



82nd Commission Session

Panel Discussion on Smart Mechanization for Shifting Agricultural Demographics

*Integrating new technologies into agricultural mechanization
to address the changing demographics of the agriculture workforce*

Practical Experience from GETHAC and AGRITECHNICA ASIA

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Rural Development
Administration



CSAM
Centre for Sustainable
Agricultural Mechanization

DLG – German Agricultural Society

Your global network for agriculture and food

DLG

- Vision to promote sustainable and efficient agriculture
- Network-driven organization: connecting practice, industry, science and policy
- Promoting innovation and translate into real-world application
- Since 1885, >30,000members, neutral

AGRITECHNICA ASIA

- Leading trade fair for agricultural machinery and smart farming in Asia
- Practical mechanization solutions for Asian farming systems
- 20-22 May 2026, BITEC, Bangkok

GETHAC

- German-Thai Cooperation Project
- Innovation networks on sustainable production
- Working directly with Thai farmers and institutions



Practical Experience from GETHAC and AGRITECHNICA ASIA



What Works

- Simple technology outperforms complex systems
Eg. Drones are a proven smart solution offered by service providers
- Digital media (LINE/FB) works better than apps
- Young Smart Farmers are open
- Best practices / demo farms are key

What Does Not (Yet) Work

- Financing and complexity of use is a major barrier:
High-end smart machinery often does not fit reality
E.g. Smart irrigation / GPS systems works in niches (high-value crops)
- Apps and digital advisory are not always practical
- Cooperatives / clusterfarms sharing machinery strongly depend on leadership



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Smart Mechanization works when...

- farmers see the added value: less input, more outcome.
- it is simple, affordable/accessible and locally adapted.
- it makes agriculture attractive for young people.

Adoption takes time, but will come –

Platforms such as AGRITECHNICA ASIA and its Applied Technology Award show solutions and foster regional exchange and best practice learning.





Thank you

x

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