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SKim

**Strengthening Knowledge Management
for Greater Development Effectiveness
in the Near East, North Africa,
Central Asia and Europe**



**Enhancing KM Performance
through
Science and Community of Practices**

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15th December 2021, International Center for Agricultural Research in the Dry Areas (ICARDA)



Procasur



Overview

1. Overview of 2021
 - Science of Knowledge Management
 - Science of Innovation and Scaling
 - Enhancing partners and empowering youth through Community of Practices
2. Learnings and Reflections
3. Questions and Answers

Science of KM - Evidence Synthesis

- An collaborative process for Evidence Synthesis
 - Consultation with and Capacity building of Scientists on Evidence Synthesis Method
 - Consultation with and Capacity building of Scientists on Evidence Synthesis Tools
 - Publication of the Evidence Synthesis Method in an Academic Journal
 - *Finalizing the Evidence Synthesis*
 - *Publishing the Evidence Synthesis in a journal*
 - *Asked to be editor for a special issues on Human-Machine Hybrid approaches*



Perspective Paper

A Human Machine Hybrid Approach for Systematic Reviews and Maps in International Development and Social Impact Sectors

Murat Sartas^{1,2*}, Sarah Cummings³, Alessandra Garbero³ and Akmal Akramkhanov¹

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 - ² Knowledge, Technology and Innovation, Wageningen University & Research, Leeuwenborch, Hollandsesweg 11 6706 KN, Wageningen, The Netherlands;
 - ³ Near East, North Africa, and Europe Division (NEN) Programme Management Department (PMD), International Fund for Agricultural Development, Via Paolo di Dono 44, 00142 Rome, Italy ;
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Abstract: The international development and social impact evidence community is divided about the use of machine-centered approaches in carrying out systematic reviews and maps. While some researchers argue that machine-centered approaches such as machine learning, artificial intelligence, text mining, automated semantic analysis, and translation bots are superior to human-centered ones, others claim the opposite. We argue that a hybrid approach combining machine and human-centered elements can have higher effectiveness, efficiency, and societal relevance than either approach can achieve alone. We present how combining lexical databases with dictionaries from crowdsourced literature, using full texts instead of title, abstract, and keywords, and using metadata sets can significantly improve the current practices of systematic reviews and maps. Since the use of machine-centered approaches in forestry and forestry-related reviews and maps are rare, the gains in effectiveness, efficiency, and relevance can be very high for the evidence base in forestry. We also argue that the benefits from our hybrid approach will increase in time as digital literacy and better ontologies improve globally.

Keywords: Effectiveness; Efficiency; Societal Relevance; Crowdsourcing; Text Mining; Artificial Intelligence; Metadata

Citation: Sartas, M.; Cummings, S.; Garbero, A.; Akramkhanov, A. *forests* **2021**, *12*, x. <https://doi.org/10.3390/xxxxx>

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Leveraging Semantic Analysis for Faster and Better Systematic Maps and Reviews
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QUALITATIVE ANALYSIS Using NVIVO
with
An ICARDA Use Case:
Leveraging Semantic Analysis for Faster and Better Systematic Maps and Reviews

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Science of Innovation and Scaling

- Scaling Readiness of Conservation Agriculture Systems in Moldova
- Scaling Readiness of Natural Resource Governance Framework in Sudan
- Scaling Readiness of Conservation Agriculture Systems in Moldova??

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AN INNOVATION PERSPECTIVE TO IFAD IMPACT INVESTMENTS: HOW READY IS THE CONSERVATION AGRICULTURE SYSTEM IN MOLDOVA FOR IMPACT AT SCALE?

Date: September 30, 2021

Published By: ICARDA, Communication Team

Share: Facebook, Twitter, LinkedIn

Blog written by Murat Sartas (ICARDA), Isabelle Stordeur (IFAD), Mia Madsen (IFAD), Emanuela Berti (IFAD), Samir Bejaoui (IFAD) and Akmal Akramkhanov (ICARDA).

SCALING READINESS OF THE CONSERVATION AGRICULTURE SYSTEM IN MOLDOVA

2021 April

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No title home have an innovation perspective to DPA2 impact investments: how ready is the conservation agriculture system in Moldova for impact at scale?

An innovation perspective to IFAD impact investments: how ready is the conservation agriculture system in Moldova for impact at scale?

The Importance of Understanding and Measuring Innovations

The Financial Times' late 2018 Report on Impact Investing showed that impact investing could help small-scale farmers in rural areas improve their livelihoods. However, investing ventures and enterprises that practice this type of investing - that produces positive social or environmental benefits in addition to returns on investment - often face funding barriers to scale up good practices.

To distinguish a good investment from a bad one, we must understand and measure the potential impact of said innovations at scale. This is especially the case today, as challenges related to innovation and innovation startups are ballooning.

The Scaling Readiness approach combines an innovation systems perspective for impact and a rigorous evidence synthesis method, used in various development initiatives by IASA and further developed by the ILLI. It links current agricultural and food

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Scaling readiness of the conservation agriculture system in Moldova

Sartas, Murat; Boincean, Boris; Rurac, Mihail; Akramchanov, Akmal

Date: 2021

URI: <http://dspace.usam.md/8080/vmlh/handle/123456789/6571>

Abstract:
This study is one of such strategic knowledge products and uses a state of the art innovation and scaling methodologies in agricultural research for development. Scaling Readiness: Scaling Readiness is a decision support system designed to support international research for development projects and programs implemented by CGIAR in designing, developing, disseminating, and improving the use of innovations at scale. Scaling Readiness concepts and indicators used in this study are explained in the Scaling Readiness Lexicon.

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Science of Innovation and Scaling

- Consultation with local partners
- Dissemination in multiple platforms
- Engagement in different platforms
- Interest from
 - *IFAD colleagues*
 - *FAO colleagues*
 - *Partners from Morocco*
 - *Request to do it for Morocco*

IPv6+IPv4 Transit - Global Internet Backbone, 25,000 BGP sessions, 8,300 Networks.

Samir Bejaoui • 2nd
Country Director (Kyrgyzstan and Moldova) at UN - International Fund for Agricultural Development (IFAD)


International Fund for Agricultural Development (IFAD) and ICARDA: International Center for Agricultural Research in the Dry Areas, joined forces in the 'Scaling Readiness of Conservation Agriculture System' (CAS) in Moldova's study.

The Study assess how IFAD's Impact Investments are leading Moldova in scaling CAS, by using metrics initially developed by NASA and further enhanced by the EU. A systematic analysis of the data collected, concluded that combining CAS with nine other innovations - a mix of policy, products and services, such as 'Digital farmer/enterprise suitability assessment tools' and 'Agricultural tools and equipment incentives' - is critical to achieving impact at scale.

IFAD has mainstreamed CAS in its inclusive Rural Economic and Climate Resilience Programme (IRECR) in the country, and with its closure in September 2021, substantial impacts were recorded over the years with, among others, 'agricultural productivity that has increased by up to 25%'.

For an insight on the methodology, data and findings, read the ICARDA blog post on the study!
#IFAD Moldova to the field and beyond!

#agriculture #climate #ConservationAgriculture #moldova



An Innovation Perspective to IFAD Impact Investments: How Ready is the Conservation Agriculture System in Moldova for Impact at Scale? | ICARDA
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Murat SARTAS (Ph.D.)
Wholistic professional of making innovations and innovatio...
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Would you like to learn more about how we can use an innovation perspective for guiding impact investments? Read our blog ICARDA: International Center for Agricultu...see more



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Akmal Akramkhanov and 12 others 1 comment

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Advisor to the Vice-President, International Fund for Agricultural Development (IFAD)

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Twitter interface showing a tweet by Samir Bejaoui (@samy4dev) about the 'Scaling Readiness of Conservation Agriculture System (CAS) in Moldova' study. The tweet includes a link to the ICARDA blog post and a photo of a tractor in a field. The interface also shows a sidebar with 'Relevant people' (Samir Bejaoui, IFAD, ICARDA) and 'Trends for you' (Ecuador).

Enhancing partners and empowering youth through Community of Practices



- Terms of References (4) for Knowledge Management Platform (2020)
- CoP's kicked off
- ODK Survey Event Log for SKIM to monitor and study the engagement with partners
 - Types of Events
 - Interaction Format
 - Utilization of SKIM KM tools
 - Utilization of other KM tools
 - Participation Trends
- Training on CoP
 - Youth-driven process
 - Further request for mentoring youth

Ithri Aghnaj • 1st
President Rotaract UM6P | Professional Development Directo...
3mo • 🌐

I am delighted to inform you guys that I have been admitted to the **UM6P Innovation & Entrepreneurship Lab** Ambassador Program. I definitely enjoyed the first Ambassador workshop in community engagement and leadership with Dr. **Murat SARTAS (Ph.D.)**. Special thanks to **Bisan Abdulkader**, **Hanaa IMANI** and to my dear colleagues.

#um6p #I&E #leadership #innovation #engagement #community

with You and 6 others

You and 89 others • 16 comments

Celebrate Comment Share Send

Learnings and Reflections

- There is an interest from science community for research and learning at the intersection of KM and innovation and scaling
 - Offer for being an editor for a special issue on evidence synthesis
- The intersection of KM, innovation and scaling can improve the performance of development interventions (E.g. the issue of technologies at the shelf)
- There is significant space for IFAD, CGIAR (and FAO) collaboration for understanding innovation and scaling of Conservation Agriculture
- There is a major grassroots youth movement in Morocco that demand mentoring and support in community of practices and community engagement
- We need to pay more attention to demand-driven processes in KM. Products are only a part of the picture.

Questions and

- What should be the focus of the Morocco Scaling Readiness Study? (Conservation Agriculture, Youth or Market arrangements?)
- What is the best way to further advance science collaboration between IFAD, CGIAR and other key KM partners?
- How can we better respond to the backstopping and mentoring demand of local partners and be flexible in our work? Can we innovate new modalities to support them?

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Thank You!

