ICT Implementation to Support Agricultural Development in Indonesia

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Challenges in dissemination of agricultural information

- Farmer needs toward agricultural information to support their farming
- Extension worker needs to get information of agricultural extension material.
- Limited numbers of extension worker versus number and location of farmers.
- Limited numbers of extension media

Opportunity

On the other side, development of ICTs in web based or tools (Android, Apps, etc) run rapidly

INTRODUCTION

Result of previous study in 2013 in East Java and Bali:

Result of previous study in 2013 in East Java and Bali (cont'd):

Government Program

Providing Facilitation + training (capacity building)	Providing Facilitation
• Extension workers more independent and confident in utilizing ICT • More knowledgeable	• Extension workers less independent and confident in utilizing ICT • Less knowledgeable

1. ICT can be used as a strategic tool to support agricultural development (dissemination of agricultural innovation, to mitigate and adapt natural disaster ➔ early warning in pest & disease, etc)
2. It requires capacity building in utilizing the ICTs

INTRODUCTION (cont'd)

Lesson learned (ICTs development programs)

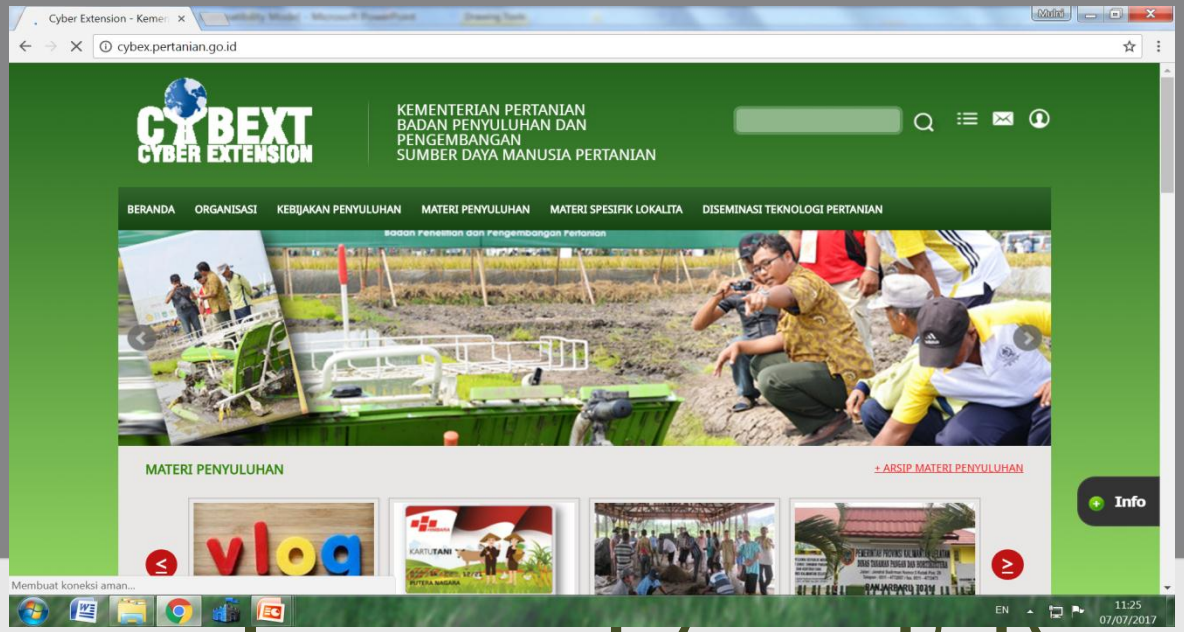
- FEATI (Farmers Empowerment through Agricultural Technological Information) case (2007 – 2013)

1. Provision of ICTs facilities
2. Assessment on training needs
3. Workshops on Development of Innovation, Technology and Participative Dissemination
4. Improvement of staff capabilities (i.e.: audio visual trainings, scientific writing trainings, information via internet)

Lesson learned (cont'd)

- Cyber Extension

1. Provision of ICTs tools and facilities for extension workers
2. Training for extension workers (production of extension material, operating ICTs including how to upload extension materials)



Lesson learned (cont'd)

- Cropping Calendar Information System (IAARD):

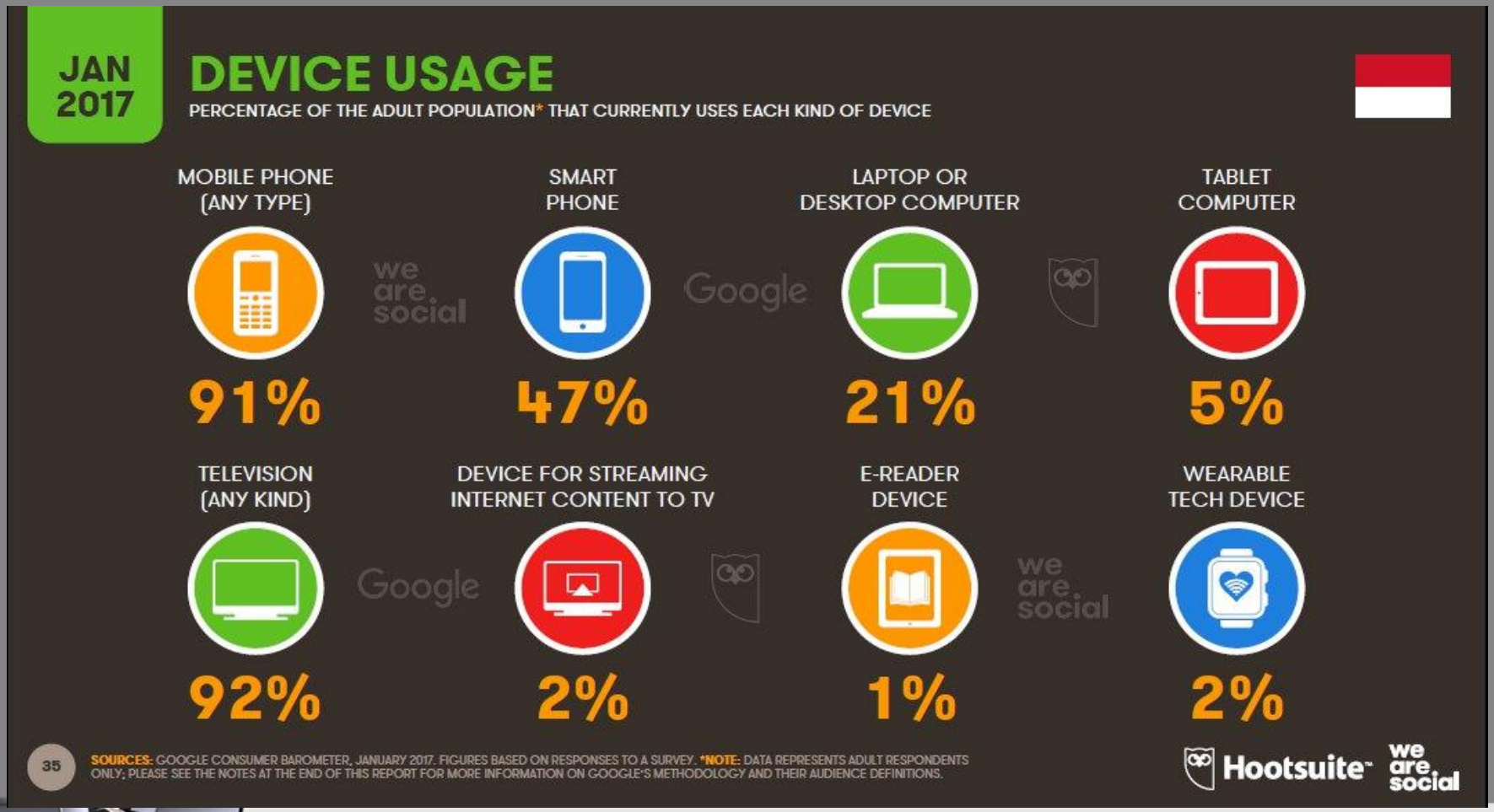
1. To provide recommendation on crop season based on climate conditions for sub district level
2. To provide recommendation on appropriate innovation based on climate conditionsfor sub district level

- Cropping Calendar Information System (IAARD):

1. Information of season and rainfall prediction
2. Information of crop season and plant area potency
3. Information of endemic areas, drought and flood
4. Recommendation of varieties
5. Recommendation of fertilizers
6. Recommendation of tools and machineries
7. Information of feed for livestock from agricultural waste

Lesson learned (cont'd)

- Technological aspect (ICTs tools and technologies)



Room for Improvement

- Capacity building aspect ➔

- intensive training
- Improving capability extension worker in district and sub district level
- Improving skill farmers

Room for Improvement

THANK YOU