

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



## Science of KM for Development Effectiveness and

**Effective Community of Practices for Enhancing KM Performance** 

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17th December 2020, SKiM 2020 Steering Committee Meeting











### **Overview**



- 1. 2020 Progress
  - Science of KM
  - Effective CoP

- 2. 2021 Plans
  - Science of KM
  - Effective CoP

3. Questions and Answers



# Science of KM - 2020 – Approach Papers

- IFAD Evaluation Synthesis
- A Science Based Protocol for Synthesizing Evidence
- Waiting for IFAD feedback
- Will be submitted December 2020
- Programming KM Grants
- Structured highlights on How SKIM works
- Will be Submitted December 2020



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	Proposed timeline, team and dissemination	1
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November 2020
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#### Approach Paper

Strengthening Knowledge Management For Greater Developmer Effectiveness In The Near East, North Africa, Central Asia And Europe

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Annex 1. Preliminary List of Projects, IFAD informing SKiM Design	Policies and Other initiatives funded or supported by
Appear 2 SKIM Popult Record Log Error	mo

Annex 3. Proposed SKiM Timeline

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## Science of KM - 2020 – Systematic Review

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

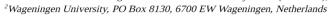
- The first paper linking KM interventions to agricultural Innovation Pipelines
- First Review Using Semantic (Network)
   Analysis in a review in KM in international development
  - Pseudo Randomized Reference Set Collection (LinkedIn, ResearchGate)
  - Frequency analysis on 40 Documents to identify a query
  - Using the queries in 7 major databases with a 30+ secondary databases
  - Screening 2075 Documents
  - Extracting 936 Full Texts
  - Analyzing (Coding, Classifiying) 5.7 million words
- The protocol to be submitted December 2020

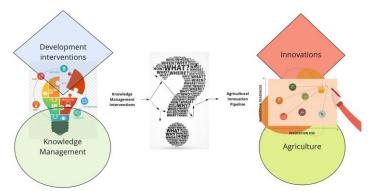
What Works in Improving Knowledge Management Systems in Low and Middle Income Countries?

A Systematic Review of Knowledge Management Interventions and Their Contributions to Agricultural Innovations

Murat Sartas<sup>1,2</sup>, Akmal Akramkhanov<sup>1</sup>, Valerio Graziano<sup>1</sup> and Enrico Bonaiuti

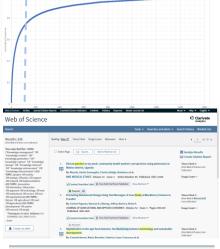
<sup>1</sup>International Center for Agricultural Research in the Dry Areas (ICARDA), Beirut, Lebanor





Database Name	Literature Found	Duplicates	Has PDF	Has No PDF	Journal Article	Book	Book Chapter	
Scopus	657	55	313	289	312	207	8	
WoS	225	78	145	2	116	2		
AGRIS	290	113	139	38	48	12		
Pubmed	75	О	72	3	72	О		
AgEcon	10	О	10	О	4	О		
Cab Abstracts EBSCOHOST	618	14	433	171	453	0		
Cab Abstracts OVID	200	16	121	63	180	o		
Total V2.	1715	556	554	873	837	226	8	
Total v3.	2075	276	1233	566	1185	221	8	
Overall - Cutpoint	1539	o	1001	538	910	230	9	
After Final Curation			936					







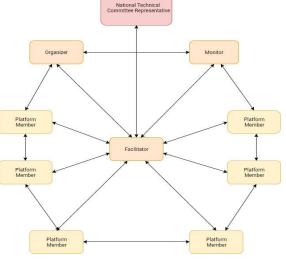
# **Effective CoPs - 2020 - Organizational Capacity**

- Terms of Reference for Knowledge Management Platform
- 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









#### **Event Log for SKIM**

PLANE SELECT THE FOCUS OF THE EVENT General Eask management (Proposal writing, planning activities, activity reports) Financial management (Budgeting, accounting, financial reporting) Human resource management (Ferms of reference planning, interviews)	
Financial management (Budgeting, accounting, financial reporting)	
Financial management (Budgeting, accounting, financial reporting)	
Organization and logistics	
Monitoring and evaluation	
Content/technical work on research and learning (Data collection, analysis ,writing, technical repor platform or community of practive events on research)	ting, resear
Content/technical work on Designing products, services or approaches (design sprints)	
Content/technical work on development, testing, validation of products, services or approaches (de sprints, innovation platform or community of practive events on innovations)	evelopmen
Communication with current and potential donors and sponsors (advocacy)	
Communication with current and potential implementation partners	
<ul> <li>Communication with general public including beneficiaries and other stakeholders on the activities project (dissemination, disclosure, promotion activities)</li> </ul>	of own
Capacity building of partners and beneficiaries on the content of own projects, programs	
Backstopping of partners and beneficiaries on the content of the activities outside of own project	
Call Meeting Visiting a place Radio program Video Broadcast SMS Campaign Social Media Campaign Workshop Winteshop Winteshop Conference	
Other events	
IS THE EVENT (PARTIALLY) VIRTUAL?	
○ Yes	
○ No	
PLEASE SPECIFY THE START DATE OF THE EVENT	
yyyy-mm-dd	
PLEASE SPECIFY THE END DATE OF THE EVENT	
yyyy-mm-dd	

# Effective CoPs - 2020 – Individual Capacity

- Presentations on Social Network Analysis (Conference, SKIM-IFAD Learning Event to IFAD, FAO, SKIM Teams and Partners
- Presentation how to network in international R4D world to Extensionist
- Presentation on basic of multistakeholder processes (CoP, IP etc.) to SKIM teams and partners
- Presentation on Knowledge Sharing for Systems Transformation to ICARDA Key Staff and ACIAR Experts

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### Social Network Analysis for Improving Design and Practice of Knowledge Management

Dr. Murat SARTAS (ICARDA) murat.sartas@cgmel.org

3rd July 2020, SKIM Learning Week



















murat Sartas

Innovation Performance and Delivery Scientist

November, 2019 Rabat, Morocco







DryArc – Australia Dialogue

Accelerating Knowledge Sharing on Global Dryland Solutions For systems transformation

Murat Sartas (PhD.)1,2

international Institute of Tropical Agriculture (IITA) - Central Africa Hub, Rwanda International Center for Agricultural Research in the Dry Areas (ICARDA): MEL Team, Uzbekistan Wageningen University & Research (WUR) - Knowledge Technology and Innovation Team, Netherlan



### Science of KM - 2021 -**Journal Publications**

- Finalizing the analysis
  - Big Picture of what works where
- A part of the review submitted to Nature Sustainability as a scoping review
- A possibility for full review submitted to another High ranking journal
- Dissemination of the learning



A scoping review of market links between value chain actors and small-scale producers in developing regions

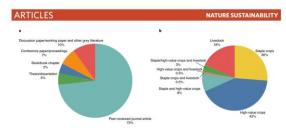
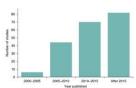


Fig. 21 Distribution of included studies, a.b. Studies can be classified either by type of publication (a) or by product category (b). The observation level



(19% for processors) that purchased products from small-scale producers, the buyer also offered some sort of training (OM2A in Fig. 1), while in 25-30% of interactions with these focal actors. 33% of farmer interactions with other input suppliers and logistics

agreements (informal but consistent interactions) was prevalent, provided in 50% and 25% of links with farmers, respectively. This indicates that there is some effort to formalize the relationship and permentary services were provided is higher for links with livestock guarantee repeated interactions in these market channels.

repetition of transactions between a farmer and buyer. For traders, high-value crops (at 2%).

we assume that purchase agreements fall into category 3 (the least formal interaction). For processors, since over 90% of them were identified as small, we also consider purchase agreements to be in category 3. For supermarkets and government programmes captured in this scoping review, we consider purchase agreements to be in category 2 or 3. These less formal arrangements are quite

common in mouern vaue chains in developing countries.

The 'other modern' market channels (agro-export companies, marketing platforms and high-value chains) also tend to provide services for farmers in addition to an output market. Inputs were provided to farmers in 38% of links with these modern market channels. Extension and credit were provided in 25% and 19% of the interactions, respectively. Almost 31% of these interactions involved a purchase agreement, while transportation arrangements (OM2C) were made in 19% of these interactions. These modern market channels are therefore similar to the main output market

channels in providing these additional services.

Although our sample size is limited for input suppliers, we training (Extended Data Table 1). In over 40% of interactions with cooperatives (where their primary role was as an input provider), training/extension was offered. This was also the case for 31% and in Fig. 1), while in 25-30% of interactions with these focal actors, inputs were provided, respectively (ISA) and 12A in Fig. 1). Finally, compared with traders and cooperatives, supermarkets are less likely to provide credit and inputs but not less likely to arrange for transportation of the product. We refer to these ligitities services provided transportation of the product. We refer to these ligitities services in provided transportation of the product. We refer to these ligitities services in the services (in 25% of their interactions as imput provider) and compared to the control of the product with shadoles involve farmers being included on a buyer's list on, less formally, regreted transactions between a farmer and in output market or purchased output from farmers on behalf of traders", and this project framsactions between a farmer and in output market or purchase output from farmers on behalf of traders", and this understood to complementary services in the understood of complementary services in the surface of the provision of complementary services in the understood of complementary services in the surface of the provision of the provision of complementary services in the surface of the provision of the provision of complementary services in the surface of the provision of the provi nel (Table 3). For supermarkets and traders, the provision of purchase midstream and downstream of input and output value chains is wel

arantee repeated interactions in these market channels.

We consider that three levels of formality can govern relations tween output market channels and farmers. The first includes between output market channels and farmers. The first includes the considerable that the considerable th written contracts and/or contract farming arrangements—which we exclude from this scoping review. The second includes coal as large crops, For example, the percentage of cases where an output our unwritten contracts such as a farmer being included on a supplier's lists, which suggests some degree of formility. The third includes of worknown services in higher (af 60%) for staple crops (24%). However, provision lists, which suggests some degree of formility. The third includes of worknown services in higher (af 60%) for staple crops than for plants

A scoping review of feed interventions and livelihoods of small-scale livestock keepers

ARTICLES					ATURE PL	
Table 2   Numbers of studies in different categories by level along the impact pathway						
Categories	Items in categories by level alon	Total	Adoption	Productivity	Livelihoods	
Publication type	Peer-reviewed journal article	51	42	10	12	
	Book chapter	1	1	1	1	
	Conference proceeding	8	6	3	2	
	Report	6	6	4	3	
	Working paper	7	3	1	4	
Year of publication	2016-2019	15	10	3	7	
	2011-2015	21	19	7	6	
	2001-2010	28	24	6	8	
	Before 2001	9	5	3	1	
Agro-ecological zone	Mixed systems	53	41	12	15	
	Agro-pastoral systems	10	9	2	2	
	Pastoral systems	3	1	2	1	
	Multiple systems	1	1	1	1	
	Other	2	2		1	
	(Blank)	4	4	2	2	
Regions	Horn of Africa	12	TT	2	3	
	East Africa	23	19	5	6	
	Central Africa	1	1			
	West Africa	7	5	2	1	
	Southern Africa	5	5	2	1	
	South Asia	6	4	1	2	
	Southeast Asia	12	7	3	8	
	East Asia	2	2	2	1	
	Latin America	5	4	2		
Type of methods	Quantitative	45	40	14	13	
	Qualitative	9	5		2	
	Quantitative/qualitative	19	13	5	7	
Duration of the experiment	>20 years	3	1	1	2	
	11-20 years	4	4	1	1	
	1-5 years	22	16	6	8	
	6-10 years	8	6	3	5	
	NA	36	31	8	6	
Total		73	58	19	22	

Four papers mentioned difficult access to the technology or inputs.
For some fronges pacies, there may be intuited systematics supply of significant with T papers having the highest score and 15 the low seeds or planting material, and this is often a limit to sustained use after the withfrarwood of project support. Amy JMCG leak furnition to loss to fine how the multiport of auditively of studies that were included in ting forage seed systems. Four papers montioned the complexity of the technology: a smallcast, some feed technologies may require feed options can and should play in enhancing livestock productive specific techniques, the training in which may not be available. Finally, competition with orbit radius was mentioned in four papers. In land-scarce settings, priority may be given to food crops or to short-term canh crops such as seamoul vegrations, inserts of the strength of the st may influence the relative returns from some feeding options.

livestock keepers. Indeed, the exercise yielded only 73 papers from Onality assessment. The research quality assessment was con-ducted using three indicators for all 73 papers (Table 4.). In terms of study methods (1997), and the study of the chinical aspects of feed supply for running the of study methods (1997), Tappers confide 4.). In terms of study methods (1997), Tappers confide by the study of the chinical aspects of feed supply for running the study of study methods (1997), the propers of the study of study methods (1997), the study of the papers (32) scored low. The quality assessment on the justification the scientific community towards understanding the technical

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# Science of KM - 2021 – IFAD Synthesis

- Preparation of an Evaluation Synthesis for IFAD
- Dissemination of the Synthesis to IFAD
- Dissemination of the Synthesis to Knowledge Managemt for Development Community (KM4Dev)







#### **Approach Paper**

**Evaluation Synthesis on The Effectiveness of Knowledge Management Interventions on Agricultural Innovations** 

November 2020

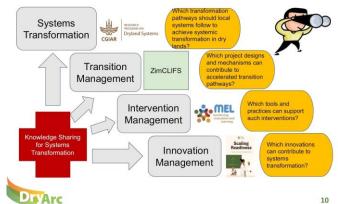
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### **Effective CoPs - 2021 - Analytics, Learning and Capacity Building**

- Analysis of data and synthesizing the SKIM learning on CoP
- Backstopping ad hoc capacity building
- Preparation of presentations and other capacity building materials on KM
- Preparation of seminars and other trainings for ICARDA on KM and other specialized topics (Qualitative analysis, Semantic analysis, Social network analysis etc.)



#### **System Transformation in Perspective**



### SKIM

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



## Thank You!









