# Importance of plant variety protection for technology transfer in the seed sector

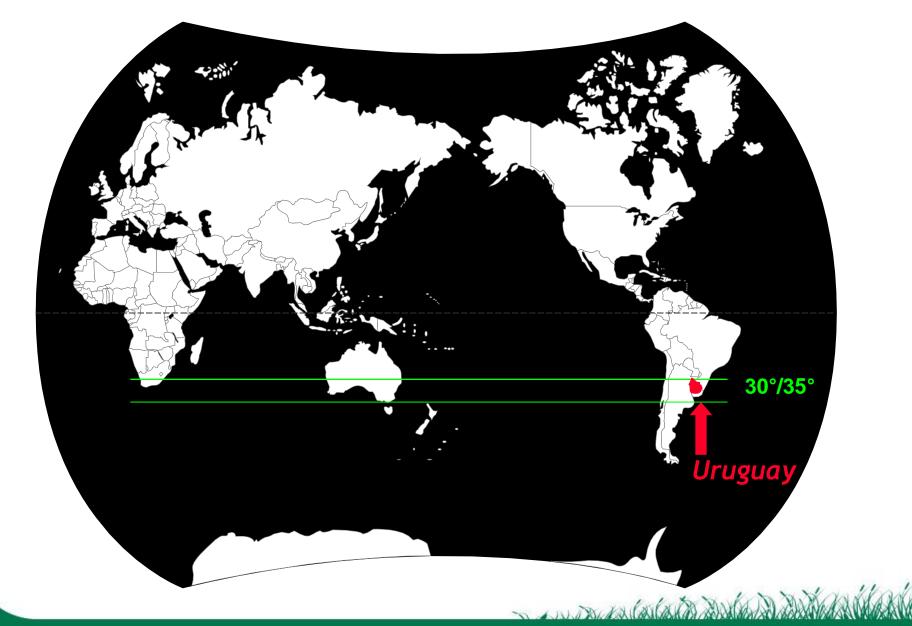
> The case of Uruguay – with focus on forage crops



Diego Risso UPOV Seminar <sub>April,</sub> 2011



# Location in the world





# Uruguay, at a glance

Population: 3.3 millions

Total Surface: 17.3 million Ha

**Productive Surface: 15.7 million Ha (90%)** 

Number of Farms: 50.000

Density: 5.5 ha/person

Main production goods:

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✓ Beef

✓ Dairy

✓ Grains

✓ Wool



# Legal Framework & Seed Regulations



# Origin and development of PPR

UPOV – '78 Act	1994
TRIPs / GATT - (WTO)	1995
Seed Act	Since 1981 16.811 / 97 18.345 / 09
Regulatory Decree	438 / 04 385/09

### Institutions involved in the seed sector:

- National Seed Institute (INASE)
- National Research Institute for Agriculture (INIA)
- > Uruguayan Seed Chamber (CUS)
- Seed Producers Association (ANAPROSE)
- > Uruguayan Breeders Association (URUPOV)

### At an international level Uy is member of:

> UPOV
> OECD
> ISTA
> IPPC

> ISF> SAA

### **URUPOV:** Who we are ?

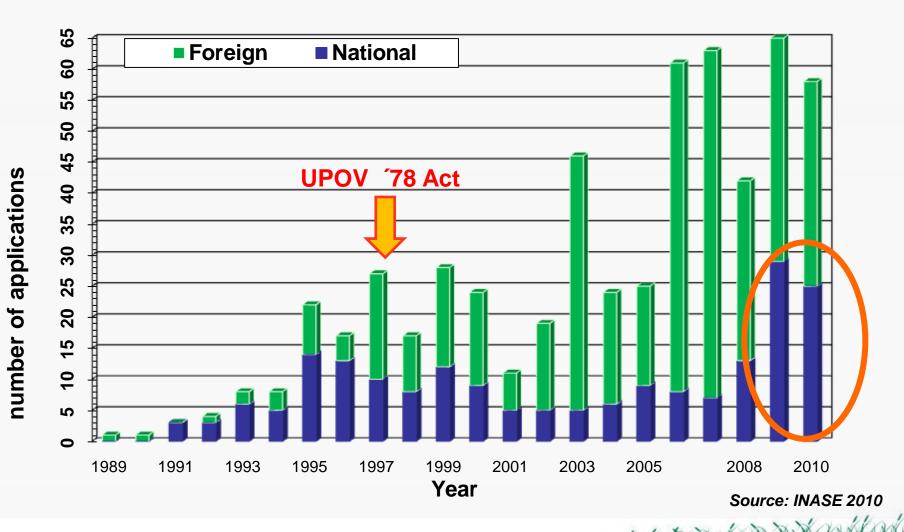
- > Founded in 1994
- > Association with 33 members
- > Main activities:
  - Collect royalties
    Enforcement
    Communication
    Advise and support to members



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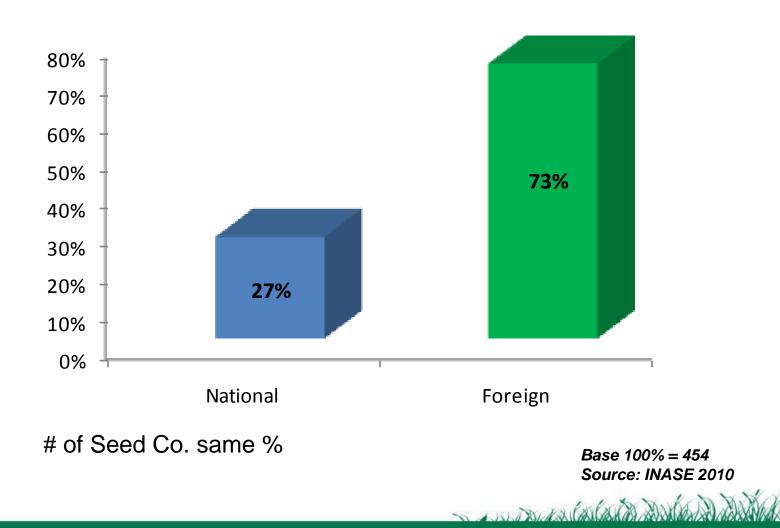


### # of applications evolution National and Foreign varieties



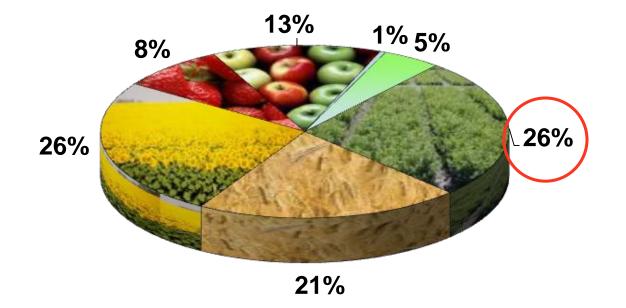


# Protected varieties by origin





### Protected varieties by group of species







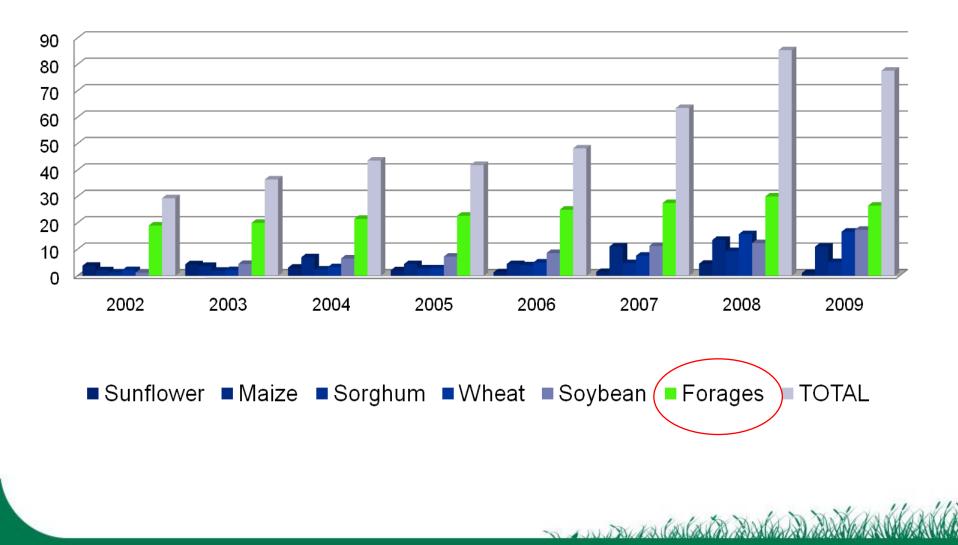
# If our main export product is natural beef...

## we need to feed cattle with pastures

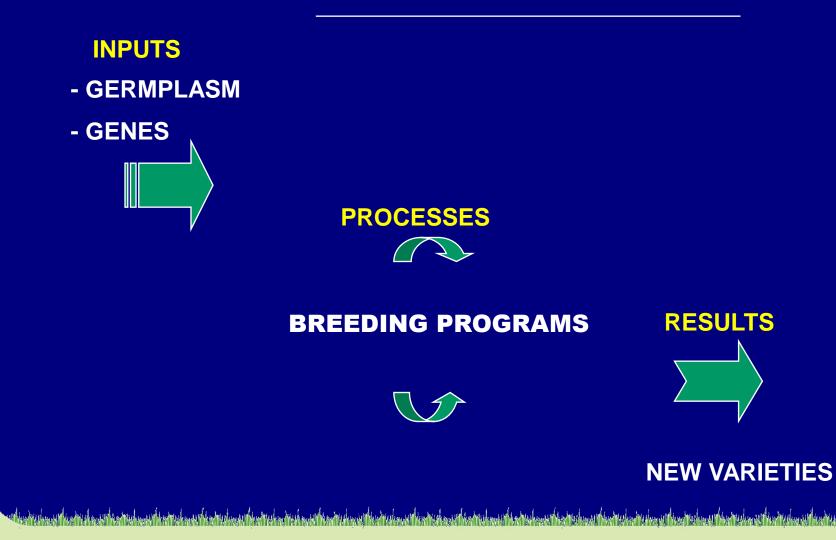




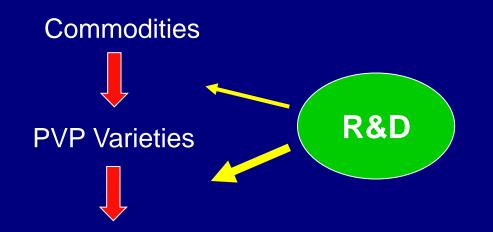
### Seeds Market U\$D million



### A "simple" sistem where PBR management and Technology Transfer are needed



### **R&D Strategy for Market Development**



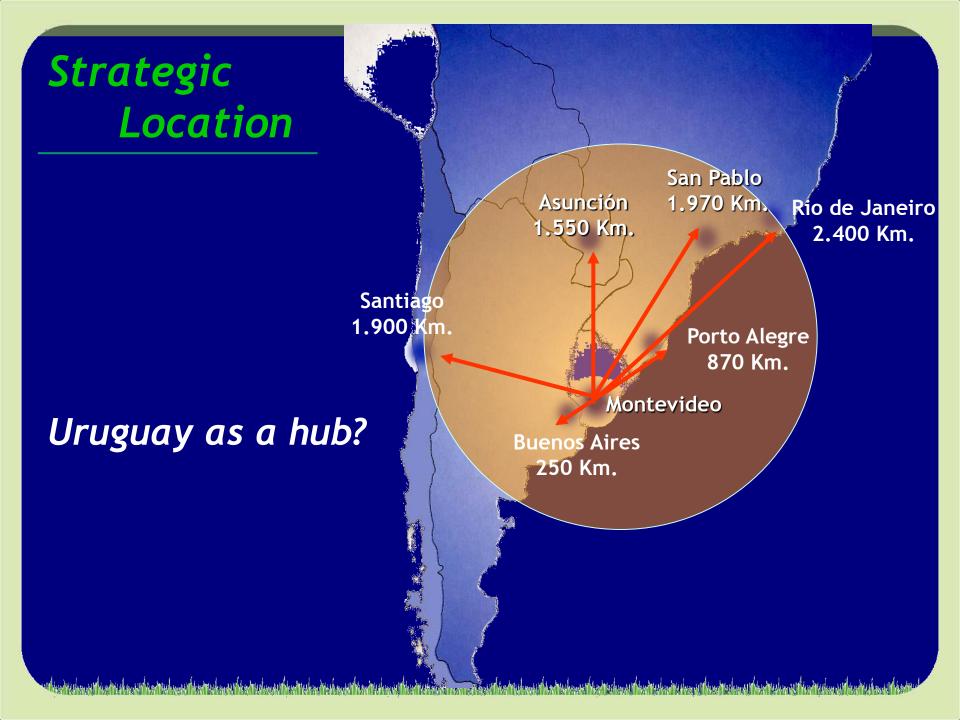
New generation technologies inside & around the seed

Intellectual Property needed

- ✓ Global coordination
- ✓ Regional approach
- ✓ Local focus

 ✓ Uruguay as value-adding market & technology driven model in SA

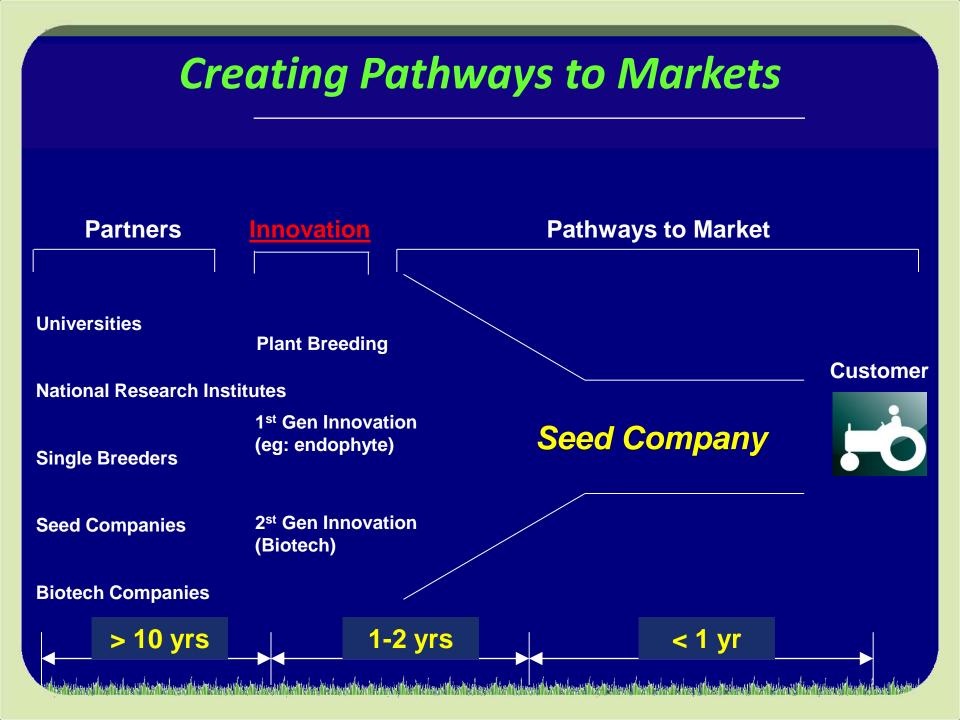
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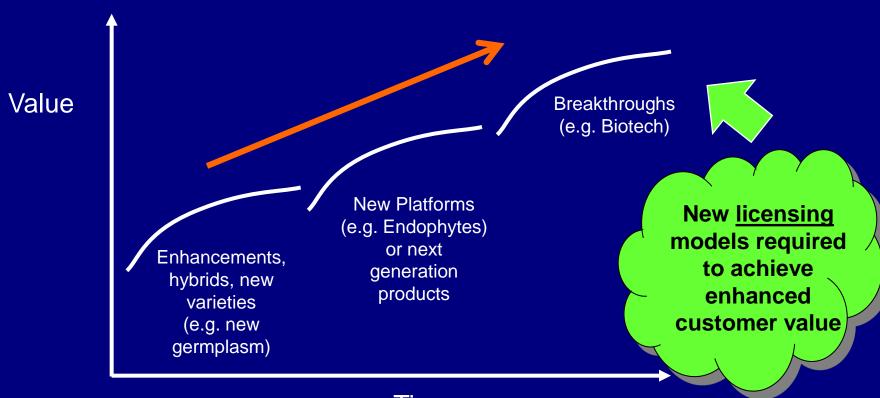
### **Climate Homologues Uruguay** (for temperate pastures)





### Long term investments are required to develop breakthrough technologies

Illustrative model



#### Time

### To transfer technology is necessary to

## manage PBR and use Licenses

Key concpets for PBR Management and Technology Transfer

# PVP application when the cultivar has a potential for marketing

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# **MANAGEMENT OF ALLIANCES**

In public/private <u>alliances</u> (actors with different interests) the distribution of the benefits may be one of the main issues in the negotiation

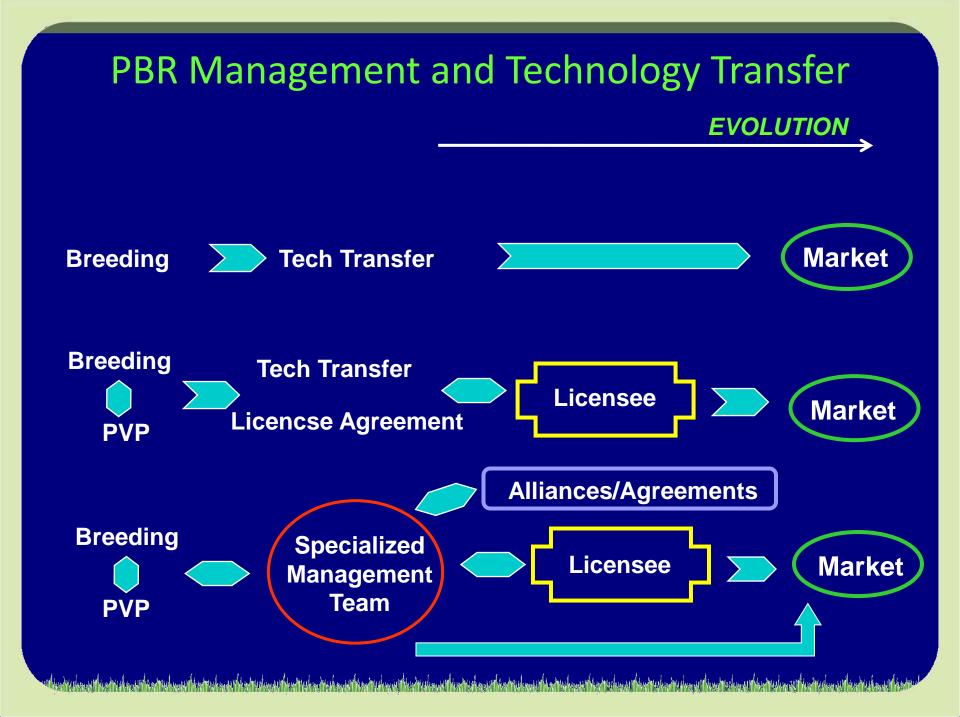
In alliances, agreements may be considered in:

- technical issues
- economic issues
- political issues

## Key concpets for PBR Management and Technology Transfer

Management of PBR helps strengthen Technology Transfer

> Enforcement of the PBR is also key to strengthening Technology Transfer



### PBR MANAGEMENT AT INIA URUGUAY - Key Questions -

- ✓ What kind of invention is (either: product, process)?
- ✓ Is it possible to protect? how?
- $\checkmark$  Is there a potential for marketing of the invention?
- ✓ What is the applicable national legal framework?
- ✓ How to transfer the invention from a public institution perspective?
- $\checkmark$  How the transfer of the invention is administered and managed and by Whom?
- ✓ What is done with economic benefits?
- $\checkmark$  How to contribute to the ultimate goal of achieving innovation, rural welfare and overall

#### socioeconomic development?

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> Board of Directors> Finance

### Procedure for market release of new varieties

- » Technical Analysis
- » Market Opportunities
- » **PVP Application**
- » Release Decision
- » License Terms
- » Public Call for seed companies
- » Analysis of Formal Offers
- » Adjudication Decision
- » License Agreement

### » Marketing

# **Licensing:** Examples in Uruguay



# **EXAMPLES:**

### Forage Crops

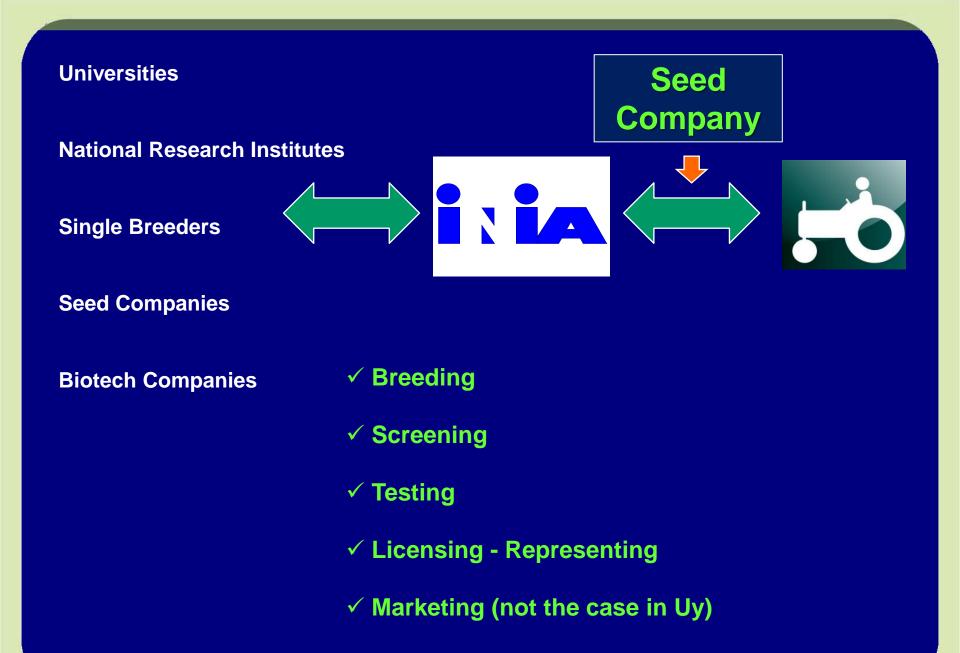
✓ Domestic market✓ International

Soybean

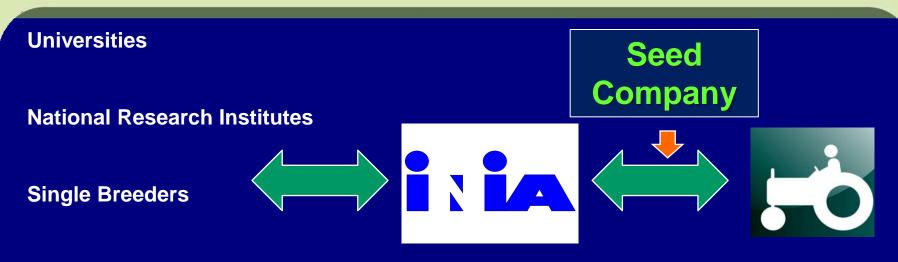
Wheat

### **Barley and Rice**

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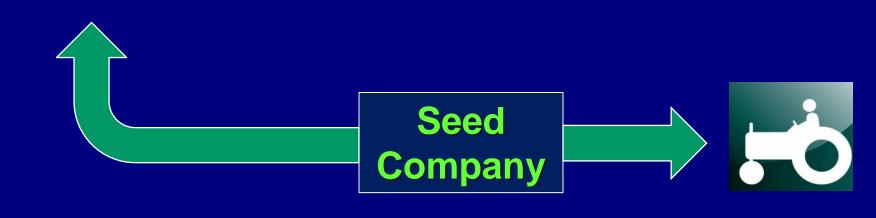
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**Seed Companies** 

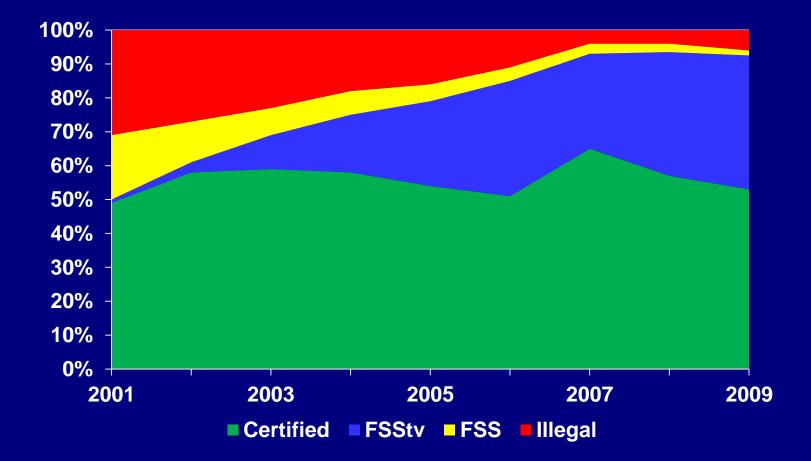
**Biotech Companies** 

# "Coexistence"

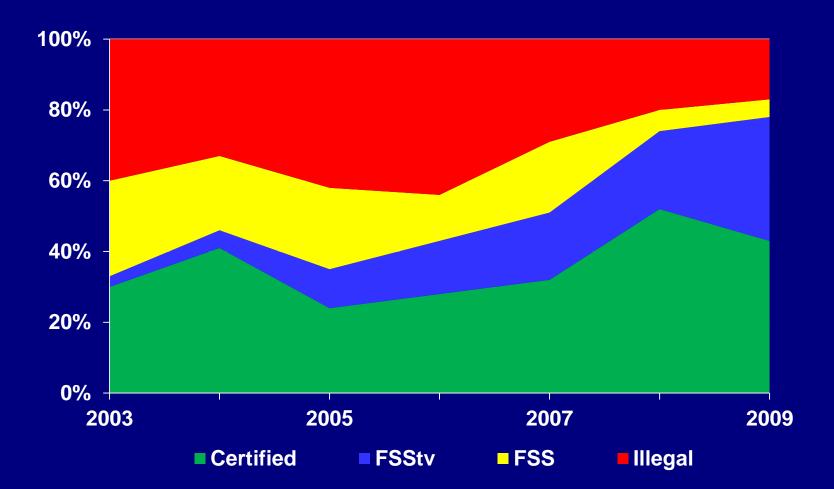


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### Soybean: Seed sowed by origin



### Wheat: Seed sowed by origin



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# Acknowledgements

### > UPOV

- > National Seed Institute (INASE)
- National Research Institute (INIA)
- > Uruguayan Chamber of Seeds
- > URUPOV Members Forages companies

## THANK YOU !







# Thank you all !

www.urupov.org.uy

