

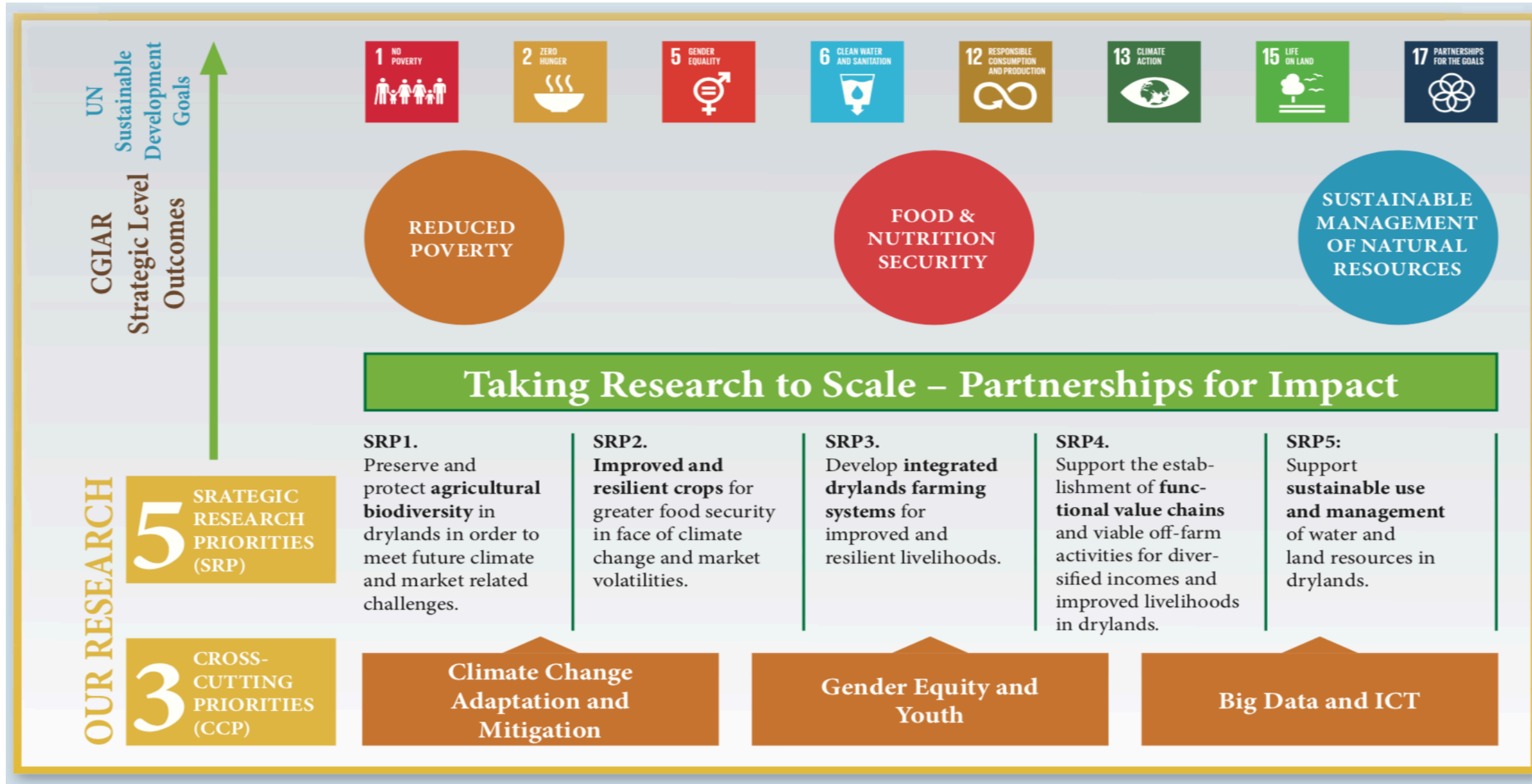
# Use of AGROVOC @ ICARDA: First steps toward interoperability

19/04/2017 – Dataverse COP Meeting

**Enrico Bonaiuti**

**Amman, Jordan (Webinar)**

# BigData: a Priority at Institutional Level



# Monitoring, Evaluation and Learning (MEL)


**MEL** is an online platform for integrated management, monitoring, and reporting of projects, from planning to budgeting, risks assessment, knowledge sharing.





# Areas of Work (2017-2018)





- 1. DV Installation & Handle (thanks to CIMMYT)**
- 2. Additional AGROVOC webservice implementation**
- 3. Use of AGROVOC for keywords intelligence & curation**
- 4. Dataverse API usage (thanks to CIP and Bioversity)**
- 5. API and old DOI/HANDLE records re-sync**



# Dataverse V 4.7 + Usage of Handle

 **Dataverse**


 [User Guide](#) [Support](#) [Sign Up](#) [Log In](#)

 **ICARDA**  
Science for resilient livelihoods in dry areas

Supported by:  **CGIAR**  **RESEARCH PROGRAM ON Livestock**  **CGIAR**  **Platform for Big Data in Agriculture**


Powered by:  **Codebia**  **amazon web services**


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 **Metrics** 0 Downloads


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The root dataverse.

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☒  **Dataverses (9)**


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**Dataverse Category**  
[Research Group \(9\)](#)

**Publication Date**  
[2018 \(9\)](#)

**1 to 9 of 9 Results**  **Sort**

 **Big Data and ICT** (International Center for Agricultural Research in the Dry Areas)  
Feb 5, 2018  
The advent of big data that incorporates geo-informatics, remote sensing and the large volumes of data being generated by technological advances in genomics will revolutionize the way we work in the future. The use of this information to increase research efficiencies and decisio...

 **Capacity Development** (International Center for Agricultural Research in the Dry Areas)  
Feb 5, 2018  
Capacity development is core to ICARDA's mission and an essential element for the delivery of quality research and sustainable development impact. Over the coming decade we will build on our extensive network of long and enduring partnerships with universities and ARIs, which use...

 **Gender equality and youth** (International Center for Agricultural Research in the Dry Areas)  
Feb 5, 2018  
As the role of women in dry area agriculture increases, and their workloads become heavier with the migration of men to urban areas and abroad, they face financial, cultural and legal constraints in accessing knowledge, innovation, finance, markets, institutions and resources, pa...

# Use of AGROVOC as “Control List” Across Different Areas

Keyword(s) \*

irrigated winter wheat wheat breeding yield



The list is provided by [AGROVOC Web Service](#). You can add new subjects by typing or copy & paste them from another source, if comma separated. All new, non-AGROVOC subjects are coloured in green: please ensure these are coherent with the knowledge reported.

SDG(s)



Keyword(s) \*

irrigated winter wheat wheat breeding yield irrigated



Add irrigated...

irrigated area

Irrigated rice

irrigated land

irrigated wheat

irrigated maize

irrigated soils

irrigated system

Crop(s)

MELSpace\*



# Interoperability Network: Sustainability through Partners



# Keywords maintenance and intelligence

+ AGROVOC

Export Subjects

10

records

Search:

ID	Keyword	Type	Language	Usage Count	Actions
39	climate change			335	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;"></div>
20466	news update			311	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;"> <div style="display: flex; gap: 5px;"> </div> </div>
22941	durum wheat			273	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;"> <div style="display: flex; gap: 5px;"> </div> </div>
33	capacity development			269	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;"></div>
22678	sun pest			236	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;"> <div style="display: flex; gap: 5px;"> </div> </div>

1. Harvesting
2. Editing
3. AGROVOC Matching
4. Assigning
5. Splitting
6. Frequency and use analysis
7. Synchronizing
8. Depositing

Orange-fleshed sweetpotato Southeast Asia South Asia Diversity hotspots  
 Potato genetic diversity Participatory mapping Vitamin A  
 Phytophthora infestans Life-table parameters La Libertad  
 65 occurrences (AGROVOC) Potatoes Pest risk assessment  
 True seed Late Blight Potato Red listing  
 Non-linear equation Longevity Reproduction Yield Development time  
 Temperature-Dependent Phenology Model Geographic information systems  
 Genotype environment interaction Heat tolerance

# Network Analysis for Impacts

SDG(s)

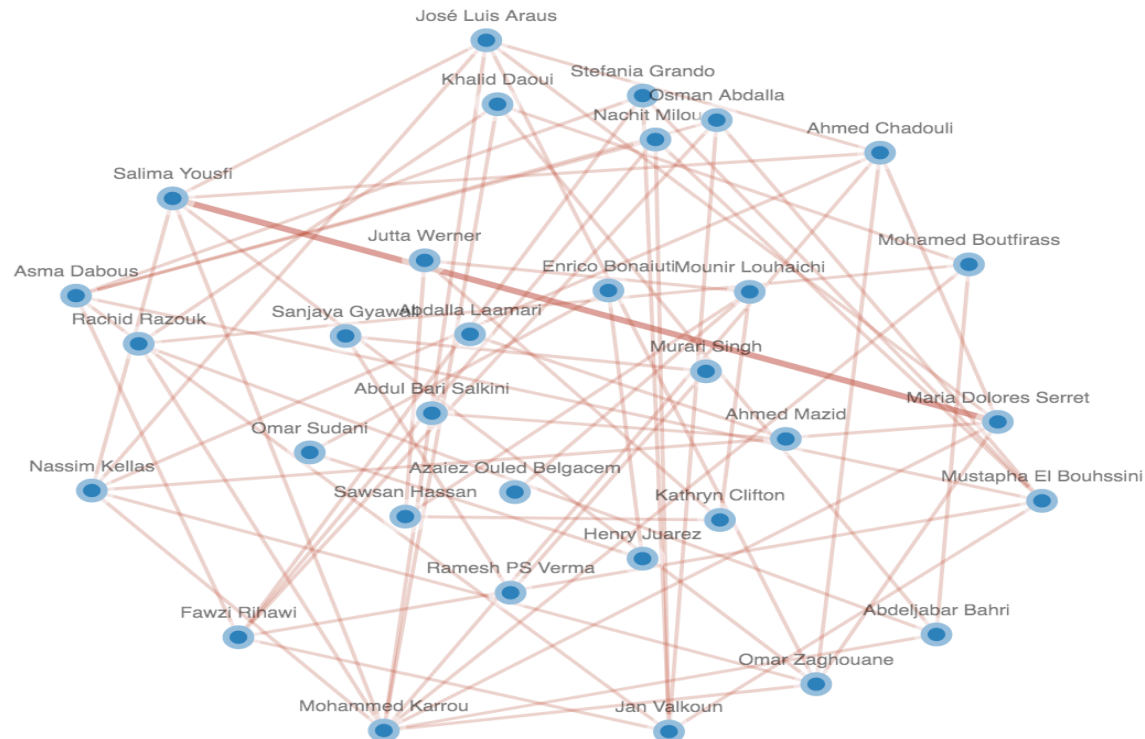


Keyword(s) \*

drylands soil wheat



The list is provided by [AGROVOC Web Service](#). You can add new subjects by typing or copy & paste them from another source, if comma separated. All new, non-AGROVOC subjects are coloured in green: please ensure these are coherent with the knowledge reported.



Authors: 3172,3675

Number of publications for Salima Yousfi and Maria Dolores Serret together : 1

• <http://hdl.handle.net/20.500.11766/3565>



# Dataverse API and Analysis

## Repositories Analytics

▼ CIP

CIP

MEL

146  
Datasets

146  
Titles

9  
Rights

121  
Types

150  
Contacts

766  
Keywords

217  
Subjects

146  
Descriptions

520  
Contributors

146  
Dates

146  
Creators

106  
Coverage

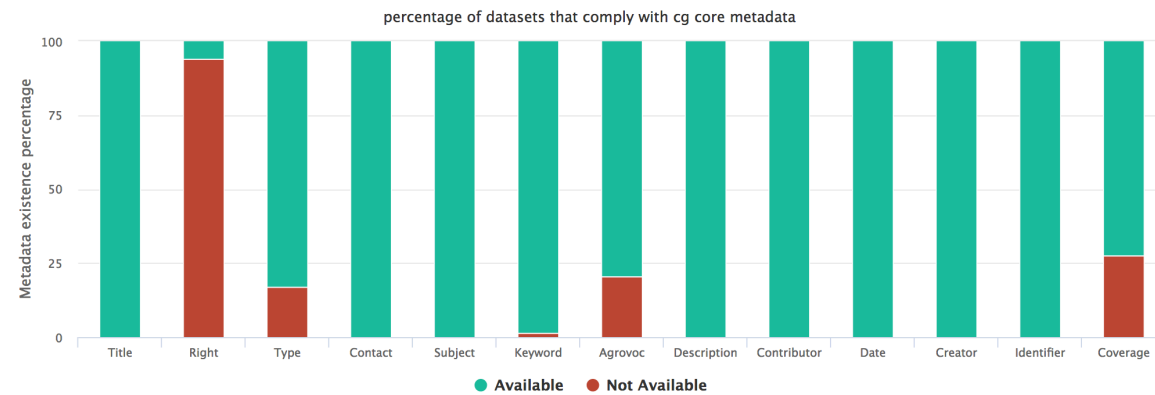
### Filters

× All Metadata

× All Datasets

Get Charts 

### Graph



# Analyze, Compare and Re-sync

## Word Cloud

All Types

Specify Stop Words

?

× All Datasets

Get word cloud

## Graph

Orange-fleshed sweetpotato Southeast Asia South Asia Diversity hotspots  
Potato genetic diversity Participatory mapping Vitamin A  
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Highcharts.com

1. Harvesting
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# Geo-Informatics Option by Context (GeOC)

## LOGIN TO YOUR ACCOUNT

The Global Geo-informatics Context and Options (GeCO) is a new web-based GIS tool that enables its users to define, monitor, assess and co-create knowledge and learning on relevant Sustainable Land Management (SLM) options that match the social-ecological context at global, regional and national scales.

The GeOC tool aims to support the implementation of SLM practices by the local international communities by providing them with context-specific information that is required to make sound investment decisions for agricultural and rural development.

The GeOC is designed to provide land users, development projects or programs, and policy decision-makers with plausible, robust extrapolation domains for guiding decisions on the selection and use of SLM options, and an open platform for docking different disciplinary projects into integrative/holistic and converging actions for promoting SLM at scale.

GeOC is the result of the synergic efforts by CGIAR Research Program on Dryland Systems (CRP-DS), the International Center for Agricultural Research in the Dry Areas (ICARDA) and its Geoinformatics Unit (GU), and is powered by IMMAP, Codeobia, D-Space and Amazon Web Services.



*e.bonaiuti@cgiar.org*



.....



# Geo-Informatics Option by Context (GeOC)

The screenshot displays the GeOC web application interface. The main area is a map of Africa, with various countries labeled. A sidebar on the left contains filter options. The top of the sidebar shows the GeOC logo and the tagline "System-based Options by Context". Below this, the "Filter Options" section includes a "Region" dropdown set to "Africa" and a "Sub-Region" dropdown set to "Eastern Africa". A "Search country..." input field is present, followed by a list of countries with checkboxes: Burundi, Comoros, Djibouti, Eritrea, Ethiopia (checked), Kenya, and Madagascar. At the bottom of the sidebar, there are "Select all" and "Deselect all" buttons. The "Theme" section at the bottom of the sidebar shows a dropdown menu with "Outcome-Impact Databa..." selected, and a search bar below it. The main map area is titled "Map" and includes a toolbar with zoom in (+), zoom out (-), and a full-screen button. The map shows the African continent with country names and major cities. A tagline at the top right of the map area reads "A tool for better investment decisions in agriculture and rural development".

GeOC™  
System-based Options by Context

**Filter Options**

Region  
Africa

Sub-Region  
Eastern Africa

Search country...

- ☐ Burundi
- ☐ Comoros
- ☐ Djibouti
- ☐ Eritrea
- ☒ Ethiopia
- ☐ Kenya
- ☐ Madagascar

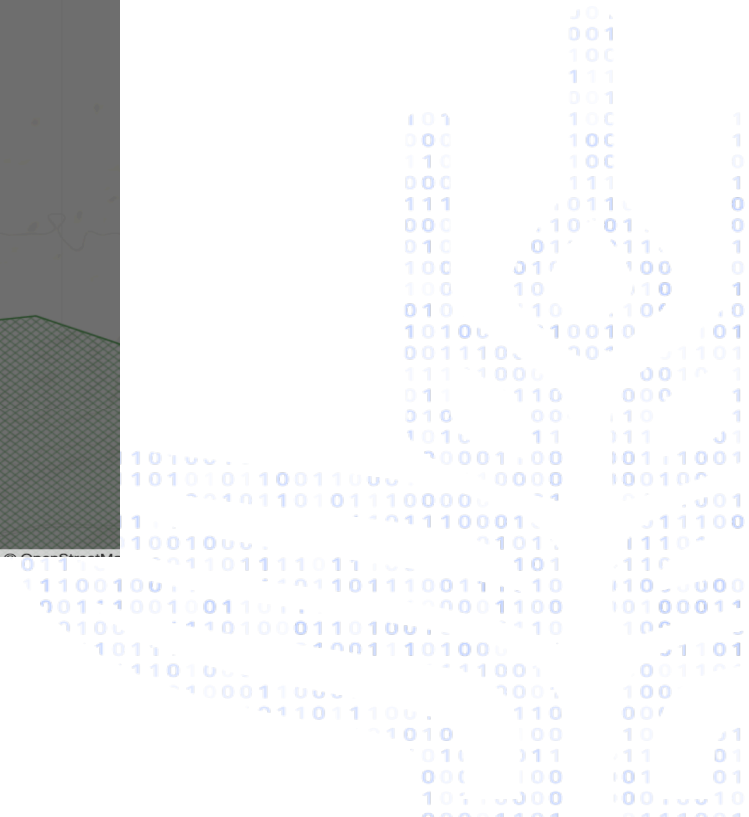
Select all Deselect all

Theme  
Outcome-Impact Databa...  
Context/Driver's Database  
Outcome-Impact Database

Map

A tool for better investment decisions in agriculture and rural development

# Geo-Informatics Option by Context (GeOC)



# Open Data Kits (ODK)

