



# Impact PVP on Agriculture in the Netherlands



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# Topics

- 1. Plant Variety Protection – Mission and Vision**
- 2. The Netherlands – some features**
- 3. Plant Breeders Rights and Listing – a broader perspective**
- 4. Variety Testing in the Netherlands**
- 5. The impact of PBR and Listing**
- 6. Conclusions**





# 1. Mission / Vision

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## UPOV Mission statement



"To provide and promote an effective system of plant variety protection, with the aim of encouraging the development of new varieties of plants, for the benefit of society."

## CPVO:



"To deliver and promote an efficient Intellectual Property Rights system that supports the creation of new plant varieties for the benefit of Society".

## Naktuinbouw



Growers - every where in the world - should have access to healthy and reliable planting material of suitable varieties.

## 2. The Netherlands in statistics

Item	Magnitude	Remark
Area	41.528 km <sup>2</sup>	18.41% water
Population	17 million	498 / km <sup>2</sup>
Temperature	2.8 – 17.4 C	January – July
GDP	603 billion €	
Export – Agri	85 billion€	Dairy / meat / flowers / potatoes / seed
Farmers	55.000	Decreasing 3 % / year
Breeders	300	2.5 billion
Agriculture	1.8 million ha	1.2 million ha grasses
Arable crops	500.000 ha	Maize, Wheat, Sugarbeet, Potato
Horticulture	100.000 ha	9.500 ha greenhouses

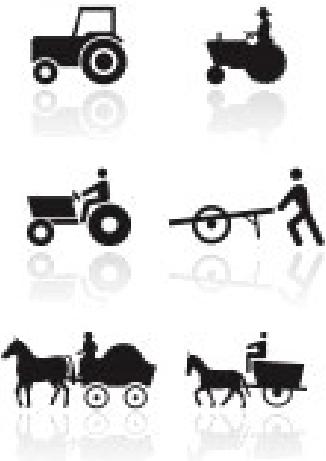




## 2. History of the Dutch system

The Dutch story: From a farmer seed system (informal system) to a formal seed system:

- 1910 – private plant breeding starts (cereals, potato)
- 1924 – 1st National List (70 varieties)
- 1931 – Financial reward for breeders of new varieties
- 1931 – 1940: Study by government: How to organise protection for breeders?
- 1941 – Breeders Decree: Protection for breeders of new varieties
  - First sui generis IP system for breeders of new varieties
  - agricultural species only
  - Breeders compensation Fund
- 1941 – NAKB / NAKG:
- 1947 – NAKS
- 2000 - merger Naktuinbouw



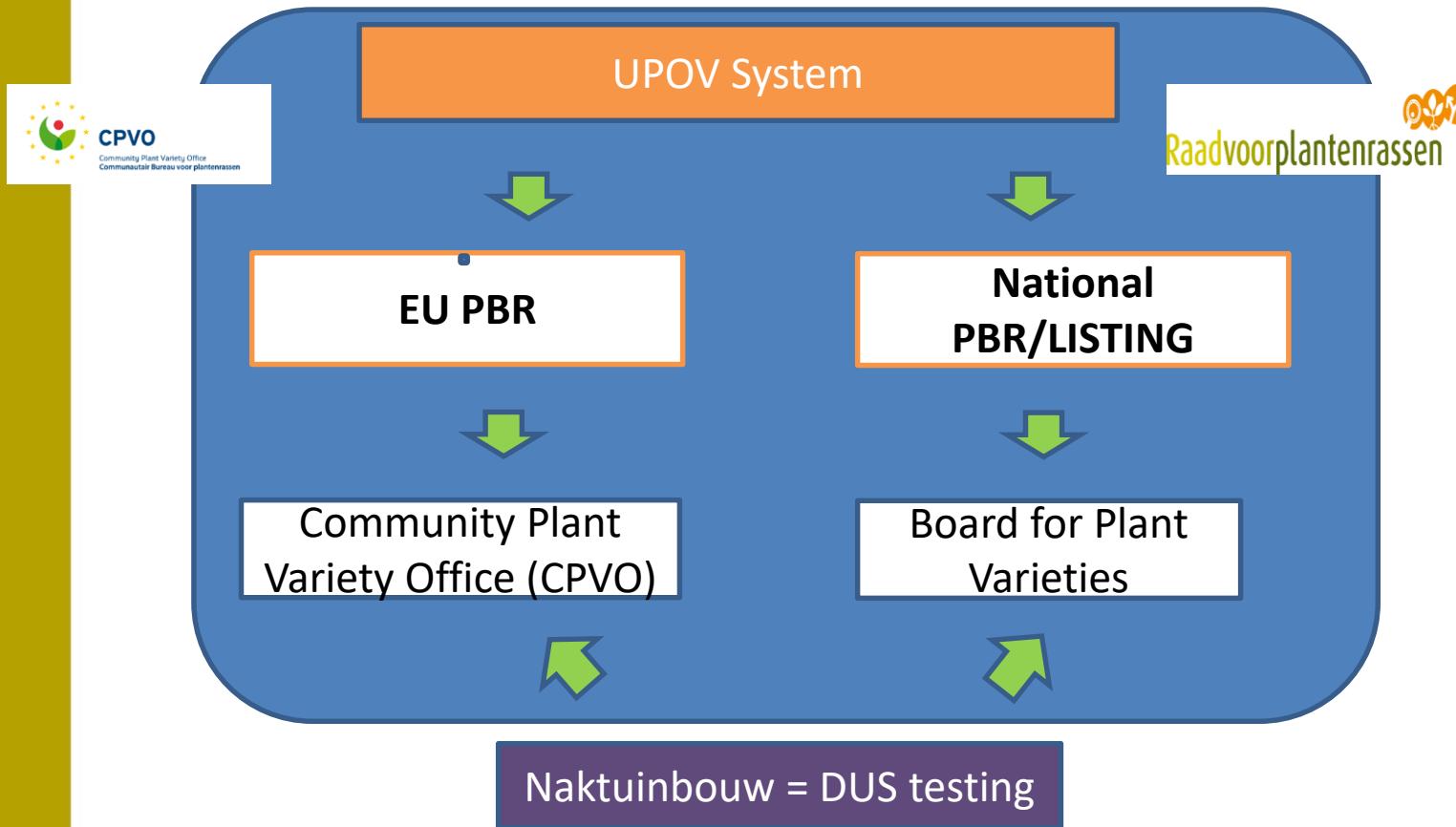
# 3. International perspective

UPOV



		1923 1st Variety List
		1941 Breeders Decree
		1943 (Variety List - official)
UPOV 1961	1966_401 (foddercrops) /402 (cereals)	1967 – Law Seeds Planting Material
UPOV 1978	1972 - EU Catalogues (Vege/Agri)	
UPOV 1991	1994 – EU Plant Breeders Rights (CPVR)	
	1999_105 (Forest)	2000 – Naktuinbouw
	2002_53/54/55/56/57	2005 – New SPM Law
	2008_90 (fruits)	2007 – official Nat List – Voluntary Rec List

# 4. PBR/LISTING in the Netherlands



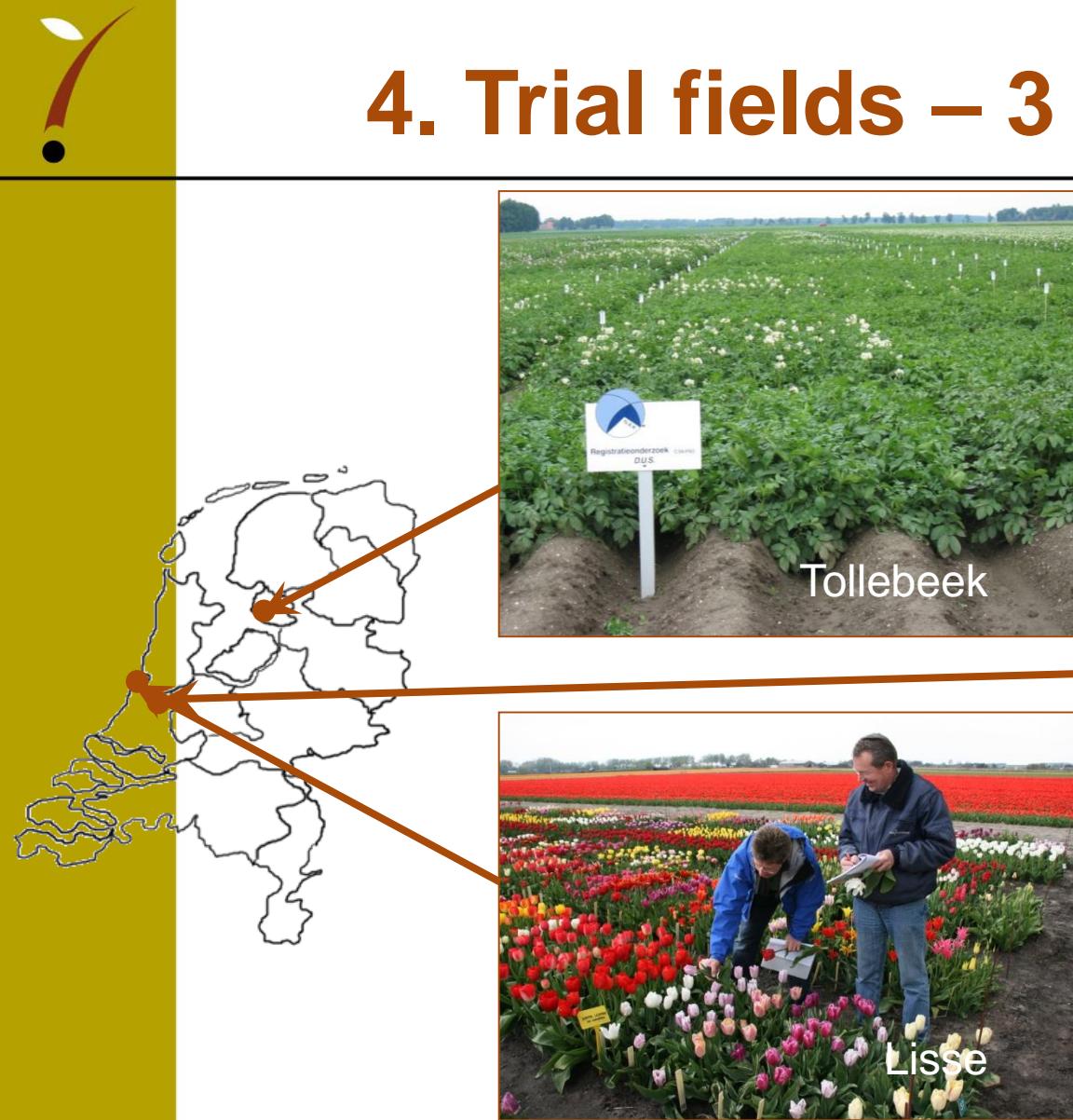


## 4. DUS organisation

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- Netherlands (fully cost covered)
  - One Examination Office = Naktuinbouw
  - Responsibility - Distinction Uniformity Stability
  - Coordination – Value Cultivation Use
  - Expertise in one organisation
- EU
  - Network of Examination Offices in EU  
(among them Naktuinbouw)

# 4. Trial fields – 3 stations





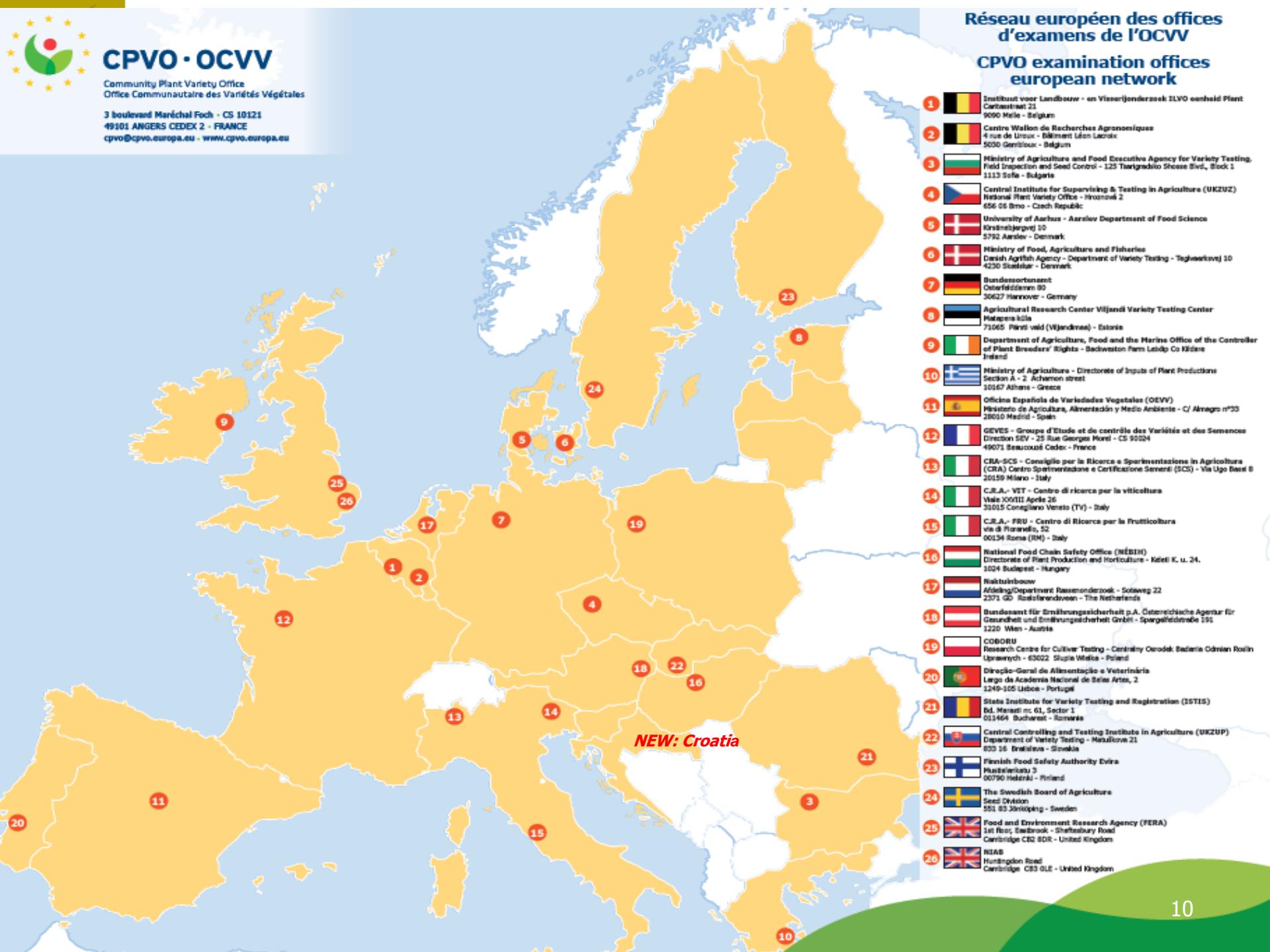
# CPVO · OCVV

Community Plant Variety Office  
Office Communautaire des Variétés Végétales

3 boulevard Maréchal Foch · CS 10121  
49301 ANGERS CEDEX 2 · FRANCE  
cpvo@cpvo.europa.eu · www.cpvo.europa.eu

Réseau européen des offices  
d'examens de l'OCVV

## CPVO examination offices european network





## 4. CPVO entrusted Examination Offices

	Country	Crops (nr)	
	Netherlands	1022	
	UK	864	<b>678 only in UK</b>
	Germany	547	
	France	438	
	PL	192	
	ES	141	
	H	123	
	DK	72	
	IT	43	
	13 countries	1 – 30	(incl. Mexico)
Totaal	22		

Crop group	Centralisation
Agriculture	No
Ornamentals	Mostly
Vegetables	Partly

# 4. Listing



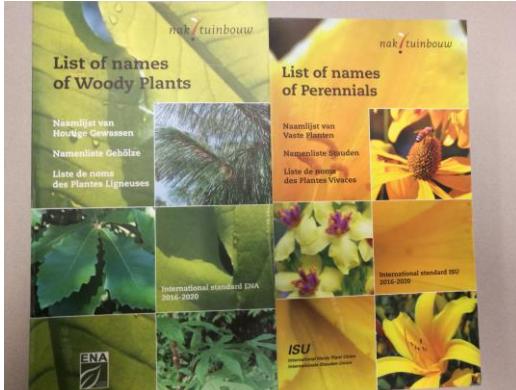
## Lists

- National Variety Register
- Agricultural crops (DUS + VCU)
  - National List
  - Recommended List (CSAR)
- List for trees
- List for Fruit



# Listing

National		European	
National Variety Register			
Agricultural crops (DUS + VCU)			
- National List		Common Catalogue – Agricultural	
- Recommended List (CSAR)			
Vegetables (DUS)		Common Catalogue – Vegetables	
Trees (DUS)		Forematis	
Fruit (DUS)		Frumatis	



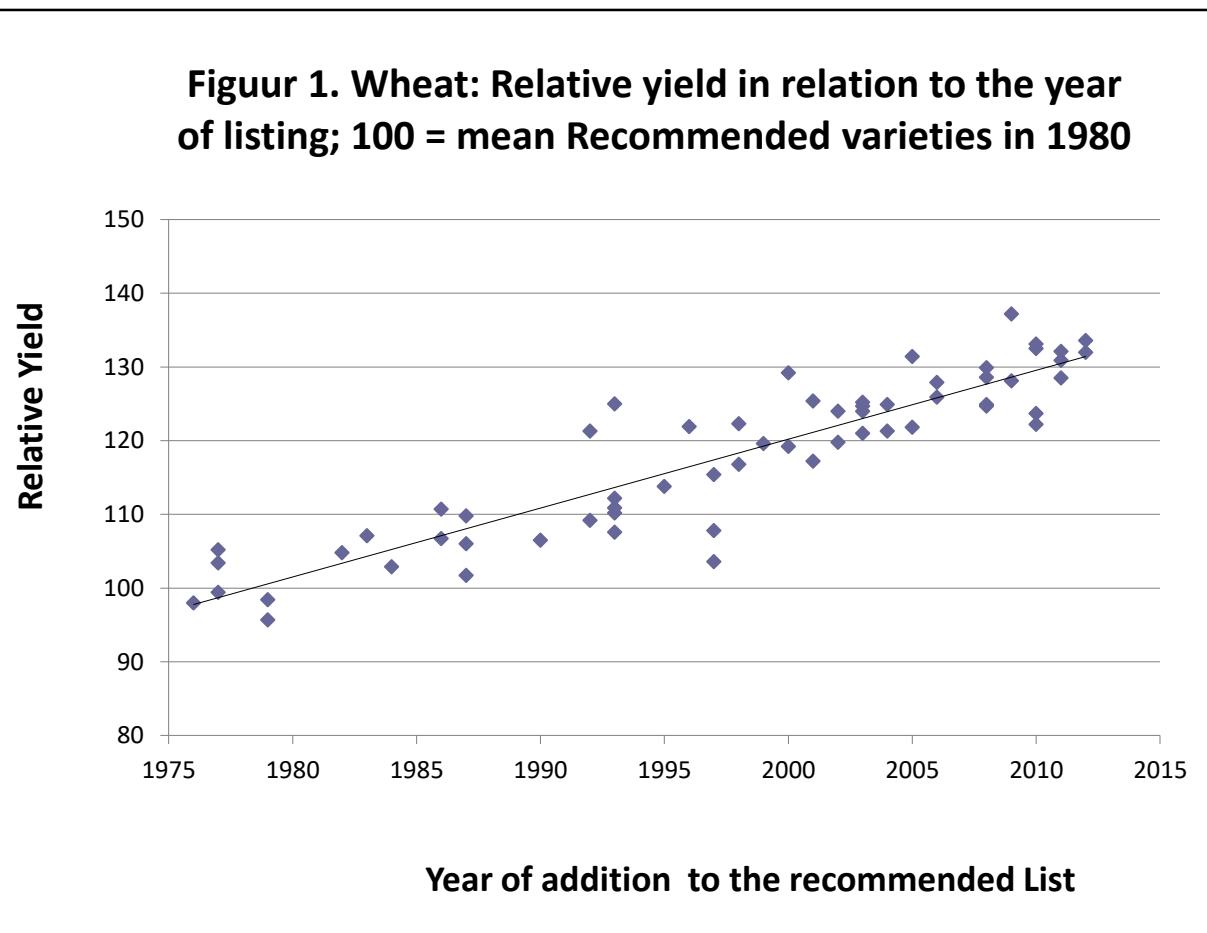


## 4. VCU Tests for Listing and Recommendation in the Netherlands

	Number of:					
	Years	Trials/year		reps	Varieties	
	Nat. List	Rec. List	Yield	special tests	in yield trials	in testing per year
Sugarbeet	2	3	5 (4)	5	3	100
Maize for silage	2	3	7	-	2	160
Maize for grain	2	3	4	-	2	30
Winter wheat	2	3	6+3*	6	2	55
Spring barley	2	3	4+2*	2	2	30
Spring wheat	2	3	3+3*	3	2	10
Industrial chicory	2	3	3	1	3	12
Potatoes	2	no	-	7	-	90
Green manure crops	2	3	2	2	3	50
Fodder grasses	3	4	4	-	3(4)	90

\*: with disease control/without disease control

## 4. Testing for Listing and Recommendation in the Netherlands



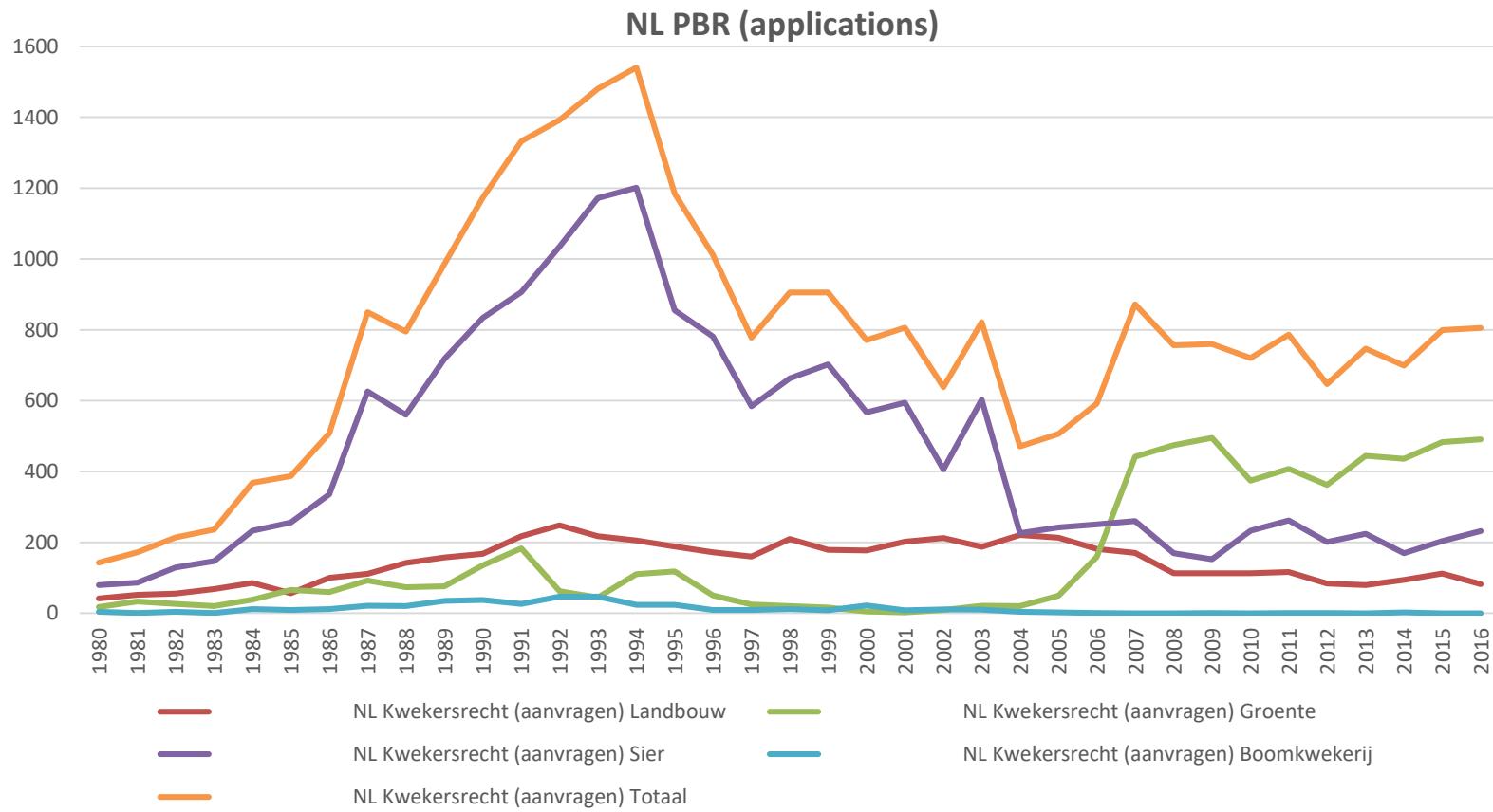


# 4. Number of applications

Crops	2017		Total		
	Listing	PBR	2017	2016	2015
	Nati onal	CPVO			
Ornamentals	-	175	682	857	794
Agricultural	257	80	9	346	341
Vegetables	698	505	104	1307	1273
Trees		2	13	15	19
Total	955	762	808	2525	2427
					2414



## 5. The impact of PBR in the Netherlands



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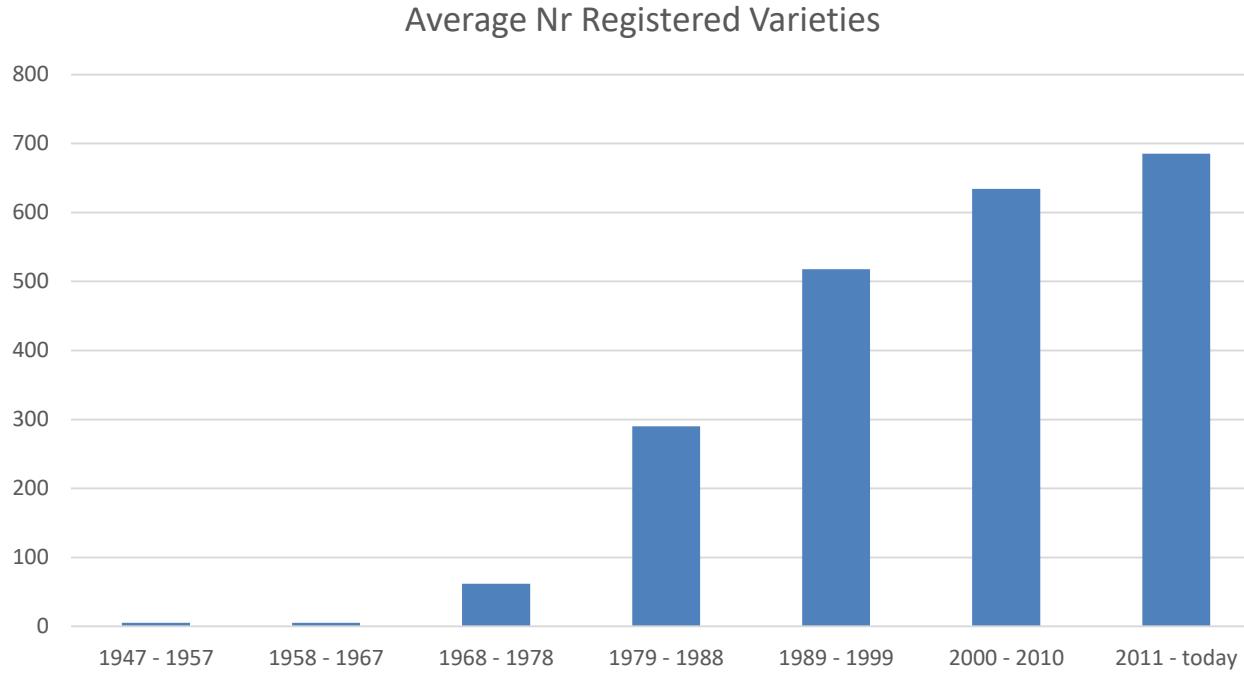
UPOV



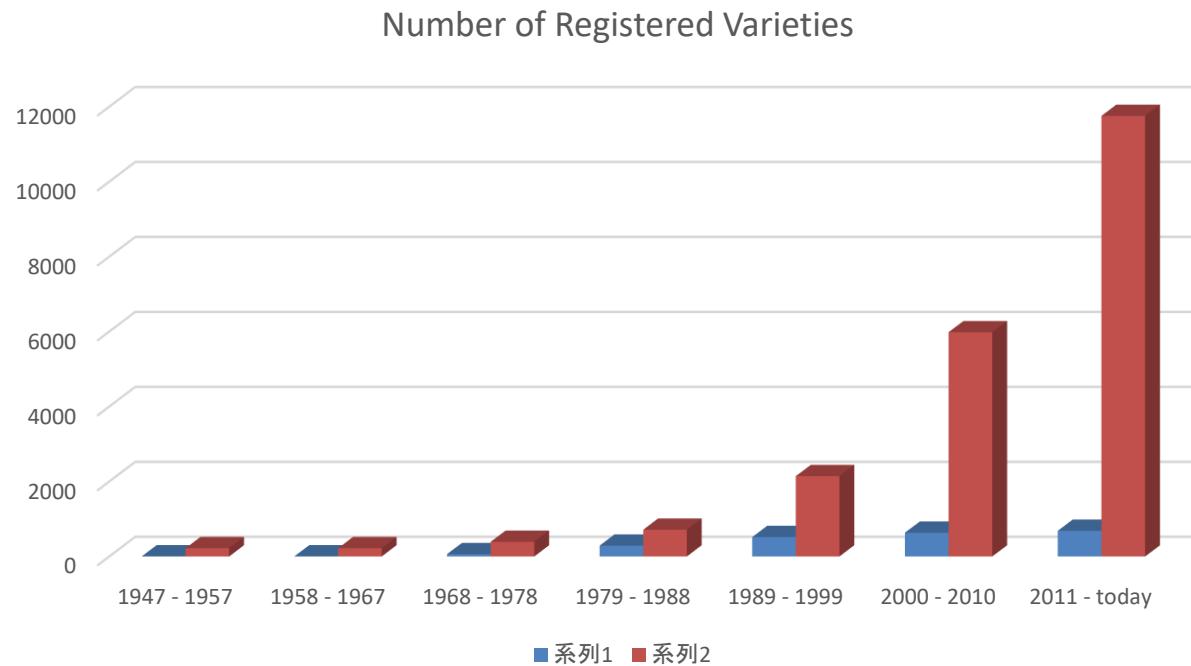
		1923 1st Catalogue	20
		1941 Breeders Decree	
		1943 - Variety List	188
UPOV '61	1966 - SMD	1967 – Seed Law	221
UPOV '78	1972 - EU Catalogues		341
UPOV '91	1994 – EU PBR (CPVR)		1327
	1999_105 (Forest)		2143
	2002_53-57 – New SMD	2005 – New SPM Law	2900
	2008_90 (Fruits)		5093
2017			11756



## 5. The impact of PBR in the Netherlands



# 5. The impact of PBR in the Netherlands



# 6. Conclusions

## Impact PVP and Listing on Agriculture in the Netherlands

- Genetic progress
- Improved varieties to benefit:
  - Farmers and Growers
  - Consumers
  - Society





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Thank you for your attention.

Questions?

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