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# Sustainable Agricultural Mechanization for Increasing Rural Incomes and Reducing Poverty in China

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Presented by Liu Xu  
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# Self Introduction

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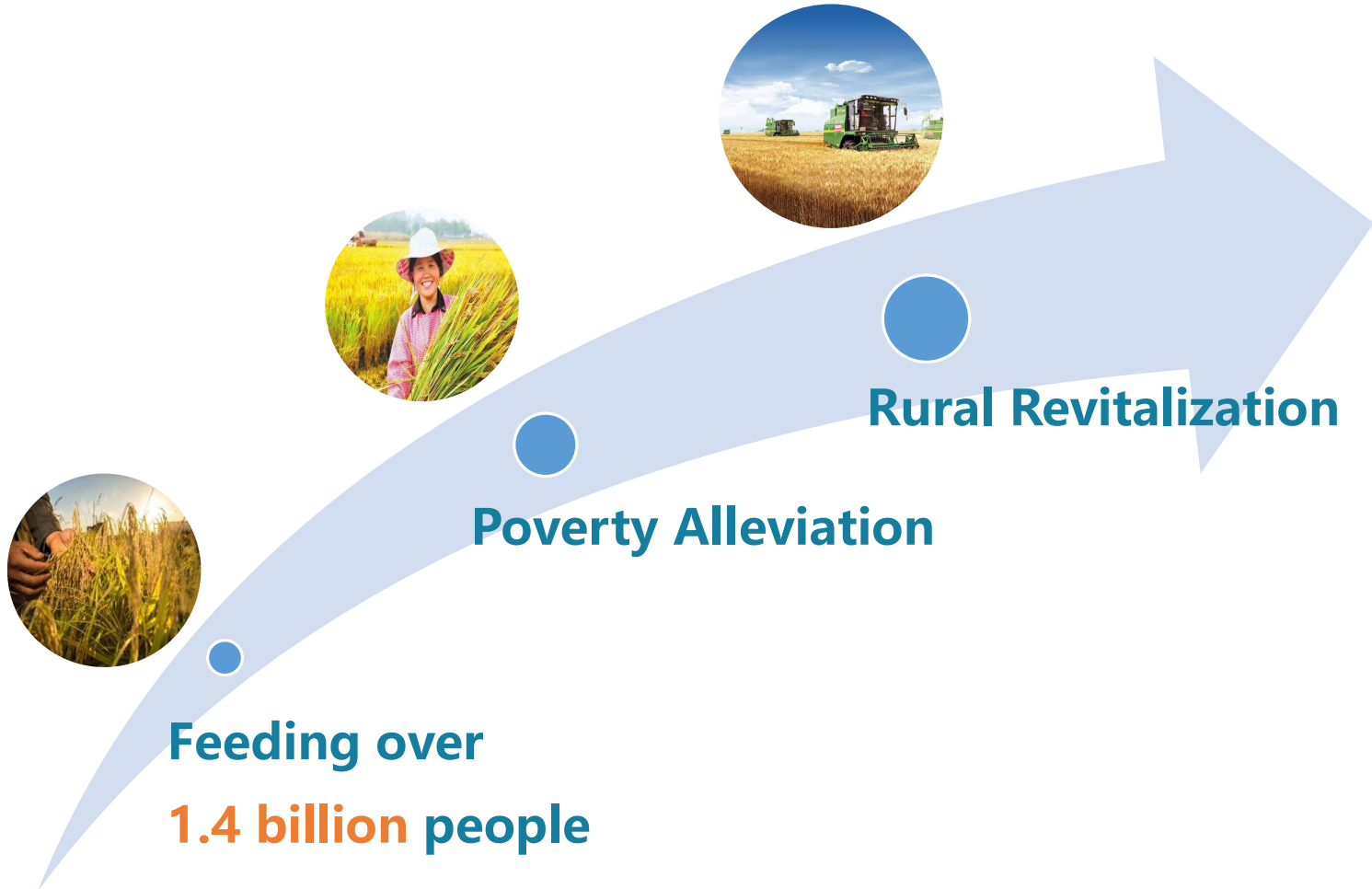


**Challenges and Vision**

# 01

Part ONE

**China' s achievements in and quest  
for poverty alleviation**



By the end of 2020, ended poverty for **98.99 million** rural residents (by existing standards) and **128,000** villages

In 2020, the per capita disposable income for rural residents reached **17,131 RMB**, up by 50% since 2015.



# 02

Part TWO

**Role of Sustainable agricultural  
mechanization and Chinese  
approaches**

In 2020, China delivered nearly **670 million tons** of grains

**Averaging**

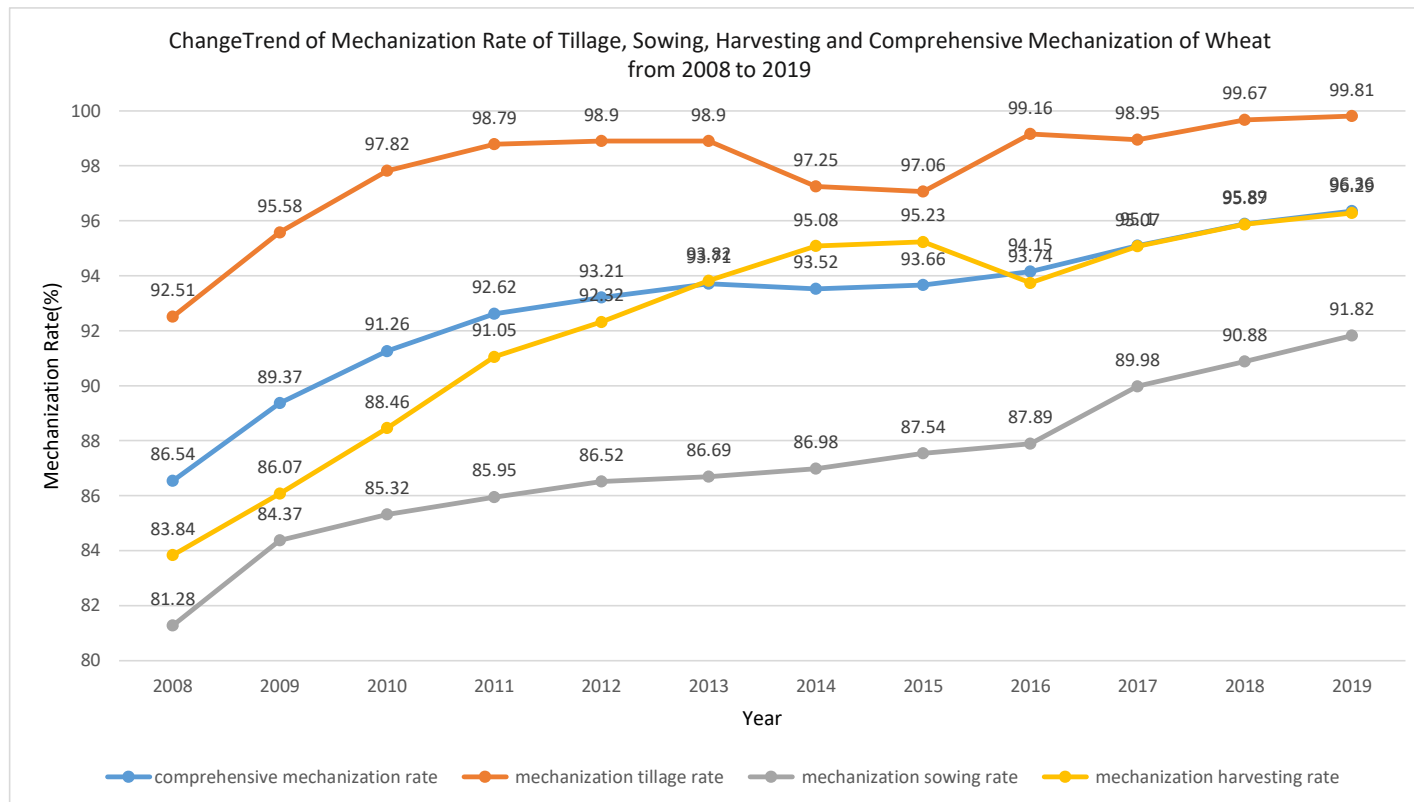
**382** kg per mu

**474** kg per capita





- The total power of China's farm machinery topped **1,056** million kw;
- The national Mechanization Rate for Tillage, Planting and Harvesting beyond **71%**



# 1. Enhanced policy and funding support

- Government Subsidy Policies for Purchasing Agricultural Machinery in China
  - The central government has arranged a total of 57 billion RMB to areas where hill and mountain concentrate;
  - Local farmers have bought 20 million pieces of farm machines and implements.
- Has included more categories of machines and implements into the subsidized catalog targeting poor areas.



## 2. Increased availability of agricultural machines

- Strengthened the R&D, testing and appraisal of the machines needed in poor areas
- Identified 47 counties to demonstrate whole process mechanization
- Through extension and training, the poor population is better equipped

Link

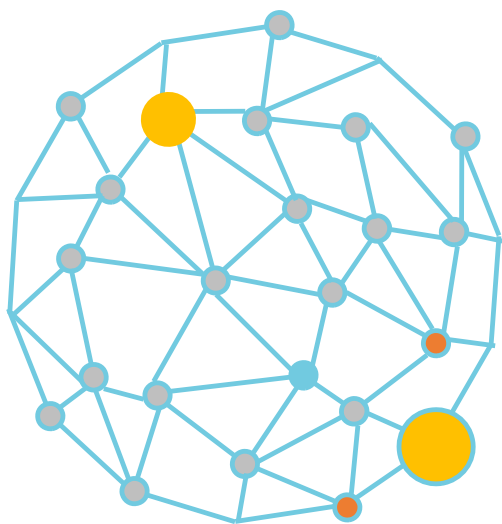


### 3. Extension of resource-saving techniques

- Promotes the use of techniques that save water, fertilizers and pesticides.
- Organize field training to help farmers.

irrigation efficiency in 2020	the fertilizer use efficiency for rice, wheat and corn	pesticide use efficiency for rice, wheat and corn
exceeded 0.56	40.2%	40.6%.

## 4. Agricultural mechanization socialized services



Item	No.
socialized agricultural machinery service-provider	190,000
agricultural machinery cooperatives	75,000
machine-owning farmers	40,000,000
employees	47,500,000

➤ Farmers' total revenue from such services reached **360** billion RMB.

## 5. Transformation of farmlands in mountain areas



China has been transforming farmlands in those areas to facilitate the traffic and operation of farm machines

- According to incomplete statistics, in the past two years, Chongqing Municipality, and Provinces such as Shanxi, Hubei, Hunan, Guangxi, and Gansu have invested **7.6 billion RMB** in transforming nearly **3.5 million mu** of land for machine operation.
- The total acreage of transformed land reached **7.9 million mu**.

## 6. Capacity building



Invite local authorities, heads of cooperatives, family farm owners to technical training and on-site demonstration on mechanized crop and animal production



To solve technical problems that stand in the way of specialty farming, experts visit poor households and offer customized training.

# 7. Mechanized production to reduce food loss

Grain	Loss Rate
wheat	3% (in the North China Plain )
rice	4%(the whole nation)
corn	5%(the whole nation)





## 8.China-aid programs on farm machinery



# 03

Part Three

**Challenges and Visions**

# Challenges





# Visions

- Cooperation with Asia-Pacific countries;
- Share experience and knowledge on agricultural mechanization and poverty reduction;
- Contribute to the global poverty reduction and development.



# 2021 THANK YOU

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