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The U.S. Government's Global Hunger & Food Security Initiative



USAID-INDIA-Afghanistan
Feed The Future India Triangular Training (FTF ITT) Programme on
**'e-Extension: ICT Applications in
Agricultural Extension Management'**

10th-19th October 2016

Ministry of Agriculture, Irrigation and Livestock (MAIL)
Kabul, Islamic Republic of Afghanistan

REPORT



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USAID-INDIA-Afghanistan

Feed The Future India Triangular Training (FTF ITT) Programme on

'e-Extension: ICT Applications in Agricultural Extension Management'

REPORT

2017

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EXECUTIVE SUMMARY

The Ministry of Agriculture, Irrigation and Livestock (MAIL) recognizes the need for a comprehensive service delivery mechanism in accordance with the needs of the farmers. The importance of agricultural extension in providing the relevant information, technology and knowledge to the farmers and creating the enabling environment to increase production and productivity is quite clear, as mandated under the National Agricultural Extension Policy (NAEP).

The Extension Service System under the "National Agricultural Extension Policy" has an indispensable and vital role in providing extension support to a large population of farmers and herders. The extension personnel have to be transformed into a vibrant and useful knowledge force to bring about the desired changes in agriculture, animal husbandry and natural resources management. It further reinforces that any attempt to strengthen and enhance the capability of existing extension functionaries is a welcome step for agriculture development. Similarly, there is a large number of private extension players like agribusiness companies, farmers' organizations, agri-entrepreneurs, input dealers, NGOs and cooperatives which are complementing, supplementing and also working in partnership with public extension system at the grassroots level. These private extension functionaries also need to be empowered through capacity building to improve their effectiveness in the delivery system.

Implementation of the Policy calls for comprehensive interventions including the strengthening of the Research-Extension-Education continuum from the laboratory to the field. This includes ICT-mediated agricultural education platforms such as the use of video technology in community settings to reach out to the farmers, based on lessons learned from countries of the region which have succeeded in transforming agriculture by "bringing the field to the farmers.

The General Directorate of Extension and Agriculture Development (GDEAD) has been developing many ICT innovations in linking research-extension-education for agriculture. These include, Farmers Call Centers, Digital Library, Development of ICT applications and website, Video technology, Post Graduate Diploma program and Extension Service Messages.

Realizing the paramount importance of public and private extension system functionaries, the General Directorate of Extension and Agriculture Development of MAIL arranged a training program under theme of "e-Extension: ICT Applications in Agricultural Extension Management" in collaboration with The National Institute of Agricultural Extension Management (MANAGE), India, under "Feed the Future" intervention of USAID on October 10th to 19th, 2016 at MAIL.

The main Objective of the training program was "Developing an innovative "ICT mediated Agricultural Education Knowledge Management Platform" for strengthening MAIL's Agricultural Research-Extension-Education Continuum.

1. INTRODUCTION

1.1 Background

The Ministry of Agriculture, Irrigation and Livestock (MAIL) recognizes the need for a comprehensive service delivery mechanism in accordance with the needs of the farmers. The importance of agricultural extension in providing the relevant information, technology and knowledge to the farmers and creating the enabling environment to increase production and productivity is quite clear, as mandated under the National Agriculture Extension Policy (NAEP). Under this Policy, the division of responsibilities between the public and non-state sectors in the delivery of “*demand-driven*” Extension services will shift towards an increased role for the private sector in direct service delivery while the role of the Government will be focused on regulatory matters and quality oversight. The change follows an acceptance by the Government that farmers need to have a direct role in problem solving and they must take ownership of the solutions to these problems.

The Extension Service System under the “National Agriculture Extension Policy” has an indispensable and vital role in providing extension support to a large population of farmers and herders. The extension personnel have to be transformed into a vibrant and useful knowledge force to bring about the desired changes in agriculture, animal husbandry and natural resources management. It further reinforces that any attempt to strengthen and enhance the capability of existing extension functionaries is a welcome step for agriculture development. Similarly, there is a large number of private extension players like agribusiness companies, farmers' organizations, agri-entrepreneurs, input dealers, NGOs and cooperatives which are complementing, supplementing and also working in partnership with public extension system at the grassroots level.

Implementation of the Policy calls for comprehensive interventions including the strengthening of the Research-Extension-Education continuum from the laboratory to the field. This includes ICT-mediated agricultural education platforms such as the use of video technology in community settings to reach out to the farmers, based on lessons learned from countries of the region which have succeeded in transforming agriculture by “bringing the field to the farmers.

MAIL together with its programs and projects can work on building ICT applications required for disseminating best practices and knowledge generated to the farmers, scientists, graduate students and extension personnel. These applications and platforms will promote Technology Enhanced Learning in Agricultural Education and Extension. This can implement various methodologies on short term and long-term basis and can build application that bank up on these infrastructures for capacity building and knowledge transfer activities.

The General Directorate of Extension and Agriculture Development (GDEAD) has been developing many ICT innovations in linking research-extension-education for agriculture, which will create a common architecture for digital information aggregation and services in the context of agricultural practices involving multiple institutions and stakeholders with widely varying requirements and criteria for usefulness or effectiveness. The time is opportune to introduce innovative ICT mediated processes to strengthen the current and future agricultural education system in Afghanistan.

Realizing the paramount importance of public and private extension system functionaries, the GDEAD of MAIL arranged a training program on “e-Extension: ICT Applications in Agricultural Extension Management” in collaboration with The National Institute of Agricultural Extension Management (MANAGE), India, under “Feed the Future” intervention of USAID on October 10th to 19th, 2016 at MAIL.

This program is the First third country training program organized under the **Feed the Future – India Triangular Training (FTF-ITT)**.

1.2 Objectives

Towards developing an innovative “ICT mediated Agricultural Education Knowledge Management Platform” for strengthening MAIL’s Agricultural Research-Extension-Education Continuum through sharing Indian and Global innovations in e-Extension initiatives. The specific learning outcomes and outputs are given below:

1.2.1 Outcomes:

- Greater information and knowledge flows at MAIL.
- Improved access to data, information and knowledge to various agricultural stakeholders.
- Modernized agricultural research-extension-education approaches.
- Contemporary agricultural marketing approaches.

1.2.2 Outputs:

- Enhanced innovative educational approaches.
- New cadre of professionals with specialized skill sets.
- Creation of a Facebook group under the name of e-Extension in Afghanistan
- Knowledge Management Platform with various ICT tools and solutions.
- Upgraded skills and enhanced capacities of participants.
- A network of regional contacts established including networking between Afghanistan agricultural extension institutes and universities and Indian Extension Institutes particularly the MANAGE.

1.3 Themes and Coverage

The content covers all major themes related to ICT applications in agriculture which includes Govt. of India's programs, successful cases from private sector and Global initiatives for effective delivery of extension and rural advisory services to farmers in the context of Afghanistan. The themes of the training program are given below:

- Introduction of the ICT application
- Inauguration and Technical Session on ICT Applications in e-Extension in Afghanistan
- Agricultural Extension and NeGP-A National e-Agricultural Initiatives in India - Farmers' Portal and mKisan
- National e-Agricultural Initiatives in India - Kisan (Farmers) Call Center (KCC) and Extension Reforms through ICT Initiatives
- National e-Agricultural Initiatives in India – Marketing Information Systems and Reforms: AGMARKNET, eNAM and Private Initiatives

- Agricultural Knowledge Management: Climate Change Knowledge Advisory AGROPEADIA, MOOCs and MIS
- Access to Agricultural Information / Knowledge - Social Media in Agriculture and Opening Access to Agricultural Knowledge Resources.

The complete training program scheduled is given at Annexure-I.

1.4 Profile of Participants

Seventy one executives have attended and successfully completed the program. The executives comprise of Extension Managers, ICTs Officers, Communication Specialists, Officers from Agriculture and allied sectors, Change agents, Heads of Projects under the MAIL representing all 34 provinces in Afghanistan. Faculty from department of Agriculture, Kabul University, Senior Official from extension directorate, IT department and project incharge and IT interneers from MAIL also actively participated. Complete list of Participants is at Annexure-II.

2. INAUGURATION

The inaugural program entitled “National Seminar on ICT Application in e-Extension” was organized on 10th October, 2016 in the Pamir Conference Hall of MAIL. The inaugural program was attended by more than one hundred executives and delegates that included the provincial Extension and IT employees of MAIL, key staff members of GDEAD and Directorate of Information Technology and other partner organizations. The senior staff members of MAIL including the Deputy Minister for Finance and Administration and the Secretary for Development, Embassy of India, Mr. P.P Sing were the distinguish guests of the seminar.



Opening of the Seminar: L to R- Mr. Sultan Aziz (senior Adviser to the Minister), Mr. P.P. Sing (Secretary for Development, Embassy of India), Dr. V.P. Sharma (MANAGE), Deputy Minister Abdul Qadeer Jawad, Mr. Hamdullah Hamdard (D.G. of Extension), Dr. Najib Malik (Senior Policy Adviser) and Mr. Mirwais Khogiani (Extension Adviser)

The Director General of GDEAD, Mr. Hamdullah Hamdard introduced and officially announced the training program to the audience. He also mentioned the role of MANAGE in institutional Capacity of MAIL. Then the Deputy Minister for Finance and Administration of MAIL Mr. Qadeer Jawad delivered his welcome remarks and a brief speech on importance of ICT in Agriculture. After, the Director/Chairman of Centre for Agricultural Knowledge Management, ICTs and Mass Media at MANAGE, Mr. V.P.

Sharma introduced the USAID-funded “Feed the Future India Triangular Training Initiative” being implemented by MANAGE. He also elaborated the ICT training and Post-Graduate diploma programs to the audience. The Secretary for Development, Indian Embassy, and Mr. P.P Sing expressed India’s strong support for collaboration between the two countries.

There was a presentation on “GIS Products and Databases in Agriculture in Afghanistan” by USAID-Funded “Kandahar Food Zone” project. The Director of Information Technology at MAIL, Mr. Rahim Stanikzai presented the status quo of Afghanistan in e-Governance and e-Agriculture.



Seminar participants conducting a Skype call with Dr. Usha Rani, D.G. of MANAGE, facilitating by Dr. Malik on Oct 10 2016

The Director General of MANAGE Dr. Usha Rani, IAS also joined the seminar participants through video conference and highlighted the importance of ICT in agriculture and collaboration between MAIL and MANAGE.

3. METHODOLOGY

A learner – centered approach has been followed to orient the executives on ICT tools, applications, platforms, information system and services, policies and strategies at National and International levels. The methodology adapted in the training is as follows:

3.1 Training Approach

- Participatory approach
- Presentations and screening of Video films on ICTs in agriculture
- Interactions with expert resource persons through skype sessions
- Demonstration of farmers' portal, knowledge systems, social media for agriculture
- Case studies on ICT initiatives in agriculture
- Group work on ICTs for extension reforms, farmers' portals, farmers call centre and social media for research – extension – education – marketing.
- Presentations and sharing by executives
- Hands-on practice in computer lab on social media platforms
- Visit to ICT infrastructure facilities available with MAIL
- Question & Answer sessions in local language by expert faculty member from Kabul University
- Preparation and Presentation of Back-At-Work-Plans by the executives

3.2. Resource Persons

Besides MANAGE Faculty Members and Ministry of Agriculture Government of India, experts resource persons viz., Dr. Ajit Maru Senior Knowledge Officer, GFAR of the Food and Agriculture Organization of the United Nations (FAO), Rome; Mr. Gerard Sylvester, Information and Knowledge Officer, FAO-RAP, Bangkok; Dr. A Gulzar, Digital Green, India; Dr. Srinivasa Tavva, Senior Officer, ICARDA, Kabul; Prof T.V Prabhakar, IIT- Kanpur, India have taken sessions on the topics.

3.3. Life Membership to MANAGE Journal

In order to cultivate reading, writing and sharing agricultural technologies, extension innovations and research studies, Life membership to MANAGE **Journal of Agricultural Extension Management** (bi-annual) was offered to all executives of the training program.

3.4. Back-At-Work-Plans

Considering the orientation and experiences received during the program, the executives prepared and presented individual as well as group specific "Back-At-Work-Plans" which would help operationalize the relevant concepts learned during the training program. The Back-At-Work-Plans are presented in the following format:

Activity	Problem	Indian Experiences	Place of Implementation	Target Group	Period	Expected End Results	Indicators

The Back-At-Work-Plans presented by executives are given at Annexure- V

3.5. Valedictory Program

The valedictory function was held on 19th October, 2016. Certificates were given away to the executives who successfully completed the training program.

4. TECHNICAL SESSIONS

The Technical sessions were delivered by the resource person through presentations, class room lectures, demonstrations etc., with the help of video films and successful case studies in e-Extension. For the convenience of Afghan executives, translations services of senior faculty members from the Department of Agriculture, Kabul University have been utilized. A brief account of technical session is given below:

4.1 National e-Agricultural Initiatives and Extension Reforms through ICT Initiatives in India:

Mr. Ashok Kumar Suri from MoAFW presented the comprehensive picture of the National e-Agricultural Initiatives in India. Mr. Suri elaborated the Farmer's Portal and mKisan initiatives in details including the introduction and demonstration. He also facilitated a group discussion on "Identification of issues for the implementation of Farmer's Portal in Afghanistan. On 13th October, Dr. V. P. Sharma led the following sessions;

- Extension Reforms through promoting ICT – Institutional Linkages and Processes.
- Farmers Call Centers in India : Concept and Services
- Group work and presentation on:
 - Extension Reforms
 - National Farmers Portal
 - Farmers Call Center
 - SMS gateway

4.2 National e-Agricultural Initiatives in India – Marketing Information Systems and Reforms:

Dr. V P Sharma briefed the participants on the Mobile Agriculture i.e. the agricultural applications and Green SIM. Furthermore, Dr. Attaluri Srinivasacharyulu introduced and described the importance of the ICT applications like, AGMARKNET, eNAM, e-Choupal and ReMS in agricultural marketing. There was also a group work and presentation on "Agricultural Marketing Information System in Afghanistan".

4.3 Agricultural Knowledge Management – Climate Change Knowledge

Advisory:

Dr. V.P Sharma ran a comprehensive session on Advisory services to farmers on Climate Change. Dr. Lakshmi Murthy talked about the Community Radio in Agriculture. Next, there was a video conference session with Prof T. V. Prabhakar from Kanpur, India on the AGROPEADIA and Agricultural MOOCs.



Dr. Attaluri Srinivasacharyulu discussing about linking farmers to markets through ICTs

4.4 Access to Agricultural Information – Social Media in Agriculture and Opening Access to Agricultural Knowledge Resources:

The role of social media in dissemination of the agricultural information was the main theme of the training program. Dr. Lakshmi Murthy and Dr. Attaluri Srinivasacharyulu led the sessions on Harnessing Social Media for Agricultural Development and Hands-on on Social Media respectively. In addition, there was a comprehensive skype session with Dr. Ajit Maru, from GFAR, FAO office in Rome, on the Global Trends of Agricultural e-Extension.

Hands-on experience was provided to the executives to work on social media platforms in computer lab.



Dr. Lakshmi Murthy briefing about ICT application

4.5 e-Agriculture Strategies, Agricultural Knowledge Management and Dissemination through Digital Libraries and Participatory Videos:

Dr. Lakshmi Murthy briefed the participants on the Digital Libraries and Repositories for Agricultural Knowledge Management. A skype call session was facilitated with Mr. Gulzar, Director of Digital Green, India – the session was mainly for the introduction of Digital Green and its role in e-Extension in Afghanistan; and a Question and Answer session. There was a skype call session on e-Agriculture Strategies with Mr. Gerard from FAO, Bangkok. Dr. Srinivas Tavva from ICARDA Office in Kabul shared the ICARDA's experiences in ICT in Agriculture.



Skype call session with Mr. Gerard Sylvester, FAO-RAP Bangkok
On e-Agriculture Strategies

4.6 Revision and Wrap-up of the training program:

The ICT applications training Program was summarized on its last day. The preparation and presentation of BACK-AT-WORK PLANS was facilitated by Dr. Lakshmi Murthy and Dr. Attaluri Srinivasacharyulu alongside the extension technical team and program facilitators.

5. TRAINING EVALUATION

5.1 Pre and Post- Training Test

Pre and Post Training tests were conducted for the executives at the beginning as well as at the end of the training program. The question paper contains 40 questions related to basic and advanced ICTs applications in agriculture with specific emphasis on extension delivery mechanisms, which carries 40 maximum marks. A total of 47 executives attended both the pre and post training tests. The average percentage of executive participants in the pre-training test was 34.78 whereas the average percentage of post training was 62.16. Thus it is found that the level of knowledge of executives was increase by 27.38 percent after the training Programme. Details of pre and post-training test are given at Annexure- III .

5.2 Evaluation of Technical Sessions:

Feedback of Executives was collected on all technical sessions and practical sessions taken by resources persons on a scale of 0-to-10 ('0' being the poor and '10' being the excellent) in addition to their suggestion for improving training, lodge and boarding and other matters. The executives gave a score of 9.02 for the technical and practical sessions. Whereas as they felt that the objectives of the program achieved with a score of 8.82. The overall impression of the executives about the program stands at a score of 8.93. The feedback received from executives is tabulated and given at Annexure-IV.

6. ROAD AHEAD

Virtual knowledge networks are recognized as an important part of corporate knowledge management. Academia has yet to recognize and fully explore the significance of systematic knowledge network development tools for agricultural education purposes. A dynamic Information and Communication Technology (ICT) mediated knowledge management model can now be applied to agricultural research done at any university/research organization anywhere on the globe and this research can be exchanged in a matter of seconds between scientists, faculty, private industry, students, extension workers and smallholder farmers.

The training program on “e-Extension: ICT Applications in Agricultural Extension Management” at MAIL has improved the knowledge and skills of the trainees on the use of ICT application in Agriculture. Moreover, with the help of the training program a network of ICT and Extension workers has been established that will help in confirming the sustainability of e-agriculture initiatives in Afghanistan. In particular, the trainees will use their gained knowledge and skills in supporting any ICT mediated agricultural interventions in Afghanistan. Ministry of Agriculture, Irrigation and Livestock and particularly the General Directorate of Extension and Agriculture Development is looking forward to collaborating with MANAGE- India for their future endeavors on ICT mediated agriculture development. It is also worth mentioning that USAID through its “Feed the Future” program will continue its support in nourishing the capacities of the agricultural professionals.

Following are the key recommendations of the training program provided by the participants.

- The MAIL and MANAGE need more bilateral and specific agreements and MoUs.
- The MAIL and MANAGE need to further explore the agriculture technology transfers.
- It is highly recommend to share the best practices for the human resources capacity building of MAIL staff.
- Regular follow up and interactions is highly required.

- The MAIL and MANAGE are required to work out in the further improvement of e-Agriculture linkages.
- USAID should organize more training programs on e-agriculture and marketing in Afghanistan and India.
- It is highly recommended to support MAIL in the establishment of agriculture research institutes.
- The MANAGE is highly required to support Afghanistan in the successful development of e-Agriculture policy and strategy.



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10th–19th October 2016

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Kabul, Islamic Republic of Afghanistan

PROGRAM SCHEDULE

10 October (Monday) – Day 1

Inauguration and Technical Session on ICT Applications in e-Extension in Afghanistan			
8:45 am – 9:15 am	Registration	:	
9:15 am – 9:20 am	Recitation from the Holy Quraan	:	
9:20 am – 9:45 am	Introduction and Announcement of the Program	:	Dr Hamdulla Hamdard, DG, Extension, MAIL
9:45 am – 10:00 am	Welcome Address	:	H.E. Mr. Abdul Qadeer Jawad, Dy. Minister of Finance and Administration, Afghanistan
10:00 am – 10:30 am	Role of MANAGE in Institutional Capacity of MAIL in the context of India-Afghanistan collaboration	:	Dr. V.P. Sharma, Director, MANAGE Mr. Prit Pal Singh, Second Secretary, Indian Embassy, Kabul
10:30 am – 10:45 am	Introduction to USAID-funded Feed the Future India Triangular Training	:	Dr Attaluri Srinivasacharyulu, MANAGE
	Tea Break		
11:00 am – 12:00 pm	Kandahar Food Zone Project : GIS Products and Databases Developed – followed by Discussion	:	Mr. A.S. Frahmand
12:00 pm – 12:15 pm	Introduction to e-Extension Course	:	Dr. V.P.Sharma, manage
12:15 pm – 12:30 pm	e-Governance, e-Agriculture, e-Extension: Where we stand	:	Mr. Rahim Stanikzai, Director ICT, MAIL
12:30 pm – 12:45 pm	Interaction with MANAGE (Skype session)	:	Smt. V. Usha Rani, DG, MANAGE; Dr. P.Chandra Sekhara and Dr Uma Rani, Directors, MANAGE.
12.45 pm – 2:00 pm	Lunch		
Agricultural Extension and NeGP-A			
2:00 pm – 2:30 pm	Icebreaking – Introduction of participants	:	Dr. V.P.Sharma & Dr. Lakshmi Murthy, MANAGE
2.30 pm – 3:30 pm	Pre-Training Test	:	Dr Attaluri Srinivasacharyulu, MANAGE

3.30 pm – 4:30 pm	Digital India initiative – National e-Governance Plan in Agriculture (NeGP-A)	:	Col Ashok Kumar Suri, MoAFW
4:30 pm	Tea Break and Close		

11 October (Tuesday) – Day 2

National e-Agricultural Initiatives in India - Farmers' Portal and mKisan			
10:00 – 11:15 am	Farmers' Portal of India	:	Col Ashok Kumar Suri, MoAFW
11.15 am – 11:30 pm	Tea Break		
11.30 am – 1:00 pm	Farmers ' Portal Demonstration Identification of issues for its implementation in Afghanistan – Questions and Answers	:	Col Ashok Kumar Suri, MoAFW
01.00 pm – 2:00 pm	Lunch		
02.00 pm – 3:30 pm	mKisan – Introduction and Demonstration	:	Col Ashok Kumar Suri, MoAFW
03:30 pm	Close		

12 October (Wednesday) – Day 3

	Home Work and Reading		
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13 October (Thursday) – Day 4

National e-Agricultural Initiatives in India - Kisan (Farmers) Call Center (KCC) and Extension Reforms through ICT Initiatives			
9:00 am – 11:00 am	Extension Reforms through Promoting ICTs – Institutional Linkages and Processes	:	Dr. V.P.Sharma, MANAGE
11.00 am – 11:15 am	Tea Break		
11.15 am – 1:00 pm	Farmers Call Center (KCC) in India : Concept and Services	:	Dr. V.P.Sharma, MANAGE
01.00 pm - 02.00 pm	Lunch		
2:00 pm – 3:30 pm	Group Work on: <ul style="list-style-type: none"> • Extension Reforms • National Farmers' Portal • Farmers' Call Center • SMS Gateway 	:	Dr. V.P.Sharma, MANAGE
3:30 pm – 4:00 pm	Group Presentation		
4:00 pm	Close		

14 October (Friday) – Day 4

	Home Work and Reading		
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15 October (Saturday) – Day 6

National e-Agricultural Initiatives in India – Marketing Information Systems and Reforms : AGMARKNET, eNAM and Private Initiatives			
9:00 – 11:00 am	Mobile Agriculture (mAgriculture) – AgriApps and GreenSIM	:	Dr. V.P.Sharma, MANAGE
11.00 am – 11:15 am	Tea Break		
11.15 am – 1:00 pm	Linking Farmer to Markets - AGMARKNET and eNAM	:	Dr Attaluri Srinivasacharyulu, MANAGE
01.00 pm – 2:00 pm	Lunch		

02.00 pm – 2:30 pm	Market Reforms through ICT: e-Choupal and ReMS	:	Dr Attaluri Srinivasacharyulu, MANAGE
2.30 pm – 2:45 pm	Tea Break		
2.45 pm – 3:15 pm	Group Work on Agricultural Marketing Information System in Afghanistan	:	Dr Attaluri Srinivasacharyulu, MANAGE
3:15 pm – 3:30 pm	Group Work Presentation	:	

16 October (Sunday) – Day 7

Agricultural Knowledge Management : Climate Change Knowledge Advisory AGROPEADIA, MOOCs and MIS			
8:00 am – 10:00 am	Climate Change Knowledge/Advisory to Farmers	:	Dr. V.P.Sharma, MANAGE
10:00 am – 11:00 am	Community Radio in Agriculture	:	Dr. Lakshmi Murthy, MANAGE
11.00 am – 11:15 am	Tea Break		
11.15 am – 1:00 pm Afghanistan Time = 12:15 pm – 2:00 pm	Knowledge Management & Education: <ul style="list-style-type: none"> • AGROPEADIA • Agricultural MOOCs 	:	Prof T.V. Prabhakar IIT-Kanpur, India
1.00 pm – 2:00 pm	Lunch	:	
2.00 pm – 3:00 pm	Task Management System	:	Mr. Baryalay Baz, MAIL, Afghanistan
3.00 pm	Tea Break and Close		

17 October (Monday) – Day 8

Access to Agricultural Information / Knowledge - Social Media in Agriculture and Opening Access to Agricultural Knowledge Resources			
9:00 am – 10:30 am	Harnessing Social Media for Agricultural Development	:	Dr. Lakshmi Murthy, MANAGE
10.30 am – 11:30	Social Media - Platform and Tools for Sharing Agricultural Information	:	
11.30 am – 10:45 am	Tea Break		
11:45 am – 1:00 pm	Hands-on Session on Social Media	:	Dr. Lakshmi Murthy & Dr Attaluri Srinivasacharyulu, MANAGE
01.00 pm	Lunch	:	
02.00 pm – 3:00 pm Afghanistan Time = 11:30 AM 12:30 CEST	Global Trends Agricultural e-Extension (Skype Session)	:	Dr. Ajit Maru, Senior Officer (Knowledge) Global Forum on Agricultural Research (GFAR), Food and Agriculture Organization (FAO), Rome, Italy.
03.00 pm – 3:15 pm	Tea Break		
03.15 pm – 4:30 pm	Hands-on Session on Social Media	:	Dr. Lakshmi Murthy & Dr Attaluri Srinivasacharyulu, MANAGE
04:30 pm	Close		

18 October (Tuesday) – Day 9

e-Agriculture Strategies, Agricultural Knowledge Management and Dissemination through Digital Libraries and Participatory Videos			
09:00 – 10:30 am	Digital Libraries and Repositories for Agricultural Knowledge Management	:	Dr. Lakshmi Murthy, MANAGE
10:30 am – 11:30 am Afghanistan Time = 11:30 am – 12:30 pm India Time	ICTs at Grassroots Level: DIGITAL GREEN (Skype Session)	:	Mr. Aziz, Digital Green, India
11.30 am – 11:45	Tea Break		
11.45 am – 1:00 pm Afghanistan Time = 2:15 pm – 3:30 pm Bangkok Time	e-Agriculture Strategies for the Developing Countries (Skype Session)	:	Mr. Gerard Sylvester Regional Knowledge and Information Management Officer, Food and Agriculture Organization of the United Nations (FAO), Bangkok, Thailand
1:00 pm – 2:00 pm	Lunch	:	
2:00 pm – 2:30 pm	ICT in Agriculture: ICARDA Experiences	:	Dr Srinivas Tavva, ICARDA, Kabul
	Re-cap of Learnings		
2:30 pm – 3:30 pm	Briefing on BACK-AT-WORK-PLAN	:	Dr Attaluri Srinivasacharyulu, MANAGE
3:30 pm	Tea Break and Close	:	

19 October (Wednesday) – Day 10

BACK-AT-WORK-PLANS, Post-Training Test, Feedback and Valedictory			
9:00 am – 10:30 pm	Preparation of BACK-AT-WORK-PLANS	:	Dr. Lakshmi Murthy & Dr Attaluri Srinivasacharyulu, MANAGE
10:30 am – 11:00 am	Presentation of BACK-AT-WORK-PLANS	:	
11.00 am – 11:45 am	Tea Break	:	
11:45 am – 12:45 pm	Post-Training Test	:	Dr Attaluri Srinivasacharyulu, MANAGE
12.45 pm – 2:00 pm	Lunch	:	
2:00 pm – 2:30 pm	Feedback of the Training Program	:	MANAGE and MAIL
2.30 pm – 3:15 pm	Valedictory Awarding Certificates	:	
3:15 pm	Tea Break and Close	:	



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10th–19th October 2016
List of Participants

S/N	Name	Position	Directorate/Department	Mobile #
1	Hamidullah	Extension Manager	Herat DAIL	799101898
2	Abdul Malik	Cereal Crops General Manager	Paktia DAIL	796169971
3	Abdul Shakor	Plant Protection and Quarantine Dept	Konduz DAIL	799012216
4	Asadulah	Extension Manager	Konduz DAIL	796550540
5	Nawidullah	Cooperative Officer	Baghlan DAIL	787342422
6	Abdul Alim	Extension Manager	Badghis DAIL	797808815
7	Esmatullah	IT Officer	Daikundi DAIL	777855547
8	Farhad	IT Officer	Helmand DAIL	704595800
9	Mohebullah	Extension Officer	Kapisa DAIL	770811003
10	Ali Sena Sadiqi	IT Officer	Ghazni DAIL	799009616
11	Mohammad Hanif	IT Officer	Badghis DAIL	799858935
12	Nasrullah	IT Officer	Sar-e Pol DAIL	747982109
13	Mohammad Zaker	Extension Officer	Panjshir DAIL	747406252
14	Qasim Mohammadi	Saffron Specialist	Jawzjan DAIL	791327451
15	Mirwais	IT Officer	Parwan DAIL	700656104
16	Borhanuddin	Extension Manager	Samangan DAIL	776242298
17	Ziaulhaq	Coperative Officer	Paktika DAIL	772357812
18	Tahsinullah	Extension Manager	Khost DAIL	797805384
19	Mohibullah	Extension Manager	Kunar DAIL	774741125
20	Borhanuddin	IT Officer	Nuristan DAIL	792259248
21	Ahmad Jawad	Extension Manager	Logar DAIL	744428671
22	Taj Mohammad	Extension Manager		744281413
23	Zaki	Regional Agronomist	Kunduz DAIL	787807276
24	Enayatullah	Extension Manager	Takhar DAIL	700707525
25	Hesamuddin	IT Officer	Ghor DAIL	778861514
26	Shukrullah	Extension Manager	Baghlan DAIL	707504022
27	Rahimullah	Extension Manager	Wardak DAIL	772103332
28	Nesar Ahmad	IT Manager	Farah DAIL	794589228
29	Ehsanullah	Extension Manager	Badakhshan DAIL	797316223
30	Hizbullah	Extension Manager	Kandahar DAIL	707215096
31	Mohammad Jawad	Extension Manager	Logar DAIL (CARD-F)	779484779
32	Mujeebullah	Extension Manager	Nangarhar DAIL	780072924
33	Masoom	Extension Manager	Laghman DAIL	783836342
34	Abdul Samad	MIS Manager	Faryab DAIL	776961759

35	Ms. Habiba	IT Manager	Nimroz DAIL	793705997
36	Ms. Hameeda	Social Mobilizer	Nimroz DAIL	799888788
37	Ms. Kerishma Faizi	Communication Manager	Extension General Directorate	N/A
38	Rokhan Zalmy	Extension Liaison Officer	Extension General Directorate	700635023
39	Ms. Sharifa Stanizkai	Cucurbit Manager	Extension General Directorate	700408622
40	Ms. Tahera Sayed	Agr Demonstration Plots Manager	Extension General Directorate	700039720
41	Ms. Nasrin Rostam	Floriculture Manager	Horticulture Directorate	700032890
42	Abdul Rashid	Irrigation Statistic Manag	Statistics Directorate	700617368
43	Mohammad Khalis	Extension Agent	CARD-F	788657931
44	Abdul Mattin	Prog coordination Manag	Extension General Directorate	799125334
45	Abdul Qader	Intern	Extension General Directorate	780346456
46	Nad Ali Sadiqi	Expansion Network Manag	IT Directorate	799313648
47	Abdul Wali Noorzai	Alternative Livelihood Program Coordinator	Ministry of Counter Narcotics	785989717
48	Nasrullah Babak	Head of M&E, Alternative Livelihood pro	Ministry of Counter Narcotics	700072059
49	Habibu Rahman	ICT Officer	IT Directorate	773626160
50	Nasratullah Raheeq	Head of Demonstration Unit	Extension General Directorate	792444290
51	Waheedullah Sardar	GIS Officer	IRD -KFZ	792442290
52	Abdul Hameed Karimi	Crop Manager	Kabul DAIL	700248405
53	Mahfooz Noori	IT Manager	Animal Health Directorate	786176778
54	Nabil Ahmad	IT Officer	Horticulture Directorate	786924141
55	Wasiqullah	Intern	Extension General Directorate	706233183
56	Mohammad Samim	Intern	Extension General Directorate	747209802
57	Arian Karimi	Intern	Extension General Directorate	782531093
58	Sulaiman	ICT Officer	IT Directorate	789403498
59	Ms. Spozhmai (V.M.D.)	Livestock M&E Officer	CLAP Project	782930071
60	Ms. Zakia	Livestock M&E Officer	CLAP Project	792412299
61	Dr. Fazluddin Fazl	Kabul Univ., Prof. of Agr. Extension & Marketing	Kabul University	700289462
62	Prof. Farid Ahmad Sherzai	Kabul Univ., Assoc. Prof. of Seed and Biotechnology	Kabul University	700067978
63	Prof. Shah Mahmood Baray	Kandahar Univ., Dean of Faculty of Agriculture	Kandahar University	700300866
64	Dr. Najib Malik	Senior Policy Advisor	Extension General Directorate	700172696
65	Hamdullah Hamdard	General Director of Extension	Extension General Directorate	785401000
66	Mirwais Khogyani	Extension Advisor	Extension General Directorate	799269683
67	Mohammad Yasir Nassery	Communication Coordinator	Extension General Directorate	797569569
68	Hashmatullah Habibi	Monitoring and Evaluation Coordinator	Extension General Directorate	792411131
69	Abdul Hasib Habib	ICT Coordinator	Extension General Directorate	799886664
70	Munir Ahmad Siddiqi	Extension Change Management Specialist	Extension General Directorate	771111928
71	Rahim Stanikzai	ICT Directorate - MAIL	ICT Director	744229555
	Note: The Interns enrolled to be recruited as FCC Operators later on			

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Pre & Post Training Test Evaluation

Sl. No.	Name of the Participant	Pre Training Test	Post Training Test
1	Hamidullah	5	23
2	Abdul Malik	12	28
3	Abdul Shakor	13	23
4	Asadulah	9	22
5	Nawidullah	15	26
6	Abdul Alim	17	25
7	Esmatullah	21	29
8	Farhad	17	27
9	Mohebullah Sediqi	12	14
10	Ali Sena Sadiqi	15	29
11	Mohammad Hanif	14	24
12	Nasrullah	16	30
13	Mohammad Zaker	17	27
14	Mirwais	18	27
15	Borhanuddin	12	23
16	Ziaulhaq	20	29
17	Tahsinullah	13	23
18	Mohibullah	9	23
19	Borhanuddin	11	27
20	Ahmad Jawad	8	23
21	Taj Mohammad	15	26
22	Zaki	14	21
23	Enayatullah	14	23
24	Hesamuddin	16	28
25	Shukrullah	6	17
26	Rahimullah	12	27
27	Nesar Ahmad Aria	16	31
28	Ehsanullah	9	20
29	Hizbullah	12	25
30	Mujeebullah	20	29
31	Mohammad Masoom	12	30
32	Abdul Samad	3	27
33	Ms. Hameeda	19	18
34	Ms. Karishma Faizi	14	29
35	Ms. Sharifa Stanizkai	14	28
36	Ms. Nasrin Rostam	15	24

37	Abdul Rashid	16	25
38	Mohammad Khalis	17	29
39	Nad Ali Sadiqi	15	23
40	Abdul Wali Noorzai	13	22
41	Habibu Rahman	18	27
42	Abdul Hameed Karimi	16	25
43	Wasiqullah	13	12
44	Mohammad Samim	15	23
45	Arian Karimi	14	25
46	Sulaiman	17	27
47	Abdul Hasib Habib	15	25
	Total	654	1168

Maximum Marks 1880

Marks Obtained

Pre - Training Total 654

Post - Training Total 1168

Average

13.7

24.9

Average percentage

34.25

62.16

Annexure- IV

**Feed The Future India Triangular Training (FTF ITT) Program on
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Session Report

Sl. No.	Session taken by Guest Faculty	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
1	National e-Governance Plan in Agriculture (NeGP-A) - Col Ashok Kumar Suri, MoAF&W	8	9	10	5	7	9	10	8	10	10	10	10	9	9	9	8	7	9	5	7	9	9	8	7	7	9	7	8	9	10	10	9	9	7	9	9	10	7	9	10			
2	Farmers ' Portal Demonstration Identification of issues for its implementation in Afghanistan – Questions and Answers - Col Ashok Kumar Suri, MoAF&W	9	9	10	7	8	9	10	9	10	10	10	9	9	7	9	9	9	8	9	8	10	10	10	10	8	9	9	10	10	10	9	9	9	7	10	8	9	10	8	9			
3	mKisan – Introduction and Demonstration - Col Ashok Kumar Suri, MoAF&W	9	8	10	8	5	8	10	8	10	10	9	10	9	9	10	9	9	8	9	7	5	9	9	9	9	9	6	9	6	10	8	8	9	8	9	10	10	10	8	10			
4	Extension Reforms through Promoting ICTs – Institutional Linkages and Processes - Dr. V.P.Sharma,	8	10	10	8	9	9	10	9	10	10	9	9	9	7	9	9	8	9	10	10	9	7	10	9	6	9	8	8	9	10	8	9	8	9	8	9	8	9	8	10	9	9	
5	Farmers Call Center (KCC) in India : Concept and Services. - Dr. V.P.Sharma, MANAGE	10	9	10	8	6	9	10	9	10	10	10	10	10	10	10	7	10	8	10	8	9	9	9	8	9	9	6	10	9	10	9	9	8	7	10	9	9	8	10	8			
6	Farmers Call Center (KCC) in India : Concept and Services. - Dr. V.P.Sharma, MANAGE	10	10	10	9	9	9	10	9	10	10	10	9	10	9	10	8	10	10	10	10	10	10	10	9	7	9	10	9	8	10	8	9	9	8	10	9	8	8	9	8			
7	Group Work on: Extension Reforms, National Farmers' Portal, Farmers' Call Center - Dr. V.P.Sharma,	10	10	10	7	10	6	10	9	10	10	6	10	10	9	9	9	9	10	10	8	8	9	10	10	6	9	9	9	8	10	8	10	8	10	8	9	10	8	9	8	10	8	
8	Mobile Agriculture (mAgriculture) – AgriApps and GreenSIM - Dr. V.P.Sharma, MANAGE	10	9	10	10	9	9	10	9	10	10	10	10	10	6	9	9	10	9	10	9	8	8	10	8	8	9	8	8	9	10	8	10	9	6	10	10	9	9	7	8			
9	Linking Farmer to Markets through ICTs - AGMARKNET and eNAM -Dr. Attaluri Srinivasacharyulu, MANAGE	10	9	10	8	8	8	8	7	10	10	10	8	10	8	10	9	10	8	10	6	9	9	10	10	8	10	5	9	9	10	10	10	9	9	9	10	10	10	9	9	10	10	8
10	Market Reforms through ICT: e-Choupal and ReMS -Dr. Attaluri Srinivasacharyulu, MANAGE	10	7	10	8	9	9	9	8	10	10	9	9	10	10	9	9	10	8	10	9	9	10	9	10	8	8	8	9	8	10	9	10	9	8	9	10	10	10	10	9	9		
11	Group Work on Agricultural Marketing Information System in Afghanistan -Dr. Attaluri Srinivasacharyulu, MANAGE	7	9	10	6	10	7	9	8	10	10	9	10	10	9	8	8	8	9	10	8	9	9	10	10	10	7	9	7	8	10	9	10	8	9	9	9	10	9	9	10	9	8	8
12	Climate Change Knowledge/Advisory to Farmers - Dr. V.P.Sharma,	10	7	10	9	10	9	10	9	10	10	10	10	9	9	9	9	9	8	5	10	8	10	10	8	8	8	9	8	9	10	8	9	9	9	9	9	10	8	8	9	9		
13	Community Radio in Agriculture - Dr. Lakshmi Murthy, MANAGE	9	10	9	10	10	10	10	10	10	10	10	9	9	7	10	9	9	9	10	9	10	8	9	10	10	8	9	8	7	10	9	8	9	9	8	9	10	8	8	9			
14	Agricultural MOOCs (Skype Session) - Prof T.V. Prabhakar, IIT-Kanpur, India	8	10	10	10	5	9	10	9	10	10	9	10	10	7	10	9	8	9	5	7	9	9	10	8	8	9	7	9	10	8	8	9	10	8	8	9	9	8	9	8			

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15	Harnessing Social Media for Agricultural Development - Dr. Lakshmi Murthy, MANAGE	9	9	10	10	10	9	10	10	10	10	10	8	10	10	10	9	8	8	5	10	10	10	10	9	9	8	8	9	10	10	9	10	10	6	8	10	9	9	8	8	
16	Social Media - Platform and Tools for Sharing Agricultural Information - Dr. Lakshmi Murthy, MANAGE	9	10	10	6	9	8	10	10	10	10	9	9	10	10	9	9	9	10	10	8	10	9	9	8	7	7	8	8	9	10	8	9	9	9	8	10	9	8	9	9	
17	Hands-on Session on Social Media Tools -Dr. Lakshmi Murthy & Dr. Attaluri Srinivasacharyulu, MANAGE	9	10	9	2	7	9	8	10	10	10	8	8	8	10	10	9	10	10	10	8	9	8	9	9	8	7	7	7	7	10	8	10	9	7	9	10	10	9	8	7	
18	Global Trends Agricultural e-Extension (Skype Session) - Dr. Ajit Maru, Senior Officer (Knowledge) Global Forum on Agricultural Research (GFAR), Food and Agriculture Organization (FAO), Rome, Italy.	7	10	9	10	10	8	9	8	10	10	9	10	10	10	9	9	7	10	5	10	8	7	10	7	9	7	8	9	9	9	8	8	9	9	8	10	9	8	10	8	
19	Group Work on Social Media Tools □ Use of Social Media to improve: Agri. Research, • Agri. Extension, • Agri. Education • Agri. Marketing, • Information to Farmer, SWOT Analysis. - Dr. Lakshmi Murthy & - Dr Attaluri Srinivasacharyulu, MANAGE	5	10	10	7	10	9	10	10	10	10	8	10	8	9	10	8	6	8	10	10	10	7	10	10	7	7	9	9	10	10	9	9	9	8	6	9	10	9	10	10	
20	Digital Libraries and Repositories for Agricultural Knowledge Management - Dr. Lakshmi Murthy, MANAGE	8	10	10	8	10	8	10	10	10	10	10	10	10	10	7	9	9	10	8	10	9	9	8	10	9	10	8	9	7	7	10	9	10	10	6	8	9	9	8	8	10
21	ICTs at Grassroots Level: DIGITAL GREEN (Skype Session) - Mr. A. Gulzar, Digital Green, Thane, Maharashtra, India	9	10	10	7	10	7	10	10	10	10	10	10	10	10	9	9	6	9	5	10	9	9	10	9	9	8	8	8	9	9	8	8	8	6	7	9	10	9	8	9	
22	e-Agriculture Strategies for the Developing Countries (Skype Session) - Mr. Gerard Sylvester, Regional Knwd & Information Mngt. Officer (FAO-UN), Bangkok, Thailand	9	10	10	9	9	7	10	10	10	10	9	9	10	9	10	10	7	9	5	8	10	8	8	8	8	8	8	8	8	10	7	9	9	5	9	10	8	9	9	9	
23	ICT in Agriculture: ICARDA Experiences - Dr. Srinivas Tavva, ICARDA, Kabul	9	10	10	10	8	10	10	9	10	10	9	10	10	10	9	7	7	8	5	6	9	9	9	8	7	6	8	9	9	10	7	8	8	7	8	10	9	9	7	9	
24	Preparation of BACK-AT-WORK-PLANS - Dr Attaluri Srinivasacharyulu, MANAGE	10	10	10	10	9	9	10	10	10	10	8	10	9	7	9	7	10	9	10	9	10	10	10	10	10	8	9	8	10	10	10	10	9	8	10	9	10	10	9	10	
25	Presentation of BACK-AT-WORK-PLANS - Dr. Lakshmi Murthy & Dr. Attaluri Srinivasacharyulu, MANAGE	10	10	10	8	8	9	10	10	10	10	9	10	9	9	9	8	10	8	10	8	9	10	10	10	10	8	8	6	9	10	10	10	9	8	9	9	9	10	8	10	
II	Achievement of the Programme Objectives	10	9	9	10	10	8	5	9	10	10	8	9	9	9	10	8	7	8	10	8	8	9	9	9	9	7	9	7	9	10	8	9	9	7	10	9	9	6	7	10	
III	Lodging Facility	8	8	8	10	8	8	3	9	10	8	8	8	9	10	10	8	8	8	10	7	7	7	9	9	9	7	7	9	10	10	6	10	9	7	9	9	8	6	6	10	
IV	Boarding Facility / Food Arrangement	7	8	9	10	9	9	8	5	10	9	8	10	9	10	10	9	7	9	10	8	5	9	10	10	10	6	7	9	8	10	8	10	9	9	9	9	8	6	8	10	

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V	Transport Facility	7	8	9	10	9	1	7	6	10	8	8	7	8	9	10	9	7	8	10	5	7	4	10	4	9	1	9	5	9	10	10	9	10	8	7	9	10	5	3	10	
VI	Give your overall impression about the effectiveness of the program	9	9	9	10	8	9	10	5	10	9	7	9	7	9	9	9	8	9	10	9	9	8	9	9	9	6	9	7	8	10	9	10	9	9	9	9	9	8	5	9	10

41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	Total	Percentage
10	8	10	6	8	8	10	8	5	10	9	9	8	8	8	8	9	10	9	9	511	8.52
10	7	10	9	8	9	9	9	5	10	8	9	8	10	7	9	9	10	9	9	536	8.93
10	9	10	8	9	8	8	9	7	10	9	9	8	9	9	8	9	10	8	9	522	8.70
10	8	10	10	10	10	9	8	4	10	10	9	9	10	8	9	9	10	8	9	534	8.90
10	9	10	10	8	7	10	8	8	10	10	10	9	9	10	10	10	10	8	10	545	9.08
10	8	10	9	9	10	10	9	8	10	10	10	9	10	10	10	10	10	8	10	560	9.33
10	9	10	9	8	9	10	10	9	10	10	10	9	6	9	9	9	10	6	9	539	8.98
10	8	10	10	8	8	10	9	6	10	9	10	8	10	10	10	10	10	10	10	546	9.10
10	10	10	9	9	9	8	9	9	10	10	10	9	10	10	10	10	10	10	10	551	9.18
10	9	10	10	7	9	8	10	10	10	10	10	9	10	10	10	10	10	7	10	554	9.23
10	10	10	8	9	8	8	9	9	10	9	10	8	7	10	10	10	10	10	10	538	8.97
10	9	10	9	8	9	10	9	8	10	9	9	8	10	10	10	10	10	9	10	545	9.08
10		10	9	10	10	9	8	10	10	9	10	8	10	10	10	10	10	9	10	547	9.12
10	9	10	8	8	8	9	8	9	10	9	9	9	8	10	9	9	10	8	10	528	8.80

10	8	10	10	9	9	10	9	9	10	8	10	9	6	10	10	10	10	9	10	551	9.18
10	8	10	10	9	8	9	9	9	10	9	10	8	10	10	10	10	10	9	10	546	9.10
10	8	10	9	8	9	10	10	9	10	9	10	9	10	10	10	9	10	9	10	532	8.87
10	7	10	8	9	9	9	10	8	10	9	10	8	10	10	10	9	10	9	10	535	8.92
10	8	10	9	10	10	10	10	9	10	9	8	8	10	9	10	9	10	9	10	544	9.07
10	9	10	9	8	8	8	10	10	10	9	10	9	10	10	10	9	10	9	10	548	9.13
10	9	10	10	8	9	7	9	9	10	9	10	9	5	9	10	10	10	9	10	533	8.88
10	9	10	10	9	9	8	9	9	10	9	10	9	8	9	10	9	10	9	10	534	8.90
10	8	10	9	9	8	7	9	9	10	9	9	9	10	9	10	9	10	9	10	526	8.77
10	9	10	8	10	10	10	10	9	10	9	9	9	10	10	10	10	10	10	10	569	9.48
10	8	10	9	10	10	8	9	9	10	9	9	9	10	10	10	10	10	10	10	557	9.28
10	9	10	9	8	9	9	9	8	10	9	9	9	9	9	10	8	10	10	9	529	8.82
10	8	10	10	9	10	9	10	9	10	9	7	9	9	8	9	8	10	10	7	511	8.52
10	9	10	9	10	9	9	10	8	10	10	7	9	5	9	7	8	10	10	7	520	8.67

10	9	10	10	10	10	10	10	10	8	10	8	9	9	6	8	6	9	10	10	6	483	8.05
10	10	10	10	10	10	10	9	9	10	10	9	9	9	9	9	9	9	10	10	9	536	8.93