

SMART FARMING

Tema 4: TRANSFORMASI KE ARAH TEKNOLOGI DAN TEKNIK MODEN PERTANIAN

Presented by Dr. Vanessa Teo Agrome IQ International Sdn Bhd. Agriculture : is the art and science of cultivating the soil, growing crops and raising livestock.



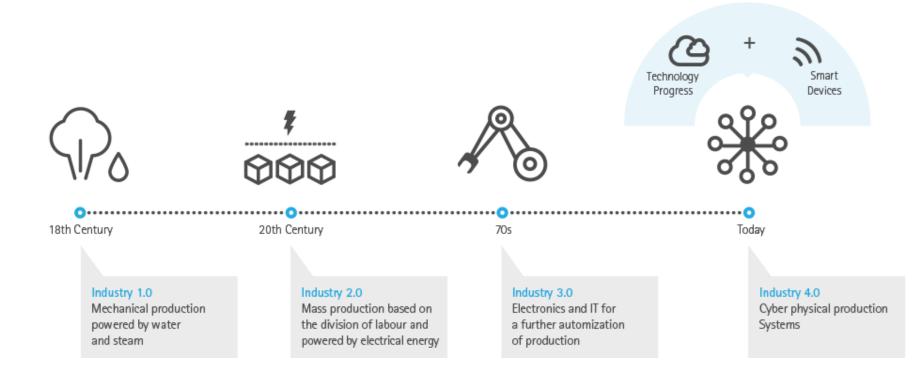
Agrome IQ International Sdn Bhd

GREEN REVOLUTION

The great increase in production of food production due to the introduction of high-yielding varieties, to the use of pesticides, and to better management techniques.



INDUSTRIAL REVOLUTION 1.0 to 4.0

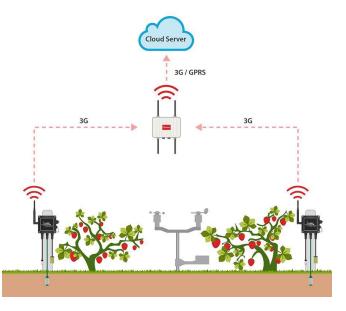


WHAT IS SMART FARMING?

SMART FARMING is the adoption of a highly specific set of practices that uses technology to cater to the needs of individual plots and crops.

Types of Technology

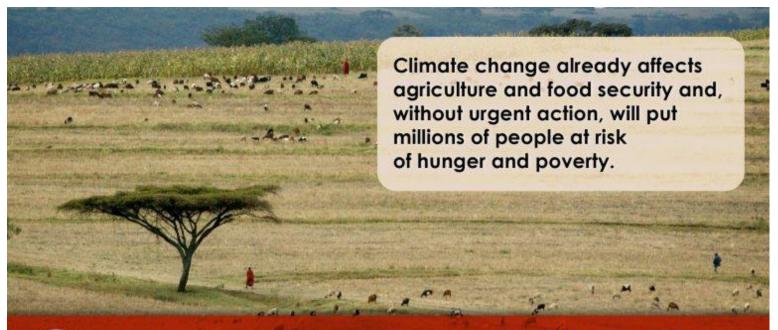
- Sensors & Data analytics software
- Automated Greenhouses



FARMERS DILEMMA



Climate Change threatens our ability to ensure global food security, eradicate poverty and achieve sustainable development.





Food and Agriculture Organization of the United Nations #SOFA16 #ClimateChange fao.org/publications/sofa

The world needs topsoil to grow 95% of its food - but it's rapidly disappearing

Without efforts to rebuild soil health, we could lose our ability to grow enough nutritious food to feed the planet's population

Farmers hit hard by dry weather

By SUZIANAH JIFFAR - March 4, 2019 @ 8:03am

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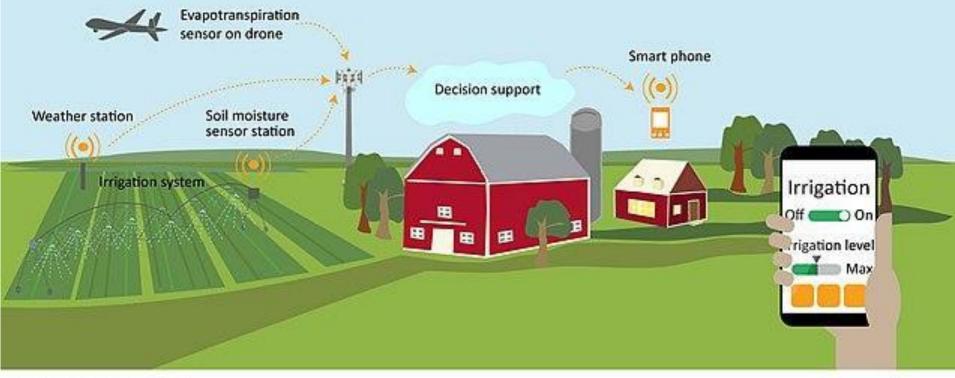
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BENEFITS OF SMART FARMING

- Improve Decision making
- Limited land area
- Lack of natural resources
- Severe weather conditions
- Slow yield and growth
- Lack of Human Resources



SMART FARMING & IOT DEVICES



Source: GAO. | GAO-20-128SP

FARMS OF THE FUTURE



THANK YOU

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