CSAM
Centre for Sustainable Agricultural Mechanization
ESCAP

Thailand Agriculture 4.0

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Opportunities

- Main opportunities to adopting artificial intelligence driven and/or technologically innovative agricultural mechanization in Thailand
  - **Increased Productivity and Efficiency**
  - **Addressing Labor Shortages and Aging Workforce**
  - **Optimized Resource Management**
  - **Enhanced Decision-Making**
- How can vulnerable groups such as smallholders benefit from the adoption of such technologies
  - **Precision Farming Solutions**
  - **Crop Monitoring & Analytics Platforms**
  - **Automated Irrigation & Water Management Systems**
  - **Smart- precision machinery**

Challenges

- What are the main barriers to adopting artificial intelligence driven and/or technologically innovative agricultural mechanization in Thailand
- Highlight the barriers especially faced by vulnerable groups such as smallholders.
  - **Financial Constraints and High Indebtedness**
  - **Aging Population and Digital Literacy Gap**
  - **Inadequate Rural Infrastructure**
  - **Small, Fragmented Landholdings**
  - **Limited Access to Information and Support**

Role of CSAM

- How can CSAM help to achieve these opportunities/ address these barriers?
  - Pilot project for pushing the smart farming
- What aspects should CSAM focus on to ensure that these technologies are also accessible and can benefit the vulnerable groups such as smallholders, women, youth, elderly and disabled farmers?

THANK YOU

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