Digital Priorities for Agrifood System Transformation

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Webinar: Indonesia Data Hackathon - CultivHacktion
September 9, 2021
Agrifood System Transformation in INDONESIA

Five Ways of Action

1. Increase production, productivity and supply of staple food
2. Stimulate the diversification of food consumption & production
3. Enhance & sustain food reserves at the national, provincial & village level
4. Modernize agriculture & leverage digital technology & artificial intelligence
5. Promote export agriculture & increase exports threefold during the next five years

Note:
Agrifood systems embraces the entire range of actors and their interlinked activities along the value/supply chain, involving the production, aggregation, processing, distribution, consumption, and disposal of food products that originate from agriculture, forestry or fisheries, and food industries, and the broader economic, societal, and natural environments in which they are embedded.
PROMOTING SINERGY THROUGH KOSTRATANI
(Strategic Command for Agricultural Development)

Roles of KostraTani

1. Agricultural data and information center
2. Agricultural development movement center
3. A learning center
4. A business consulting center
5. A center for developing marketing partnership networks

KostraTani aims to make agricultural development more collaborative & coordinated, more modern and closely monitored at the local level, ensuring farmers are provided with optimum guidance and can benefit from technology

In 2020, 5,700 Agriculture Extension Centers at sub-district level linked to AWR and equipped with PC&modem

Flow of Information

Kostratani

Data Center

Agriculture War Room

IOT

Data

ViCon

Kostrawil-Province

External Data

AWR - Technical DGs of MoA

Interactive Display Analysis Room

AWR – MoA HQ

IOT

Data

ViCon

Kostrada-District

Kostratani-SubDistrict

BRIGADE of food crops; horticulture; livestock; estate crops

Internal Data
Digitalization in Agriculture: INDONESIA

SMART PRACTICES ALONG THE VALUE CHAINS

- Smart Input Provision
- Smart Cultivation
- Smart Harvesting
- Smart Handling & Processing
- Smart Marketing

DIGITAL SUPPORT

(around 600 applications have been in place)

Sensor; Remore Sensing; Drone; AI; Robotic; Big Data & Analysis; Cloud Technology; IoT; Automation; Blockchain & Traceability; Bioinformatics & chemoinformatics
Digitalization in Agriculture: INDONESIA

**PRODUCTION CENTERS**

**COLLECTING CENTERS**

Product Treatments to Ensure Compliance with Specific Country Market Requirements

**End Consumers**

**IMPORTERS**

Global Warehouse Network

**World Supermarket Chain**

**PROMOTING EXPORT**

- **Product Delivery**
- **PO & Payment**

Digitalization as an Effective “MATCHMAKER” & TRADING FACILITATOR

SMOOTH FLOW OF (PRODUCT & MARKET) INFORMATION

Quality ~ Productivity ~ Traceability ~ Supply ~ Demand

~ Dynamic market requirements
~ Economic growth
~ Science & innovation

PROMOTING EXPORT

FARMERS CORPORATION

GRATIEK VILLAGES

FARMERS CORPORATION

FOOD ESTATE

GLOBAL WAREHOUSE NETWORK

WORLD SUPERMARKET CHAIN

END CONSUMERS
TERIMA KASIH