CSAM Regional Initiative on Integrated Straw Management

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Outline

- About ESCAP-CSAM
- About CSAM’s Regional Initiative
ESCAP-CSAM

- **Regional institution** of ESCAP and hosted in China since 2003.
- Regional Hub for **South-to-South and Triangular Cooperation** servicing 62 ESCAP member States and associate members.
- Dedicate to promoting **international cooperation and partnership** in mandated area of work.
- Focusing on **Sustainable Development Goals (SDG) 2 (Zero Hunger)**, SDG 1 (no poverty), SDG 17 (Partnerships for the Goals).
Our Vision

CSAM’s vision is to achieve production gains, improved rural livelihood and poverty alleviation through sustainable agricultural mechanization for a more resilient, inclusive and sustainable Asia and the Pacific.
Constraints on Promoting Sustainable Agricultural Mechanization in Asia-Pacific

- Small land holdings
- Limited manufacturing capacity
- Weaknesses in policy environment
- Limited institutional capacities
- Inadequate regional coordination
CSAM’s Key Functions to enable Sustainable Agricultural Mechanization

**Regional Cooperation**

**Capacity Building**

**Research and Advisory**

**Communication and Outreach**

**Partnership Building**

South-South and Triangular Cooperation underlies all of CSAM’s work
CSAM’s Main Initiatives for Sustainable Agricultural Mechanization

- Regional Forum on Sustainable Agricultural Mechanization
- Asian and Pacific Network for Testing of Agricultural Machinery (ANTAM)
- Regional Council of Agricultural Machinery Associations (ReCAMA)
- Building resilience of smallholder farmers through South-South Cooperation
- Integrated management of straw residue
- Research, data, publications, policy advisory services
- Training and institutional capacity building
- Engagement of youth
- Poverty alleviation in China
Outline

About ESCAP-CSAM

About CSAM’s Regional Initiative
4th Regional Forum on Sustainable Agricultural Mechanization in Asia and the Pacific (23-25 November 2016, Hanoi, Vietnam)

- Leading the way for Climate-Smart Agriculture through machinery and practices
Research Paper

- Status of Straw Management in Asia-Pacific and Options for Integrated Straw Management

- Published in 2017
- Covering East Asia, South Asia, South East Asia
- To collect proven practices/technologies of straw management in member countries
- Outcomes and findings of the paper were circulated at the Regional Workshop on Integrated Straw Management in Dec. 2017 in Kathmandu, Nepal
Pilot Projects

• Launched in 2018 in China and Vietnam

• Objectives:
  • To develop an innovative, circular and green model of integrated straw management;
  • To enhance awareness of farmers and other key stakeholders on technologies and models for integrated straw management;
  • To upscale application of successful integrated straw management technologies and models.
Overall progress

4th Regional Forum on Sustainable Agricultural Mechanization in Asia and the Pacific - 2016

Research paper “Status of Straw Management in Asia-Pacific and Options for Integrated Straw Management” - 2017

Regional Workshop on Integrated Straw Management in 2017

Establishment of Pilot Projects in China and Vietnam in 2018

Inception Workshop in China in Aug 2018

Inception Workshop-Cum - Training on “Indoor Mushroom Growing Technology” in Vietnam in Jan 2019
Pilot Project on Integrated Straw Management in China

- **Location:** Laixi, Qingdao, Shandong Province
- **Partners:**
  - China Agricultural University (CAU)
  - Qingdao Administration of Agriculture and Rural Affairs
  - Laixi Administration of Agriculture and Rural Affairs
  - Qingdao Zhitao Agricultural Machinery Specialized Cooperative
- **Pilot Models:**
  - Straw used as fertilizer, fodder, bio-gas production, mushroom growing in a circular manner
Pilot Project on Integrated Straw Management in China

Pilot Project on Integrated Straw Management in China – Partner Engagement Event (Apr 2019)
Pilot Project on Integrated Straw Management in Vietnam

- **Location:** Can Tho City
- **Partners:**
  - Sub-Institute of Agricultural Engineering & Post-harvest Technology (SIAEP)
- **Pilot Models:**
  - Straw used for mushroom growing
Pilot Project on Integrated Straw Management in Vietnam

- Inception Workshop (Jan. 2019)
Pilot Project on Integrated Straw Management in Nepal *(under preparation)*

- **Partners:**
  - Department of Agricultural Engineering (DoAE), Purwanchal Campus, Institute of Engineering (IoE), Tribhuvan University
  - Krishna Daana Udhyog (KDU)
  - Agricultural Engineering and Post Harvest Section (AEPHS), Department of Agriculture (DoA), Ministry of Agriculture and Livestock Development

- **Pilot Model:**
  - Straw used as fodder
Engagement of Cambodia

• **Focal Point:**
  - Department of Agricultural Engineering (DoAE), Ministry of Agriculture, Forestry and Fisheries

• **Context:**
  - Active research and promotion on conservation agriculture
  - Regional Workshop (2018) and Regional Training (2019) on CA organized
  - Keen interest in mechanization solutions for integrated straw management
Way Forward...

• Continuation of:
  o Research and analytical work
  o Field activities and capacity building
  o Regional knowledge exchange
Contact Us

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...WE HOPE TO STRENGTHEN OUR COLLABORATION IN FUTURE...

Thank you