

## Use of plant variety protection in the development of agriculture

The perspective of an international breeding company

UPOV "Train-the-trainer course" - May 12, 2016  
Sietske Wouda

## Syngenta offers technology platforms across crops



## Key company data



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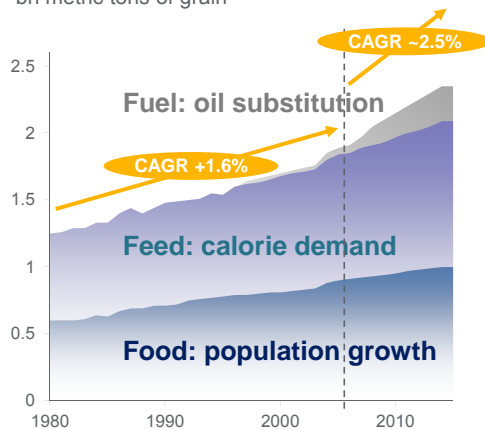
Classification: PUBLIC

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## Global agriculture: Innovation need

Grow more with less

Agricultural demand  
bn metric tons of grain



Source: USDA, Goldman Sachs Commodities Research

### Grow more: higher yield

- Food, feed & fuel
- Emerging markets GDP growth
- Land, infrastructure
- Climate change

### Grow better: higher quality

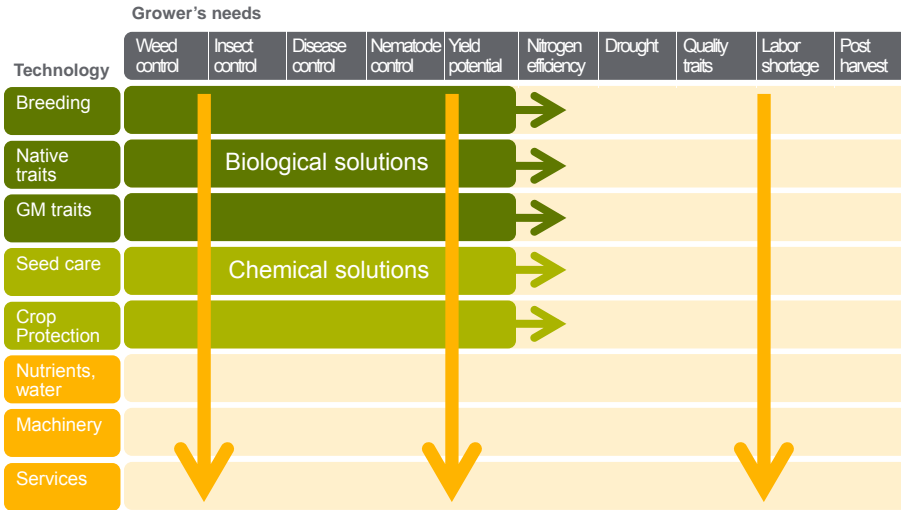
- Reduce input costs  
Work, chemical, water, fertilizer ...
- Increase output value  
Nutritional value, quality, taste, ...

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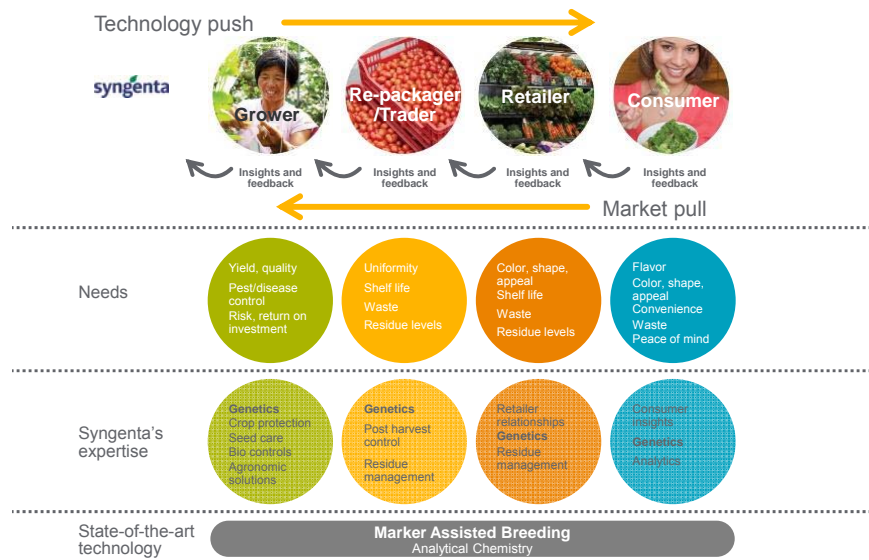
## Innovating across technologies to transform the way crops are grown



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## Servicing the entire value chain A variety of needs, addressed by our expertise

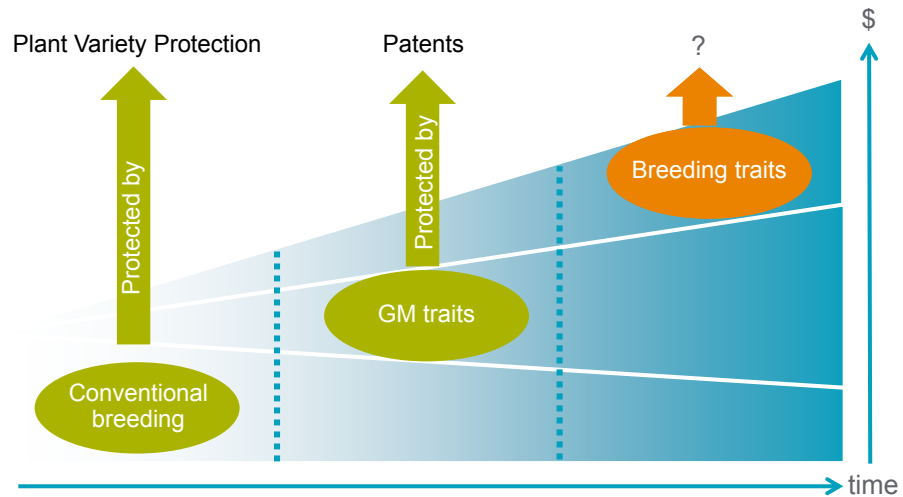


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## The IP tool kit

Protection of plant related innovations



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## Protecting our varieties



### What is the risk we are trying to mitigate?

- How easy is it to make copies of the variety?
- Is the variety worth protecting?

### What is the best tool to mitigate that risk?

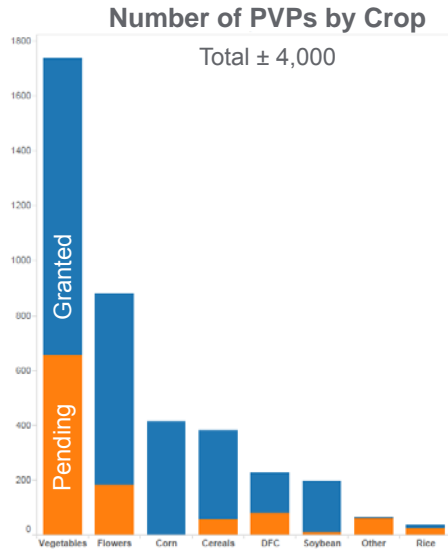
- Is PVP the best protection method compared to other forms of IP?
- How strong is the PVP system in the country where we want to protect?

Classification: INTERNAL USE ONLY

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## Syngenta plant related IP use

Plant related IP applications	2015
Seeds Biotech & Traits	36
US Variety Patents (seed propagated)	58
US Plant Patents (vegetatively propagated)	25
PVPs	516

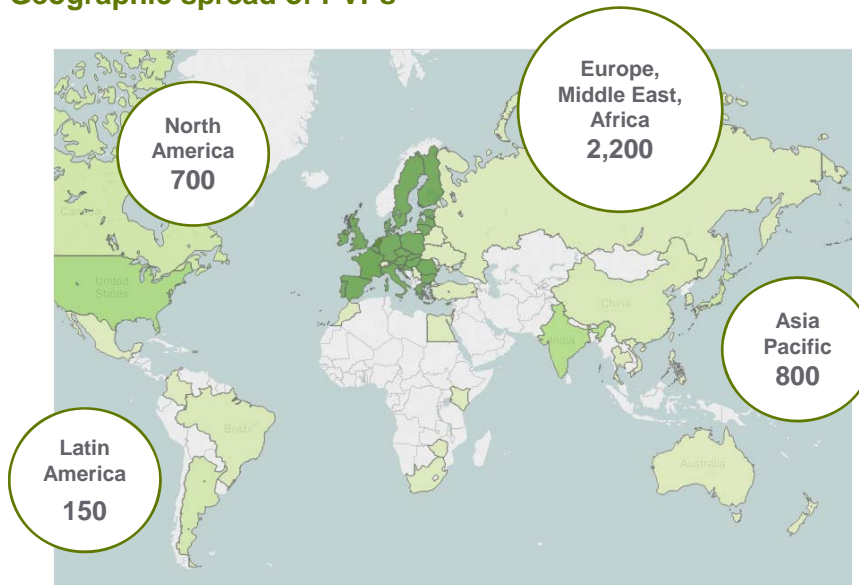


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## Geographic spread of PVPs



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## Importance of an efficient and fair PVP system

### Benefits for inventor

Help pay for research costs  
Reduce risk of market introduction

### What we look for

Legislation in line with UPOV'91  
Ability to enforce our rights if needed  
Security of our seeds deposits

### Benefits for society

Improved varieties which can be  
used for further breeding (breeders  
exemption)

### Our responsibility

No enforcement in Least Developed  
Countries for private and non-  
commercial use

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Thank you very much!



*Bringing plant potential to life*

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