CGIAR-AGROVOC Task
Group of the
CGIAR Ontology Working
Group



#### **ONTOLOGIES WEBINAR SERIES**

## WEBINAR CGIAR CONTRIBUTION TO AGROVOC THESAURUS

Why & how to engage with the team?

21 JUNE, 15:00 PM UTC



Sara Jani

Project Monitoring &
Knowledge Management
Coordinator MEL
ICARDA



**Asma Jeitani** 

Project and Data Management Officer, MEL

**ICARDA** 



**Kristin Kolshus** 

Information Management Officer, AGROVOC curator

FAO







# CGIAR contribution to AGROVOC thesaurus: Why & how to engage with the team?

Sara Jani & Asma Jeitani · ICARDA Kristin Kolshus · FAO Elizabeth Arnaud · Alliance Bioversity-CIAT

**Ontologies Webinar Series. 21 June 2022** 



"If agriculture is going to take advantage of the digital revolution, it's critical that data resources can talk to each other through ontologies and standards - this is a necessary foundation.

Bringing CGIAR and FAO together ensures two major players in agricultural research and development are promoting common standards and approaches, for ourselves and for our large partner networks"

Andy Jarvis, DDG Research Alliance Bioversity-CIAT



"FAO acts as a catalyst and a platform for leveling the playing field so that countries can make evidence-based decisions on the most appropriate technologies and innovations to adopt and adapt in sustaining their food security and nutrition.

FAO can only achieve this by collaborating with the global scientific community of experts such as the CGIAR"

Ismahane Elouafi, Chief Scientist at FAO

#### Content

#### **CGIAR-AGROVOC Collaboration:**

➤ Collaboration Objectives

➤ Collaboration October 2021 – June 2022

➤ New Work Process July 2022 – December 2022



## **AGROVOC**



**40,180**Concepts

939,648 Terms **41**Languages

## CGIAR – AGROVOC Collaboration Objectives

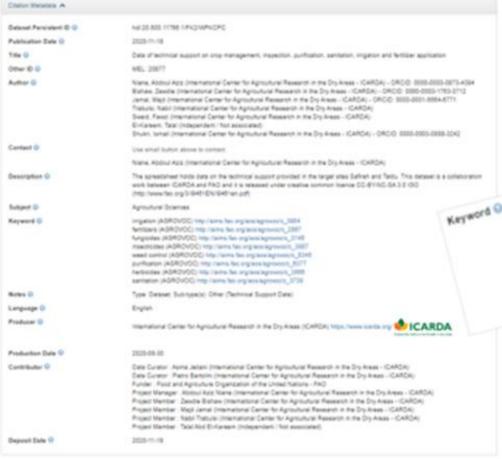
### **CGIAR** usage of AGROVOC

➤ Recommended by the CGIAR Metadata Schema

➤ Used by all of CGIAR repositories and MEL platform as a source of keywords

➤ Important contribution of some CGIAR centers to AGROVOC

Example of AGROVOC keywords usage in MELSpace & MELData



Imparion (AGROVOC) http://wims.fao.org/aos/agrovoc/o\_2564
fetticers (AGROVOC) http://wims.fao.org/aos/agrovoc/o\_2567
fungicides (AGROVOC) http://wims.fao.org/aos/agrovoc/o\_3565
fungicides (AGROVOC) http://wims.fao.org/aos/agrovoc/o\_3565
insecticides (AGROVOC) http://wims.fao.org/aos/agrovoc/o\_3576
insecticides (AGROVOC) http://wims.fao.org/aos/agrovoc/o\_3576
porfection (AGROVOC) http://wims.fao.org/aos/agrovoc/o\_3666
harbicides (AGROVOC) http://wims.fao.org/aos/agrovoc/o\_3776
harbicides (AGROVOC) http://wims.fao.org/aos/agrovoc/o\_3776
harbicides (AGROVOC) http://wims.fao.org/aos/agrovoc/o\_3776



### **CGIAR** usage of AGROVOC





Accessible



Interoperable



Reusable

FAIR principles recommend to use controlled vocabularies (thesaurus, ontologies) that are widely accepted and applied by the community of the science domain to label data and tag information products

Increasing interoperability between food and agricultural systems: CGIAR and FAO collaboration

CGIAR Open and FAIR Data Assets Policy

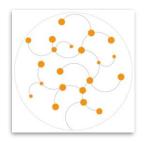
## Objectives of a collaboration framework with One CGIAR perspective

- ➤ Get more streamlined submission from CGIAR.
- ➤ Improve AGROVOC content cover with CGIAR terms.
- ➤ Support the quality indexation.
- ➤ Improve the keyword-based search.
- ➤ Provide global visibility of CGIAR contribution to AGROVOC.
- ➤ Remain a key player in the international community effort to develop semantics.

### Objectives of a collaboration framework

- ➤ Enhance the stewardship role in the development of semantics for agrifoods.
- ➤ Develop capacity building for partners.
- ➤ Leverage a team of domain experts.
- ➤ Strengthen the AGROVOC coverage.
- ➤ Reduce the duplicated efforts/costs.
- ➤ Improve efficient use of knowledge for users.

## CGIAR-AGROVOC Collaboration October 2021 – June 2022



## **CGIAR - AGROVOC Task Group Members**

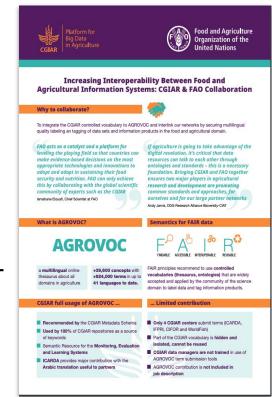
#### **Co-chairs:**

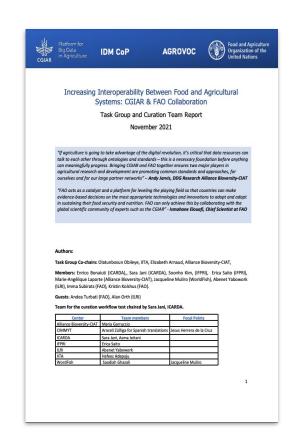
Olatunbosun Obileye (IITA)
Elizabeth Arnaud (Alliance Bioversity-CIAT)

#### **Members:**

Enrico Bonaiuti, Sara Jani (ICARDA) Soonho Kim, Erica Saito (IFPRI) Marie-Angélique Laporte (Alliance Bioversity-CIAT)

Jacqueline Muliro (WorldFish) Abenet Yabowork (ILRI) Kristin Kolshus, Imma Subirats (FAO)





icarda.org

Report: https://cgspace.cgiar.org/handle/10568/116236 Factsheet: https://cgspace.cgiar.org/handle/10568/116448

### **CGIAR - AGROVOC Curation Team**

#### **Chair:**

Sara Jani (ICARDA-MEL)

#### **Members:**

Maria Garruccio (Alliance Bioversity-CIAT)

Jesus Herrera (Focal Point) & Araceli Zuniga (curation) (CIMMYT)

Vilma Hualla (CIP)

Sara Jani & Asma Jeitani (ICARDA)

Hafeez Adepoju (IITA)

Abenet Yabowork (ILRI)

Rasika Thushantha & Yamuna Udumalagala (IWMI)

Saadiah Ghazali (WorldFish)

## CGIAR Contribution to AGROVOC Work Process October 2021 - June 2022

**Step 1.** Centers submit keywords indexed in their repositories (CGSpace, CIMMYT, CKAN-IITA, IFPRI, MEL, WFDSpace-WF)



**Step 2.** Identification of keywords unmatched with AGROVOC



**Step 3.** Selection of most used 50 keywords.



Some centers proposed adding their keywords (IFPRI, IWMI, WorldFish)

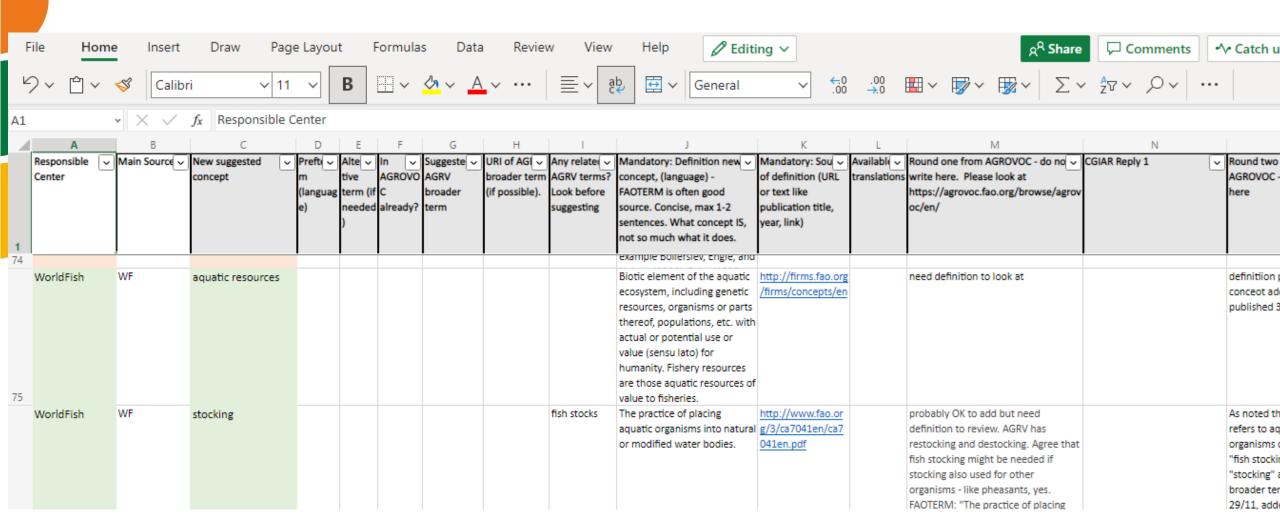
**Step 4.** Keywords assigned to centers by alphabetical order. Centers that submitted their own keywords worked on those.



**Step 5.** Work done through a "shared template" allowing curators to contribute and AGROVOC's team to review.



## The used "shared template"



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## Implementation of the work process October 2021 - June 2022

309 keywords suggested

41 concepts & terms added to AGROVOC 65 keywords open-discussion

203 keywords

4 training sessions delivered

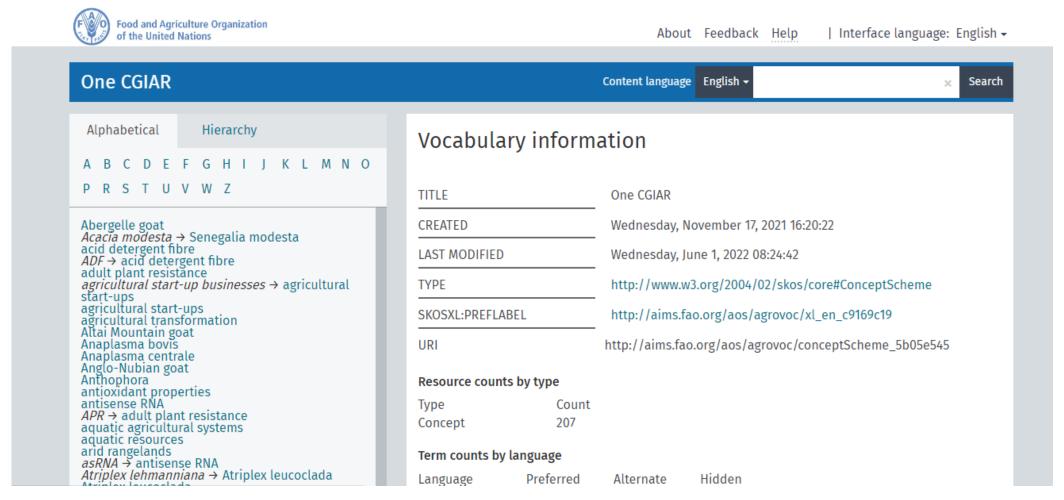
6 centers participated



- -Introduction and submission workflow
- -Training on definitions
- -2 Individual training on submission workflow

### Creation of the One CGIAR concept sub-schema

https://agrovoc.fao.org/skosmosOneCGIAR/cgiar/en/



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\*Contributions made separately from other CGIAR centers (ICARDA [ $\sim$ 150], IFPRI, WorldFish) are also included in the sub-schema.

## New Work Process July 2022 – December 2022

### **New Work Process Description**

Each center submits its own 10 keywords unmatched with AGROVOC whether through their repositories or other means and includes them in the "shared template" file.



ICARDA's curators review the file to remove any duplicates.



AGROVOC team at FAO reviews and comments on the file.

65 pending keywords from the Oct 21-June 22 work process



Curators work on the file.

Target: submit 35 concepts in 3 months.

Next deadline: end of September 2022.

## Joining CGIAR & AGROVOC curation teams

- ➤ Interested to join
- Colleagues from all CGIAR centers
- Contact Sara Jani: <u>S.Jani@cgiar.org</u>
  - ➤ CGIAR-AGROVOC Task Group Public page

https://cgiar.sharepoint.com/sites/ontology-wg/SitePages/CGIAR-AGROVOC-TASK-GROUP.aspx

## **Annual AGROVOC Editorial Community Meeting**

★ The 5th Annual AGROVOC Editorial Community Meeting will take place on Tuesday, 19 July 2022, 13:00 - 16:00 CEST.

★ The objective is to revise the work carried out during the last months and to define priorities for 2022/2023.

★ Event registration at: <a href="https://fao.zoom.us/meeting/register/tJArf-6vqDIrHdS2UI-bufet2mVCv8IYg5qE">https://fao.zoom.us/meeting/register/tJArf-6vqDIrHdS2UI-bufet2mVCv8IYg5qE</a> .

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## Thank you































Sara Jani

CARDA S.Jani@cgiar.org

Asma Jeitani

ICARDA A.Jeitani@cgiar.org

Kristin Kolshus

FAO kristin.kolshus@fao.org

Elizabeth Arnaud

Alliance Bioversity-CIAT e.arnaud@cgiar.org