

# Impact of Covid-19 on Agriculture in the Asia- Pacific and Role of Mechanization:

## Thailand perspective

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How has the Covid-19 pandemic impacted the Agricultural sector in Thailand?

# Country Lockdown Measures – Panic stage



- Border restrictions
- Transportation restrictions
- Inordinate constraints in export of agricultural products
- Stockpiling of food and consumables products





www.thansettakij.com



# แนวโน้มใหญ่ : โรคระบาด กับการอพยพของแรงงาน ครั้งสำคัญ

700,000 Foreign workers went back from Thailand to their home land, also impacted agriculture





Income



decrease

25.16%

Extra Income



decrease

35.38%

Saving



decrease

27.91%

Debt



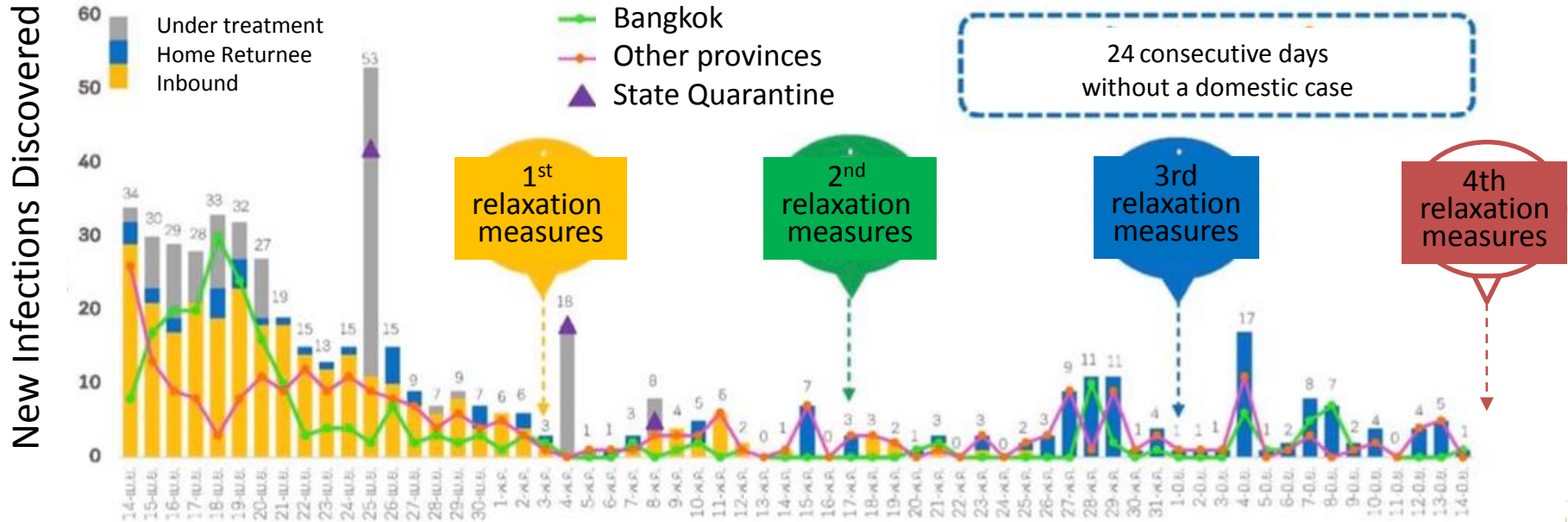
increase

25.07%

## Financial Status



# Thailand ranks as the best country to have recovered from COVID-19 in Asia, and ranks second as recovering successfully from COVID-19 worldwide



%yoy Mar2020/Jan-Mar2020



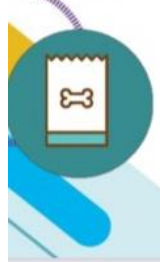
Sugar +17.5/+9.5



Processed Fruits and Vegetables +10.9/-7.2



Freeze and Processed Chicken +7.5/+7.2



Pet Food +11.5/+10.3

# Increase in Export growth rate for Agricultural and Agricultural Industries' Products





เกษตรกร



สตาร์ทอัพเกษตรกร : ตลาดสินค้าเกษตรรูปแบบใหม่

ระบบเจ้าของร่วมผลิต

**FARM-TO**

ประมูลสินค้าเกษตร



ตลาดออนไลน์



B2B/B2C



ลูกค้าผู้บริโภค



**AGRICULTURAL PRODUCTS ONLINE**

สินค้าเกษตรออนไลน์



*Online shopping and Delivery service courier has seen growth. It's become our New Normal behavior.*





Through the crisis: Way forward  
for agriculture in Thailand...

Drones  
survey  
and  
spraying

GPS  
RTK  
system

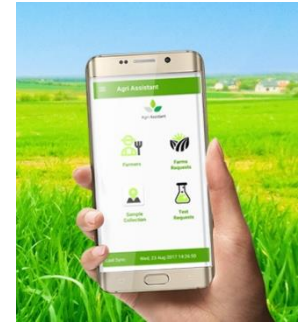
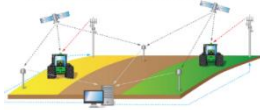
Tractor  
auto  
guidance  
/steer

IOT  
Big Data

Mobile  
applications



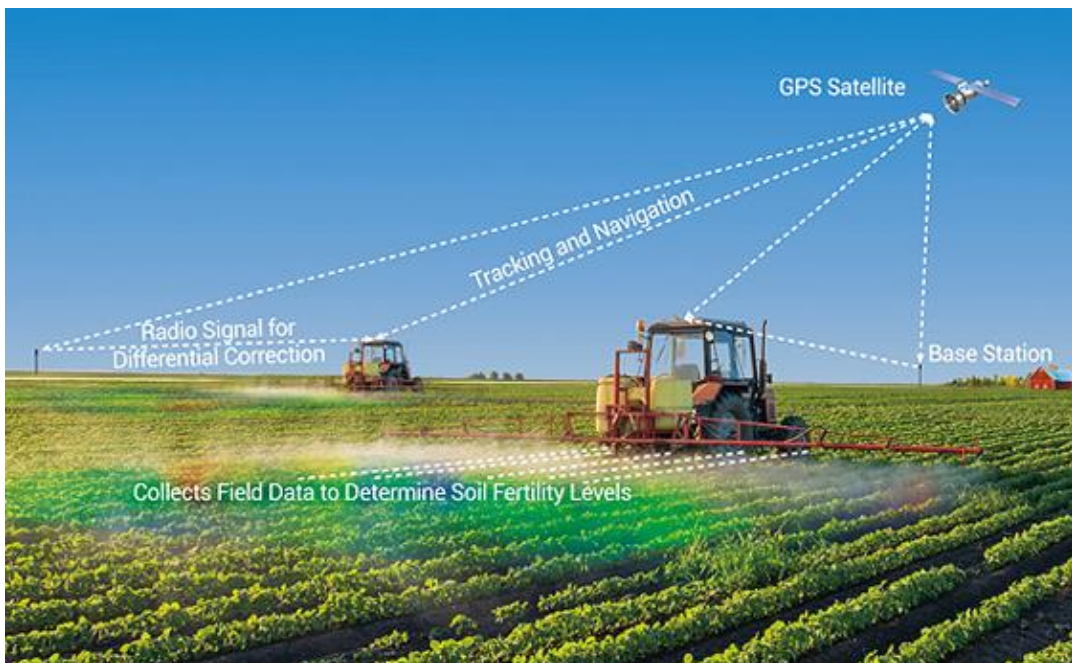
**RTK Solution**



## Uses in Thailand



# National Economic and Social Recovery Policy in Agriculture Sector



## Future Sustainable Growth

: Smart Agriculture;  
Precision Farming,  
Collaborative Farm,  
High Value Agriculture  
Products

: Food Industry

: Bio-economy



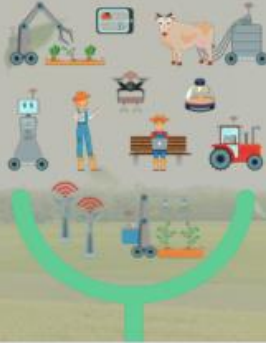
# Agriculture Industry Direction



Enhancing  
by Agri-tech



Drive by  
Young Farmer



Operation by  
Precision  
Machinery



Quality control  
by  
Standardization



Services by  
Market need



Transport by  
Q-Logistics





# Thank you!



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# DARES KITTIYOPAS

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## PROFILE

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Dares Kittiyopas has a background of Agricultural Engineer with extension skill and experiences. She specializes in on-farm machineries management and industry, with digital applications. Dares has experiences in researching and analyzing in farm machinery status and related field. She previously be ICT division director, Deputy Director-General and CIO of Department of Agricultural Extension. She is currently Inspector-General of Ministry of Agriculture and Cooperatives, Thailand. She involved in Smart Agriculture development of MOAC. She also holds the positions of President of Agricultural Engineering Society and Luminary of Agricultural Logistics of Thailand Research Fund.

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