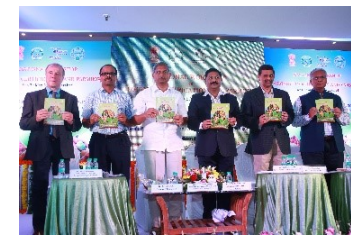


With support from



by decision of the  
German Bundestag



## Indo-German Cooperation on Seed Sector Development

### Harmonizing an Intellectual Property Rights (IPR) Regulatory Regime in Seed Industry

German Project Consulting



# Agenda

With support from



by decision of the  
German Bundestag

- **German plant breeding in key figures**
- **Areas / Steps to Harmonization**
- **Benefit for the main Stakeholder Groups**
- **Harmonization: A tool to create prosperity**

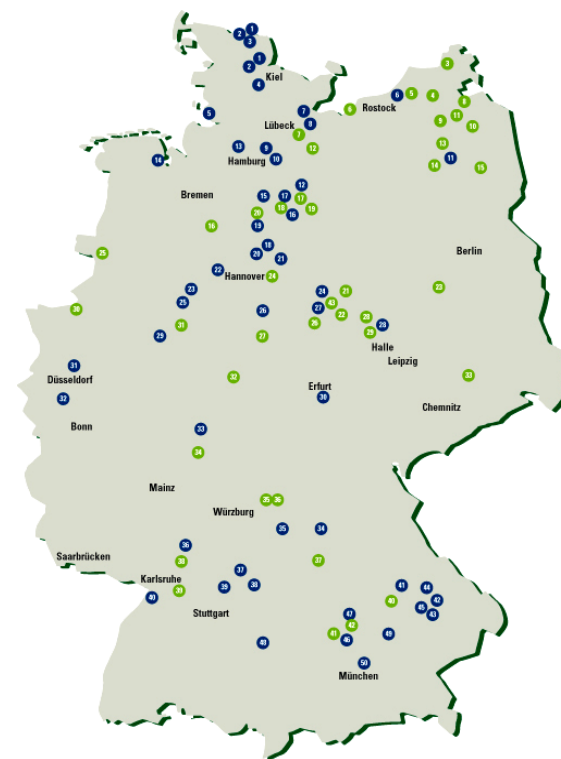
# German Plant Breeding in Key Figures

## Plant breeding companies

- **130** plant breeding and seed trading companies  
(thereof 58 breeding companies with own breeding programmes)
- seed market volume **EUR 900 million**  
(thereof 70.0 % exports)
- **5,773 staff**  
(breeding, excluding seed production)  
thereof 2,364 R&D staff
- **15.1 %** R&D-to-turnover ratio

Green dots = seed merchants

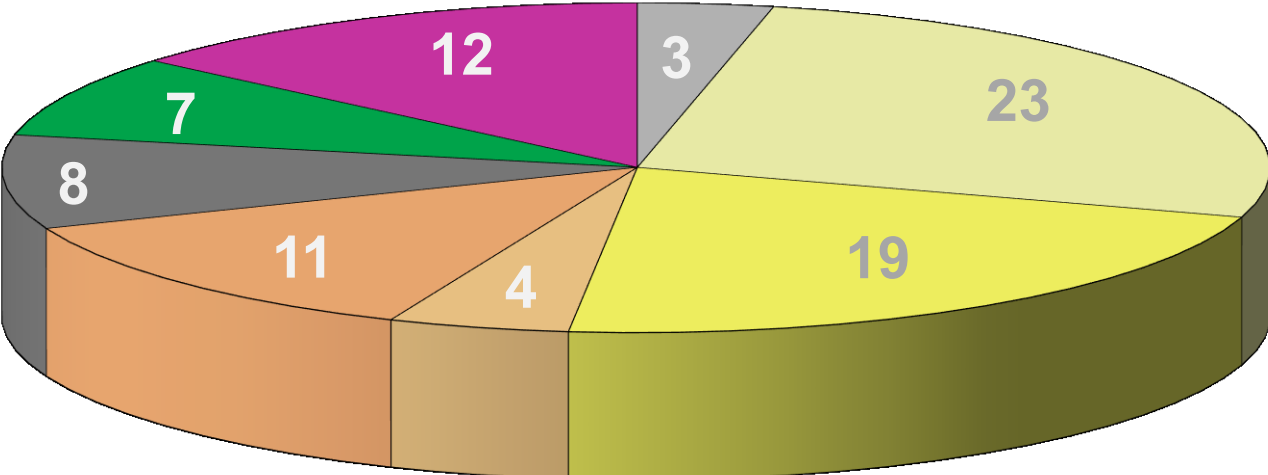
Blue dots = breeding companies



Source: BDP, 2014, quintannual R&D survey

# German Plant Breeding in Key Figures

## Companies per crop



- Sugar Beet
- Cereals
- Oil & Protein Plants
- Fodder Plants
- Maize
- Potatoes
- Vegetables
- Ornamental Plants

*totals > number of active breeding companies due to companies active in multiple crops*

# Areas of Harmonization

- **Harmonization of the Legislation**
  - political discussion
  - political decision
  
- **Harmonization of Technical Schemes**
  - application forms
  - bilingual / multilingual application forms
  - **methods of DUS testing**
    - e.g.: traits, locations, years, sample size, reference varieties, statistical methods, data management etc. ...
  - **digital communication to facilitate access to information**
  - **how to deal with highly adapted very regional varieties ?**

# Harmonized IPR in Seed Business

## Benefit for the main Stakeholder Groups

### ➤ **Breeders**

- easy access to foreign markets
- reducing the administrative burden to register a variety  
e.g.: transfer of certificates
- facilitate the transfer of genetic material across regions and countries

### ➤ **Farmers and Growers**

- improved varieties
- shorter cycles of innovation

### ➤ **Food and Feed Manufacturer**

- traceability
- Flexibility of the supply chain

### ➤ **Consumers**

- traceability
- better, saver and cheaper food

# Harmonized IPR in Seed Business

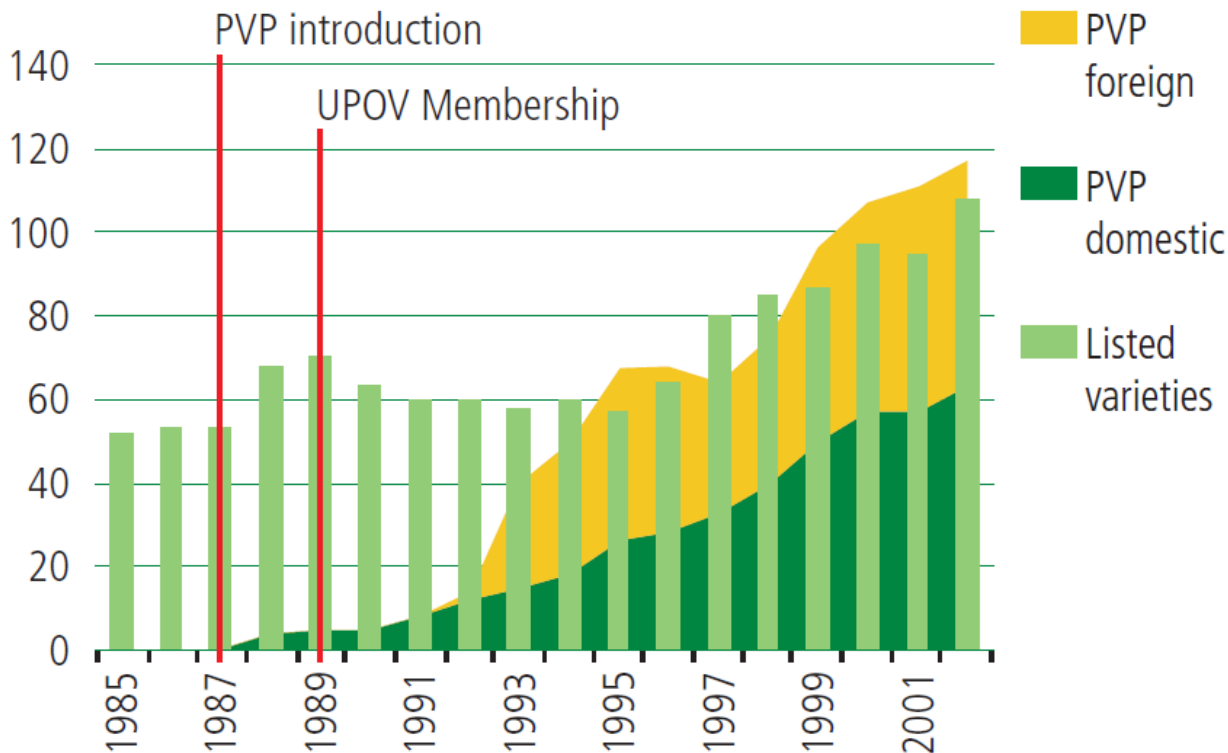
Example: Effect of UPOV membership on listed potato varieties in Poland 1985 to 2003

With support from



by decision of the German Bundestag

Figure 39. Poland: Number of Listed and Protected Potato Varieties

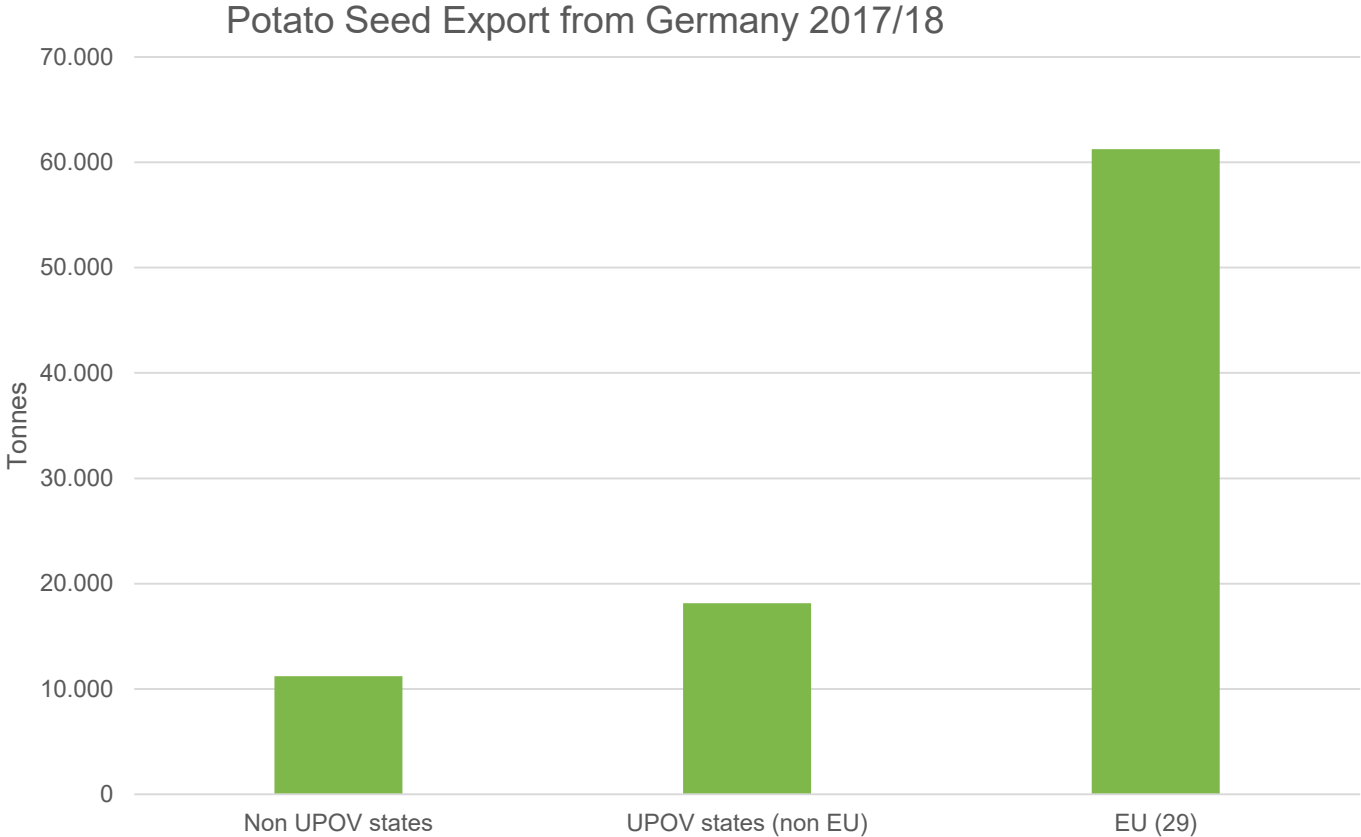




# Harmonized IPR in Seed Business

## Example:

## German export of potato seed to UPOV member states





# Harmonized IPR in Seed Business

## Statement

- Plant breeding contributes significantly to the **yield stability** and quality of plant production.
- Modern innovative plant breeding needs **high investments**.
- Royalty collection systems are necessary to safeguard a **return on investments** in plant breeding.
- UPOV is an approved way to **harmonize IPR** in the seed business.
- Royalty collection systems have to be adjusted to regional conditions. There is **no „one size fits all“**.

# Thank You

With support from



by decision of the  
German Bundestag

