Innovation of Agro-Technique Extension System by Using 3G Information Platform

Wensheng Wang



Content





Background

The fundamental way of ensuring national food security for a large population with insufficient arable land is to transform technology into real productivity and the key issue is to innovate agro-technique extension system. Now in China ,there is an agro-technique extension team with over 700,000 people covering various fields of agriculture. They have brought science and technology to farmers and have made outstanding contributions to developing modern agriculture, enriching farmers and building a new countryside. However, It shows that the public service capacity for agro-technique extension is still weak.



Background

The emergence of Internet of things, cloud computing and 3G represents the revolution in information technology era. The new generation of IT has the technical advantages of ubiquitous, wireless and broadband transmission. By these new technologies, modes of servicing, managing, training and information collecting in agrotechnique extension can be innovated.



Farmers need to get information and solve problems in their farmland.

Farmers need "face to face, hand by hand, local speech" demonstration by technicians or their neighbors.



Focus

"Last Mile" of Agricultural Knowledge Translation/Tech Transfer

Agro-Technique Extension Worker





Problems

Firstly, the means and methods of agro-technique extension need urgent innovation to change the traditional model of "Two Legs and One Mouth".



Problems

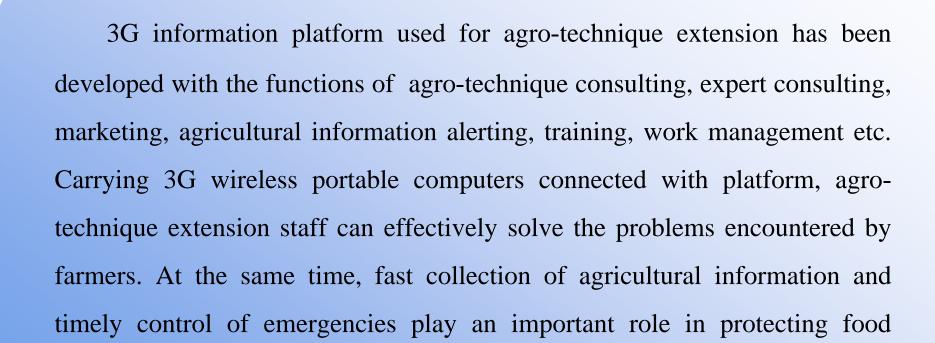
Secondly, the methods of managing agro-technique extension need improvement to optimize the performance evaluation of staffs in agro-technique extension.



Problems

Thirdly, the quality and capacity of staffs require immediate improvement to update their unitary and stale knowledge.

2.Project Objective



security.

3. Project Contents



3G Wireless Internet Access Portable Computers and Printers

3. Project Contents



3G Mobile Phone



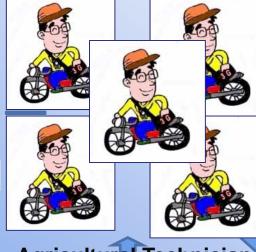


3. Project Contents

Information Acquisition and Supporting System of Internet of Things in Agricultural Production



3G Terminal



Agricultural Technician







Expert



Information Platform (User Interface)



4.Obtained Effect



are significantly improved

Using information technology platforms and mobile terminals, agrotechnique extension staff may deliver vast, professional and individulized, agricultural information to farmers. Managers can accurately dynamically manage and scientifically evaluate the work of staff members by daily service recorded by GPS positioning in information platform and field work log written by staff members. This method greatly improves the overall efficiency and level of the agro-technique service.

4.Obtained Effect



enhanced

By making full use of the rich and applicable multimedia teaching materials for agricultural production, online classrooms and videos, agrotechnique extension staff can not only self-study the latest agricultural knowledge and skills, but also video communicate with experts or other staff members faceto-face. Thus their capacities and qualities are significantly enhanced.

4.Obtained Effect



Third, functions of agro-technique extension are expanded

The information platform provides efficient means of information collection. Using the networked textension staffs, managers can quickly obtain information about meteorological disasters, pests and diseases, animal epidemics, market information. Moreover, the information platform makes a linkage between agricultural research and agro-technique extension.

5. Application Demonstration



Pilot demonstrations in Daxing, Miyun county in Beijing, Xinghua, Jiangsu, Luohe ,Henan and Turpan, Xinjiang

5.Application Demonstration



Pilot demonstrations in Daxing, Beijing, Xinghua, Jiangsu, Luohe, Henan and Turpan, Xinjiang

5.Application Demonstration



5. Application Demonstration



Printing Diagnosis Prescription Everywhere at Any Moment

5.Application Demonstration



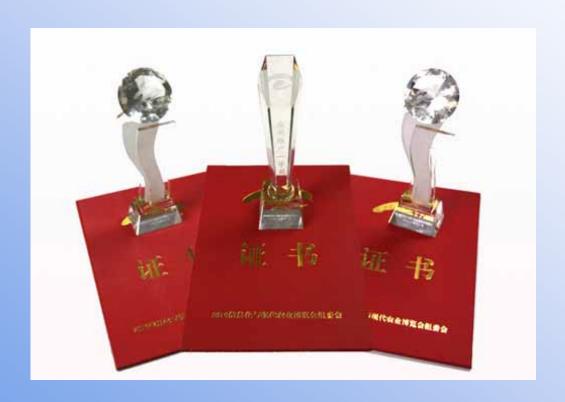


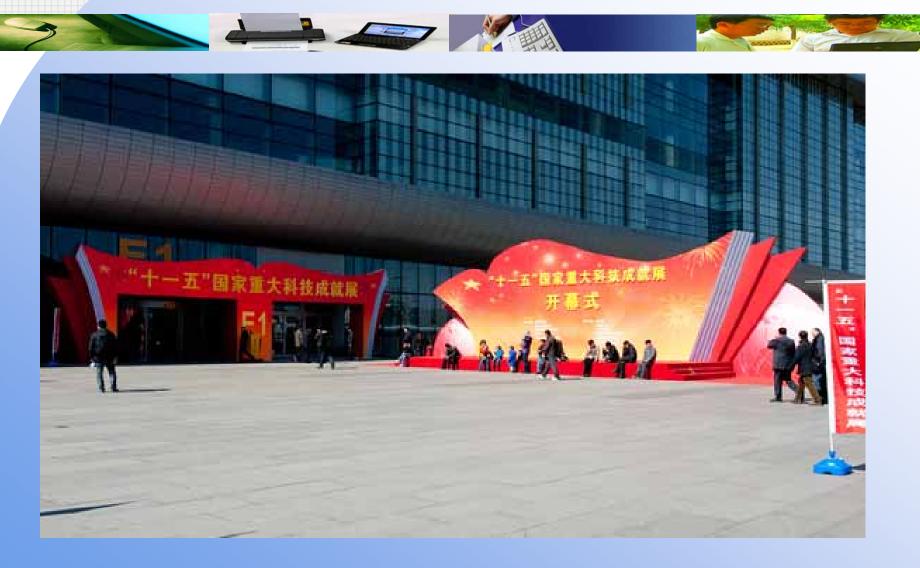
The 1st Exposition of Information Technology and Modern Agriculture (November 2010)



The 1st Exposition of Information Technology and Modern Agriculture (November 2010)







11th FPY National Major S&T Achievements Exhibition



11th FPY National Major S&T Achievements Exhibition



11th FPY National Major S&T Achievements Exhibition



11th FPY National Major S&T Achievements Exhibition



http://sannong.cntv.cn/program/kejiyuan/20110318/105860.shtml

Thank You!

