





4-F, bottom-line: provide human being the food needed for surviving!

A Few Examples of Agriculture

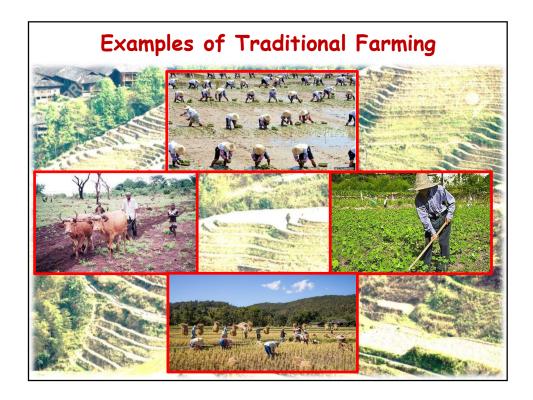


Cultivated Agriculture (Ag 1.0)

The Goal:

Produce sufficient food to feed human being.

- More farming land
- Better seeds/varieties
- Crop rotation
- Fertilizing
- Weed/pest control



Mechanized Agriculture (Ag 2.0)

The Goal:

Produce more food with less labor required - higher productivity

- Mechanical & electrical power
- Mechanization (use of machines)
- Chemical fertilization & pest controls
- Irrigation
- Automation

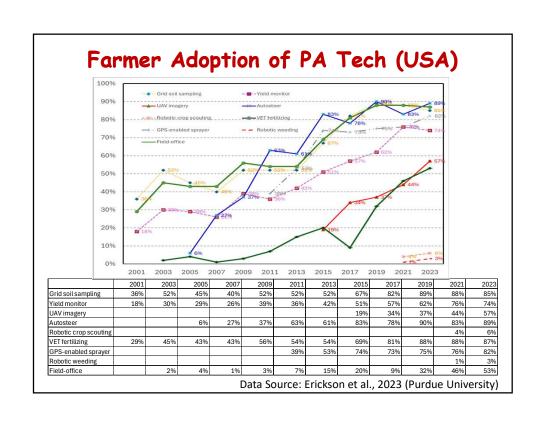


Precision Agriculture (Ag 3.0)

The Goal:

Productively produce more food with less resources - higher sustainability

- Growth condition awareness
- Site-specific management & Prescription
- Variable rate applications
- Precise implementation







Farming Smartly Could Improve:



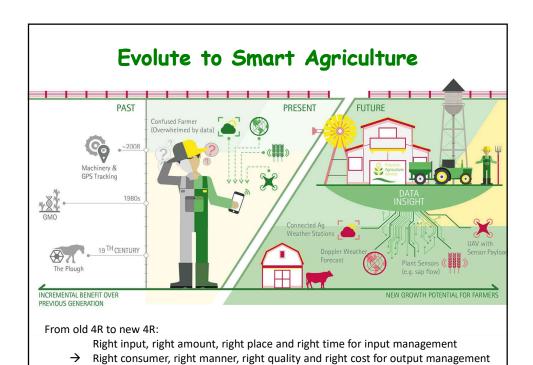
Harvesting right types of amount of produces to a market

Effectively reacting to varying farming condition for safe & efficient production





Adequate ways for safe & economic handling, storage & transporting



What is Smart Agriculture?

Produce sufficient food?

- That's the purpose of cultivated agriculture

Produce food effectively?

- That's the purpose of mechanized agriculture

Produce food sustainably?

- That's the purpose of precision agriculture

A New Age of an Old Industry



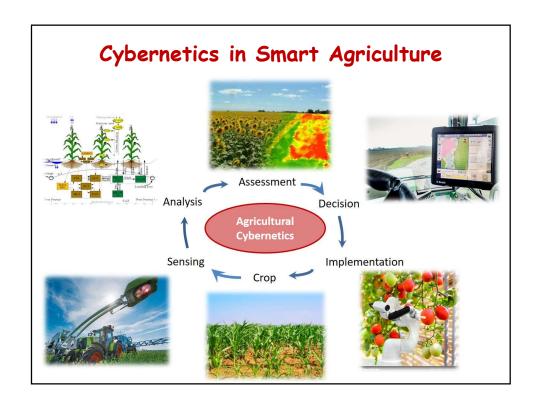
Evolute to Smart Agriculture (Ag 4.0)

The Goal:

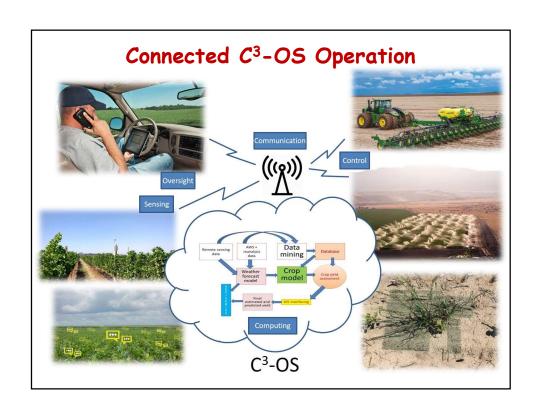
Sustainably produce differentiated quality food to meet the needs of different customers

- higher overall efficiency

- System of agri-food systems
- Agricultural cybernetics
- Data-driven Ag-AI
- Customer-in-the-loop production







Impact to Farming & Rural Community



New model of agriculture could bring changes in rural area by:

- Converting farmers to business managers
- Creating a new profession of high-tech/robotic
 farming services (a new high-pay job)
- > Changing rural population demography
- Enriching rural economy
- > Making rural area better place to live

