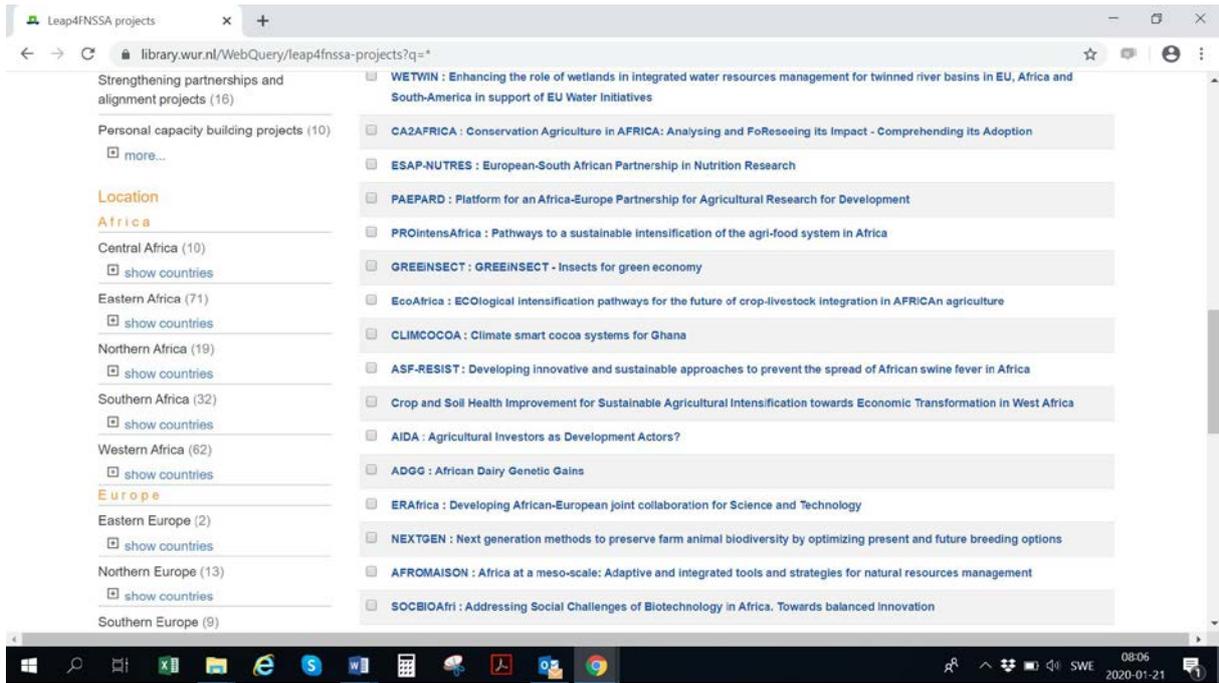
- In collaboration with Task 3.2, the team will give a closer look into the keyword system already used by other organisations (e.g. FAO) and eventually use these alternatives (instead of the system used so far in our database, or in combination with this system).

- The current search and export functionalities will also be further improved, since we believe that the use of the database can be a very useful and valuable tool for different users to obtain the relevant information they need. The initial reactions of representatives from different stakeholder groups attending the Addis Ababa workshop, in November 2019, were very positive and confirmed that the database can be used to extract detailed information for the subjects they have in focus.

- There will be continuous discussions with the project consortium partners but also with external stakeholders (the users of the database) in different workshops concerning the scope of the database and how this will be used in the future. These discussions will help us to improve the database and make it a useful tool for all users.

ANNEX 1 – Illustrations from the database





Leap4FNSSA projects

library.wur.nl/WebQuery/leap4fnssa-projects?q=*

show countries

Southern Europe (9)

show countries

Western Europe (12)

show countries

Type of Funder

European Commission (76)

Grant making foundations (29)

African Union (23)

Public governmental funding (14)

Private sector (2)

Type of Partner

University/Higher education institution (96)

Research organization (80)

Government agency (51)

Non-governmental organization (NGO) (48)

Private company (38)

- SOCBIOAfr: Addressing Social Challenges of Biotechnology in Africa. Towards balanced Innovation
- AFTER : African Food Tradition Revisited by Research
- AGRICAB : A framework for enhancing EO capacity for Agriculture and Forest Management in Africa as a contribution to GEOSS
- BIOWASTE4SP : Turning biowaste into sustainable products: development of appropriate conversion technologies applicable in developing countries
- UPSCALERS : Upscaling Site-Specific Climate-smart Agriculture and Land use practices to Enhance Regional Production Systems in West-Africa
- CLIMAFRICA : Climate change predictions in Sub-Saharan Africa: impacts and adaptations
- PROteinSECT : Enabling the exploitation of Insects as a Sustainable Source of Protein for Animal Feed and Human Nutrition
- CAAST-NET PLUS : Advancing SSA-EU cooperation in research and innovation for global challenges
- SFSD2 : Building Capacity to Improve Safety in the Feed – Dairy chain, with Special Focus on Health Risks Associated with Biological Contaminants, phase 2
- STOI_4EWAS : Quintuple Helix Approach to Targeted Open Innovation in Energy, Water, Agriculture in the South Mediterranean Neighborhood
- VicinAqua : Integrated aquaculture based on sustainable water recirculating system for the Victoria Lake Basin
- FoodAfrica : Improving Food Security in West and East Africa
- ANIMALCHANGE : AN Integration of Mitigation and Adaptation options for sustainable Livestock production under climate CHANGE
- UNDESERT : Understanding and combating desertification to mitigate its impact on ecosystem services

Leap4FNSSA projects

library.wur.nl/WebQuery/leap4fnssa-projects?q=*

Private sector (2)

Type of Partner

University/Higher education institution (96)

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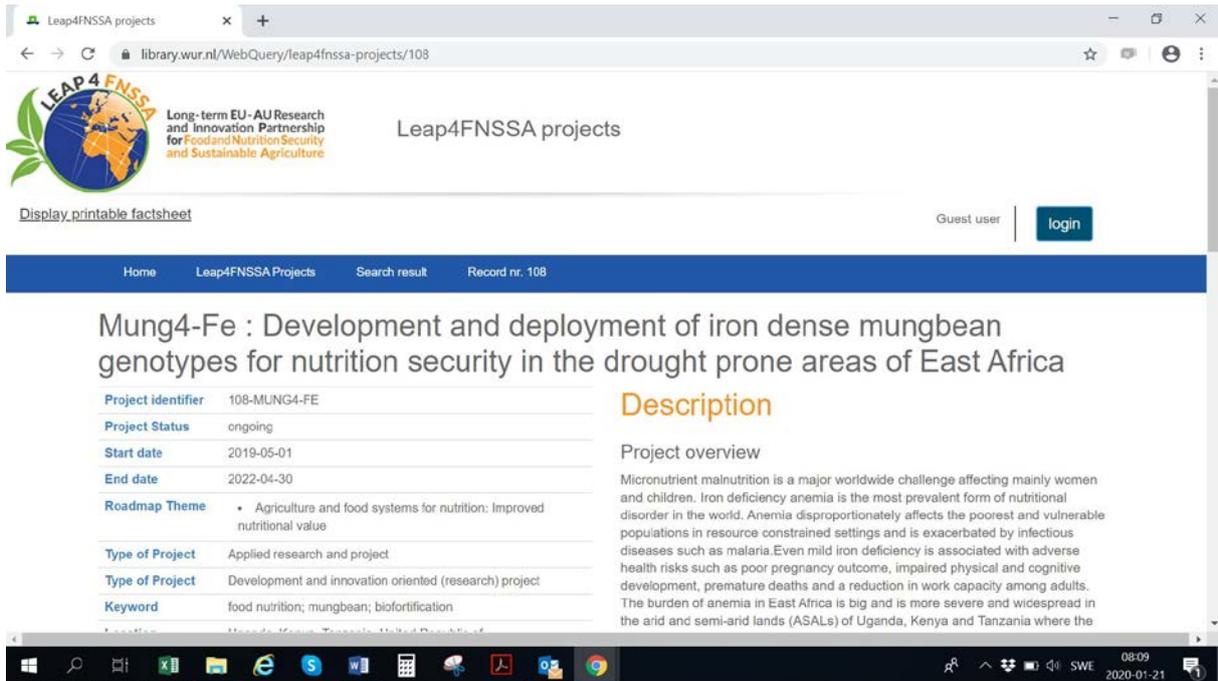
more...

- SFSD2 : Building Capacity to Improve Safety in the Feed – Dairy chain, with Special Focus on Health Risks Associated with Biological Contaminants, phase 2
- STOI_4EWAS : Quintuple Helix Approach to Targeted Open Innovation in Energy, Water, Agriculture in the South Mediterranean Neighborhood
- VicinAqua : Integrated aquaculture based on sustainable water recirculating system for the Victoria Lake Basin
- FoodAfrica : Improving Food Security in West and East Africa
- ANIMALCHANGE : AN Integration of Mitigation and Adaptation options for sustainable Livestock production under climate CHANGE
- UNDESERT : Understanding and combating desertification to mitigate its impact on ecosystem services
- WHATER : Water Harvesting Technologies Revisited: Potentials for Innovations, Improvements and Upscaling in Sub-Saharan Africa
- GreenGrowth : Preserving African Food Microorganisms for Green Growth
- WAHARA : Water Harvesting for Rainfed Africa: investing in dryland agriculture for growth and resilience
- EcoRodMan : Ecologically Based Rodent Management for Sustainable Agriculture and Food Security in Africa
- SEACRIFOG : Supporting EU-African Cooperation on Research Infrastructures for Food Security and Greenhouse Gas Observations
- NUTRIFOODS : Innovative approaches to value addition and commercialization of climate smart crops for enhanced food security and nutrition in Africa and beyond

Check title to add to [marked list](#)

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Show [20](#) [50](#) [100](#) records per page



Leap4FNSSA projects

library.wur.nl/WebQuery/leap4fnssa-projects/108

LEAP 4 FNSSA Long-term EU-AU Research and Innovation Partnership for Food and Nutrition Security and Sustainable Agriculture

Leap4FNSSA projects

Guest user | [login](#)

Home Leap4FNSSA Projects Search result Record nr. 108

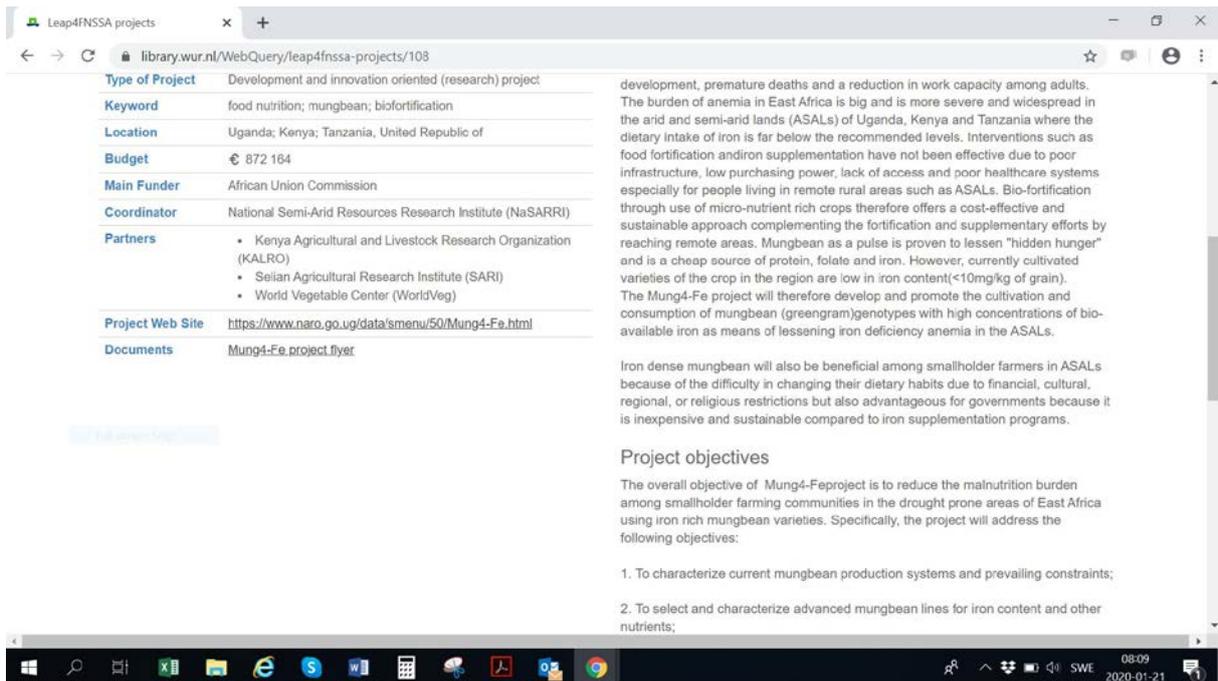
Mung4-Fe : Development and deployment of iron dense mungbean genotypes for nutrition security in the drought prone areas of East Africa

Project identifier	108-MUNG4-FE
Project Status	ongoing
Start date	2019-05-01
End date	2022-04-30
Roadmap Theme	<ul style="list-style-type: none"> Agriculture and food systems for nutrition: Improved nutritional value
Type of Project	Applied research and project
Type of Project	Development and innovation oriented (research) project
Keyword	food nutrition; mungbean; biofortification

Description

Project overview

Micronutrient malnutrition is a major worldwide challenge affecting mainly women and children. Iron deficiency anemia is the most prevalent form of nutritional disorder in the world. Anemia disproportionately affects the poorest and vulnerable populations in resource constrained settings and is exacerbated by infectious diseases such as malaria. Even mild iron deficiency is associated with adverse health risks such as poor pregnancy outcome, impaired physical and cognitive development, premature deaths and a reduction in work capacity among adults. The burden of anemia in East Africa is big and is more severe and widespread in the arid and semi-arid lands (ASALs) of Uganda, Kenya and Tanzania where the



Leap4FNSSA projects

library.wur.nl/WebQuery/leap4fnssa-projects/108

Type of Project	Development and innovation oriented (research) project
Keyword	food nutrition; mungbean; biofortification
Location	Uganda; Kenya; Tanzania, United Republic of
Budget	€ 872 164
Main Funder	African Union Commission
Coordinator	National Semi-Arid Resources Research Institute (NaSARRI)
Partners	<ul style="list-style-type: none"> Kenya Agricultural and Livestock Research Organization (KALRO) Selian Agricultural Research Institute (SARI) World Vegetable Center (WorldVeg)
Project Web Site	https://www.naro.go.ug/data/smenu/50/Mung4-Fe.html
Documents	Mung4-Fe project flyer

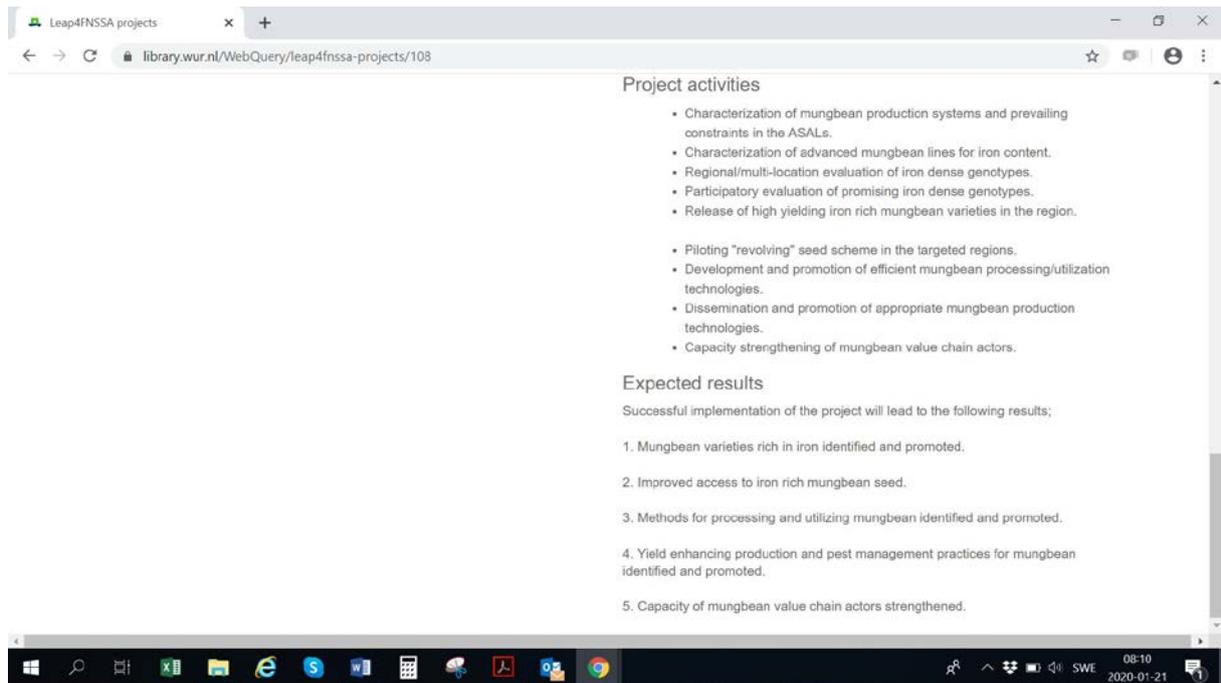
development, premature deaths and a reduction in work capacity among adults. The burden of anemia in East Africa is big and is more severe and widespread in the arid and semi-arid lands (ASALs) of Uganda, Kenya and Tanzania where the dietary intake of iron is far below the recommended levels. Interventions such as food fortification and iron supplementation have not been effective due to poor infrastructure, low purchasing power, lack of access and poor healthcare systems especially for people living in remote rural areas such as ASALs. Bio-fortification through use of micro-nutrient rich crops therefore offers a cost-effective and sustainable approach complementing the fortification and supplementary efforts by reaching remote areas. Mungbean as a pulse is proven to lessen "hidden hunger" and is a cheap source of protein, folate and iron. However, currently cultivated varieties of the crop in the region are low in iron content (<10mg/kg of grain). The Mung4-Fe project will therefore develop and promote the cultivation and consumption of mungbean (greengram) genotypes with high concentrations of bio-available iron as means of lessening iron deficiency anemia in the ASALs.

Iron dense mungbean will also be beneficial among smallholder farmers in ASALs because of the difficulty in changing their dietary habits due to financial, cultural, regional, or religious restrictions but also advantageous for governments because it is inexpensive and sustainable compared to iron supplementation programs.

Project objectives

The overall objective of Mung4-Fe project is to reduce the malnutrition burden among smallholder farming communities in the drought prone areas of East Africa using iron rich mungbean varieties. Specifically, the project will address the following objectives:

1. To characterize current mungbean production systems and prevailing constraints;
2. To select and characterize advanced mungbean lines for iron content and other nutrients;



The screenshot shows a web browser window with the following content:

Leap4FNSSA projects

library.wur.nl/WebQuery/leap4fnssa-projects/103

Project activities

- Characterization of mungbean production systems and prevailing constraints in the ASALs.
- Characterization of advanced mungbean lines for iron content.
- Regional/multi-location evaluation of iron dense genotypes.
- Participatory evaluation of promising iron dense genotypes.
- Release of high yielding iron rich mungbean varieties in the region.

- Piloting "revolving" seed scheme in the targeted regions.
- Development and promotion of efficient mungbean processing/utilization technologies.
- Dissemination and promotion of appropriate mungbean production technologies.
- Capacity strengthening of mungbean value chain actors.

Expected results

Successful implementation of the project will lead to the following results;

1. Mungbean varieties rich in iron identified and promoted.
2. Improved access to iron rich mungbean seed.
3. Methods for processing and utilizing mungbean identified and promoted.
4. Yield enhancing production and pest management practices for mungbean identified and promoted.
5. Capacity of mungbean value chain actors strengthened.

The browser's taskbar at the bottom shows various application icons and system information: 08:10, 2020-01-21.