



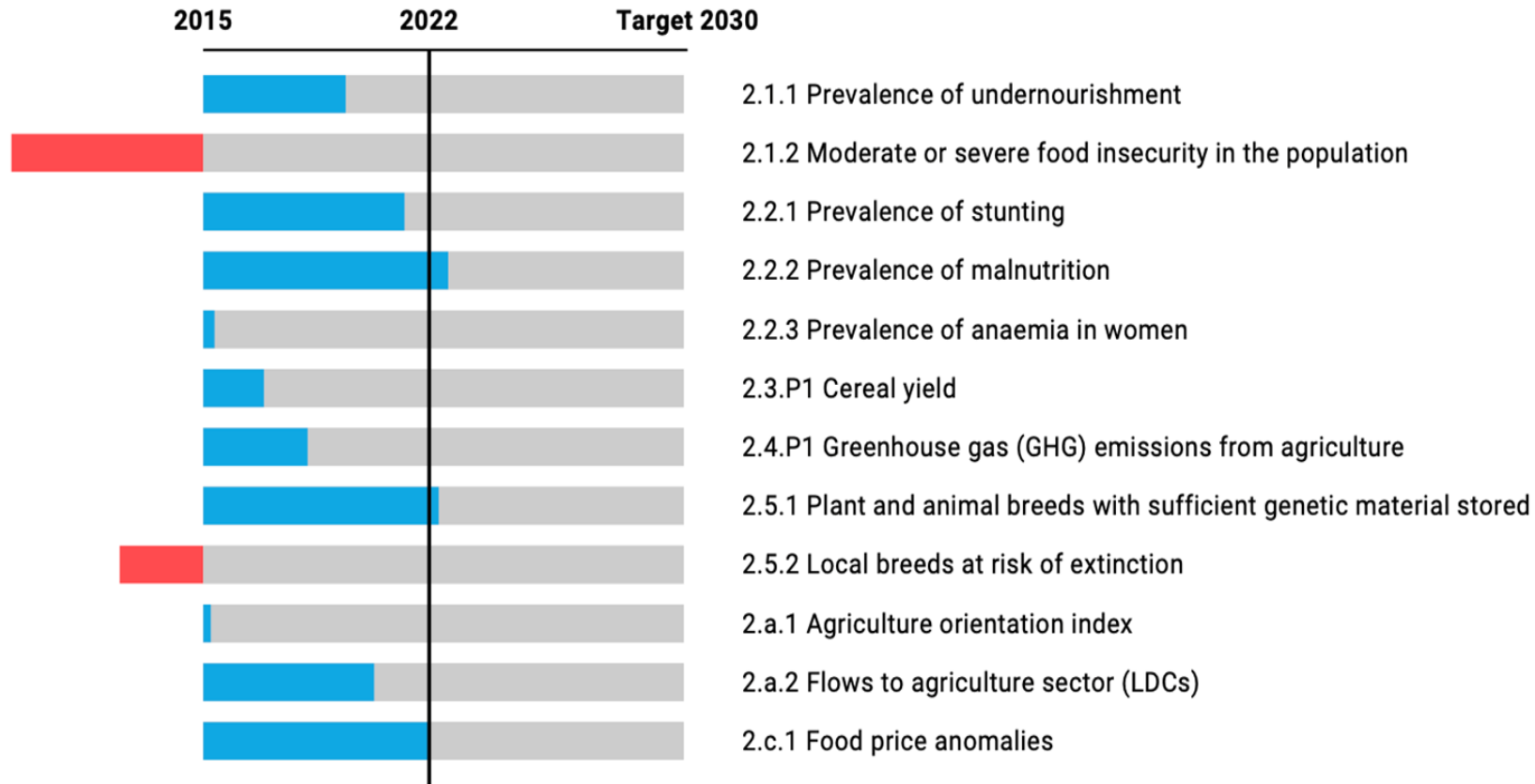
**Ending hunger
&
Eliminating malnutrition**

through Sustainable Agricultural Mechanization

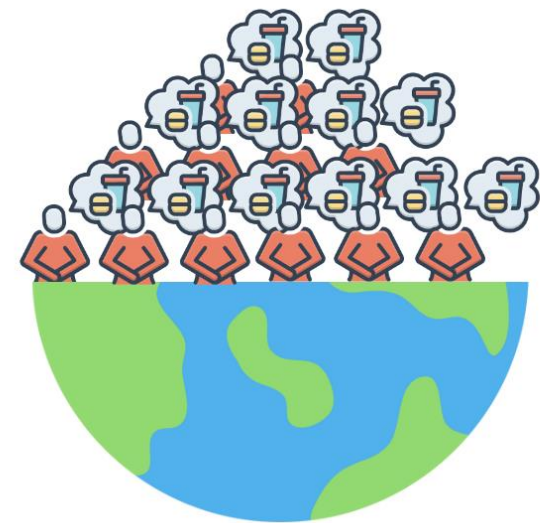
Dr. Yutong Li
Head
Centre for Sustainable
Agricultural Mechanization (CSAM)

Seventh North and Central Asia Multi-Stakeholder Forum on Implementation of Sustainable Development Goals (SDGs)

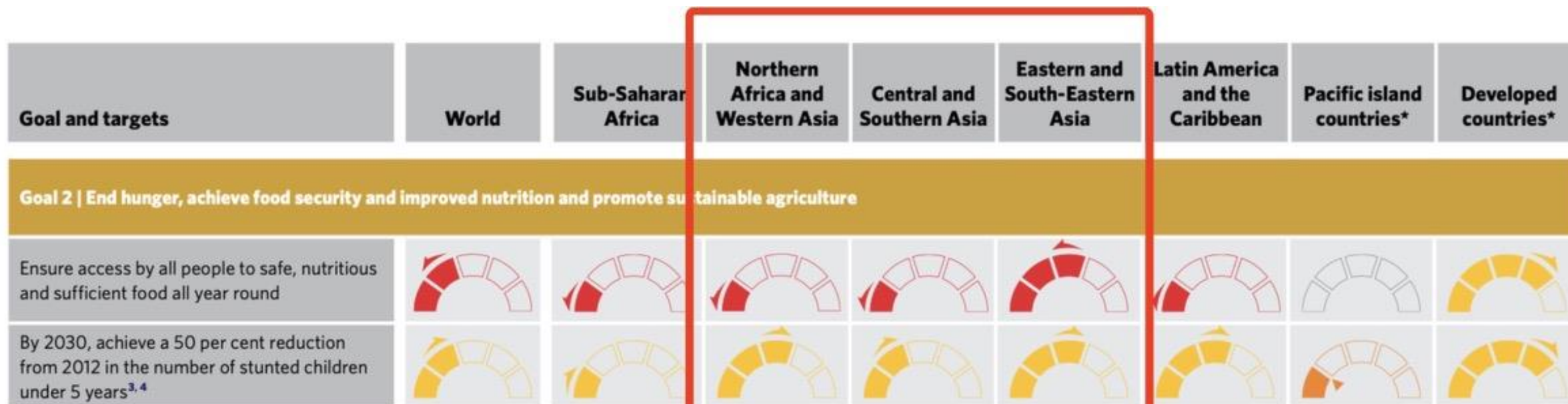
The overall progress graph on Asia and the Pacific region shows **none** of the goals on track as of the 2030 Agenda.



690 million
8.9 %
10 million in 1 year
60 million in 5 years



- **21.5%** - share of countries where food prices are abnormally high.
- **230 million** children are affected by malnutrition (2022).
- **2.4 billion** people struggle with moderate to severe food insecurity in 2022.



3. Trend assessment uses a baseline year of 2012.

4. Level assessment is based on 2020 data, with five levels of stunting prevalence: very high (1 bar), high (2 bars), moderate (3 bars), low (4 bars), and very low (5 bars).

Mechanization-based Technologies and Practices



1 Minimum mechanical soil disturbance



2 Permanent soil organic cover



3 Species diversification

CA practice using happy seeder for wheat/rice system in Pakistan

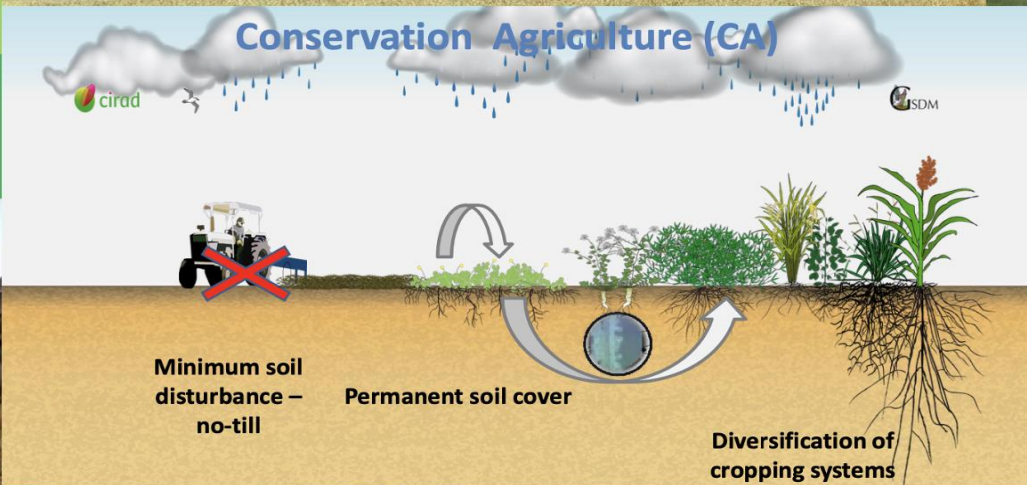


Economic forest dripping irrigation

Bean cultivation using Hand Jab Planter in Timor Leste



Low pressure dripping irrigation system



Greenhouse dripping irrigation



Mechanized laying



Large load plant protection UAV 3WDM8-20



Large load plant protection UAV

Large load plant protection UAV



UAV FR-200

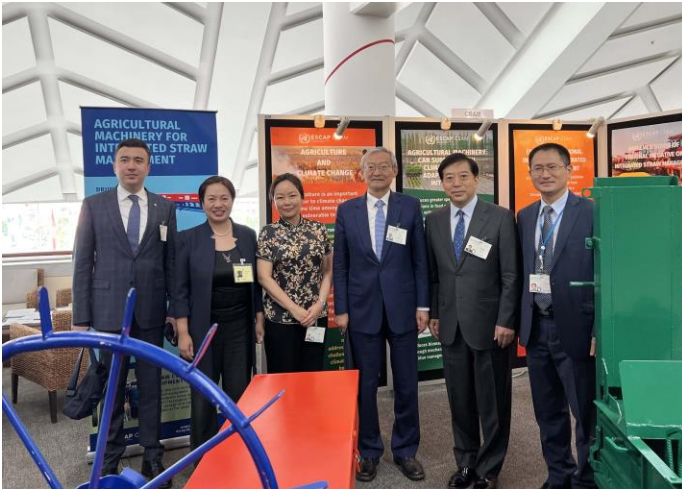


CSAM's Engagement in CA

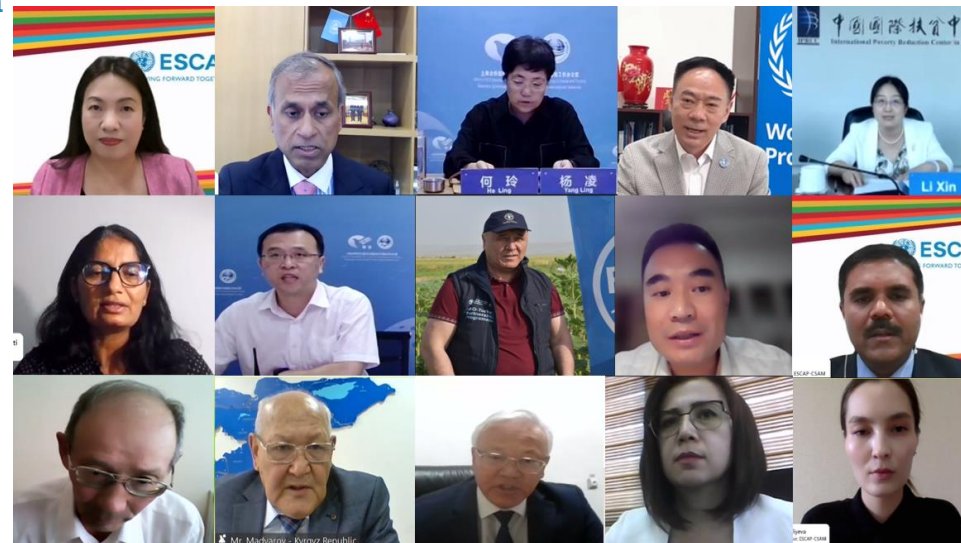
Letter of Intent Signed Between ESCAP, WFP and Administrative Committee of Yangling Agricultural High-Tech Industry Demonstration Zone of China



Enabling Food Systems Transformation through Climate Smart Agri-Innovation



CSAM presents mechanization solutions at the Climate Solutions Fair during the Seventy-ninth session of ESCAP





Solutions

- Sustainable agricultural mechanization plays critical role in safeguarding food security, reducing poverty and contributing to climate action.
- Climate-smart mechanization coupled with innovative technologies and approaches such as digital devices and water-efficiency technologies can improve productivity, enhance efficiency and reduce carbon emissions.
- Enhanced coordinated collaboration at national, regional, sub-regional and global levels is needed to be strengthened.





CSAM

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Agricultural Mechanization