





TRAINING COURSE ON Contemporary Approaches to Extension

15 – 19 May, 2016 Cairo, Egypt

Japan International Cooperation Agency (JICA)
and
International Center for Agricultural Research in the Dry Areas (ICARDA)



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EXECUTIVE SUMMARY

Name of the project

Capacity Development in Agriculture for Afghanistan and Regional countries

Partners

Japan International Cooperation Agency (JICA)

International Center for Agricultural Research in the Dry Areas (ICARDA)

Purpose

To enhance the skills of national staff engaged in agricultural extension activities, through an improved understanding of more contemporary approaches for efficacy in the delivery of knowledge to the agricultural community, with the overall aim at improving broad uptake of new technologies and production practices.

Specific objectives of the training course on contemporary approaches to extension

To provide an introduction to:

- Conceptual relationships between extension and innovation (technological, social, institutional)
- Approaches to rural advisory services (challenges and opportunities) through learning from international experience and participant reflections of extension delivery in Afghanistan:
 - Cost sharing/recovery approaches
 - Commodity specific approaches
 - o Farmer Field Schools
 - Multi-input approaches
 - Innovation Systems paradigm
 - The role of extension in rural development ("rural advisory services")
 - Understanding Innovation Platforms (what is new?)
 - The importance of considering gender in the process of agricultural innovation

Specific outputs

Thirteen National Agricultural Research Systems (NARS) employees (ten from Afghanistan, two from Egypt and one from Sudan) are introduced to contemporary approaches to, and efficacy in, knowledge acquisition and delivery with specific emphasis on broad uptake of new and/or improved agricultural technologies and production practices.

Specific outcomes

Course participants have a better appreciation of a variety of approaches to knowledge acquisition and delivery, and are able to assess the contextual validity of these approaches for effective applicability within their working environments.

GENERAL OVERVIEW

The rapidly changing context of agriculture has resulted in a transformation of the way knowledge is generated and applied. Agricultural development is increasingly taking place in a globalized setting, which implies that domestic markets alone no longer define demand. Agricultural systems are increasingly complex and knowledge from other domains and locales is increasingly more important. Affected by technical, social, economic, political and environmental issues, the range of issues that must therefore be addressed to foster agricultural development is vast and impossible to achieve without adequate foresight.

Hence, what is required is a different approach towards the generation and application of agricultural knowledge. Traditional approaches to agricultural research and extension are no longer sufficient to enable agricultural innovation and development to take place. Over the years, perspectives on the role of agricultural research for development have shifted considerably, moving from linear Transfer-of-Technology (ToT) models in the 1960s to 'Farmer First' and Farming Systems Research approaches in the 1980s and 1990s. Participatory approaches that came into vogue in the 1990s contributed to technology generation and adoption that further brought in economic, market driven value chain thinking into agricultural research and extension. However neither participatory approaches nor value chains addressed the organizational and institutional factors required for technological changes to sustain. Thus far, agricultural research has focused strongly on improving production and processing techniques such as breeding new varieties, improving cultivation practices or interactions between food and cash crops.

More recent views focus on *Agricultural Innovation Systems* (AIS), which builds on systems thinking. *Systems thinking* is an approach to probing and dealing with the complex situations that actors face in a particular sector – looking at the whole and making links between the various parts. Systems are defined as "relationships and linkages among elements within arbitrary boundaries for discourse about complex phenomena to emphasize wholeness, interrelationships and emergent properties" (Röling 1992). Integrated systems are complex wholes in which a range of social and bio-physical processes interact across various levels and scales. Re-orienting the dynamics of systems in favour of realizing desirable outcomes is essentially about changing the way people interact with each other and respond to their changing environment. (Leeuwis et al 2014). As such, recent approaches to agricultural innovation are increasingly rooted in (soft) systems thinking. The focus on actors, their perspectives, their intentions, and their interrelationships within the wider context makes it a useful approach for dealing with the complexity in which smallholder farmers operate. The new perspectives that emerge through focusing on actors and using a soft systems approach, challenge predominant reductionist, linear, transfer of technology approaches. (Sanyang et al, 2014)

The *Agricultural Innovation Systems* perspective can help to address systemic constraints shared by multiple actors operating in complex systems with competing forces at play. The AIS perspective places great emphasis on understanding the nature of relationships between actors, and the attitudes and practices that shape those relationships. Relationships promote interaction and interaction promotes learning and innovation (World Bank, 2007). An innovation system can be defined as "a network of organizations, enterprises, and individuals focused on bringing new products, new processes, and new forms of organization into economic use, together with the institutions and policies that affect their behaviour and performance" (FAO working

definition, Rajalahti, 2012, Hall et al., 2006). They are seen as a way of operationalizing interaction and learning among actors, and enable reshaping institutions and relationships. (Swaans, et.al., 2014)

PURPOSE

To enhance the skills of national staff engaged in agricultural extension activities through a better understanding of the concept of agricultural innovation systems in enhancing the delivery of knowledge to the agricultural community, and in order to improve broad uptake of new technologies and production practices.

TARGETED AUDIENCE

Staff within NARS who are engaged in the delivery of knowledge to the agricultural community and who, through better appreciation for more contemporary approaches for knowledge dissemination, are able to foster greater uptake of new technologies and production practices (See details in Annex III).

ORGANIZING COMMITTEE

Mr. Charles Kleinermann, Head, ICARDA Capacity Development Unit (CDU) - <c.kleinermann@cgiar.org>

Dr. Shinan Kassam, Sustainable Intensification and Resilience Production Systems (SIRPS) - <<u>S.Kassam@cgiar.org</u>>

Mr. Masafumi Tamura, Technical Training Officer, ICARDA CDU – <m.tamura@cgiar.org>

COURSE STRUCTURE

A series of lectures provided background information on contemporary approaches to agricultural extension and were delivered in a manner which aided discussion in both small groups (break-out sessions) as well as in general fora.

COURSE IMPLEMENTATION

The course was delivered over a five-day period between May 15 - May 19.

The first day began with the course overview and introduction by Dr. Shinan Kassam followed by a series of lectures on extension, rural advisory servieces and innovation systems and plastforms.

On Monday, Dr. Kassam delivered a lecture on defining essential underpinings for innovation systems and platforms followed by the role of gender, nutrition livelihoods and well-being in innovation systems.

A planned field visit to the ICARDA research site in Sharqia governorate on May 17 was cancelled due to an inability to obtain official security clearance from the Minister



of Interior in a timely fashion. In order to fill the gap, a guest speaker from the Agricultural Research Centre in Egypt (Dr. Mohamed Kassem) was invited in order to deliver a half-day session

on the agricultural extension system in Egypt.



On the fourth and fifth day, the trainees focused on discussion and analysis of individual country extension systems, how they compared to each other, as well as reflection on both strengths and areas of potential improvement followed by the course evaluation.

GROUP ASSESSMENT

Participants indicated that they had been esposed to as significant amount of new and valuable knowledge over the five-day period, inclusive of strengthening existing knowledge, as well as in better understanding concepts and terminology, which they had heard of before, but were not fully clear to them in terms of their understanding and meaning. While they were disappointed in not being able to visit the field in Sharqia, they were very satisfied with the guest speaker and the knowledge gained on Egyptian extension systems.

The language of instruction (English) was a clear concern given that a number of trainees were not fluent in English. This required periods of delay, within which one of the participants would provide translation of important concepts or a summary of the lecture materials. This necessarily caused disruption in the flow of proceedings for those with relatively better English comprehension skills. A process for more effective screening of English language skills may need to be uncovered in order to enhance the efficacy of future training courses and ability for more intense discussion.

GENERAL COURSE EVALUATION by TRAINEES

At the end of the training cource, each participant provided their feedback on their perception of the effectiveness of the training course format and content.

92% of the participants qualified the course as excellent and the rest of the participants qualified it as very good. Participants expressed their interest in providing more time for lectures by extending the course duration, which will also allow more time for discussion and group work. With respect to the technical level of the topics covered in the training, 71% of the participants considered that the delivered material was very useful. (See details in Annex IV).

CONCLUSION

In general, the course participants appreciated the breadth of material provided within the course and the knowledge gained over the five days of training. Specific areas for consideration within future courses relate to more practical training on participatory approaches as well as tools for monitoring and evaluating the efficiency and efficacy of extension and rural advisory services. A request for follow up on in-field training was also requested but somewhat difficult to ensure given the ongoing conflict within Afghanistan.

Annex I: Course Program

Date / Time	Session	Trainer	
Sunday, May 15			
9:00 – 9:30	Registration		
9:30 – 9:45	Opening session	ICARDA	
9:45 - 10:30	Introductions, overview, expectations	Dr.Shinan Kassam	
10:30 - 11:00	Coffee break		
11:00 - 13:00	Unpacking 'extension', 'rural advisory services' and 'innovation'		
	Conceptual understanding		
	Contextual definitions		
	Challenges to technology development and adoption		
13:00 - 14:00	Lunch break	D (1) 17	
14:00 - 15:30	Innovation systems versus innovation platforms	Dr. Shinan Kassam	
	Conceptual understanding		
	Break-out session (mapping innovation systems)		
15:30 – 16:00	Coffee break		
16:00 – 17:30	Uncovering the essential and desired underpinnings for innovation systems		
	and innovation platforms		
Monday May 16			
8:30 – 10:00	Synthesis of day 1 and continuation of defining essential underpinnings for		
	innovation (systems and platforms)		
10:00 - 10:30	Coffee break		
10:30 - 11:30	The role of gender within innovation systems		
11:30 – 13:00	Breakout sessions: Revisit the maps of innovation systems prepared on day		
		Dr. Shinan Kassam	
13:00 - 14:00	Lunch break	1	
14:00 - 15:30	Nutrition, livelihoods and well-being within innovation systems		
15:30 – 16:00	Coffee break		
16:00 - 17:00	Towards a mutual (contextual) definition of innovation systems and	1	
	platforms		
Tuesday May 17			
8:30 - 10:00			
10:00 - 10:30			
10:30 - 13:00			
13:00 - 14:00	FIELD VISIT		
14:00 - 15:30			
15:30 - 16:00			
16:00 - 17:00			
Wednesday May 18			
8:30 – 10:00	Synthesis and learning from the field visit		
10:00 - 10:30	Coffee break		
10:30 - 13:00	The role of 'learning' within an innovation system (and platform) and		
	different avenues for learning	Dr. Shinan Kassam	
13:00 – 14:00	Lunch break	Di. Siilian Kassaili	
14:00 – 15:30	Potential to influence policy through innovation systems		
15:30 – 16:00	Coffee break		
16:00 – 17:00	Efficacy of innovation systems – what is it that we desire as outcomes		
Thursday May 19			
8:30 – 10:30	Revisiting the maps of innovation systems amended on day 2	Dr. Shinan Kassam	
	Synthesis and wrap-up		
10:30 - 11:00	Coffee break		
11:00 – 12:00	Evaluation		
12:00 - 13:00	Closing session and certification	ICARDA	
13:00 – 14:30	Lunch break		

Annex II: Trainers

Trainers	Name & Surname	Institution	E-mail
1	Dr. Dr. Shinan Kassam	SIRPS- ICARDA	S.Kassam@cgiar.org

Annex III: Trainees List of Contacts

#	Country	Name of nominee	Nominating institutions	Current position	Telephone number	E-mail address
1	Afghanistan	Ateaullah Malang	Ministry of Agriculture, Irrigation and Livestock (MAIL)	Field Assistant	078 6717268	amalung.icarda@gmail.com
2	Afghanistan	Abdul Latif Ahmady	MAIL	General Extension Manager	(0)700649257	latifahmadi17@yahoo.com
3	Afghanistan	Bashir Ahmad Formuli	MAIL	Field Assistant	93787650529	bformuli.icarda@gmail.com
4	Afghanistan	Mohd Shaker Hamidi	MAIL	Extension manager	077 8359033	shakir-hamidi@yachoo.com
5	Afghanistan	Mohd Haroon Ayoobi	MAIL	Extension manager	074 4116140	haroon-ayoubi@yahoo.com
6	Afghanistan	Karim Ullah Sangar Khil	MAIL	Cereal Crop manager	077 5838710	karimullahsangar@gmail.com
7	Afghanistan	Najibullah Azimi	MAIL	Extension general manager	077 0079549	najibazimi20@gmail.com
8	Afghanistan	Syed Qayum Sarwari	MAIL	Agricultural Affair Director	070 2008200	gaum.sarwari@gmail.com
9	Afghanistan	Esmatullah Sharifi	MAIL	District extension manager	077 9263291	-
10	Afghanistan	Abdul Halim Nasery	ICARDA	National program and data specialist	077 6040012	halim.nasery@gmail.com
11	Sudan	Mr. Elkhalil Elnour Breima	ARC-Sudan	Director, Zalingei Research Station (ZARS), Agro-economic Research Scientist	249912609625/ +249118895792	Kbriema@yahoo.com
12	Egypt	Ms. Engy Moslam Mohamed Khair	ARC-Egypt	Agronomist, Agricultural Irrigation Research Institute	01002365463/ 01119554003	gege90mmkm@yahoo.com
13	Egypt	Ms. Amal Hassanein Mahmoud	ARC-Egypt	Deputy Director Food Technology Research Institute	202-24314007/ 123566846	amalhassanein@yahoo.com

Annex IV: General Course Evaluation

I. Contents of the course:

Item/ratir	ng/percentage	OVERALL AVERAGE	
Relevance of the course to	your job	4.3	
1=Not relevant;	5=Very relevant	4.3	
Accomplishment of subject	t matter	4.8	
1=Inadequate	5=Very comprehensive	4.0	
Clarity of course objective	s	4.6	
1=Not clear;	5=Very clear	4.0	
Level of lectures		4.8	
1=Too basic	5=Too	4.0	
Time allocated for discussi	ions	4.5	
1=Too short	5=Too long	4.3	
Interaction with participants enrolled in the course		4.8	
1=Very low	5=Very high	4.0	
Overall, how would you rate this course		4.9	
1=Poor	5=Excellent	4.3	

II. Schedule and time allocation:

Item/rating	/percentage	OVERALL AVERAGE
Percentage of Time allocated 1=Too short	d to lectures 5=Too long	4.7
<u>U</u> sefulness of Lectures 1=not useful 5=useful		4.9

III. Teaching aids:

Item/ratir	ng/percentage	OVERALL AVERAGE
Effectiveness of teaching a	ids in general	
1=Not effective 5=Very effective		4.7
Clarity of slides/overheads	/Powerpoint	
1=Not clear 5=Very clear		4.8
Handouts and material		
1=Not useful 5=Very useful		4.6

IV. Administrative arrangements:

Item/rating/percentage 1=NI 5=Excellent	OVERALL AVERAGE
Pre-course communication	4.5
Travel arrangements	4.5
Quality of the accommodation	4.4
Payment of allowance on time	4.0
Transportation	4.5
Lecture rooms	4.8

V. Your comments and suggestions on the course:

- 1. Please state the three most important ideas/concepts that you learned from this course
 - Agricultural extension and rural advisory services
 - Innovation system and platform
 - Extension method and its system in different countries
 - Benefit not just for government but also for farmers
 - Value chain
- 2. Suggestions for future improvement of the courses
 - How can we measure the effectiveness of extension approaches
 - Participatory approaches for extension should be also covered.
 - Handout and material should be delivered before the training course starts
 - More longer period of training and for open discussion
 - Follow up to support trainees after going back home country

3. Do yo	ou recom	mend this	course to	o be repea	ted in the	future?

Yes	No □
100%	

End