

FIG WORKING WEEK 2017

Shaping the world of tomorrow -

Helsinki Finland 29 May - 2 June 2017

From digitalisation to augmented reality

*Presented at the FIG Working Week 2017,
May 29 - June 2, 2017 in Helsinki, Finland*

1996 – 2009 Analysis of China's Arable land Resources

Yanxia lu Rosy

China land surveying and planning
institute



Platinum Sponsors:





FIG WORKING WEEK 2017

Surveying the world of tomorrow -

Helsinki Finland 29 May - 2 June 2017

From digitalisation to augmented reality

Why does China implement a strict arable land protection system?

How to do?



Platinum Sponsors:





FIG WORKING WEEK 2017

Surveying the world of tomorrow -

Helsinki Finland 29 May - 2 June 2017

From digitalisation to augmented reality

1. Less per capita arable land.

- China's arable land accounts for about 7% of the world, but China's population accounts for about 20% of the world's population;
- Per capita arable land is only 0.1 hectares, about 43% of the world's per capita arable land;
- China's strict arable land protection system is of great significance to China and the world's food security.



Platinum Sponsors:





FIG WORKING WEEK 2017

Surveying the world of tomorrow -

Helsinki Finland 29 May - 2 June 2017

From digitalisation to augmented reality

2. Arable land is the most important survival guarantee for Chinese farmers.

- Chinese farmers' social security level is very low, the pension is insufficient to maintain a basic living, the current minimum standard is only \$ 200 per year.
- Maintaining farming can guarantee the basic livelihood of farmers.



Platinum Sponsors:



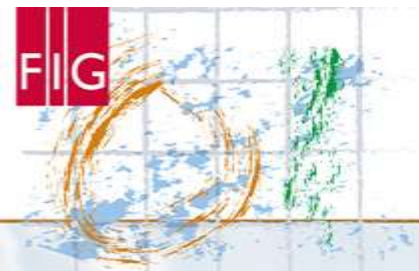


FIG WORKING WEEK 2017

Surveying the world of tomorrow -

Helsinki Finland 29 May - 2 June 2017

From digitalisation to augmented reality

3. There is sustained pressure that Arable land's occupied by the construction.

- In the rapid development of China's economy, one half of urban expansion is occupied by high-quality arable land.
- From 1996--2009 analysis of arable Land change: China's southeastern region is the fastest growing region of China's economy, due to construction occupancy, paddy fields and other high-quality arable land reduce a lot.
- More details in paper 9136.



Platinum Sponsors:



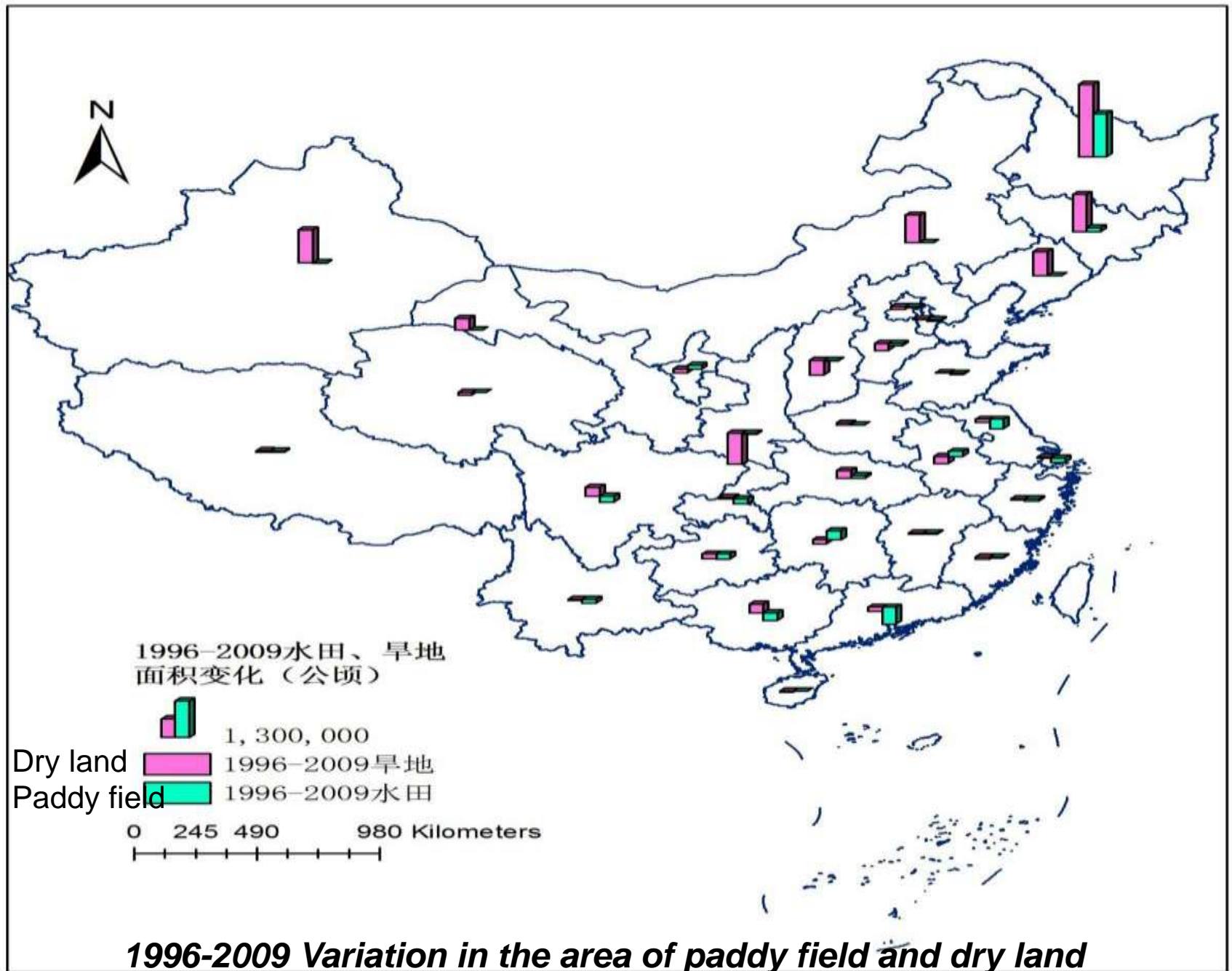




FIG WORKING WEEK 2017

Surveying the world of tomorrow -

Helsinki Finland 29 May - 2 June 2017

From digitalisation to augmented reality

- China is still in the process of rapid development, about 1.4 million hectares of arable land are expected to be occupied in the next five years.
- How to do?



Platinum Sponsors:



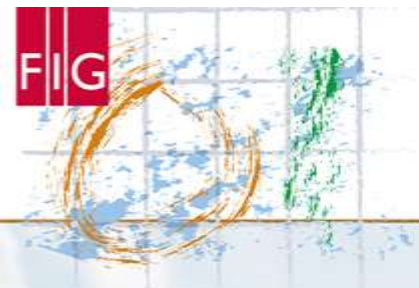


FIG WORKING WEEK 2017

Surveying the world of tomorrow -

Helsinki Finland 29 May - 2 June 2017

From digitalisation to augmented reality

1. Strict control of arable land to construction land.

- Specific measures include:
- Through the overall planning of land use to clear arable land protection area, urban construction land development area;
- Through the annual land use plan to control the number and speed of the conversion of arable land into construction land;



Platinum Sponsors:





FIG WORKING WEEK 2017

Surveying the world of tomorrow -

Helsinki Finland 29 May - 2 June 2017

From digitalisation to augmented reality

- The conversion of arable Land into construction land examination and approval by the provincial and national;
- Plan to develop unused land or other agricultural land to increase the arable land to ensure that the total amount of arable land is not reduced.
- Occupy arable land must pay high economic costs.



Platinum Sponsors:





FIG WORKING WEEK 2017

Surveying the world of tomorrow -

Helsinki Finland 29 May - 2 June 2017

From digitalisation to augmented reality

2. Improve the agricultural production conditions of arable land.

- In accordance with relevant national planning, 40% of the arable land will be built high quality arable land by 2020.
- \$4600 will be invested in each hectare of medium and low-yield field in a view to improvement in agricultural production conditions. Funds from the construction of occupied arable land to pay the cost.



Platinum Sponsors:



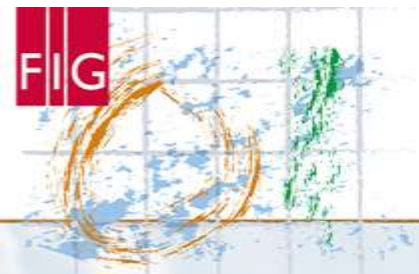


FIG WORKING WEEK 2017

Surveying the world of tomorrow -

Helsinki Finland 29 May - 2 June 2017

From digitalisation to augmented reality

3. Establish incentive mechanism for arable land protection.

- In general, the arable land into construction land, can get more income.
- In order to mobilize the enthusiasm to protect arable land, national began to increase the financial support to the regions undertaking the protection task of arable land; some local government have begun to explore various forms of incentive compensation for farmers' collective.



Platinum Sponsors:





FIG WORKING WEEK 2017

Surveying the world of tomorrow -

Helsinki Finland 29 May - 2 June 2017

From digitalisation to augmented reality

- Thank you for listening!
- luyanxia@mail.clspi.org



Platinum Sponsors:

