Digital solutions

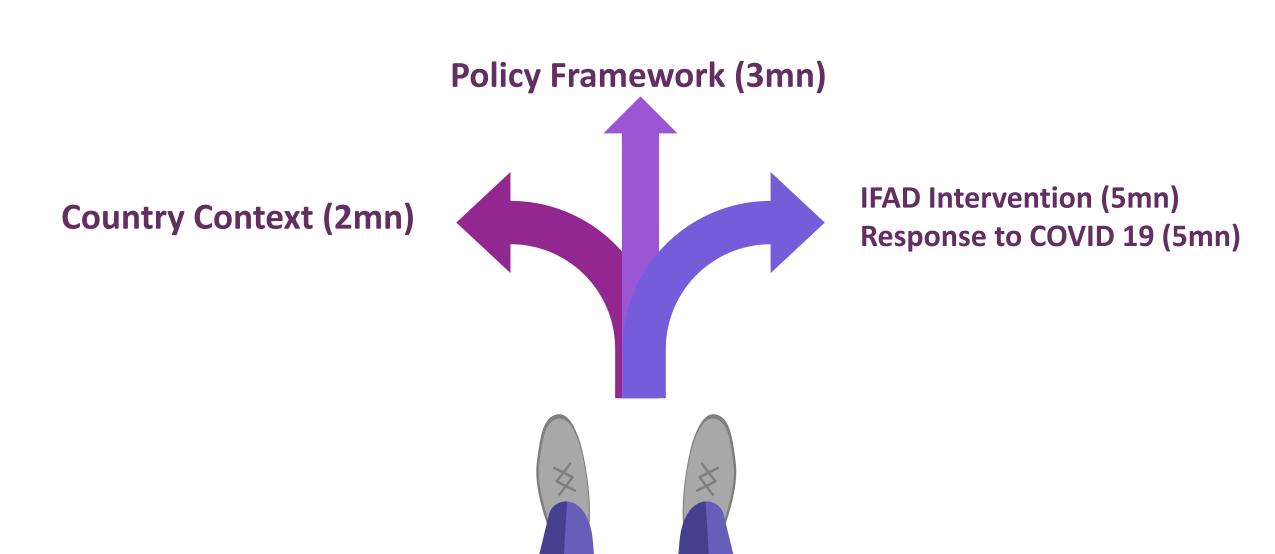
Meng Sakphouseth

IFAD Programme in Cambodia





Structure of the presentation: 15mn



COUNTRY CONTEXT

STATISTICS



15.2M Population



6 (3 share > 90%) Mobile Operators



36
Internet Service
Provider



50,000+KM
Land Fiber
Optical Network

PENETRATION



117%
Mobile
Subscription



0.52%Fixed-line
Subscription



84%
Internet
Subscription



10%
Household
Broadband



SOCIAL MEDIA





1.9M users



720K users



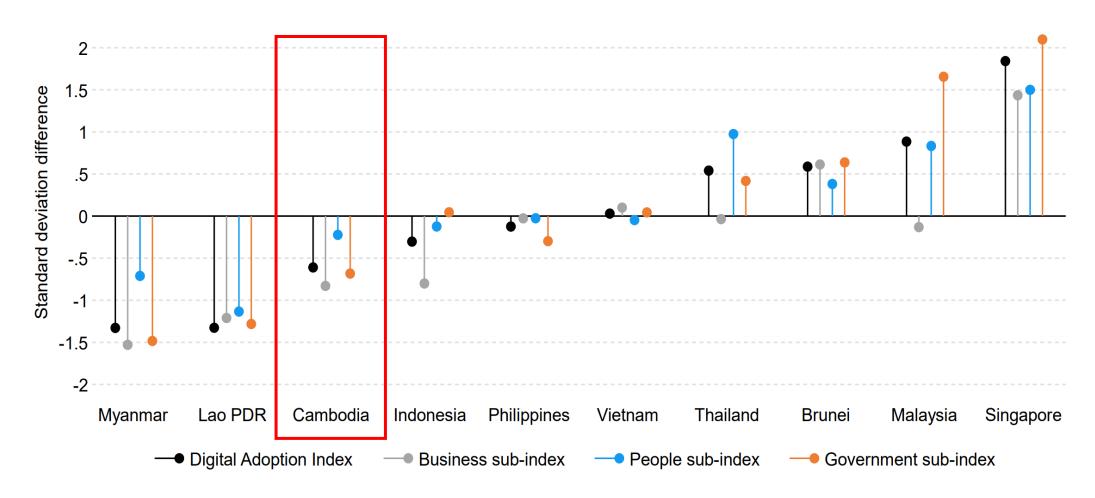




200K users

DIGITAL ADOPTION INDEX

Digital Adoption Index (and sub-indexes), relative to world average



Source: World Bank, 2018

STATUS OF CAMBODIA'S DIGITAL ECONOMY



Domestic e-Commerce

6% \$6.4m



90 % Fly Ticket



10 % **Online Shopping**



Cash on Delivery (cannot capture)

E-COMMERCE





94%

20.9 %

\$106.4m



21.2 % **Electronic Equipment**



7.6 % **Online Shopping**





6.7 % **Social Network**





16.9 % Online Platform

Tourism Companies



26.7 % Others

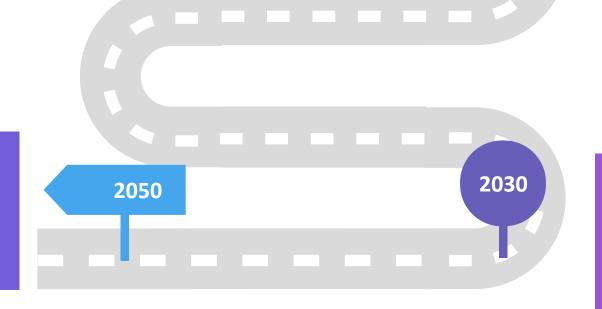
POLICY FRAMEWORK

National Strategic
Development Plan 2019
– 2023 embraces the
Digital Economy



Development of a long-term strategic framework for digital economy.

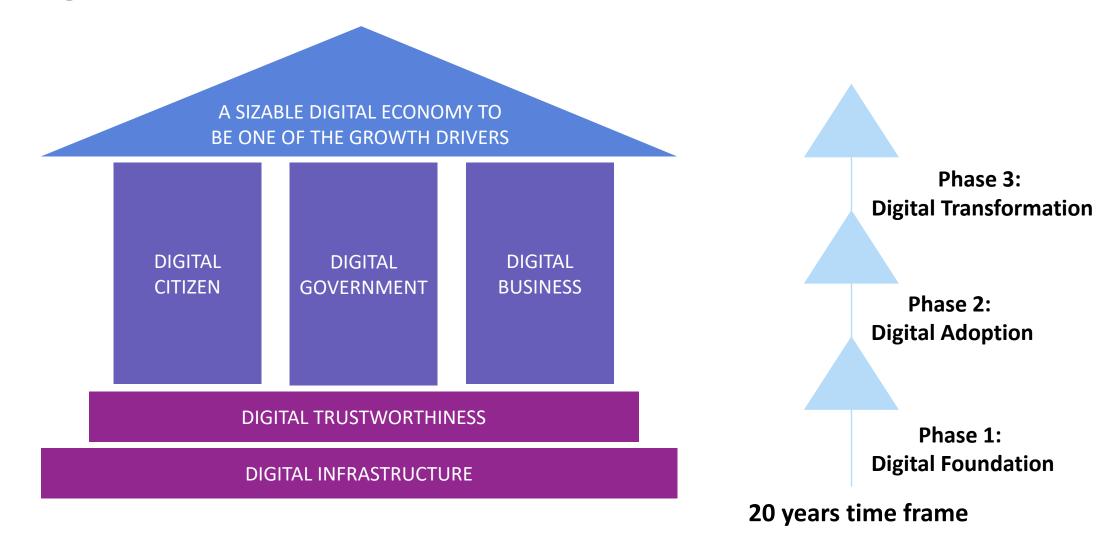
Cambodia Vision 2050
Become a high-income country.



Cambodia Vision 2030

Become an uppermiddle-income country.

Long-term strategic framework for digital economy: Strategic Thrusts



STRATEGIC THRUSTS



DIGITAL INFRASTRUCTURE

- Digital connectivity
- Digital payment infrastructure
- Logistics and lastmile delivery



DIGITAL GOVERNMENT

- Digital key enablers
- Public service digitalization
- Data-driven governance



DIGITAL BUSINESS

- SMEs go digital
- Startup and entrepreneurship ecosystem
- Digital value chain



DIGITAL CITIZEN

- Digital leaders
- Digital talent pools
- Digital citizens



DIGITAL TRUSTWORTHINESS

- Laws and regulations
- Regulators and Institutional capacities
- Raise security awareness

3 Phases: 20 years timescale

Lower Middle-Income Country

PHASE 1: 2021-2025

PHASE 2: 2026-2030

DIGITAL FOUNDATION

Build digital infrastructure and key enablers.

DIGITAL ADOPTION

Government, business and citizens are ready to mass adoption and consumption of digital services.

Upper Middle-Income Country

PHASE 3: 2031-2040

DIGITAL TRANSFORMATION

Transform into digital society and reap the benefit of a digital economy driven by technology and innovation.

High-income country

2050

Industrial Revolution 4.0

KEY TARGETS

PHASE 1: DIGITAL FOUNDATION

HIGH-SPEED INTERNET

Up to 10Mbps covering 100% of downtown and 70% rural areas.



KEY SERVICE ENABLERS

Establish E-ID, PKI, Payment Gateway, Local Internet Exchange, Postal Address, etc.



PUBLIC SERVICE DIGITALIZATION

Digitalize main public services and establish interoperability platform for data sharing.



DIGITAL LAWS AND REGULATIONS

Update and enact essential laws.



ICT SKILLS AND TALENTS

Embed into formal education; build and enlarge talent pool.



PHASE 2: DIGITAL ADOPTION



100%

Main public service digitalization



60%

Digital literacy and Capability



70%

Digital adoption by firms



4%

Employment in ICT workforce



30%

Socio-economic transactions

KEY TARGETS (Cont.)

PHASE 3: DIGITAL TRANSFORMATION

SIZABLE DIGITAL ECONOMY



5-10% OF GDP is visible by digital economy

EMERGING NEW LOCAL BUSINESSES



Innovative service industries, smart factory,

SPECIALIZED-SKILL WORKFORCE



Big data, analytics, AI, IoT, VR, AR, robotics, etc.

SMART CITY



At least one urban city is transformed into a smart city

TOWARD Industrial Revolution 4.0



TOWARD CAM VISION 2050

Moving toward a high-income country



DIGITAL SOCIETY

Harmonized and prosperous digital society

IFAD INTERVENTION



Goal: Support the long-term strategic framework of the Cambodian digital economy



Objective: Promote the innovative digital services to smallholder farmers and rural economy.



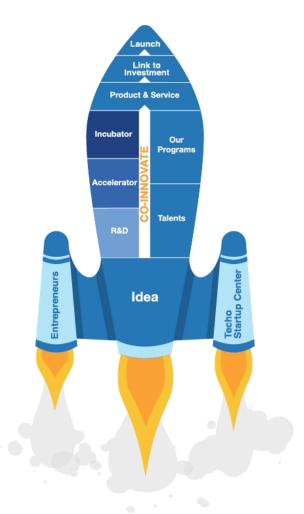
Collaboration with Techo Start Up Center

An entity established under an innovation arm of MEF. Supercharge of digital ecosystem and innovation.

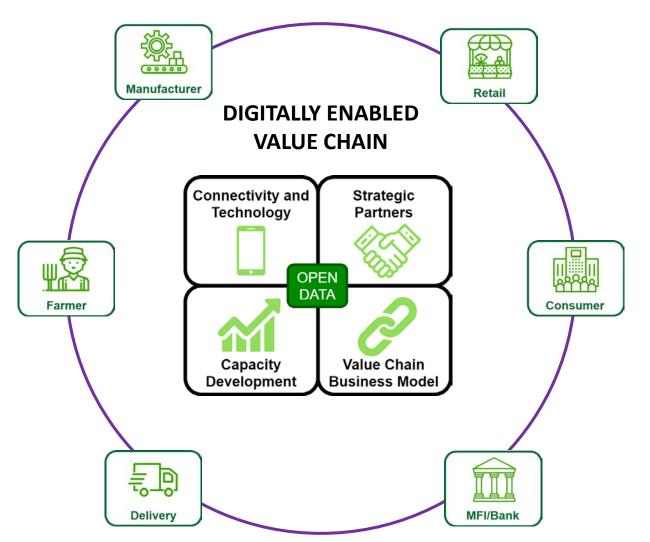
Long term strategic framework of the digital economy



- National outreach campaign on digital literacy
 - Testing the challenge fund facility
 - Development of Khmer Agriculture Suit (KAS)



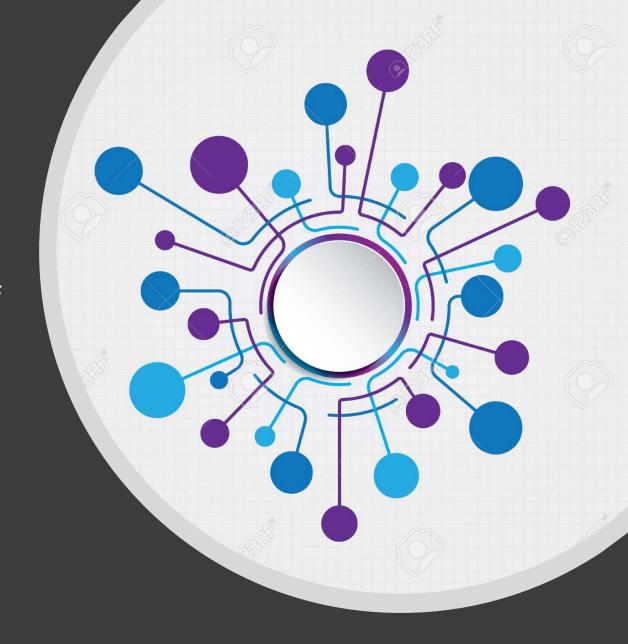
Overview of Khmer Agriculture Suite (KAS)



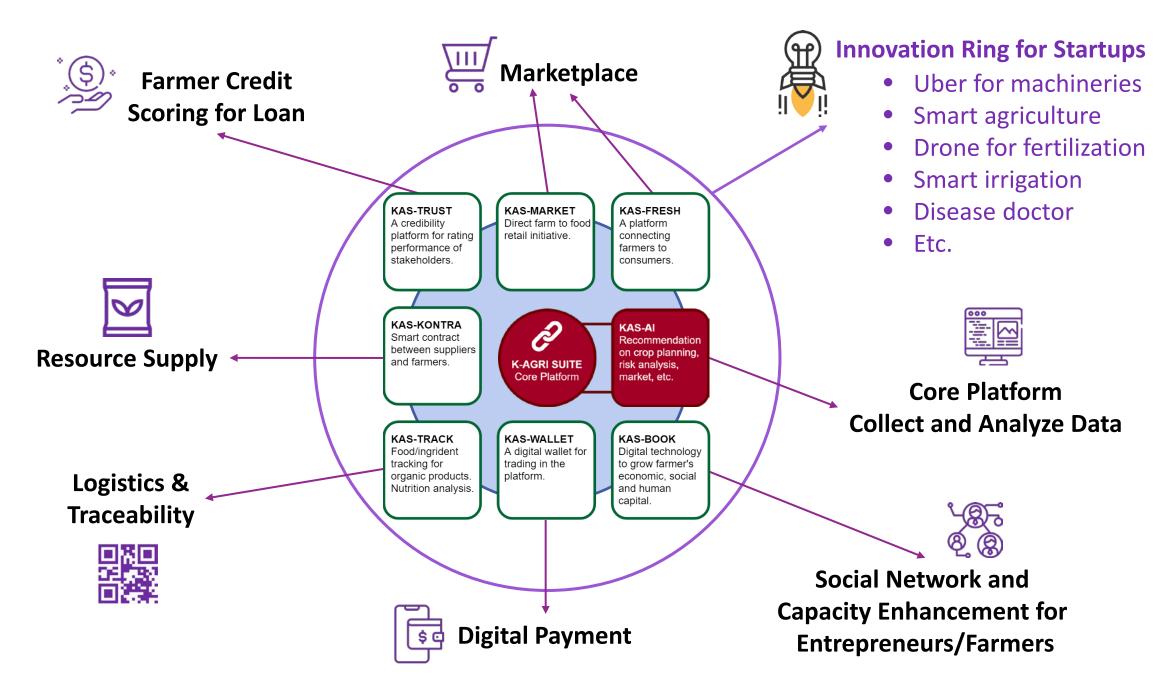
- Build an open platform for digital agriculture value chain
- Digitally connect all segments of relevant stakeholders
- Public and Private Partnership model in digital agriculture value chain
- Big data driven approach
- Composed of Core Platform and Key Applications

CORE PLATFORM

- Continuously collect and analyze data from various sources by means of automation and semi-automation.
- Utilizes cutting-edge AI techniques with crowdsourcing data to leverage the accuracy of the prediction.
- Provides real time information necessary for key applications to run on: weather, temperature, precipitation, soil, price, etc.



KEY APPLICATIONS





SPECIFIC RESPONSE TO COVID 19



In collaboration with Ministry of Agriculture Forestry and Fisheries / Bronx Technology



















App is developed by Korean fund and was redesigned to respond to the movement restrictions and physical distance.

CORE FUNCTIONS



Get updated news related their business;



Early warning system;



Technical material



Access to technical experts through integrative platform



Access to buy production inputs



Access to virtual market to sell their products



Understand the profitability of their business



Mainstreaming material: COVID 19, CC, Gender





1 6% €

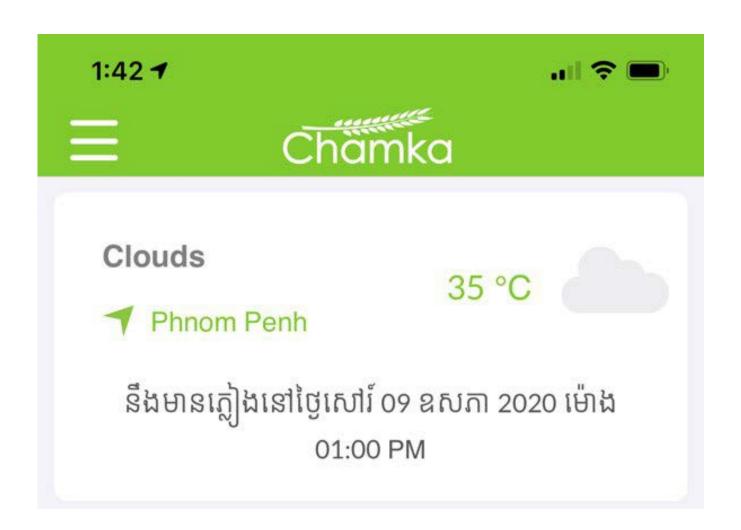




EARLY WARNING SYSTEM

Weather

- Weather forecasting for upcoming rain and storm up to 10 days
- Using Open Weather API
- In App notification alert



Technical Documents

- To provide best farming practice knowledge via video and ebook
- Share success stories of other model farmers
- Resources are provided through MAFF Agriculture Extension Portal











បច្ចេកទេសចិញ្ចឹមមាន់ស្រុក

4 may 2020 00,21







Buy Input Supply

- To find and buy input supplies such as seeds, fertilizers, farming materials through our trusted suppliers
- Rate suppliers and recommend for other farmers







ជីគីមី សំរាប់ដំណាំស្រូវ



ជីគីមី សំរាប់ដំណាំបន្លែ



ជីធម្មជាតិ



ទូរភ្ញាស់កូនមាន់

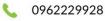


ជីធម្មជាតិ

100,000 រៀល

ជីធម្មជាតិសុទ្ធ ផលិតផលក្នុងស្រុក ១០០%។

អ្នកផ្គត់ផ្គង់៖ Sample Supplier



info@bronxtechnology.com



List Product for Sale

- To list agriculture product for sale through our Chamka Grocery App
- Accept purchase request through the app







Direct Contact to Agriculture Experts

- Farmers able to ask and chat directly with the experts that are always online to help for any questions
- Using Chat technologies, farmers can send text, images, videos and voice call directly to the experts for free as long as they have internet connection.
- Notification is used for upcoming messages





Record Farming Activities

- Record and track activities such as expense and revenue
- Basic financial analysis for top expense categories
- Basic analysis for profitability
- Access to credit line





Mainstreaming material





All

កូវីដ ១៩ ភាពធន់



ការការពារជំងឺកូវីដ ១៩

22 may 2020, 05:20 pm







Want to try?
iOS and Android: Chamka
And login with this phone
number: 012928093, PW: 123456

Future Roadmaps

- Early warning system
- Integrated Als
- Trial testing of ATM Card & Digital Wallet
- Trail testing money transfer facility
- Traceability and branding
- Renting Agriculture Machinery
- Soil micro-organism improvement
- Income generation stream











Questions and Comments are welcome!



