

Presented By

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ITU-FAO-DOA-TRSCL training on Innovation and application Development for e-agriculture

BUSINESS OPTIMIZATION IN AGRICULTURE USING ICTS

KANDY, SRI LANKA





















- Lack of GAP and market information
- Lack of access to technology Digital divide
- Improving earning opportunities for rural farmers
- Lack of access to financial services
- Lack of food traceability
- Food Loss and Wastage
- Urbanization
- Droughts due to Climate change







- One third of the food produced globally gets wasted
- This cost food industry 1 trillion USD in losses annually
- Current world population is 7.5 billion
- Globally 800 million people are undernourished
- World population to reach 8.5 billion by 2030
- Need to feed additional 1 billion people

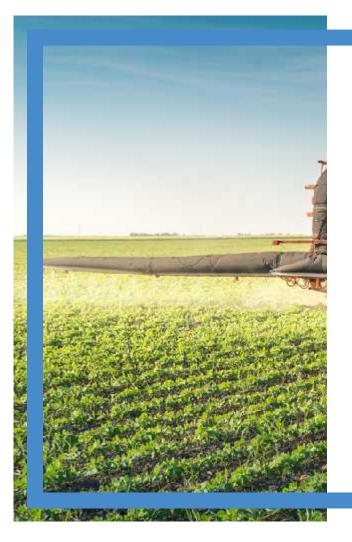












- By 2050 70% of world population will be living in urban areas
- 18.2 % of Sri Lanka population live in Urban areas
- Lack of interest of youth in farming
- Youth migrating to urban areas for better opportunities
- Huge challenge for food logistics







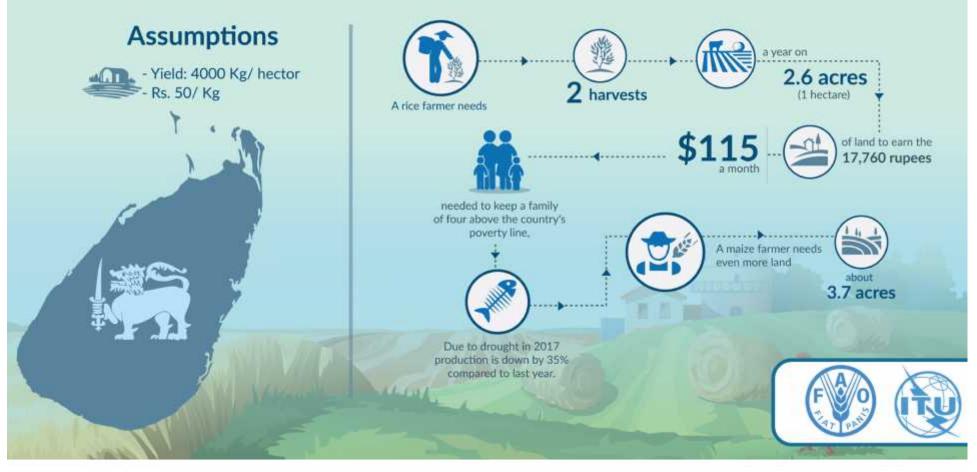
Sri Lanka this year has faced what United Nations officials described as the worst drought in 40 years

()	Climate change-fueled drought drives Sri Lanka's farmers to cities
1	REPORT from Reuters - Thomson Reuters Foundation
	Published on 02 Nov 2017 - View Original
	by Amantha Perera @AmanthaP Thomson Reuters Foundation COLOMBO, Nov 2 (Thomson Reuters Foundation) - When Siri Hettige, a sociology professor at Colombo University conducts surveys of young people across Sri Lanka, he never fails to ask one key question: Does anybody want t become a farmer?
	No, has been the overwhelmingly emphatic answer, he said.







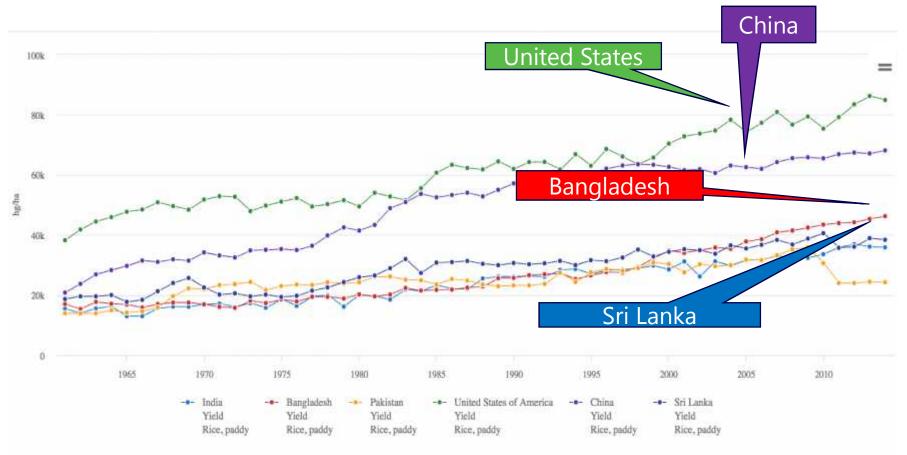








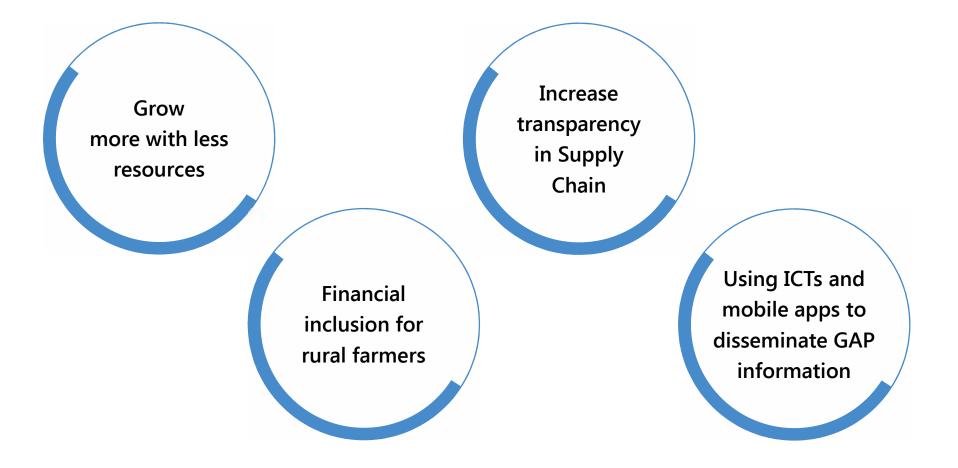
Time series on selected data

















- Grow more with less resources (land and water)
- Climate Smart agriculture
- Micro irrigation
- Vertical farming
- Seeds with Increase yield
- Conservation agriculture







- Bank accounts are relatively high but usage low
- Mobile bank accounts can better server rural



Money in your mobile

farmers

- Mobitel mCash launched in 2013
- The government will encourage innovation in

mobile payments



INCREASE TRANSPARENCY

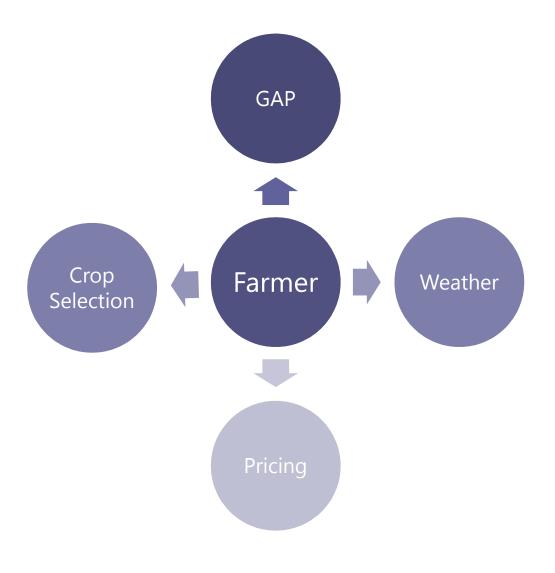




- Increase transparency in Supply chain
- The currently supply chain is inefficient &
 - opaque
- Using DLT will establish trust in Supply chain
- Customer gets all the information by scanning
 - a QR code













- Currently DOA provide GAP information to 2000 farmers
- CAB officers/ Extension workers provide GAP to farmers
- Target is to reach 100,000 farmers
- Increasing CAB officers is not scalable
- Only way is to use ICTs and mobile apps to increase reach







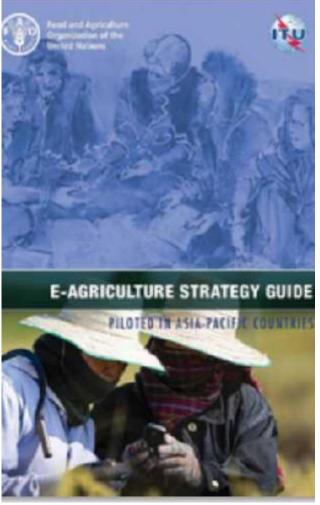




- Lanka Social Ventures
- Rural Enterprise Network
- Offers business incubation facility for rural producers
- Helps them access local an international markets
- Helps them with a common REN brand
- Helps them with better processing and packaging techniques



SRI LANKA eAGRICULTURE STRATEGY



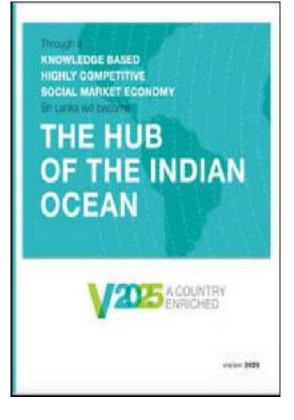
- Jointly developed by ITU and FAO in June
 2016
- Based on eAgriculture strategy guide
- Identifies 97 challenges
- 48 ICT solutions are identified
- 9 strategic recommendations

"Excellence in adopting e-solutions to transform agriculture for national prosperity"





SMART SRI LANKA 2025



- Facilitate efficiency in agricultural markets
- Will help smallholders in tea, rubber exports
- Takes steps to improve disaster management
- Will encourage innovation in mobile

payments



EXPORIS AND ACCESS TO INTERNATIONAL MARKETS



- Need to follow GAP to be export compliant
- Usage of dangerous chemicals and pesticides
- Lack of post-harvest technologies







- Use of ICTs can increase agricultural efficiency
- Need to improve productivity and earnings for small holders
- Farmer needs to have access to financial services







- Create a Website in Wordpress
- 29% of websites on internet are powered by Wordpress
- FREE tool to create website with no knowledge of HTML



Questions? THANK YOU

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