

Upcoming hearing(s) at the European Patent Office

Online talk, 13th of October 2026

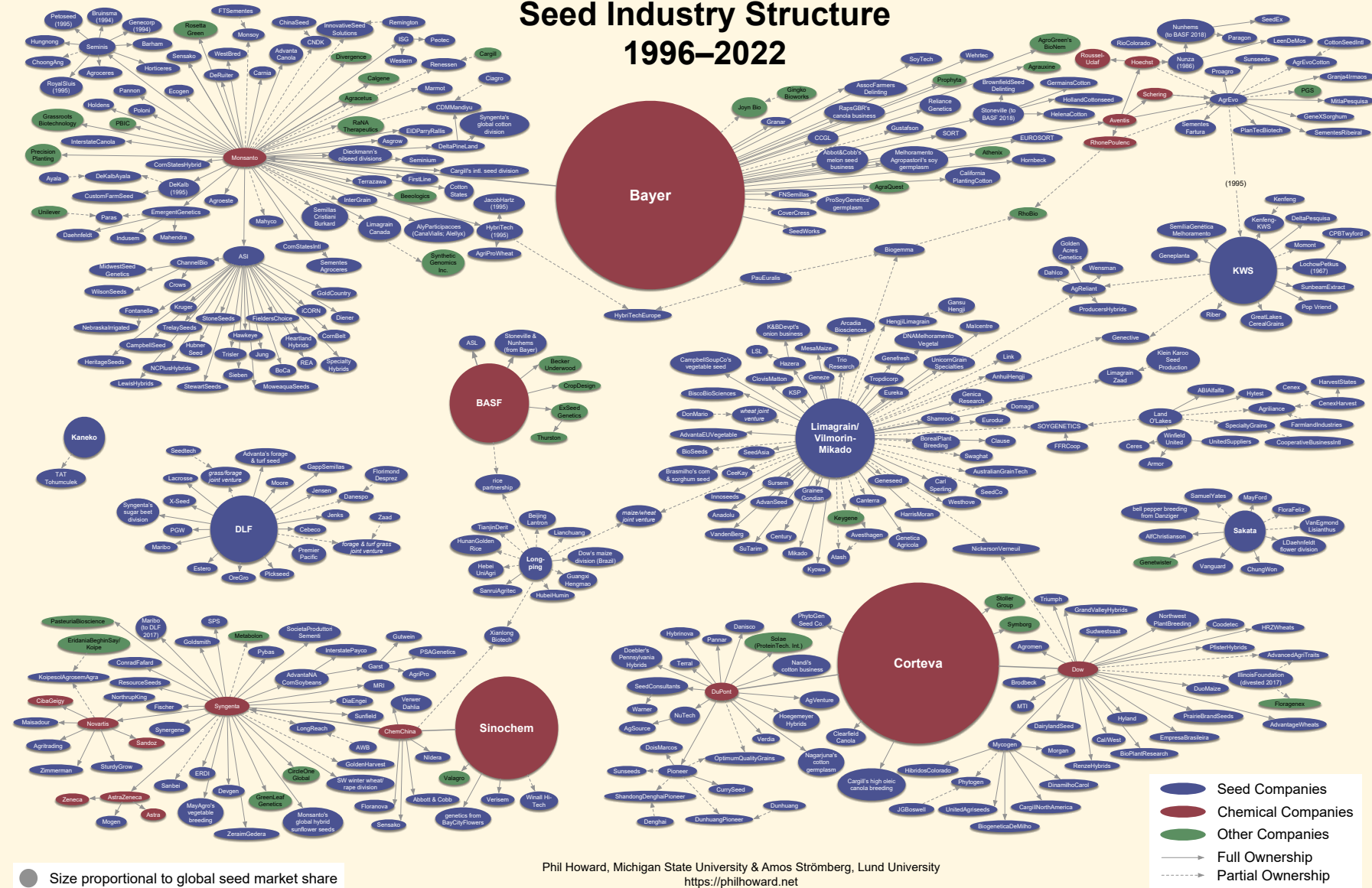


Nordic Maize breeding
Breeding for diversity in agriculture

7 companies with maize breeding program in the Netherlands

Wave of take overs by pharmaceuticals

Seed Industry Structure 1996–2022



Nordic Maize breeding
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Nordic Maize breeding (NMB) started in 2002

Silage maize in the North of the Netherlands was harvested in November:

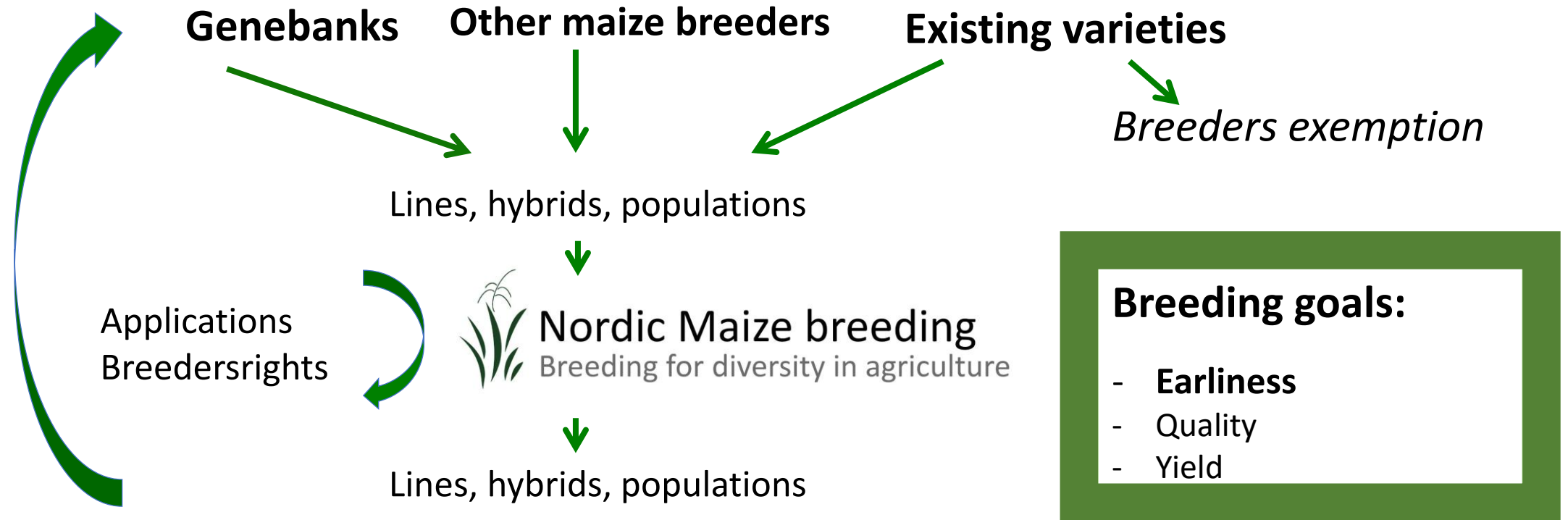
That ought to be earlier!

In 2015 we lost our first variety on GMO contamination (22 ton, Chili)



Nordic Maize breeding
Breeding for diversity in agriculture

How did we started when the freedom of breeding still existed?



The only 100% Dutch maize breeding company

NMB developed the earliest maize varieties of the world

NMB produces (organic) maize seed in the Netherlands (~third of the market)

Regional breeding works!



Nordic Maize breeding
Breeding for diversity in agriculture

RASSENBULLETIN SNIJMAIS ULTRA VROEG 2024
Groei seizoen 18 weken

RASSENONDERZOEK SNIJMAIS ULTRA VROEG ¹⁾
Gemiddelde resultaten over 2019 t/m 2023

Ras ²⁾	Stengelrot resistentie	Stevigheid ³⁾	Zomerlegering	snelheid grondbedekking	Builenbrand resistentie	Plantlengte	Korfhogte	Vroegheid bloei	Drogestofgehalte in % ⁴⁾	Drogestofgehalte relatief	Zaai- gehalte	Suiker- gehalte	Celwand- gehalte	Celwand- verterbaarheid	VEM/kgds	Drogestof- opbrengst	VEM-opbrengst	Aantal jaren in onderzoek
Ultra vroeg																		
Flynt	7.5	6.5	8	7	8.5	100	100	8.5	35.5	100	100	100	100	100	100	100	100	5
Ultra vroeg / Zeer vroeg																		
NMB18RS2	6	7	6.5	6.5	8	102	100	8.5	34.1	96	101	100	99	97	99	105	104	3
Pyroxenia	7	5.5	5.5	8	7	110	103	7.5	30.1	85	95	115	101	97	98	104	103	3
Skandinav	8.5	8	8	8	8	117	121	6.5	29.6	83	88	102	110	100	97	112	109	3
1 jaar onderzocht																		
Ultra vroeg																		
NMB1861	7.5	7	6	7	*	105	99	9	37.7	106	104	93	97	99	101	108	109	1
100 = Flynt resp. in cm (2x); %; gr/kgds(3x); %; VEM/ kgds; ton/ha; ton KVE/ha						257	87		35.5		353	61	385	52.7	987	14.8	14.6	

1) Resultaten zijn niet te vergelijken met Rassenbulletin Snijmais ultra vroeg (20wkn), vanwege ander oogstmoment en standaardrassen
2) Rassen per groep gerangschikt op volgorde van vroegheid; Standaard 100.000 p/ha
3) Geen nieuwe resultaten in 2023, cijfers van 2019 t/m 2022 worden gehandhaafd
4) 3% verschil in drogestofgehalte betekent ongeveer 1 week vroeger
Ultra vroege snijmais in Noord-Nederland: streven zaai rond 1 mei en oogst rond 1 september (18wkn groeiseizoen);
Grens ultra vroeg en ultra vroeg/zeer vroeg: ds-gehalte is 34.249%
Zaai en Oogstdatum 2023- Ruigahuizen 16/5 - 2/10 en Marwijksoord 17/5 - 5/10

Short season varieties enable crop rotations:

April	May	June	July	August	September	October
	Maize season					
	ultra-early maize				wintercereal/winterhardy peas	
grass/winterhardy peas		ultra-early maize				
	ultra-early maize				winterrapeseed	
spinach/lettuce		ultra-early maize				
	ultra-early maize				green manure	
early potatoes/wintercereal/bulbs			ultra-early maize			



Winter cereal-winterpea



Winterrapeseed



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Early varieties enable regional seedproduction



Seedproduction with clovermixture
Harvested before 1st of October



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Indepent breeding companies are:

- Not in need of extreme efficiëncy
- Working towards a diversity in breeding goals
- Capable of serving regional markets



Indepent breeding companies strongly depend on

- Free accessible genetic sources
- The use of the Breeders Exemption



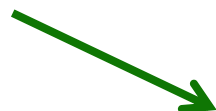
Patents 

NGTs and patents 

 Genenbank

Existing varieties

Other breeders



Lines, hybrids, populations



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Lines, hybrids, populations

 *Breeders exemption*

Application
Breeders right

When someone wants to start breeding,
patentholders have to be contacted first



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NMB does not know if our material contains patented genes

NMB is facing an uncontrollable risk of pollution with patented genes of our material

Should we, as solely a breeding and production company without a legal department, enter into discussion/negotiations with the lawyers of patent holders?



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Will patents on seed contribute to food security?

**Patents have nothing to do with breeding.
Patents only block the freedom of breeding**

No maize breeder will ever claim to have invented cold resistance



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Thank you for your attention



Sowing the Seeds of Love

Any questions?

#DNAisnatureowned

#breedingisahumanright



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