

Reaching the Unreached

ICT based e-Agricultural Extension for Enhanced Technology and Information Delivery





BIHAR AGRICULTURAL UNIVERSITY, SABOUR

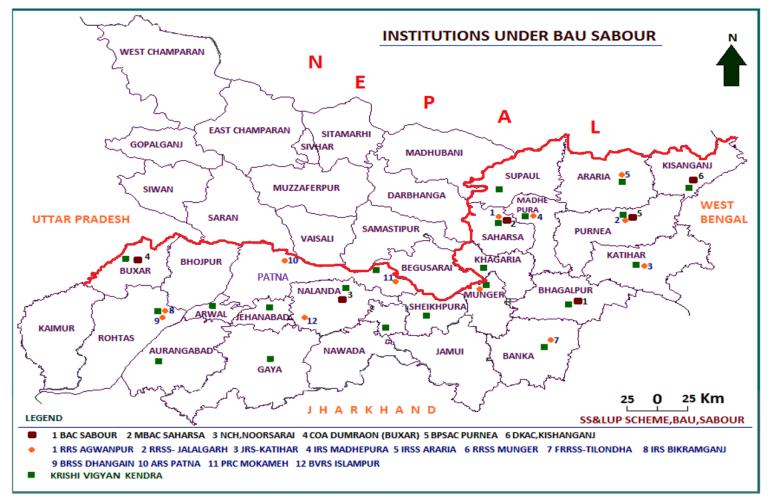
An ISO 9001:2015 certified organization



- Bihar Agricultural College established on 17th August, 1908
 - One of the first 5 Agricultural colleges established in India
- BAU, Sabour was carved out from erstwhile RAU, Pusa on 5th August, 2010 at Sabour, Bhagalpur



TERRITORIAL JURISDICTION AND MANDATES



The University has

- 6 Colleges
- 12 Research Stations
- 21 KVKs

MANDATES of the University

- Education
- Research
- Extension
- Training

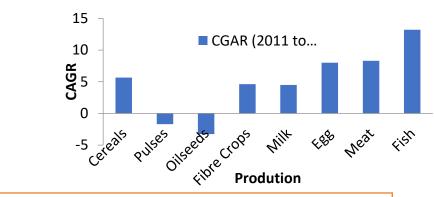
No. of Districts	: 21/38
Geographical Area	: 51%
Population	:42%



THE CONCERN

Agriculture in Bihar

- Geographical Area: 9.41 million hectares
- Population: 103.8 million
- Agriculture employs about 3/4th of the workforce and contributes
 >25 per cent of GDP of the state
- >91 % of operational land holding are marginal
- Unable reap the benefits of green revolution
- About 88 per cent of poor are living in the rural area



Slow Rate of Technology Dissemination

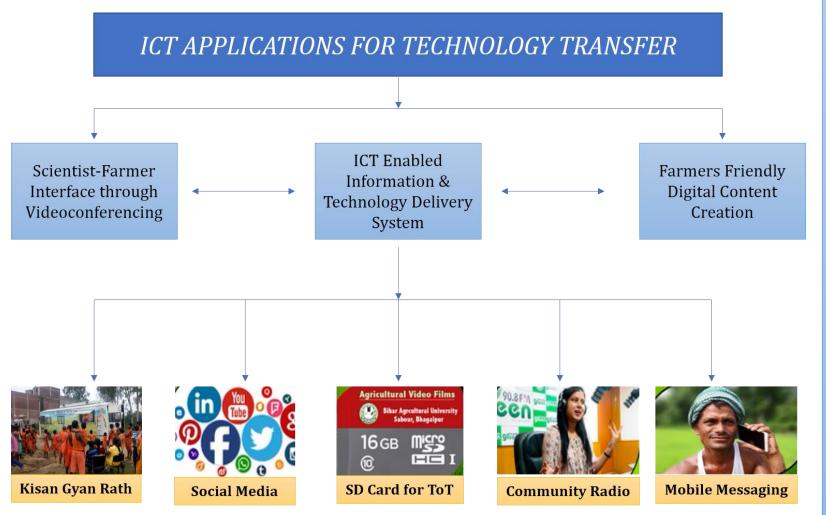
- Low extension personnel to Farmer ratio
- Lack of convergence between scientist and filed extensionists
- Lack of scientist-farmer interface
- Low Rate of Technology Retention

Challenge

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- Enable farmers to take appropriate farm decisions
- Right Information at Right Time

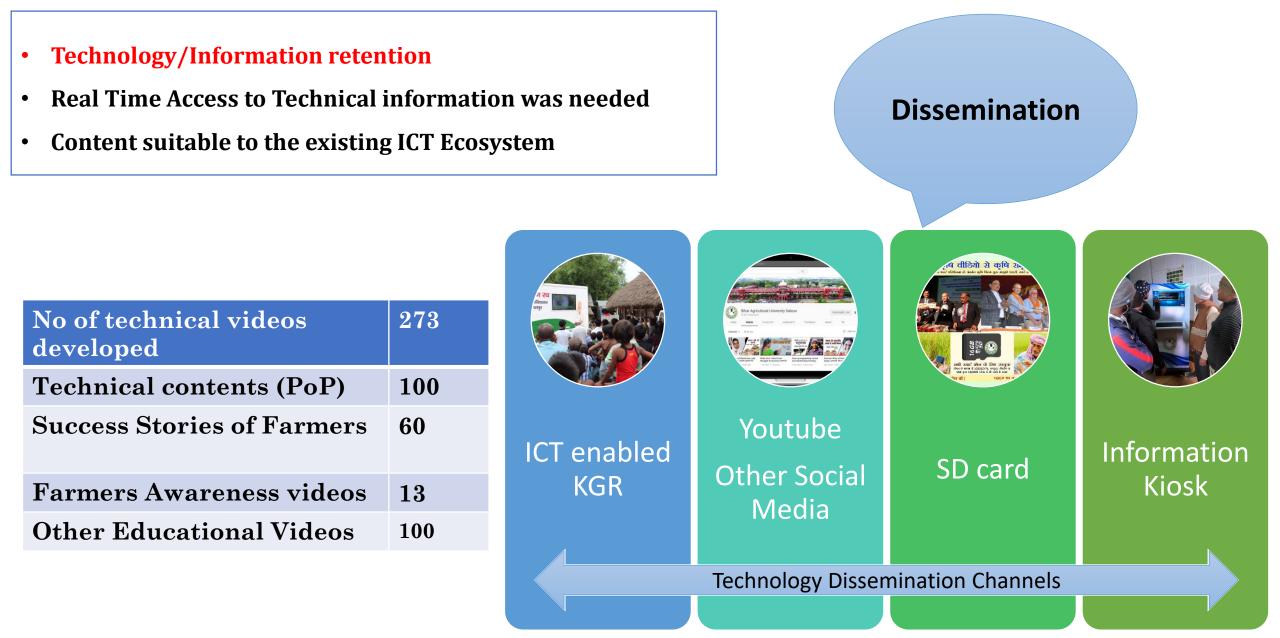
The Strategy : ICT based e-Extension Module



Issues to be addressed

- Bring convergence between scientists-extension functionaries-farmers
- Reach maximum farmers in minimum time
- Provide technically sound information at *right time*
- To increase *technology and information retention per cent*
- Best Utilization developing ICT ecosystem

Digital Storytelling: Content creation to Dissemination





Technology Dissemination Through Youtube

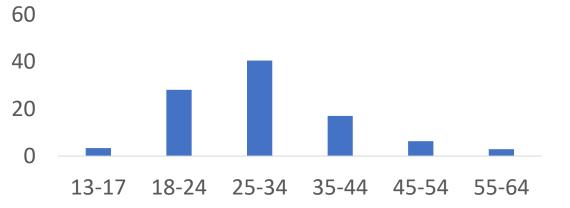
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- No. of Youtube Subscribers : 2,34,000 •
- No. of Views :>2.25 Crore
- Device used
- Country

- - : Mobile (98 %)
 - : India (87%)

Youtube Channel : <u>https://www.youtube.com/bausabour</u>

Age pattern of viewers





Videos through SD cards: An approach to tackle internet issues

- Offline
- Cost effective
- Reaching interior areas



सभी स्मार्ट फोन के लिए उपयुक्त डोंगल के माध्यम से LCD/LED TV, कंप्यूटर, लैपटॉप या USB युक्त CD/DVD प्लेयर से भी चलने में सक्षम



Knowledge at Farmers Doorsteps "KISSAN GYAN RATH"

- > The *Kisan Gyan Rath* is a Mobile extension advisory system
- University has 2 ICT enabled KGR
- Fitted with a mini Soil Testing Lab
- > An LED Screen for display of technical videos (Indoor & Outdoor)
- It acts as campaign vehicle for technology transfer



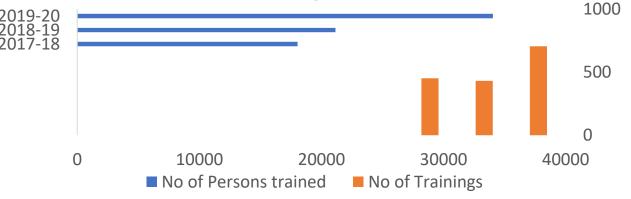




Real time Farmers and Scientists Interface : Video Conferencing

- Connected with all 20 KVK's & 6 Colleges
- It provides platform for real-time feedback mechanism
- Trainings through VC are tailor made for each season and district based on real-time feedback
- Four VC based training conducted each day with 4 centers (100 farmers/day)
- Demonstrations, outdoor broadcasting, crop health Diagnostics are regular part of the VC-Programme
- Farmers interaction with agricultural department for better convergence
- Outdoor Broadcasting for live demo (Mobile Signal Aggregator)

Figure 2. Training imparted to farmers through videoconferencing at BAU Sabour



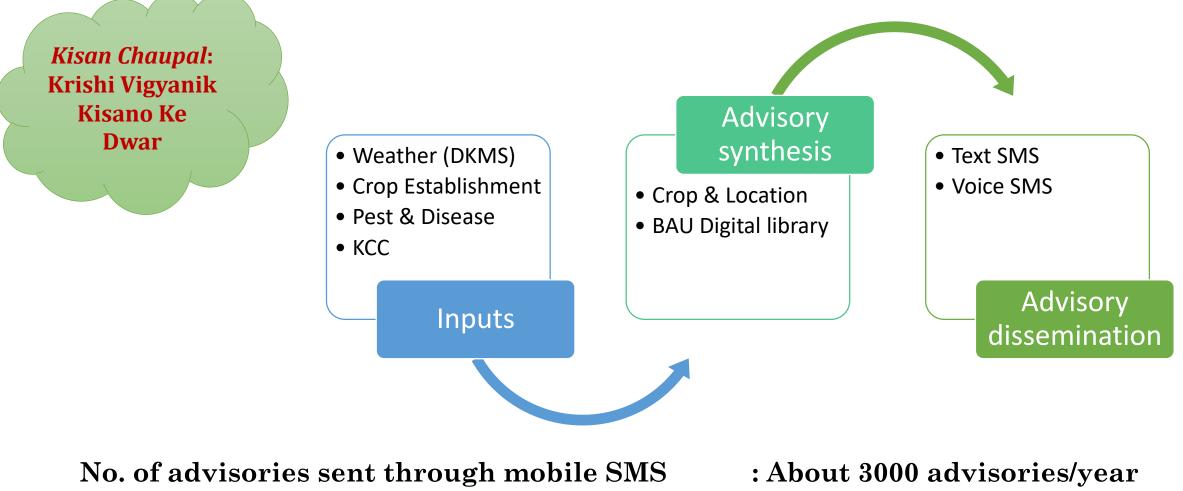
No of trainings conducted through Video-Conferencing (VC):**2850** No. of Farmers/Extension Personnel Trained through VC: **11152**



About 15% per cent Increase in No. of farmers Trained during 2019-20



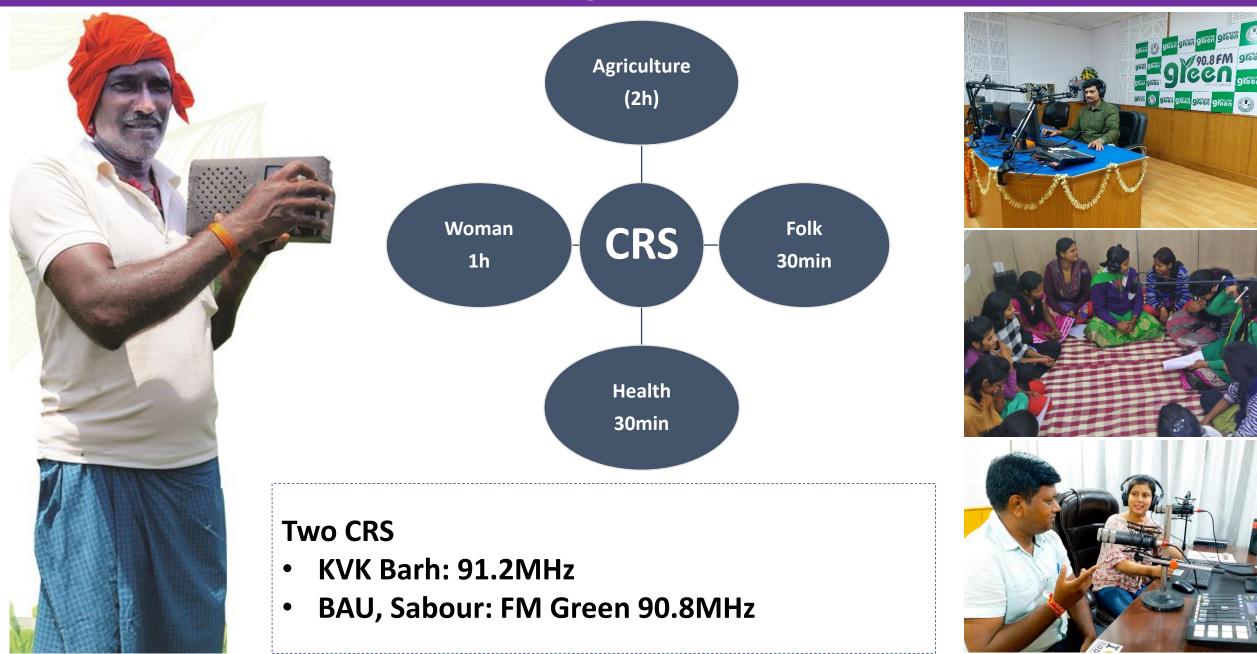
Real time farm Advisories through Mobile Messages



No of Farmers covered under SMS advisories : 6.5lakh

MoU with Reliance Foundation for accelerating the delivery of Farm Advisories

Community Radio Station





Out scaling & Future strategies

Government to Citizen.

	ogy & Info nination N	 Democratization of Agril. Information Increased farm productivity and income Reduced input due adaptation efficient technology Government to Govt. 		
	ent Creation vant & Specific)	Scientist –Farmer- Extension worker interface (VC & OB)	 Increased visibility of University and Govt. Schemes Reduction in cost of capacity building 	
Dissemination Campaign (ICT-KGR)	Social Media (Local language)	Emerging Technology (AI based)	Future Initiatives,AI Based appReal time monitoring through Drones	

