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农业农村部规划设计研究院
CHINESE ACADEMY OF AGRICULTURAL ENGINEERING PLANNING & DESIGN
中国农业工程研究设计院

Session 1: The Need for Developing National E-agriculture Strategy

“Papua New Guinea E-Agriculture Strategy”

Ms. Mollina Mercy Kapal – NICTA
Mr. Glen Hayoge – DAL/FPDA



National Information and Communications
Technology Authority



Department of Agriculture
and Livestock

Introduction

Agriculture in PNG

E-Agriculture Strategy Development Roadmap

Capacity Development and Education using ICTs

FARMIS

Access to ICTs

Agriculture in Papua New Guinea

Mainstay of PNG's rural economy and vital driver for economic development

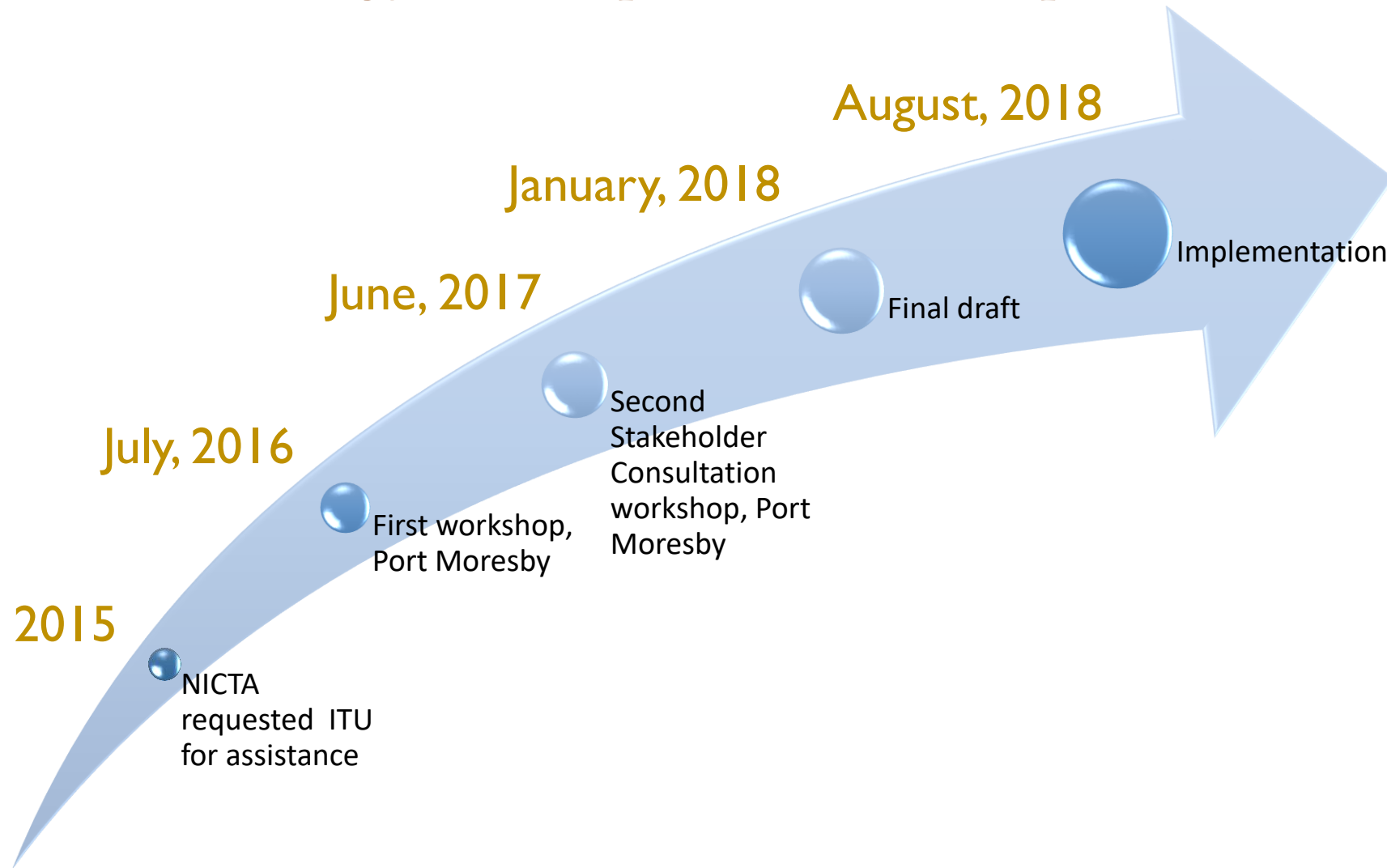
Source of livelihood for more than 80% of the population providing food for subsistence and income generation

19% of GDP
US\$4.3 billion

Exports – US\$1.74 billion
Palm Oil, Coffee, Cocoa, Copra,
Rubber and Tea



e-Agriculture Strategy Development Roadmap



e-Agriculture Strategy Implementation

- Pilot provinces

- Jiwaka – Fruits & Vegetables and Livestock
- East Sepik – Vanilla and Cocoa

- Key Areas

- Capacity Development and Education using ICTs;
- E-market place for Agriculture;
- Online Food Quality, Safety, Traceability and Bio-safety Monitoring



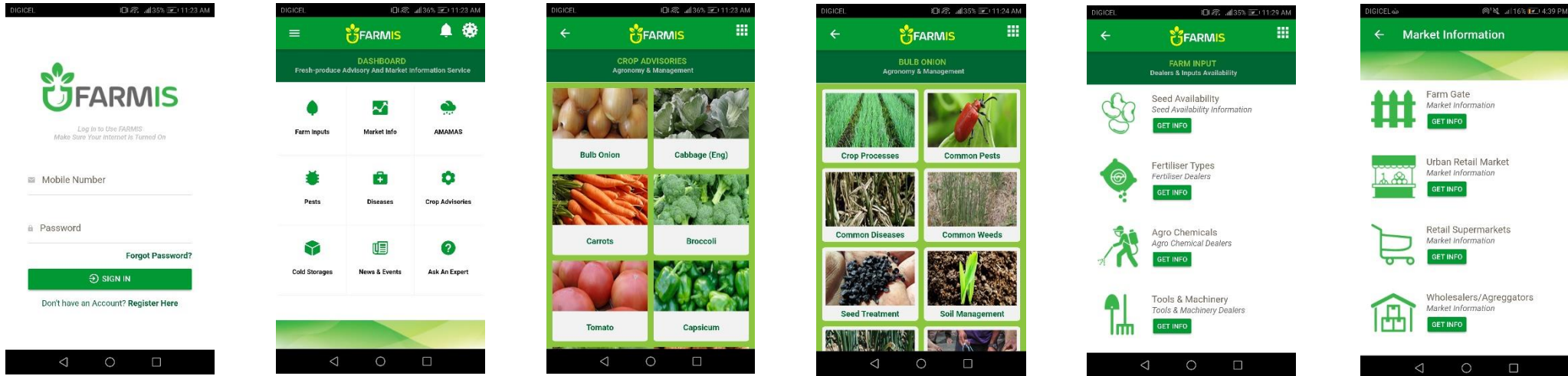
Capacity Development and Education using ICTs

AgriTech Training for Jiwaka Women & Youth in Agriculture



FARMIS (Fresh-produce Advisory Resources & Market Information Service)

FARMIS will be a one-stop-shop informational portal with end-to-end solutions for the fresh produce farming population in Papua New Guinea.



It will provide access to weather forecasts and advisories, market prices, crop advisories, library of best practices, expert advice, latest news and events. A user friendly portal will be available in English and Tok Pisin, with future plans to enable audio for convenience of less educated farmers.

FEATURE: Multi-platform mobile app, USSD menu based information portal

Farm Inputs Availability Information
(Tools, Machinery, Fertilizers, Seed, Agro-Chemicals)

Market Information Service
(Wholesale, Retail, Aggregators, Contract Farming, Import & Export)

AMAMAS (Weather Alert & Advisory)

Pest & Disease (Crop pest and disease management information)

Crops Advisories (Crop Agronomy & Management Practices)

Cold Storage Information

Ask an Expert Information



FARMIS (Fresh-produce Advisory Resources & Market Information Service)

Potential Benefits

- Access to accurate and timely market information, weather and crop advisory services for farmers
- Interactive feature to enable tailored services to farmer's need
- Potential to reduce cost of extension services
- Direct access to end user service providers' contacts to establish real time connections and conversations

Challenges

- Lack of basic digital literacy skills for rural farmers
- Coverage of broadband internet to get up-to-date and reliable agro-advisory content
- Lack of ground weather stations to accurately provide location specific weather advisories for major production sites
- High cost of data
- Outscaling costs and funding support for further development



Access to ICTs

- Mobile Broadband Network Upgrade and Expansion;
- Community and Institutional Broadband Networks;
- ICT Platform for Future Growth Project; and
- Extension of Broadcasting Network Coverage

Through UAS programs, infrastructure and internet connectivity

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thankyou!

