# Figure 24 May Vour World, Our World: Accra, Ghana Vour World, Our World: Resilient Environment of All

## **Basic Farmland Protection System in China**

WANG Nan

wangnan\_1994@126.com

Land Consolidation and Rehabilitation Ceter, Ministry of Natural Resources, China







Basic Farmland Protection System
Changes
Conflicts
Prospects





## **Changes in China's Basic Farmland Protection System**

## • Exploration of basic farmland protection (1963-1978)

To gradually establish **basic farmland** with a high capacity to resist drought and flooding and achieve high yields through water and soil conservation. (The Working Meeting of Water and Soil Conservation for the Lower Reaches of the Yellow River, 1963)

## **Improving farmland quality**







## • Delimitation of Basic Farmland Protection Zones (1979–2007)

- Delimited basic farmland protection zones in Jingzhou city, 1988
- Delimited basic farmland protection zones throughout the country, 1992
- Regulations on the Protection of Basic Farmland, 1994
- Environmental Protection Regulations for Basic Farmland Protection Zone (Trial), Environmental Protection Regulations for Basic Farmland Protection Zone (Trial), 1996
- Basic farmland was included in the Land Management Law of the PRC, 1998

### ☑ Maintaining farmland area













#### FIG Norking Week 2024 19-24 May Accra, Ghana Your World, Our World: Accra, Ghana Your World, Our World: Resilient Environment Accra, Ghana

**Basic farmland**: Farmland that must not be occupied by nonagricultural land use in accordance with the demands of the population, the requirements of socioeconomic development for agricultural products in a certain period and general land-use planning policies. (Regulations on the Protection of Basic Farmland, 1998)

#### • Delimitation of Permanent Basic Farmland (since 2008)

**Permanent basic farmland**: basic farmland could not be changed to other uses under any circumstances and could not be used for other purposes in any way. (The Third Plenary Session of the 17th Central Committee of the Communist Party of China, 2008)

## **Permanent** protection



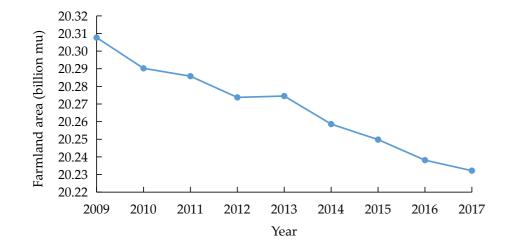




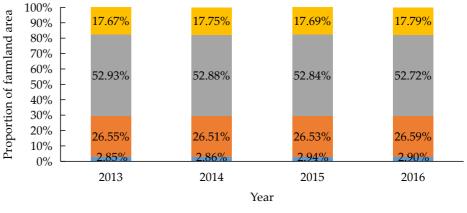


## **Current Conflicts in Basic Farmland Protection**

**General Pressure and Pressure and Pressure and For Supplementary Delimitation of Basic Farmland** 



Changes in China's farmland area from 2009 to 2017.



Superior grade High grade Moderate grade Low grade

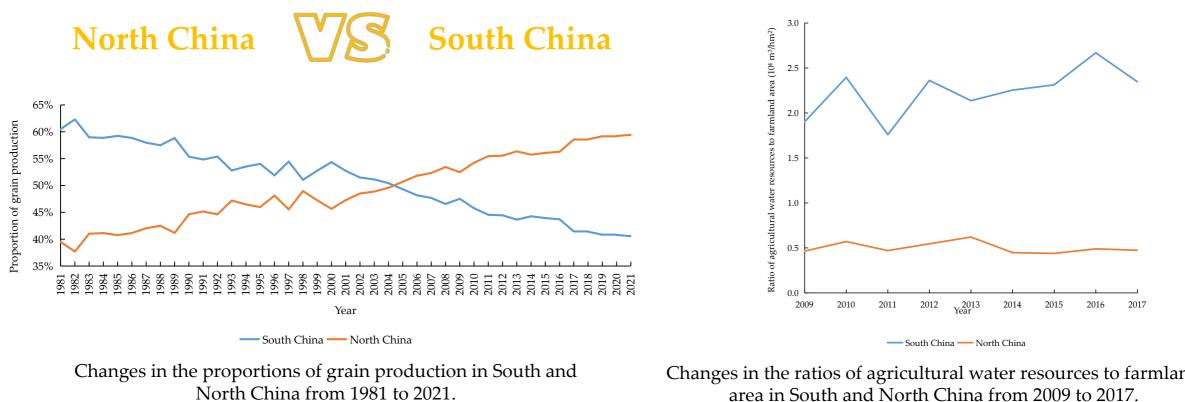
Changes in China's farmland quality from 2013 to 2016.







The Production Pattern Is Inconsistent with the Distribution of Basic Farmland Quality



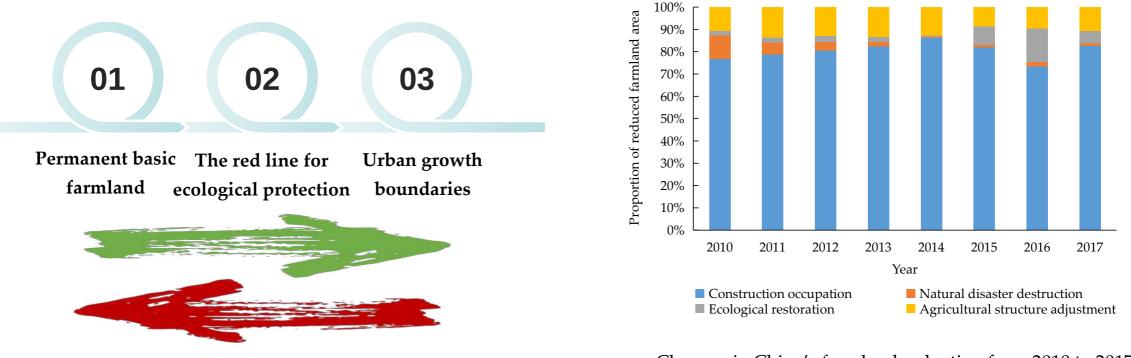


Changes in the ratios of agricultural water resources to farmland

PLATINUM SPONSOR

Trimble.

#### **Urban** Development Threatens the <u>Quantity</u> of Basic Farmland



Changes in China's farmland reduction from 2010 to 2017





#### **D** The Requirement of Basic Farmland <u>Quantity</u> Does Not Match the Demand for Food Security

Year	Grains	Edible Oils and Fats	Vegetables and Edible Mushrooms	Meat and Meat Products	Poultry	Seafood	Eggs	Milk and Dairy Products	Dried and Fresh Melons and Fruit	Sugar	Grain ration security
2013	148.7	10.6	97.5	25.6	7.2	10.4	8.2	11.7	40.7	1.2	
2014	141	10.4	96.9	25.6	8	10.8	8.6	12.6	42.2	1.3	
2015	134.5	10.6	97.8	26.2	8.4	11.2	9.5	12.1	44.5	1.3	
2016	132.8	10.6	100.1	26.1	9.1	11.4	9.7	12	48.3	1.3	
2017	130.1	10.4	99.2	26.7	8.9	11.5	10	12.1	50.1	1.3	
2018	127.2	9.6	96.1	29.5	9	11.4	9.7	12.2	52.1	1.3	
2019	130.1	9.5	98.6	26.9	10.8	13.6	10.7	12.5	56.4	1.3	Grain security
2020	141.2	10.4	103.7	24.8	12.7	13.9	12.8	13.0	56.3	1.3	y
2021	144.6	10.8	109.8	32.9	12.3	14.2	13.2	14.4	61.0	1.3	

Per capita consumption of major foods by Chinese residents from 2013 to 2021. Unit: kg.







**D** The <u>Use</u> Conditions of Basic Farmland Cannot Meet the Needs of Modern Agriculture

**Traditional agriculture** 

Eastern China's rural areas, 2015



Modern agriculture



The average farmland area per household, **0.27 ha** 

The average number of farmland plots per household, 2.38

The average size of each farmland plot, **0.11 ha** 





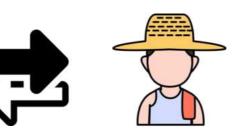


**D** Restrictions on Basic Farmland <u>Conversion</u> Do Not Conform to Market Mechanisms



A use-control system

for basic farmland



Farmers' interests



Grain imports (2020)

 $1.43 \times 10^{11} \text{ kg}$ 





## **Improvements in China's Basic Farmland Protection System**

#### **I** Improving the Basic Farmland Delimitation System

#### Water and land

• North China

water conservation large-scale management

• South China

land conservation brand-based management

#### Supply and demand

Farmland 1.35 × 10<sup>8</sup> hm<sup>2</sup>



Forestland

 $2.53 \times 10^8 \,\mathrm{hm^2}$ 

Market demand

#### **Functions**

- grain production
- microclimate regulation
- entertainment for residents



PLATINUM SPONSOR



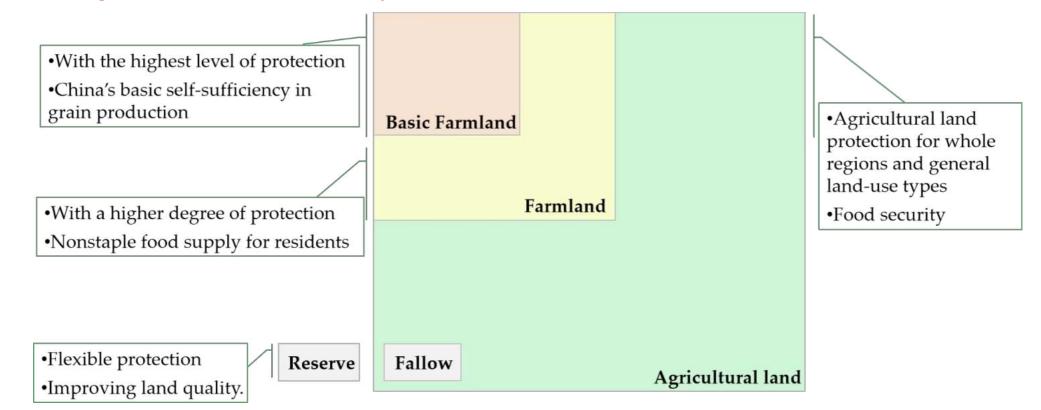
Strimble.





#### FIG Norking Week 2024 19-24 May Vour World, Our World: Accra, Ghana Vour World, Our World: Accra, Ghana

#### **D** Establishing a Classified Protection System for Basic Farmland





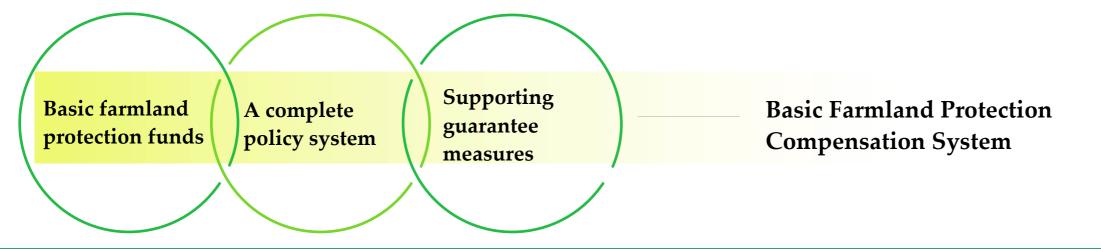


#### Your World, Our World: FIG Working Week 2024 Vour World, Our World Resilient Environment and Sustainable and Sustainable 19-24 May Resource Management Accra, Ghana Resour

Strengthening the Basic Farmland Protection Compensation System



Basic farmland use regulation  $\sqrt{3}$  Development rights of farmers









#### FIG Working Week 2024 Resilient Environment and Sustainable 19-24 May Accra, Ghana Resou

Your World, Our World: Resource Management

SUSTAINABLE G ALS International Federation of Surveyors supports the Sustainable Development Goals

# **Commission 8**

**Spatial Planning and Development** 

#### Serving Society for the Benefit of People and Planet









