The Plant Variety Protection and its Impact in China

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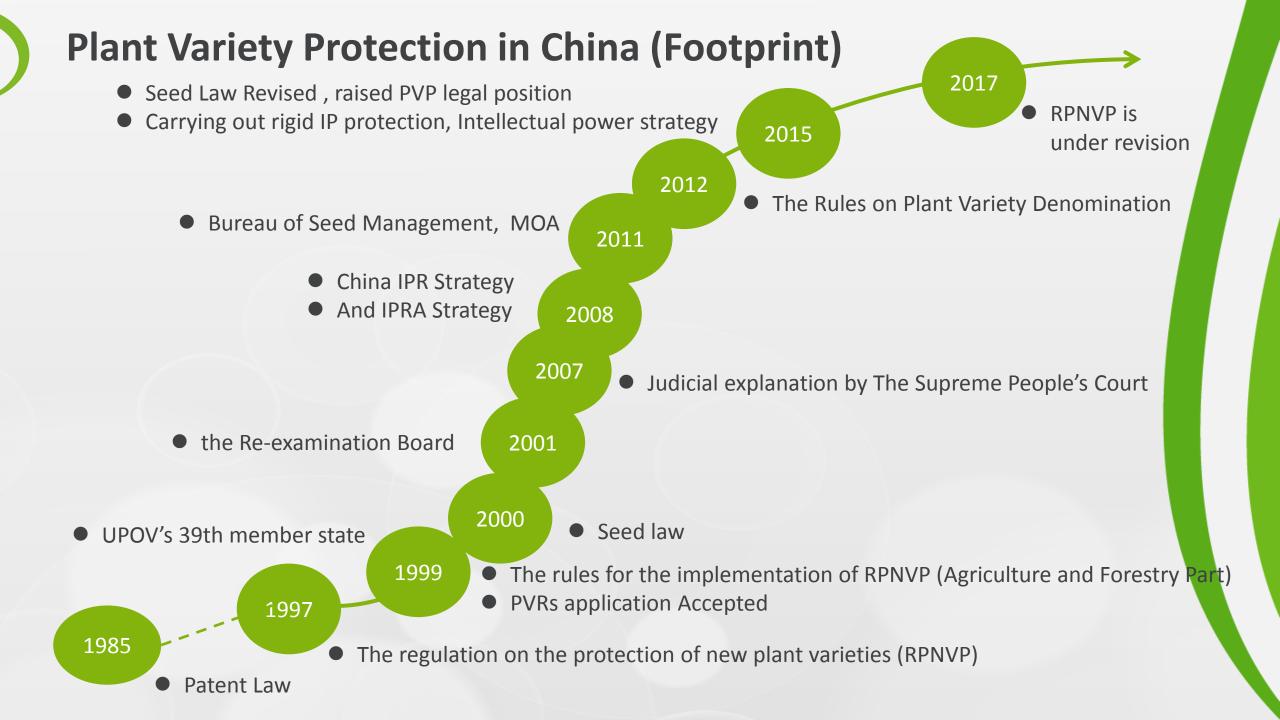
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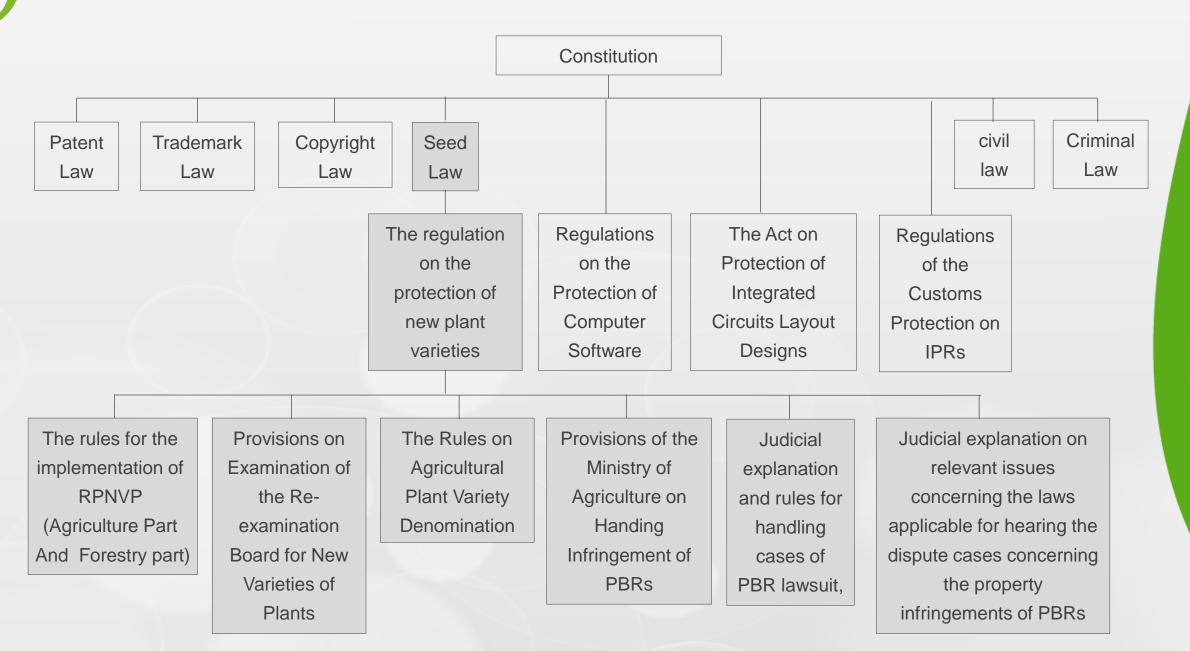
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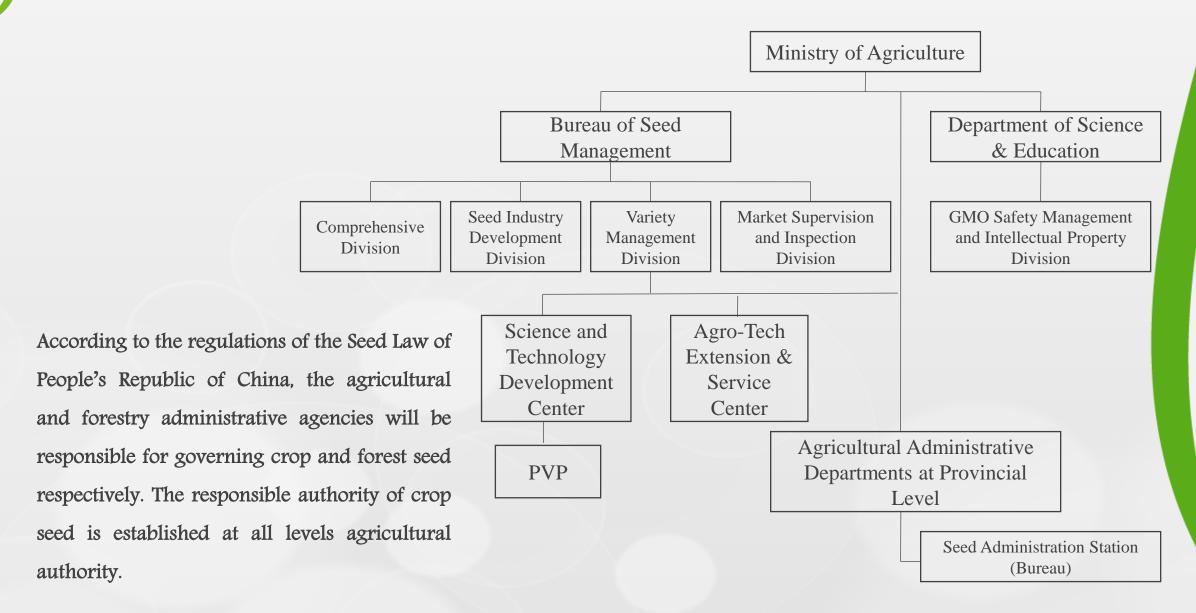
1 Plant Variety Protection in Agriculture in China



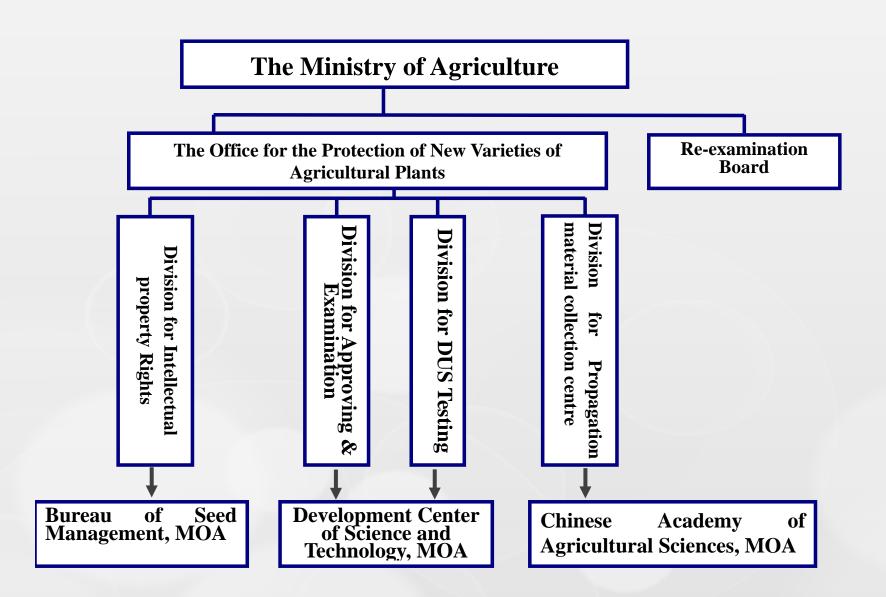
Plant Variety Protection in China (Institutional Framework)



Plant Variety Protection in China(Administration Agencies)



Plant Variety Protection in China(PVP Offices in MOA)



Plant Variety Protection in China(Technical Support system)

The DUS test system consists of 1 centers and 27 DUS test branches

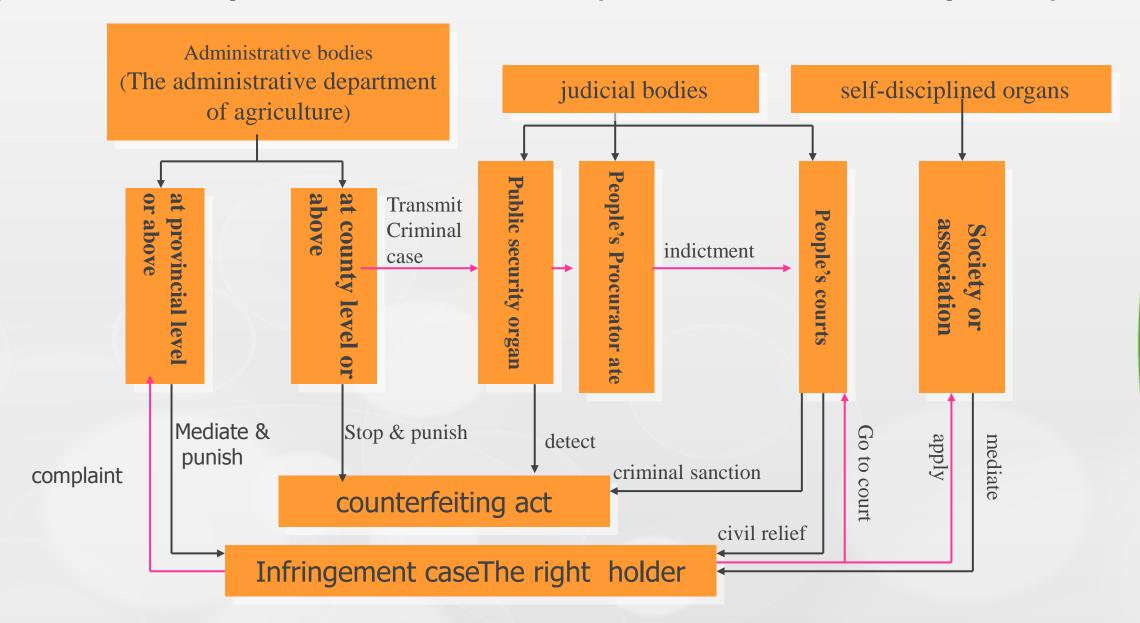


Plant Variety Protection in China (Protect list)

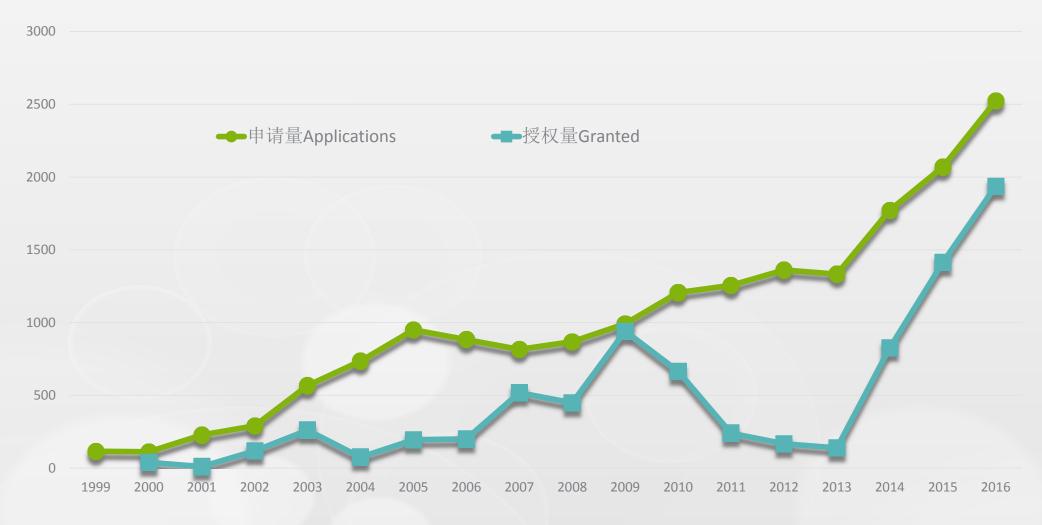
Up to now, the MOA has released 10 batched protection lists of protected agriculture plants including 138 genera or species.



Plant Variety Protection in China(PBR Enforcement System)



Plant Variety Protection in China (Key Statistic Data)



The total amount of PVP applications ran up to 18075 by the end of 2016, the total amount of authorization is 8195. Annual amount of PVP applications is in the 2nd place of the UPOV members for three years.

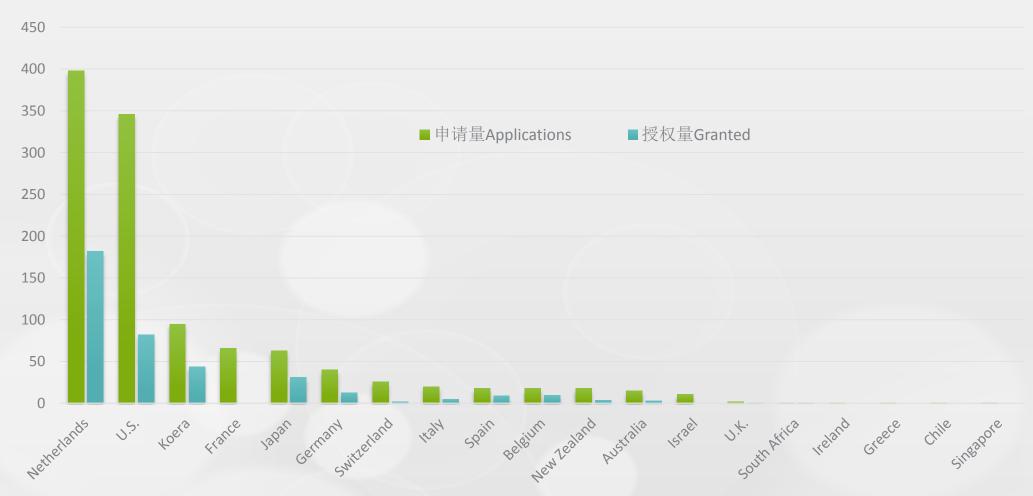
Plant Variety Protection in China (Key Statistic Data)

By the end of 2015, China had applied for 146 PVP abroad, and the amount of authorization is 56.



Plant Variety Protection in China (Key Statistic Data)

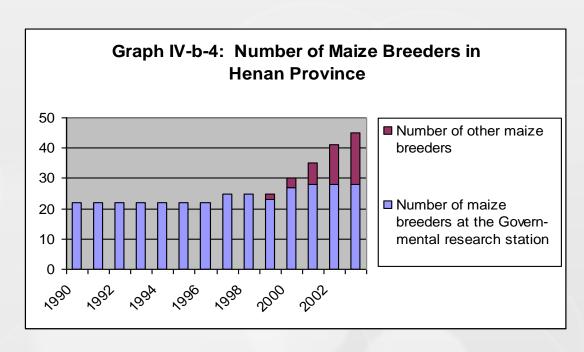
By the end of 2016, there are 1141 PVP applications from 19 countries, including Holland, the United States, South Korea and so on, accounting for 6.30% of the total amount of applications in China. The number of authorization for foreign countries is 387.

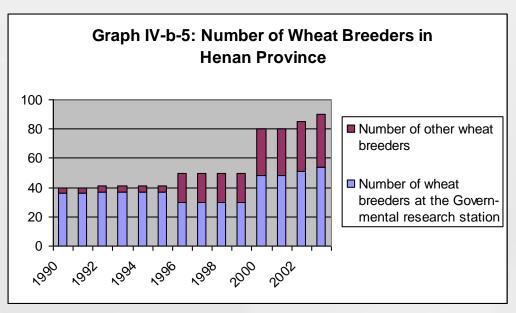


The Impact of Plant Variety Protection in China

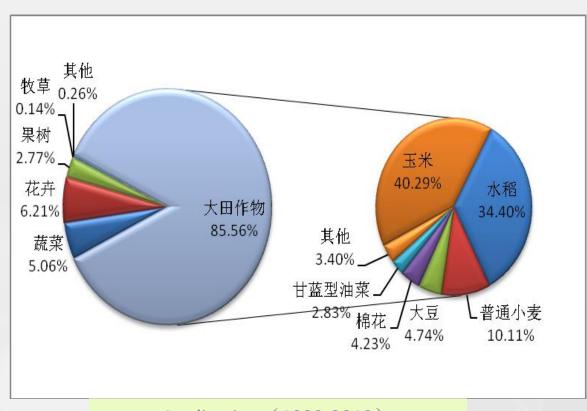
The Impact of PVP in China Increase in the number of Varieties

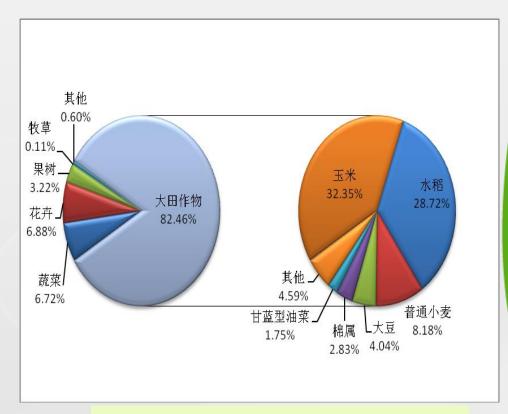
A case study conducted in Henan Province (Central China) showed a clear increase in the numbers of maize and wheat breeders after 1999, the year of the introduction of PVP in China





The Impact of PVP in China Promote the diversification of varieties





Application (1999-2010)

Application (1999-2016)

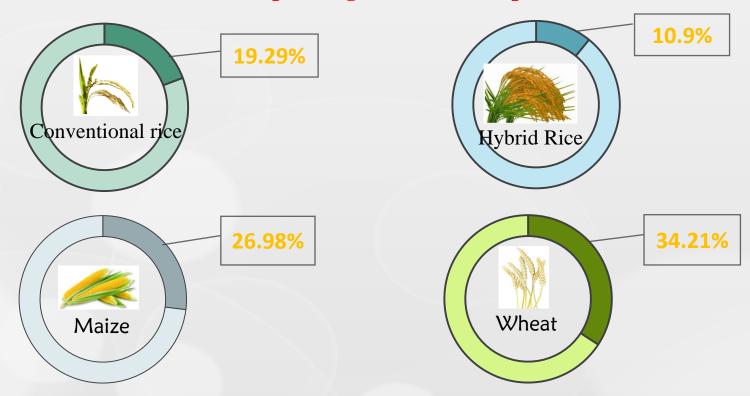
The Impact of PVP in China Stimulate social capital investment

The number of PVP applications by domestic enterprises and individuals began to exceed domestic teaching and research organizations' since 2011. Domestic enterprises have become the main force in the development and application of new varieties of plants.



The Impact of PVP in China Ensure food security

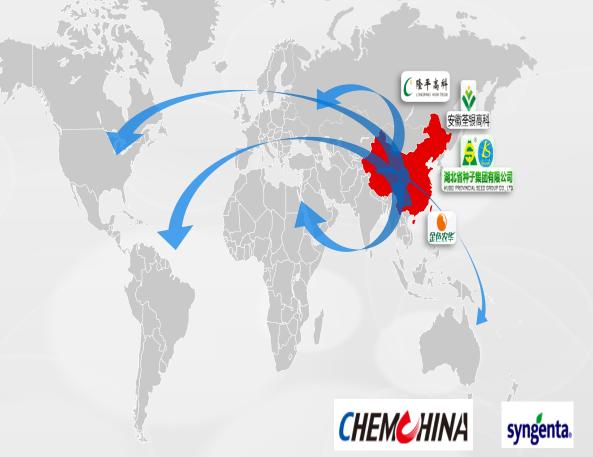
The Percentage of the planting area of TOP10 PVP varieties to total planting area of the crop



The varieties of PVP play an important role in the main crop production of China

The Impact of PVP in China Promote international trade in seeds

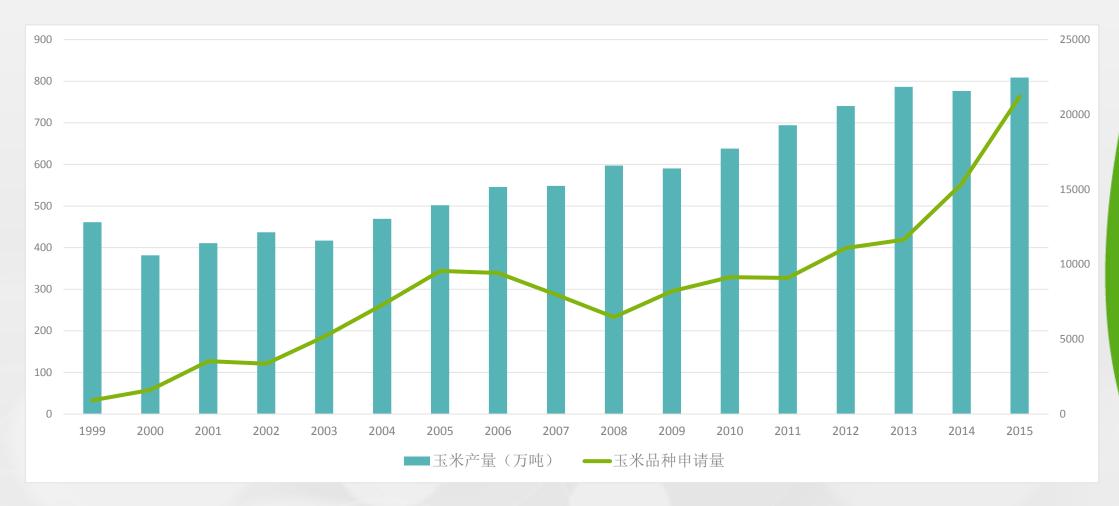
China has established seed trade relations with more than 150 countries and regions in the world, including most developed markets and emerging markets in 3, Asia Europe, Oceania and Africa



Chinese seed exports amounted in 1992 is about \$17 million, and in 2017 is \$88 million when export volume excluding the price factor. The annual average growtherate of seed export volume is 6.43% between 1999 and 2015.



The Impact of PVP in China Increase in productivity and farmer's income



The quantity of maize PVP applications is basically consistent with the trend of maize production

Data from PVP office of MOA

The Impact of PVP in China

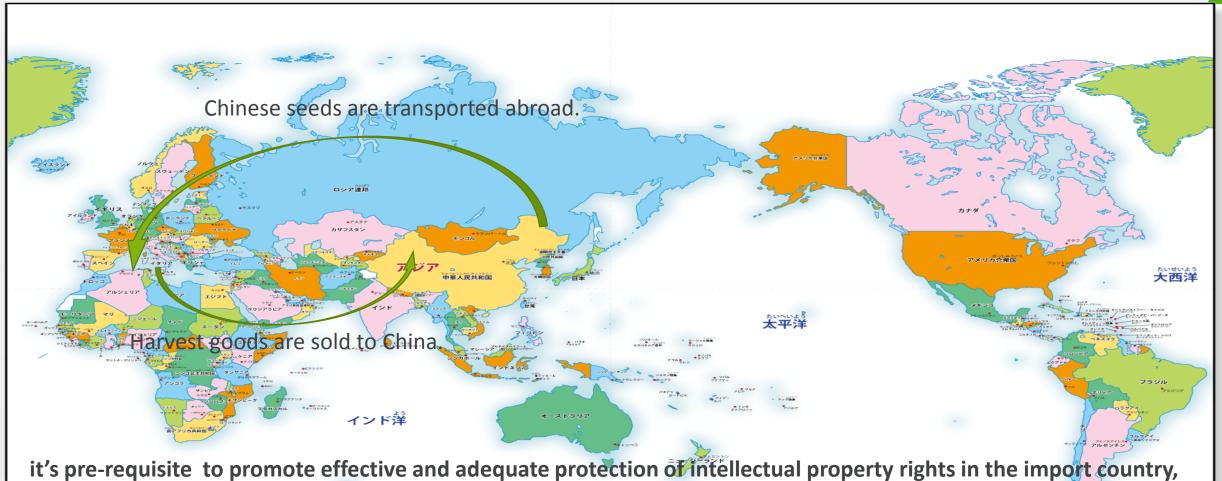
Conclusion

- Consumers: To improve the well-being of life because of new varieties available for consumption, in major staple crops and horticultural crops, including traditional flowers, in particular, introduction of new foreign varieties.
- Farmers: Increase the productivity and income by introduction of both demotic and foreign new varieties;
- Seed industry and agriculture: Stimulate commercial breeding activities and Enhance international competitiveness;
- Society and country: Ensure food security and save public expenditure because of social capital investment in plant breeding.

Overseas Implementation of PVRs What's necessary?

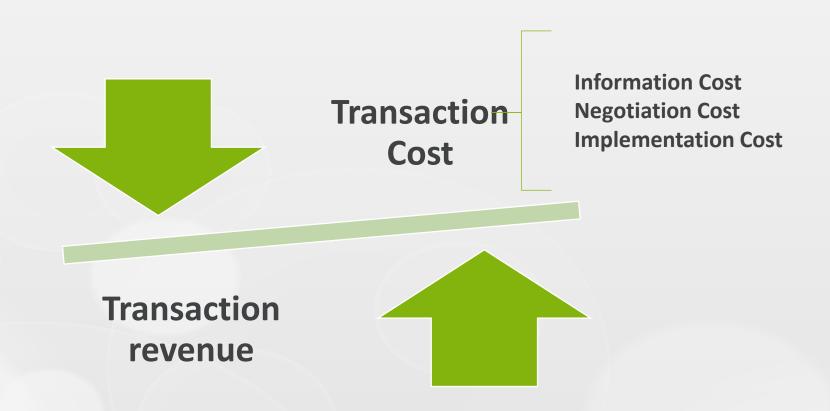
- □ PVRs Import side: Seeds play a central role in agriculture production. A dynamic and viable breeding innovation and seed extension system is crucial to continue the process of crop improvement, and maintain agriculture sustainable development. However, although past accomplishments in seed industry, there are significant differences in develop level among economies. International PVRs and seeds trade has been a major engine driving the agriculture growth and created tangible benefit for both farmers and consumers.
- PVRs Export side: Maximization of research investment interests, Effective means of overseas development, Zero resource and environmental burden compared with commodity trade.

Overseas Implementation of PVRs What's the main obstacles



it's pre-requisite to promote effective and adequate protection of intellectual property rights in the import country, without the protection of plant variety rights in the target country, it will not only lose the overseas market, but also threaten the domestic market.

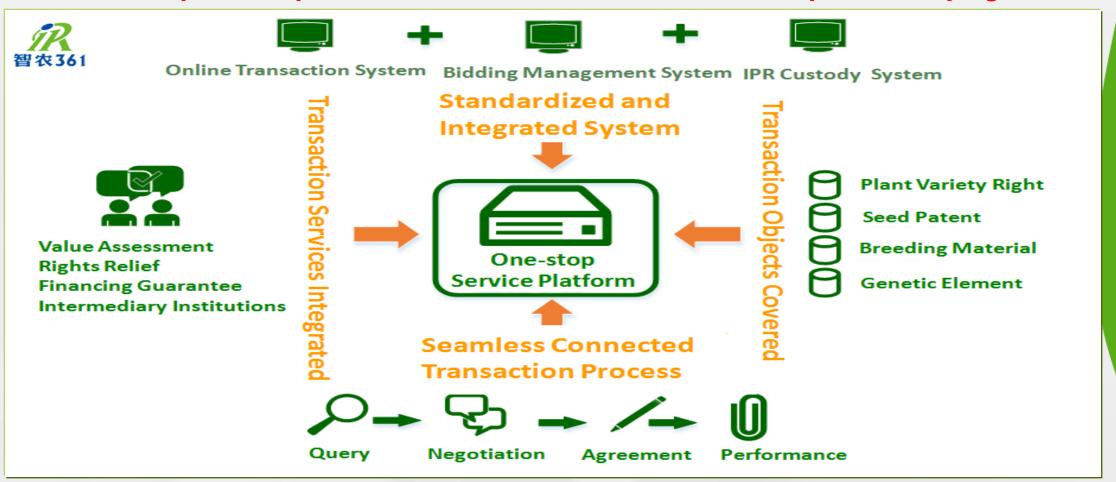
Overseas Implementation of PVRs What's the main obstacles



When transaction cost offset all transaction revenue, there will not be incentive for technical transferors to take part into the transaction

Overseas Implementation of PVRs Our attempt and efforts

One-stop service platform for exhibition and transaction of plant variety rights



Thank you!