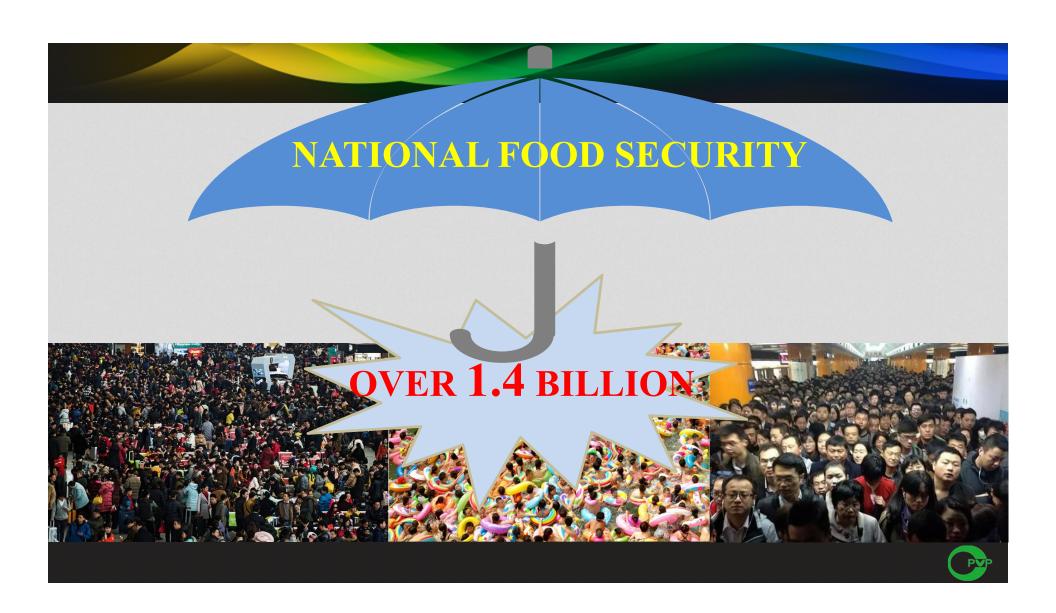


Policies for Seed Industry Promoting Innovation and Development of Plant Breeding in China

Cui Yehan

Ph. D, Professor, Principal Consultant Development Center of Science and Technology Ministry of Agriculture and Rural Affairs, P. R. China







II. Policies Promote Plant Breeding Innovation and Development



III. Outlook



1997



PVP Regulations promulgated



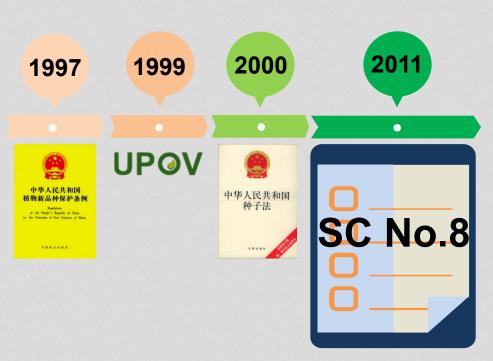


Became the member of UPOV
Started to accept PBR applications



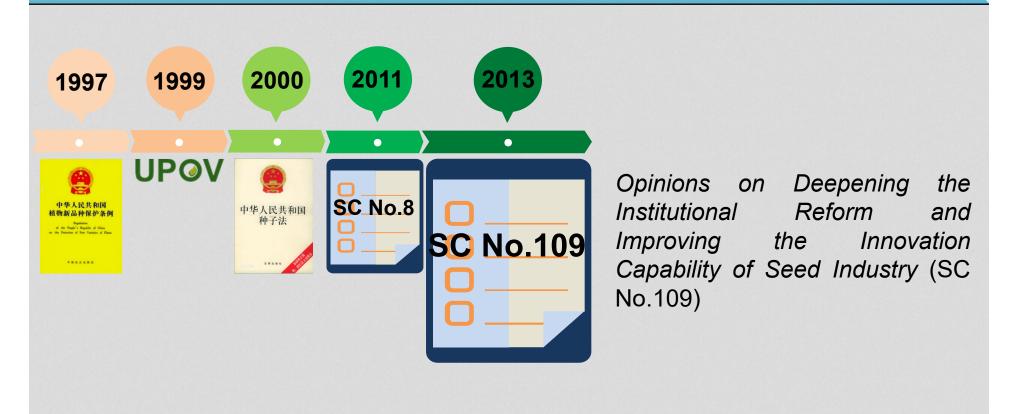
I. Policies and Regulations Concerning the Seed Industry 2015 Seed Law Amended Raised PVP legal 2000 1999 1997 status 中华人民共和国 DUS tests for variety 种子法 management **UPOV** Increased penalties for PBR infringement 中华人民共和国 种子法 Seed Law Enacted



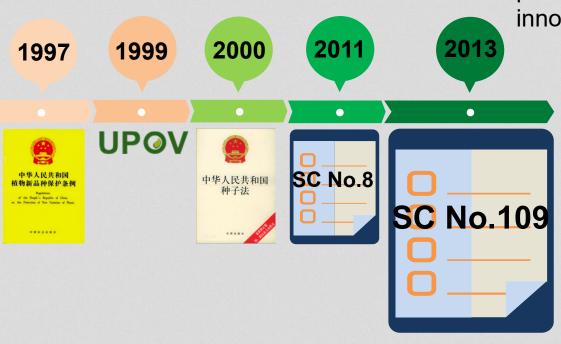


- Opinions on Accelerating the Development of Modern Crop Seed Industry (SC No.8)
- Proposed to establish a modern crop seed industry
- Combined with seed companies, universities and research institutes.





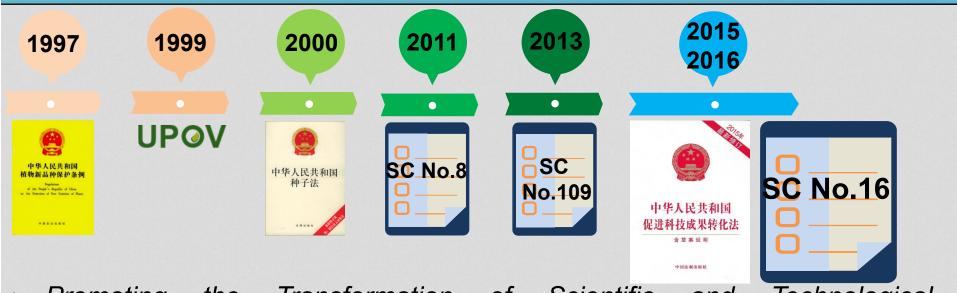




promote enterprises technological innovation

- stimulate the enthusiasm of research personnel
 - enhance government investment
 - Improve the capability of basic public welfare service
 - speed up the building of seed production bases
- tighten seed market supervision





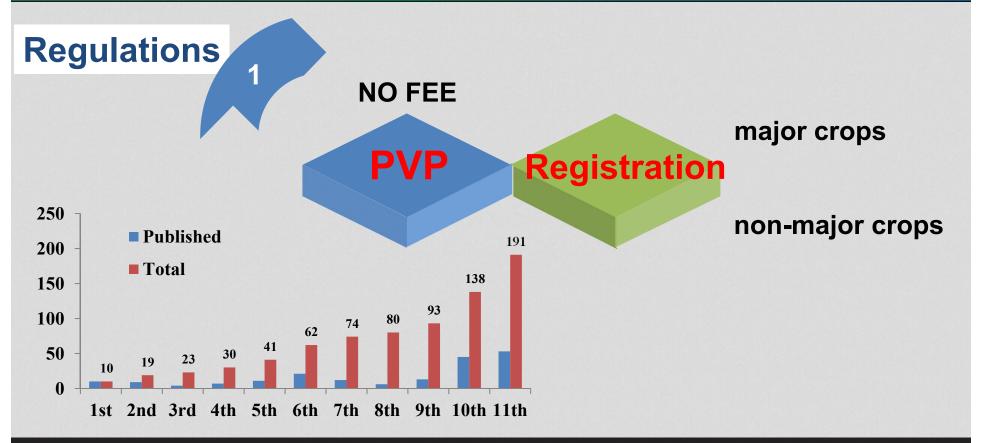
- Promoting the Transformation of Scientific and Technological Achievements Law
- Circular on the Implementation of Certain Provisions of the Law of the People's Republic of China on Promoting the Transformation of Scientific and Technological Achievements (SC No.16)





- Opinions on Strengthening the Protection of Intellectual Property Rights
- strengthen the protection of new plant varieties
- accelerate the procedures for examination and approval









2 Mechanism









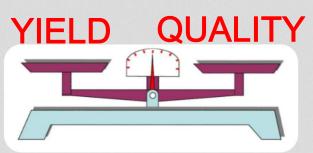






Basic Theoretical Research
Germplasm Resources
Breeding Methods

Technology



Environmentally friendly

Better resistance

Less cultivation

Adapt to mechanization



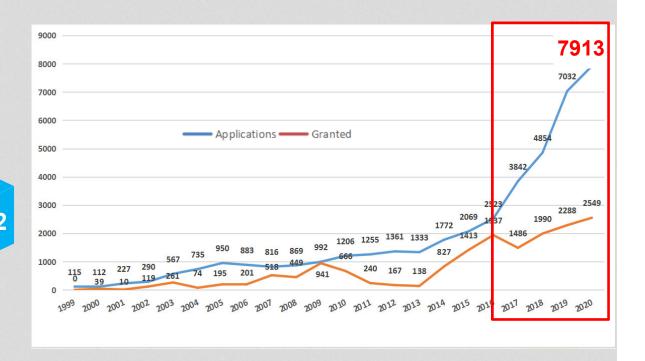




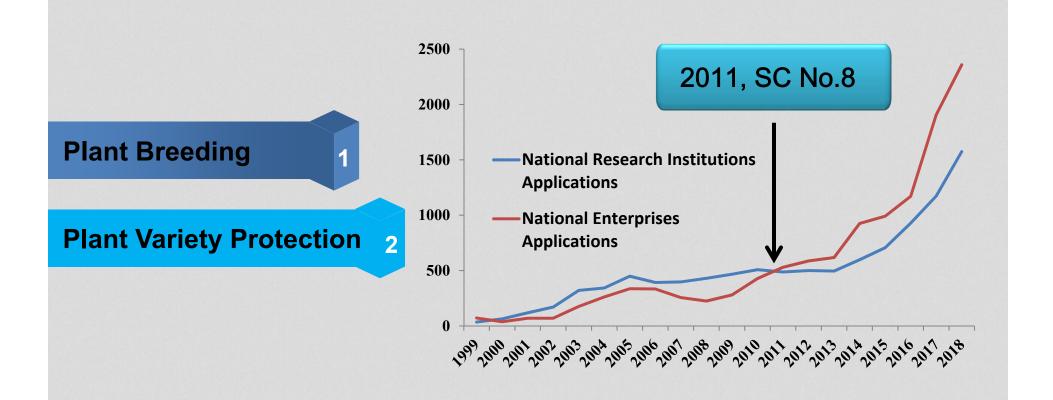


Plant Breeding

Plant Variety Protection









Plant Breeding

1

Plant Variety Protection

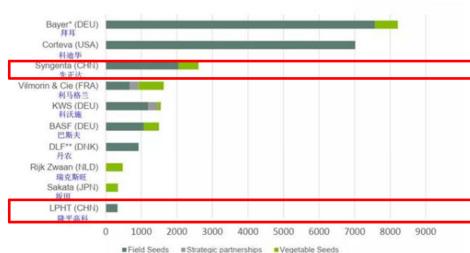
2

Enterprise Development

3



WORLDWIDE COMPETITIVE ENVIRONMENT FOR SEEDS



In M€. Sources: company release and internal est. sales for 2020. Syngenta, LPHT sales for 2019.

Vilmorin & Cie and KWS before IFRS11. Strategic partnerships include 50% of AgReliant and Soltis sales for Vilmorin & Cie and AgReliant and Kenfeng sales for KWS.

*Bayer: field seed sales include soybean, corn and an internal est, of other field seed sales (cotton, rapeseed, wheat, rice & sorghum).

**DLF seed sales restated excluding the vegetable seed multiplication business and the potato business.

Exchange rate: EMT = USD 1.11

MARCH 2021







III. Outlook



Expanding PBR Scope

Establishing EDV System

Increasing Penalties



UPOV 1991 Act

