



第2届亚太地区可持续农业机械化论坛

中国农机社会化服务的现状与对策

农业部农业机械化管理局 李斯华

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中国农机社会化服务的现状与对策

The Status and Strategy on China's Custom Hiring of Agricultural Machinery

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The 2nd Regional Forum on Sustainable Agricultural Mechanization

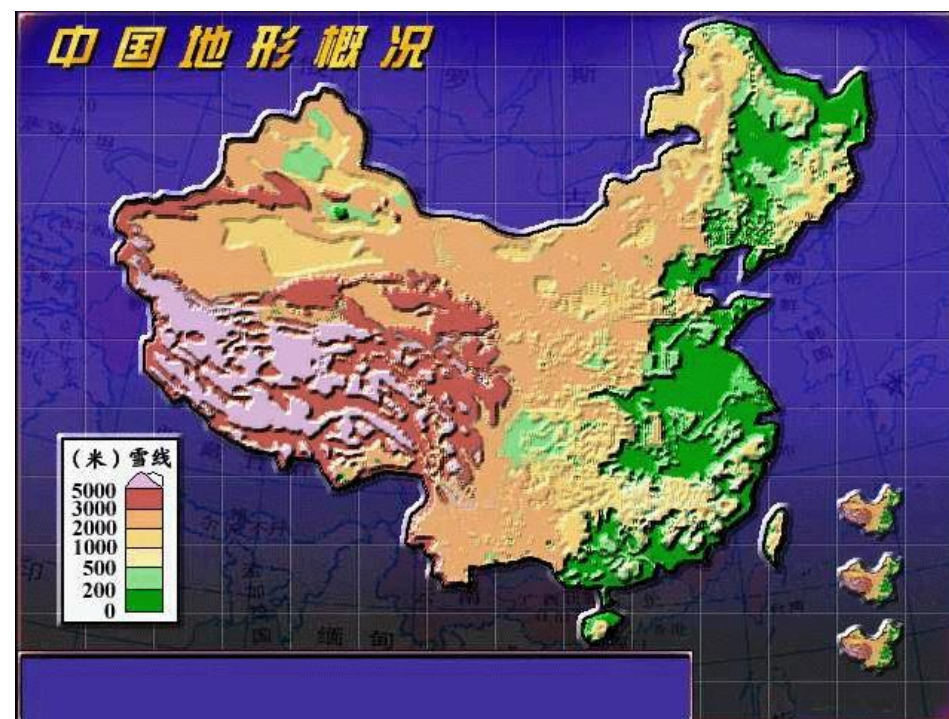
**In Asia and the Pacific of CSAM
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outlines

- ◆ 1. Achievements
- ◆ 2. Current status
- ◆ 3. Supportive policies
- ◆ 4. significance
- ◆ 5. Challenges
- ◆ 6. Strategies



1. 中国农业和农业机械化的成就



The achievements of China's agriculture

“ China is a large agriculture-based country

121.7 million hectares of farmland, 3th in the world.

“ China is also a populous nation

1.35 billion people, 1st in the world.

“ China has contributed to a remarkable achievement

60.2 million metric tons, a total crop production of in 2013 .
grain output increase for 10 consecutive years.

“ China has also made significant contribution to global food security

feeding over 20% of the world's population with less than 10% of the world's farmland.



1. 中国农业和农业机械化的成就



The achievements of China's agricultural mechanization

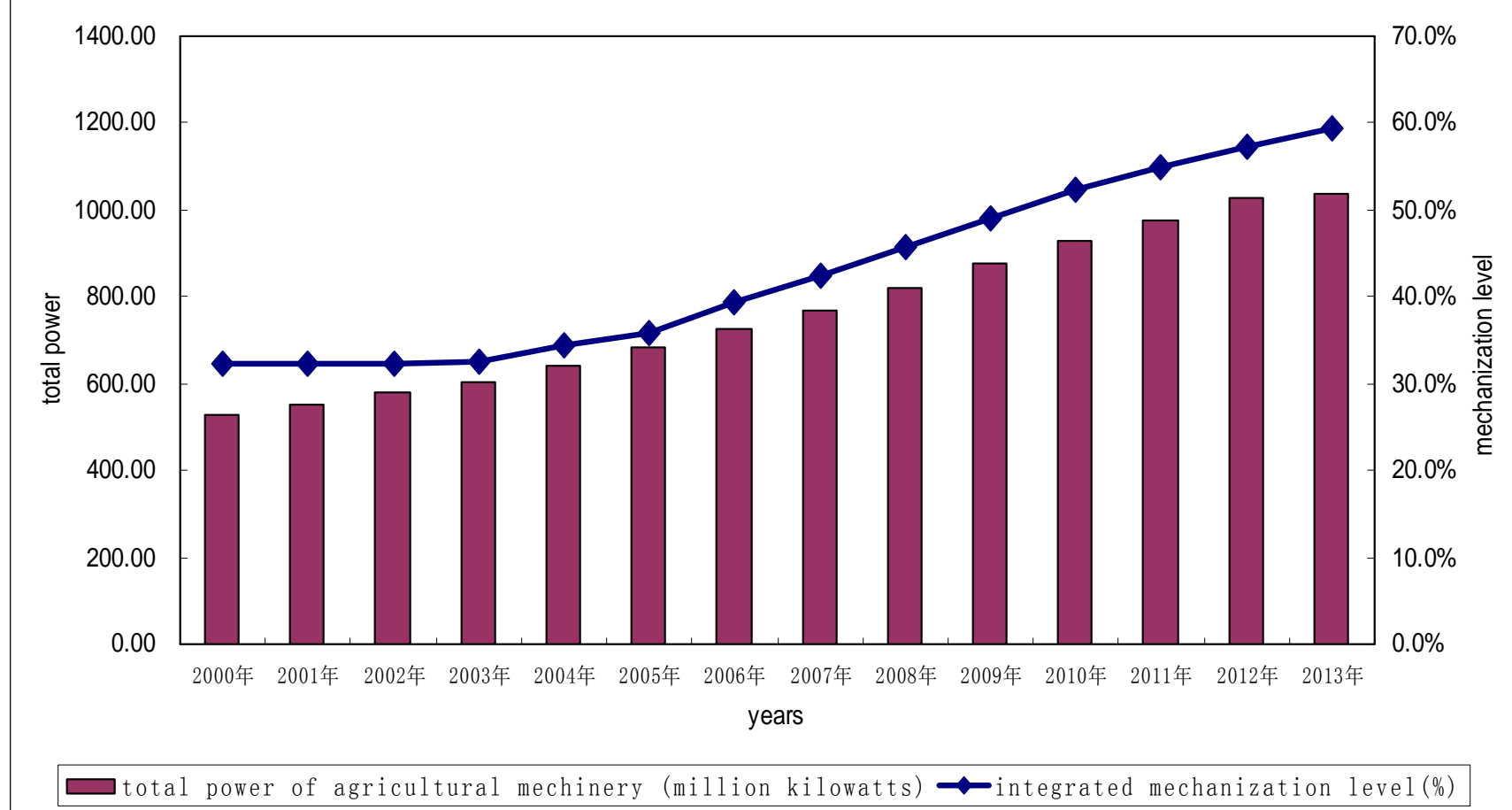
- “ As is commonly quoted, science and technology are principal productive forces.
- “ Without the support from advanced agricultural technologies and equipments, it would have been impossible to be where we are in food production.
- “ Agricultural mechanization is what made modern agriculture possible.



1. 中国农业和农业机械化的成就



2000-2013 China's agricultural mechanization



1. 中国农业和农业机械化的成就



China's agricultural mechanization development in 2013

item	Integrated Mechanization level (plowing, sowing, and harvesting)	mechanical plowing	Mechanical sowing	Mechanical harvesting
Crops	59.5%	76.0%	48.8%	48.2%
wheat	93.7%	98.9%	86.7%	93.8%
rice	73.1%	95.1%	36.1%	80.9%
maize/ corn	79.8%	97.7%	84.1%	51.6%



1. 中国农业和农业机械化的成就



China's agricultural mechanization

2004-2013: golden decade

- “ The growth of passed 10 years is equivalent to the sum of the previous 35 years.
- “ Agricultural machinery has taken on a major role in boosting Chinese food production.
- “ China's agricultural production has witnessed a historic change from reliance on manpower and animal power to mechanization.



2. 中国农机社会化服务发展现状



Custom hiring began at 1979

- “ Before 1979, China’s rural farmland and farm machinery were collectively owned. Custom hiring is impossible.
- “ After 1979, China began the reform of household contract responsibility system.
- “ This reform laid the foundation for the custom hiring of farm machinery in China, and custom hiring organizations and households began flourishing.



2. 中国农机社会化服务发展现状



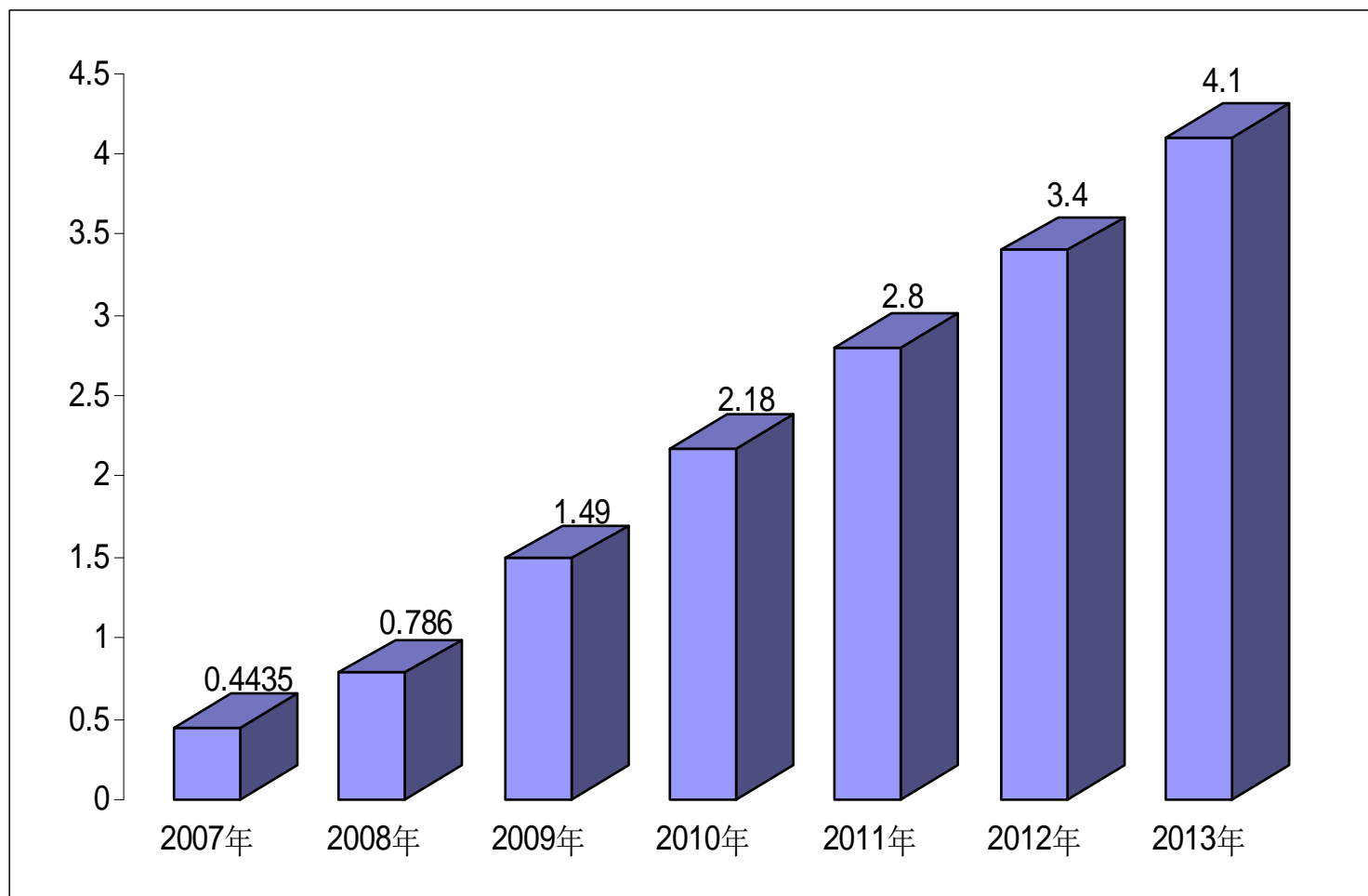
Current status of custom hiring of farm machinery

- “ Nowadays, many Chinese rural households purchase farm machines not only to care for their own fields, but also for custom hiring.
- “ 42 million are farm machine owners, 15.8% of the total rural households; the total operating income of farm machinery-owning households reached 430 billion RMB.
- “ Households that make over 60% of their total income out of custom hiring services are called machinery service-providing households. In 2013, the number of such households reached 5.2 million, 12.3% of the total number of farm machinery-owning households.

2. 中国农机社会化服务发展现状



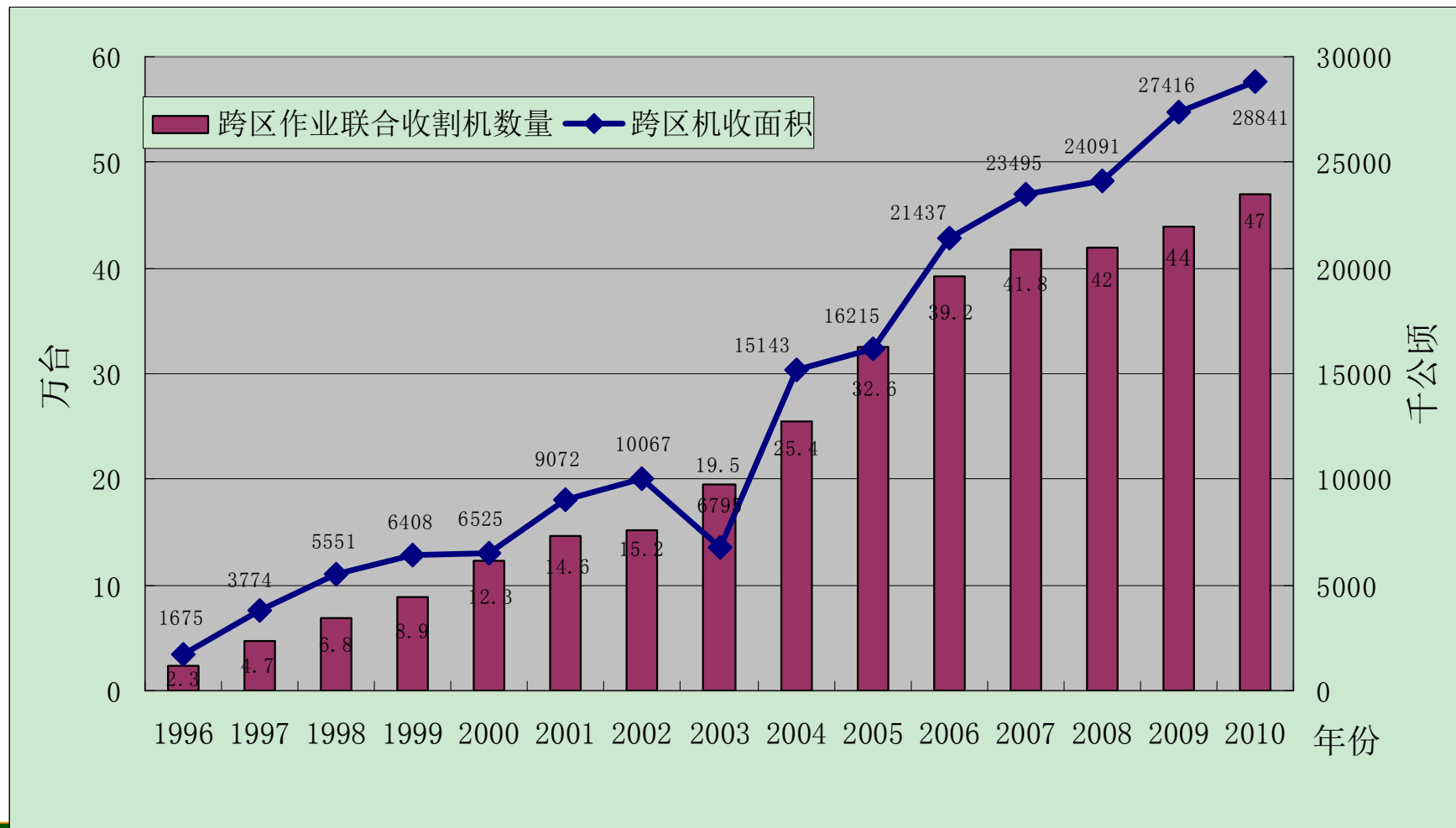
machinery cooperatives were mushrooming



2. 中国农机社会化服务发展现状



cross-region machinery operation



2. 中国农机社会化服务发展现状



Farmland supported by cross-region machinery operation from 2012 to 2013

Item	2013	2012	Growth
national land area of cross-region machinery operation	36.7	34.3	7.1%
1.Cross-region machinery plowed land	6.7	5.7	17.6%
2.cross-region machinery sowed land	3.0	2.6	19.6%
3.Cross-region machinery harvested land	26.0	24.9	4.2%
Among which, wheat harvested	14.4	14.2	1.9%
Rice harvested	7.7	7.4	3.6%
Corn harvested	3.2	2.7	18.5%

million hectares

3. 中国农机社会化服务扶持措施



China's supportive policies for custom hiring of agricultural machinery

- “ To develop custom hiring of machinery, we need the guiding role of the market and the pushing role of the government.
- “ The market and the government are like the two rows of wheels on a tractor--only when the front wheels are pulling and the rear ones pushing at the same time can the tractor proceed safe and fast.



DFH tractor made in China Powered by DITrade.com



3. 中国农机社会化服务扶持措施



supportive policies of custom hiring

- “(1) **Laws and regulations** on agricultural machinery has been promulgated.
- “ In 2004 *the Law on Promoting Agricultural Mechanization of the People's Republic of China* was implemented;
- “ in 2010 the State Council released document *the Opinion on Promoting Sound and Fast Development of Agricultural Mechanization and Agricultural Machinery Industry*.

“More than 30 provincial governments introduced **local regulations** on promoting agricultural machinery custom hiring.



3. 中国农机社会化服务扶持措施



supportive policies of custom hiring

- “(2) **Subsidies** for agricultural machinery purchase have been implemented.
- “ Since 2004 the central government has been establishing a special fund for subsidizing farmers who purchase agricultural machinery. The subsidies for one unit of machinery are 15% to 30% of the sales price.
- “ Annual subsidies rose quickly.
From 70 million RMB in 2004 to 23,750 million RMB in 2014.
The accumulative subsidies reached nearly 120 billion RMB.
- “ The subsidy policy has significantly promoted farmers willingness to purchase machinery, and custom hiring.



3. 中国农机社会化服务扶持措施



supportive policies of custom hiring

- “(3) **Taxation** on agricultural machinery operation has been reduced or exempted.
- “ In 1997, six ministries jointly issued a notice, demanding relevant government agencies to ensure good organization, management and service concerning cross-region mechanized wheat harvesting; and the toll-free policy for combine harvesters working cross-regionally was introduced.
- “ This toll-free policy has saved the machinery service-providing households tolls worth over 100 million RMB annually.



3. 中国农机社会化服务扶持措施



supportive policies of custom hiring

- “ Since 2008,
the government exempted
mechanized plowing and
other service items from
business tax,
and agricultural machinery
operation and maintenance,
etc., from corporate
income tax.



4. 中国农机社会化服务重要作用



The significance of custom hiring of agricultural machinery to China

- “ By custom hiring of machinery, the farm machinery-owning households could reduce unnecessary purchase and promote shared use.
- “ It could increase the utilization rate of machinery and farmers' income on the one hand, and meet the others strong desire for mechanized operation on the other hand, realizing a win-win solution.
- “ It could eliminate the conflict between small-scale household operation and large-scale mechanized production, charging a way of China-specific agricultural mechanization.



5. 中国农机社会化服务面临困难



Challenges that China faces in promoting custom hiring of agricultural machinery

- “ Custom hiring is not to be applied in more fields of agricultural production, being limited to farmland operation in the plain areas, hence unable to meet the accelerated development of agricultural modernization.
- “ Machinery service-providing organizations including many machinery cooperatives are weak in general capacity, lacking a sound mechanism and sufficient management talent. A lot of mechanized operation services are segmented.



5. 中国农机社会化服务面临困难



Challenges that China faces in promoting custom hiring of agricultural machinery

- “ The building of infrastructures, such as machinery tracks, garages and shelters, maintenance networks are strikingly lagging behind and resulting obstacles are quite prominent.
- “ Increase in the utilization efficiency of farm machinery is encumbered by the fact that farmland is highly segmented resulting from separate operation and consistently high international fuel prices.



6. 推进农机社会化服务的对策措施



Strategies of custom hiring of agricultural machinery in the future

“ In the *Opinion on Forcefully Promoting Custom Hiring of Agricultural Machinery* released by the Ministry of Agriculture, P. R. China, in October, 2013

“ main objectives till 2020 are laid out: doubling that of 2010.

(1) The number of machinery service-providing households and organizations (over 500,000 RMB) in total exceeds 110,000, doubling the number of 2010.

中华人民共和国农业部
Ministry of Agriculture of the People's Republic of China
信息公开

索引号: 07B110303201310607
信息名称: 农业部关于大力推进农机社会化服务的意见
文号: 农机发〔2013〕3号
生成日期: 2013年10月11日
公开日期: 2013年10月12日
内容概述: 农机社会化服务是农业社会化服务的重要内容。为贯彻党的十八大和今年中央1号文件关于“创新农业生产经营体制、构建农业社会化服务体系，现就推进农机社会化服务提出以下意见。”

农业部关于大力推进农机社会化服务的意见

农业部关于大力推进农机社会化服务的意见

各省、自治区、直辖市及计划单列市农机（农业、农牧）局（厅、委、办），新疆生产建设兵团农业局，黑龙江省农垦总局：

农机社会化服务是农业社会化服务的重要内容。为贯彻党的十八大和今年中央1号文件关于“创新农业生产经营体制、构建农业社会化服务新机制”的部署，现就推进农机社会化服务提出以下意见。

(2) to Raise the profits earned from machinery service. The total profits earned exceeds 800 billion RMB, doubling that of 2010.



6. 推进农机社会化服务的对策措施



(1) Soliciting more policy support

- The current machinery purchase subsidy policy will continue and help machinery service-providing households and organizations in particular.
- Active efforts will be made to introduce machinery operation subsidy policy and the other supportive policy.



6. 推进农机社会化服务的对策措施



(2) Fostering more market players

- -Machinery service-providing households and farmers will be guided and encouraged to form new service organizations such as machinery cooperatives
- -The establishment of machinery share-holding companies and machinery lease companies will be actively promoted.
- -Talent cultivation in the field of machinery custom hiring will be strengthened, aiming at bringing more competent machinery operators and professional managers.



6. 推进农机社会化服务的对策措施



(3) Identifying role models.

- Based on the progressive successes of custom hiring, role models will be identified. As of 2013, 1,022 machinery cooperatives nationwide are identified by the Ministry of Agriculture
- Continued efforts will be put to brand establishment, including promoting the use of %China Agricultural Machinery Cooperative+logo.



6. 推进农机社会化服务的对策措施



(4) Enhancing information service

- Modern information technologies and equipments can serve for the collection, statistics and analysis of the supply and demand dynamics and operation pricing of custom hiring.
- We has set up an on-line information express of farm machinery cross-region operation+
- We will create a mobile application of dynamic monitoring and service platform of national agricultural machinery operation+.

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6. 推进农机社会化服务的对策措施



(5) Improving the market environment

- Codes of conduct and technology standards on custom hiring of agricultural machinery shall be established, so will be the service quality complaint and monitoring system.
- A custom hiring credit system, credit grading and service capability assessment will be encouraged.
- The goal is to establish a unified, open and benignly competitive+ custom hiring market.



the Asia-Pacific region represents the most vigorous and potential region in the world, where agricultural mechanization is gaining increasing momentum as well as strategic significance.

Thank you!

谢谢!

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