Processes and building blocks for the DryArc Knowledge Management Tool

Meeting: DryArc Interface GeoAgro & FAO Regional Knowledge Platform

Enrico Bonaiuti – Research Team Leader: Monitoring, Evaluation and Learning on behalf of the MEL Team

4th May, 2020

Bao Quang Le - Agricultural Livelihood Systems Expert

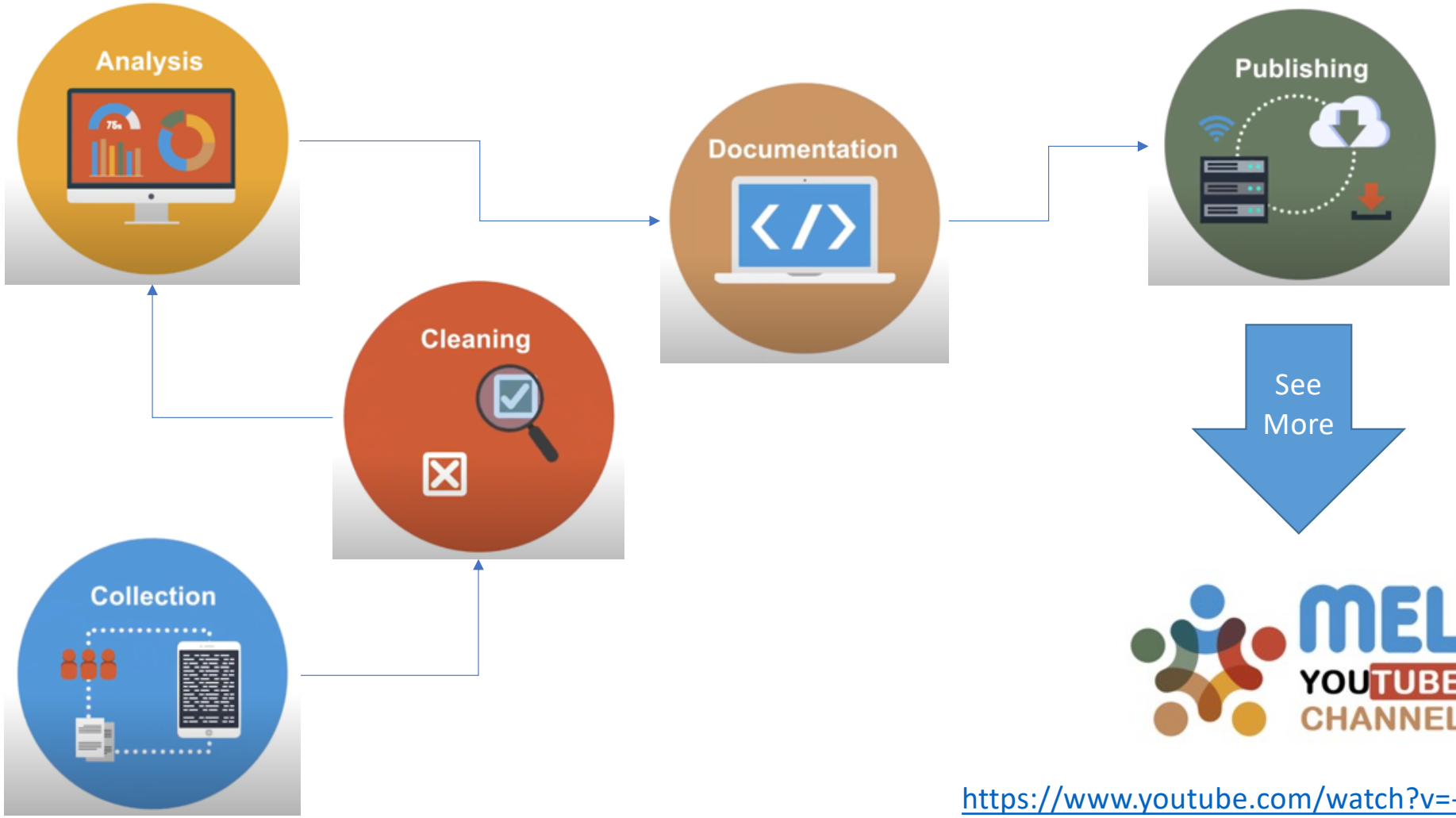
icarda.org
International Center for Agricultural Research in the Dry Areas

cgiar.org
A CGIAR Research Center

Overview

1. Data and Knowledge Management Plan developed for key projects
2. Data Collection methodologies agreed with National Partners while providing Capacity Development
3. Data Curation and Storage embedding international schemas and standards
4. Data exposure and service provisions

Data and Knowledge Management Plan developed for key projects



MEL YOUTUBE CHANNEL

https://www.youtube.com/watch?v=-oxCKqMCrx0

Data Collection methodologies agreed with National Partners while providing Capacity Development

Seminar/Workshop/Training Course - Workshop on

Monitoring Evaluation and Learning, Data Management and Geo-informatics Option by Context - Learning Week

In Tunisia Nov 1, 2019 - Nov 7, 2019

Target Audiences

- Government
- CGIAR Center/Program (Center)
- Advanced Research Institutions

Participants Countries

- Germany
- Tunisia

Participants Gender

GENERAL OVERVIEW

The Monitoring, Evaluation and Learning (MEL), Data Management and Geo-informatics Option by Context (GEOC) Learning Week is scheduled to take place in Tunisia 1-7 November 2019. The Learning seminars will be led by the MEL Team and RALS Program.

Read More

https://hdl.handle.net/20.500.11766.1/21b09c

https://hdl.handle.net/20.500.11766/10373

Introduction to mobile data collection_English

Citation
Innocent Bikara. (6/11/2019). Introduction to mobile data collection_English.

Abstract
The presentation is a brief highlight of the rationale for mobile data collection and the landscape of the mobile data collection platforms that exist, and the potential considerations for a choice of a choice of open data kit as a subject of the training

View/Open

Author(s)
Bikara, Innocent

Metadata
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Open access

URI
https://hdl.handle.net/20.500.11766/10373

Collections
Agricultural Research Knowledge [7200]

Author(s) ORCID(s)
Bikara, Innocent https://orcid.org/0000-0002-6213-3103

Subject(s)
partnerships for the goals; open data kit (odk); mobile data collection

AGROVOC Keywords
data collection

8

Data Curation and Storage embedding international schemas and standards

General Dataset Curation Guide (GDCG)_French

View/Open

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Graziano, Valerio
Poole, Elizabeth J.
Jeitani, Asma

Metadata
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Citation
Francesco Bonechi, Enrico Bonaiuti, Valerio Graziano, Elizabeth J. Poole, Asma Jeitani. (1/11/2019). General Dataset Curation Guide (GDCG)_French. Beirut, Lebanon: International Center for Agricultural Research in the Dry Areas (ICARDA).

Abstract
Data collection and organization is one of the main tasks during research activities. In fact, most of projects results depend on the good management of data. However, "the long-term value of data can be affected, for better or worse, by how well those data are curated. Unfortunately, many valuable datasets are poorly curated, which contributes to errors, redundant effort, and obstacles to replication and use" (Ruggles, 2018). This, because is common to organize data in spreadsheets in a way which makes them easily understandable for the dataset author at that time, without following the machine-readable standards or considering any next research use. Due to this, there is then the need to review and adjust these datasets. This is one of the data curation roles. "Data curation activities enable data discovery and retrieval, maintain data quality, add value, and provide for re-use over time" (DH Curation Guide, 2017). Nowadays specific jobs related to data curation responsibilities are increasing (with title like "data curator" or "data curation specialist") demonstrating the current importance of these skills. Thus, it will be important for anyone to have basic knowledge of this subject to be able during research activities, creating autonomously well curated datasets and this guide will support doing so.

URI
https://hdl.handle.net/20.500.11766/10351

Collections
Agricultural Research Knowledge [7200]

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Jeitani, Asma https://orcid.org/0000-0002-2130-2994

Subject(s)
data quality; data sharing; data curation

AGROVOC Keywords
data management

Read More

https://hdl.handle.net/20.500.11766/10351

GitHub
HIGHCHARTS
United Nations Statistics Division
DSPACE
AIMS
flickr
The Dataverse Project
twitter
ArcGIS
YouTube
ORCID Connecting Research and Researchers
ISO
SHERPA RoMEO

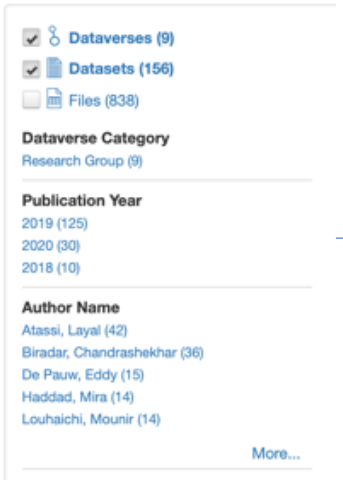
Data exposure and service provisions

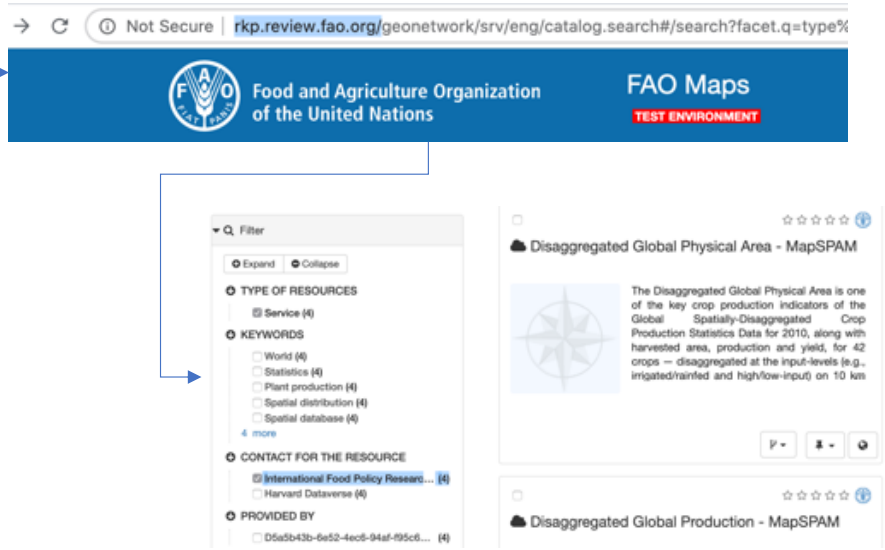
DSPACE

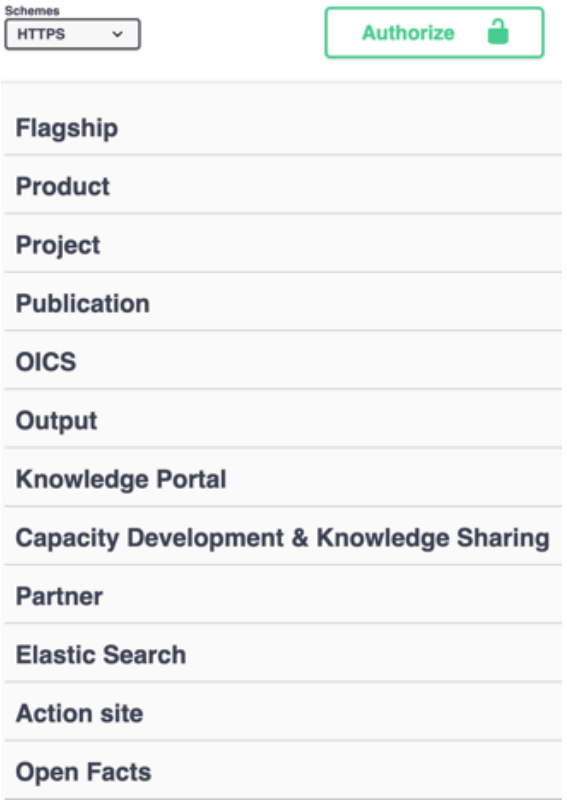
The Dataverse Project

MEL - Monitoring, Evaluation & Learning API

Try → http://api.mel.cgiar.org/explorer/#/







Target Audience Analysis

Researchers and Organizations can benefit from a **comprehensive collection of resources and data** related to Climate that can be discovered through advanced research tools. **Data from the field can be uploaded**.

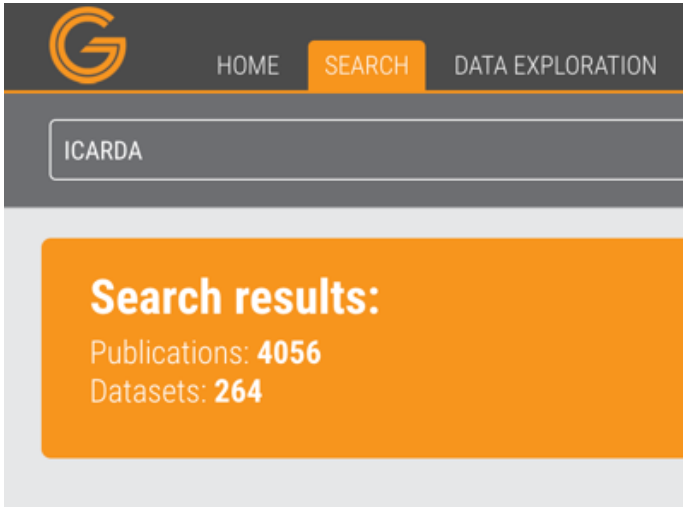
Trainers can find a suite of **printable training and educational materials** in addition to **webinars**, tutorials and information on best practices.

Farmers & Citizens can quickly **access local weather and environmental information** plus short- and long-term **forecasts**. **Infographics and data visualizations** man specialized knowledge is not required to use the portal.

Decision makers from public and private sectors can benefit from **up-to-date and reliable information for planning and administration purposes**, such as aggregated numbers, generated maps and analysis reports.

Service provisions

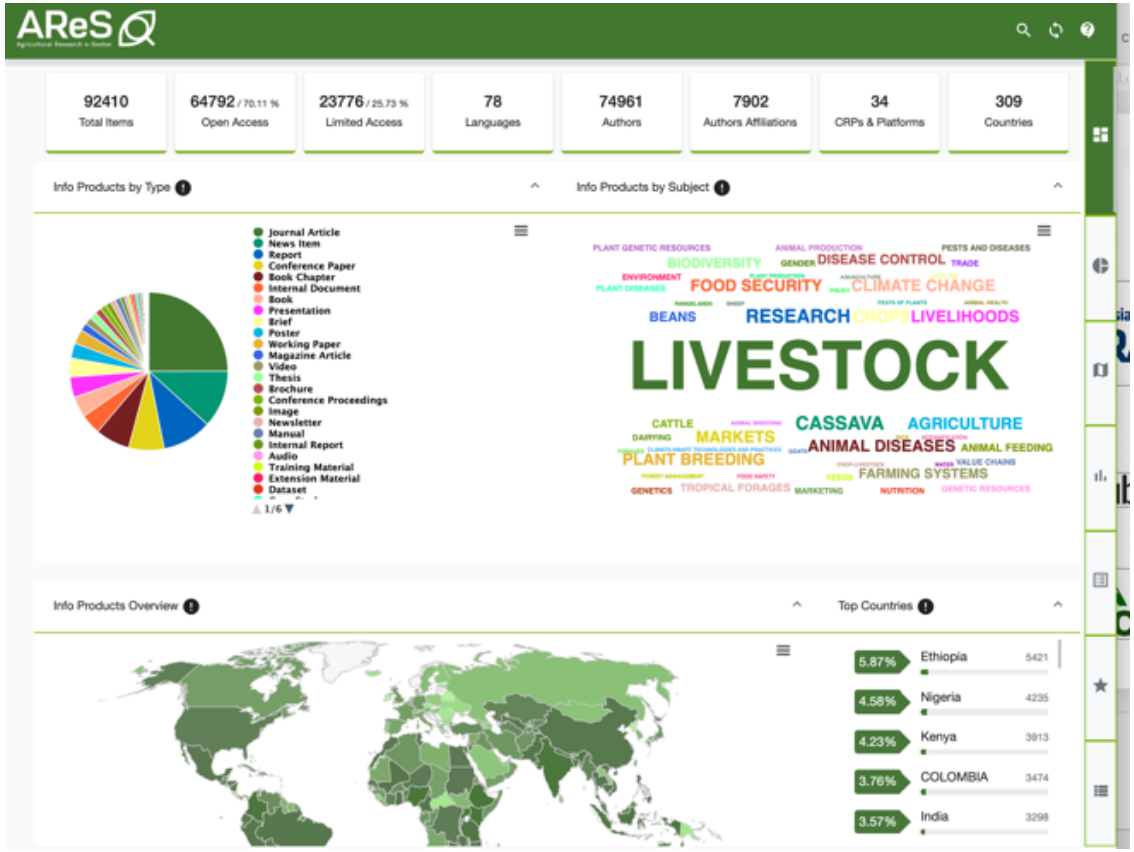
API Services for:



Service provisions

Analytics multi-APIs

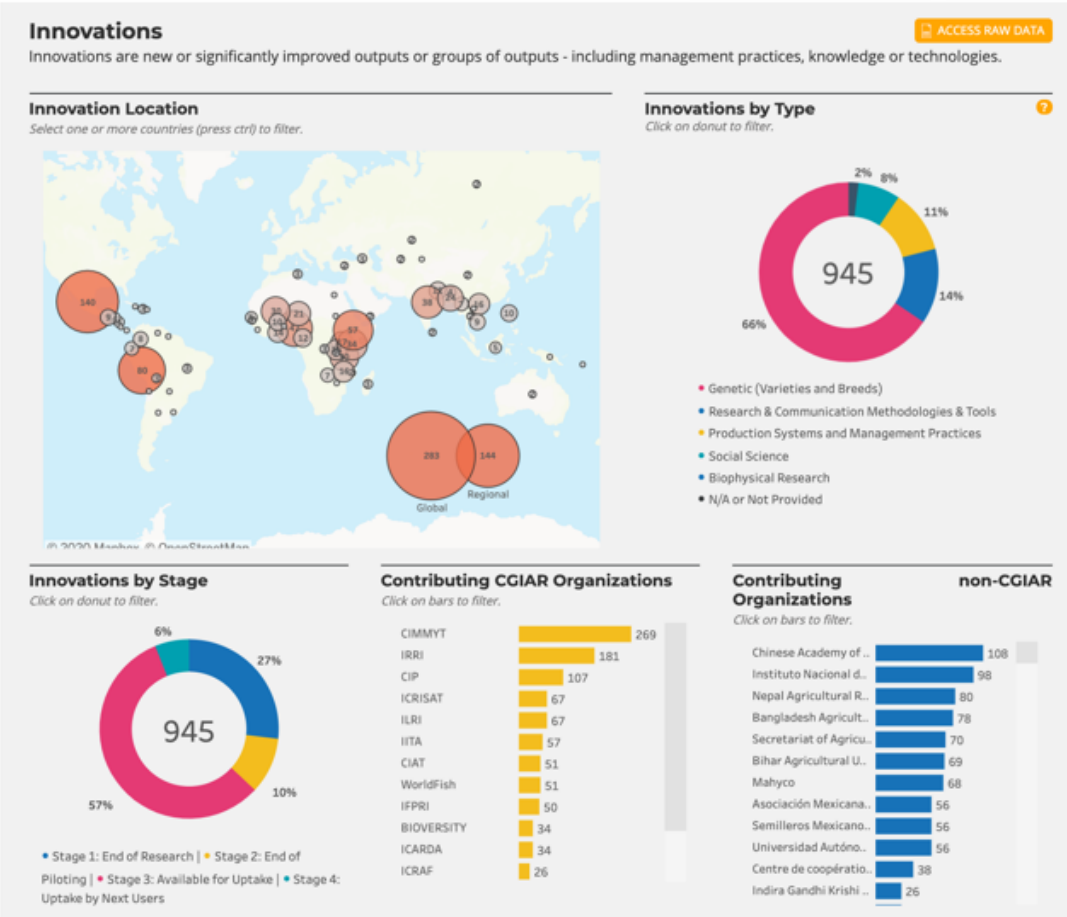
https://cgspace.cgiar.org/explorer/



Service provisions

API Services for:

https://www.cgiar.org/impact/results-dashboard/

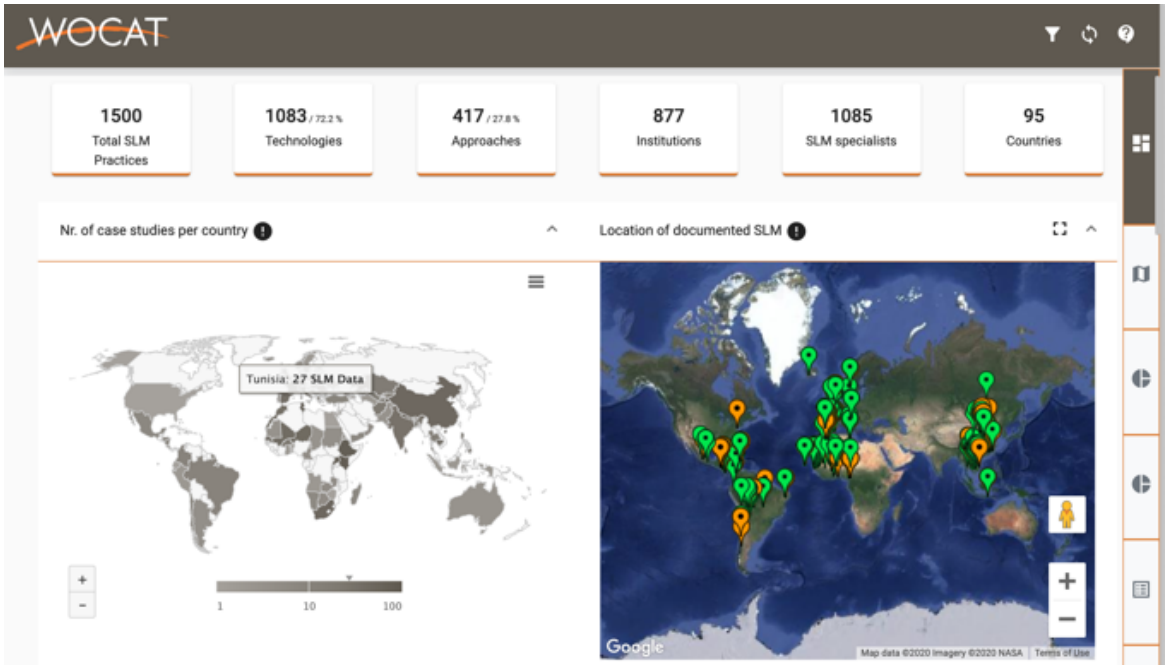


Service provisions

Geo-referenced SLM Data exchange

https://explorer.wocat.net/

WOCAT Consortium Partners



- reduce, prevent, restore land degradation
- improve production
- create beneficial economic impact
- conserve ecosystem
- adapt to climate change/ extremes and its impacts
- reduce risk of disasters
- preserve/ improve biodiversity
- create beneficial social impact
- protect a watershed/ downstream areas – in combina
- mitigate climate change and its impacts

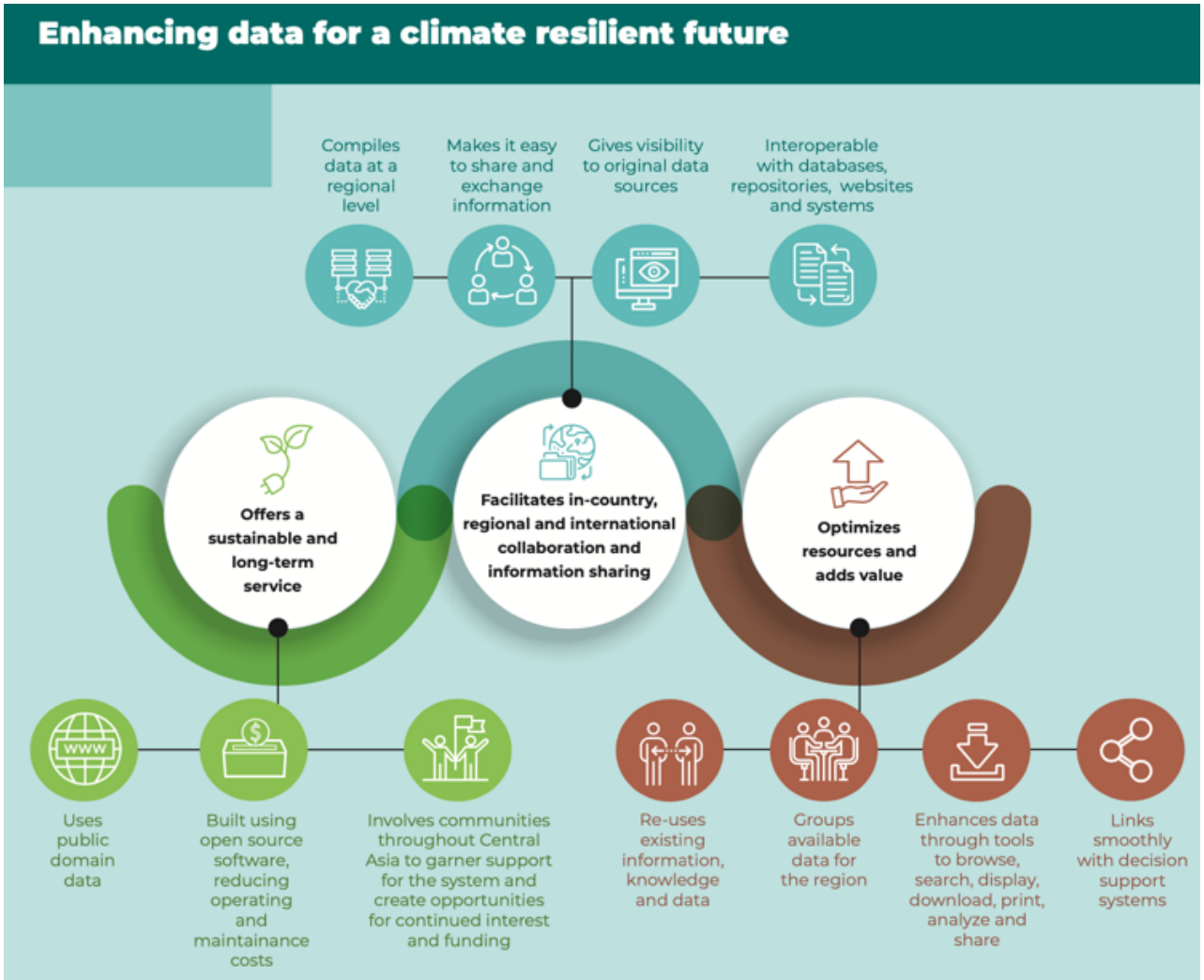
Service provisions

multi-APIs harvesting, combination and notification

https://mel.cgiar.org/projects/cacip

THE WORLD BANK

Service provisions



Service provisions

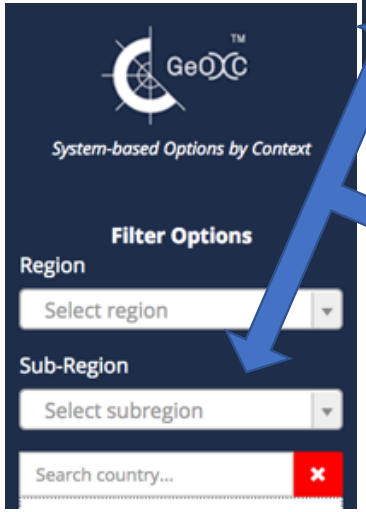
WOCAT

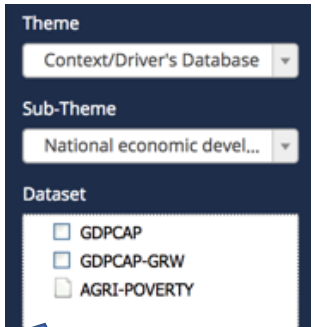
GeoOC

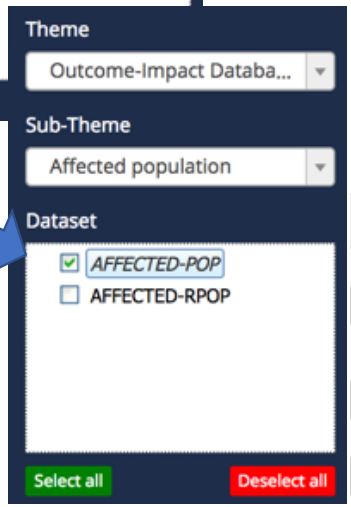
Innovations suitability and targeting

giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Select



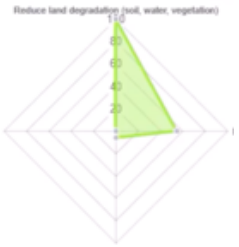




Visualize

Rank

SLMs in the area of interest	Socio-economic impacts-Production
Afforestation	Slightly positive
Area enclosure	Very positive
Biological fixation of sand dunes	Very positive
Buried diffuser	Very positive
Cisterns	Slightly positive
Cisterns	Slightly positive



Scale

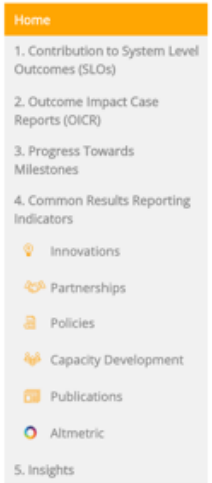
See More

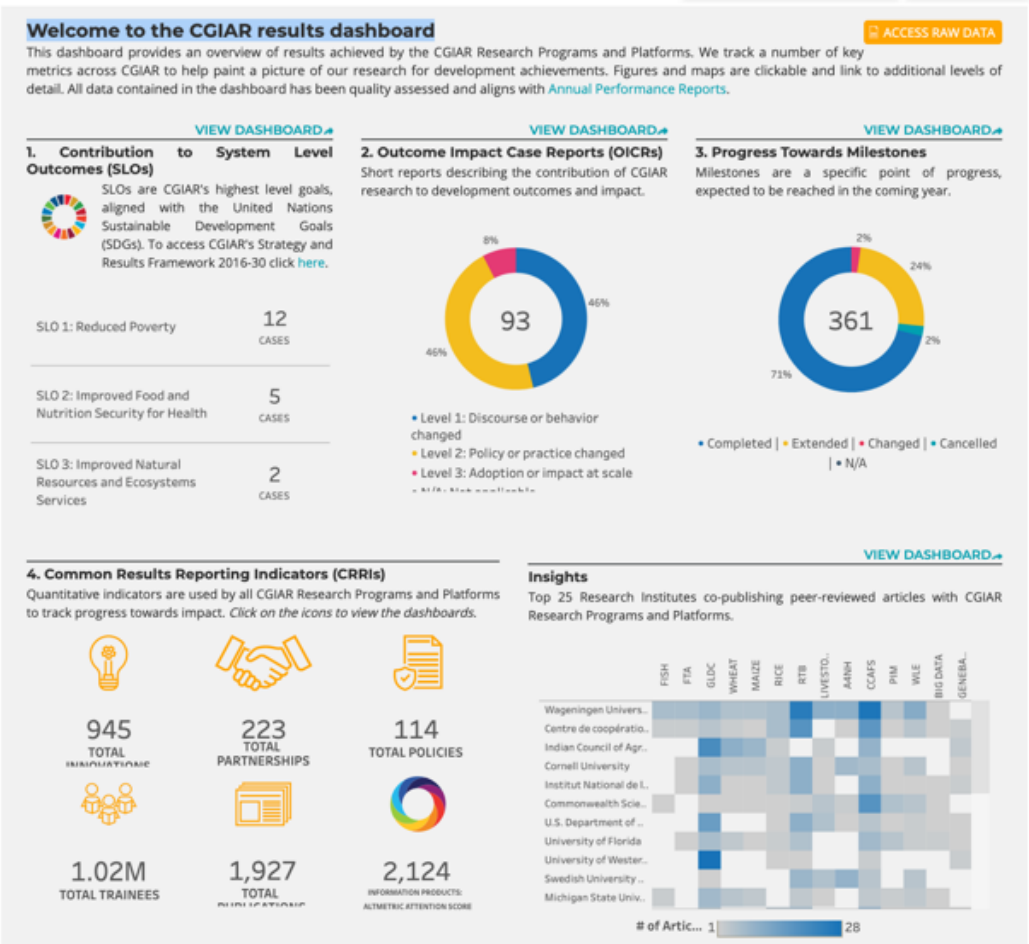
MEL YOUTUBE CHANNEL

YouTube Tutorial Clips

Service provisions

API Services for: https://www.cgiar.org/impact/results-dashboard/





Intuitive Dashboard with geo-referenced project data