

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

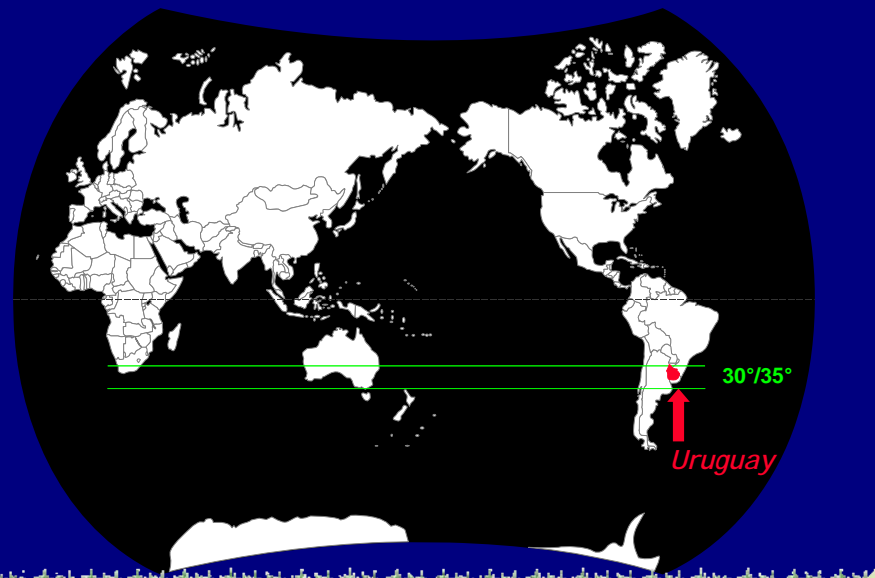
› *The case of Uruguay – with focus on forage crops*



Diego Risso
UPOV Seminar
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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:

- ✓ 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:

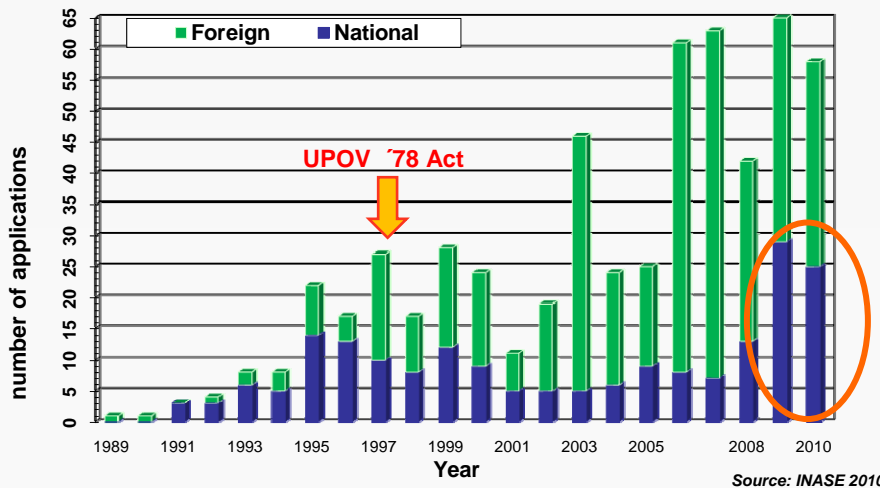
- › UPOV
- › OECD
- › ISTA
- › IPPC
-
- › ISF
- › SAA

URUPOV: Who we are ?

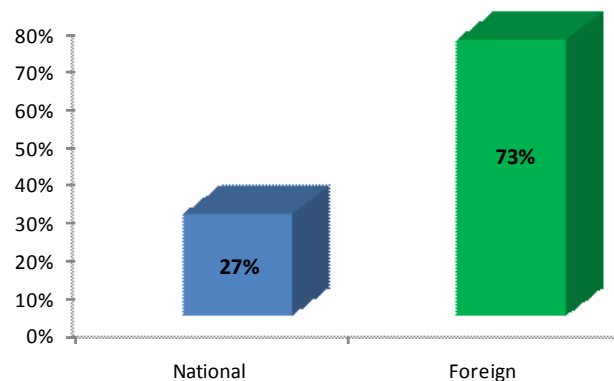
- › Founded in 1994
- › Association with 33 members
- › Main activities:
 - › Collect royalties
 - › Enforcement
 - › Communication
 - › Advise and support to members



of applications evolution National and Foreign varieties



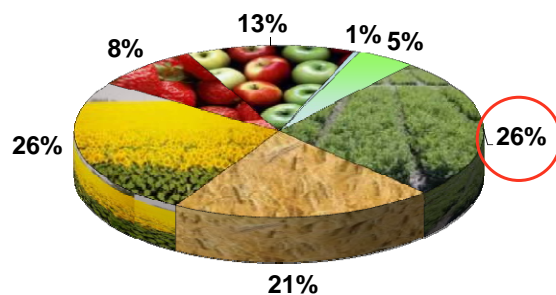
Protected varieties by origin



of Seed Co. same %

Base 100% = 454
Source: INASE 2010

Protected varieties by group of species



■ Forages Crops ■ Cereals ■ Oil crops ■ Vegetables ■ Fruit ■ Other ■ Forestry

Source: INASE 2010

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

we need to feed cattle with pastures



A “simple” sistem where PBR management and Technology Transfer are needed

INPUTS

- GERMPLASM
- GENES



PROCESSES



BREEDING PROGRAMS



RESULTS



NEW VARIETIES

R&D Strategy for Market Development

Commodities



PVP Varieties



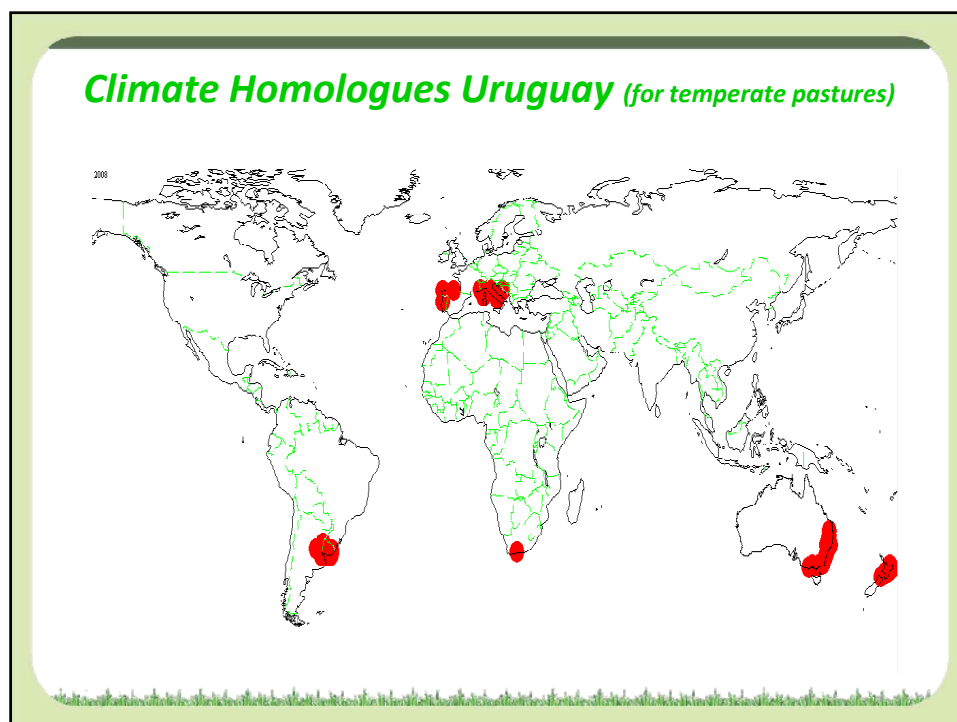
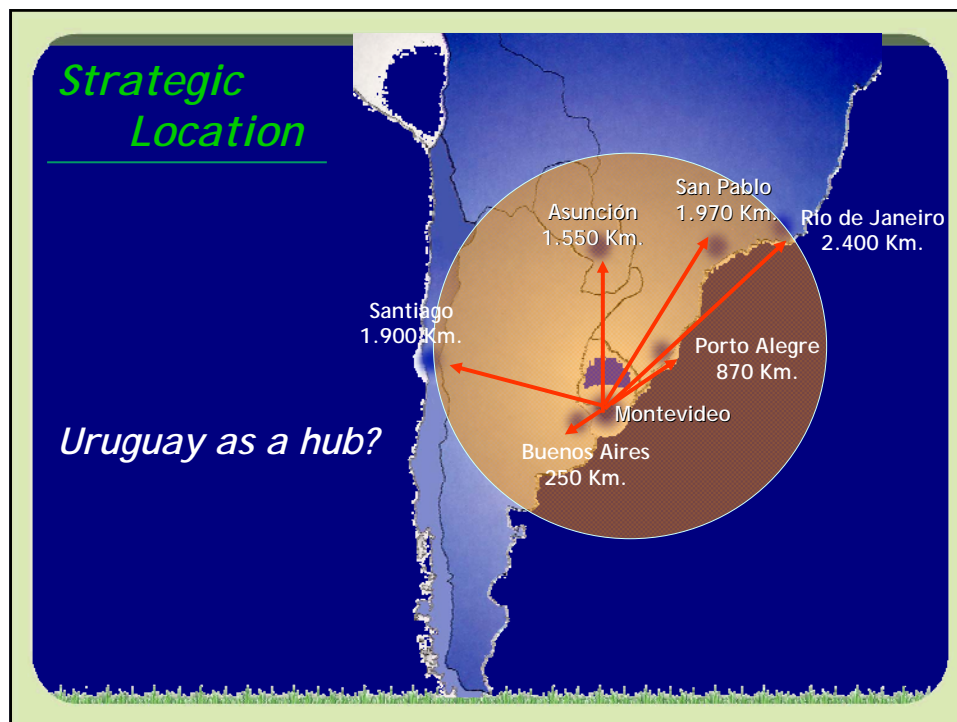
New generation
technologies inside &
around the seed



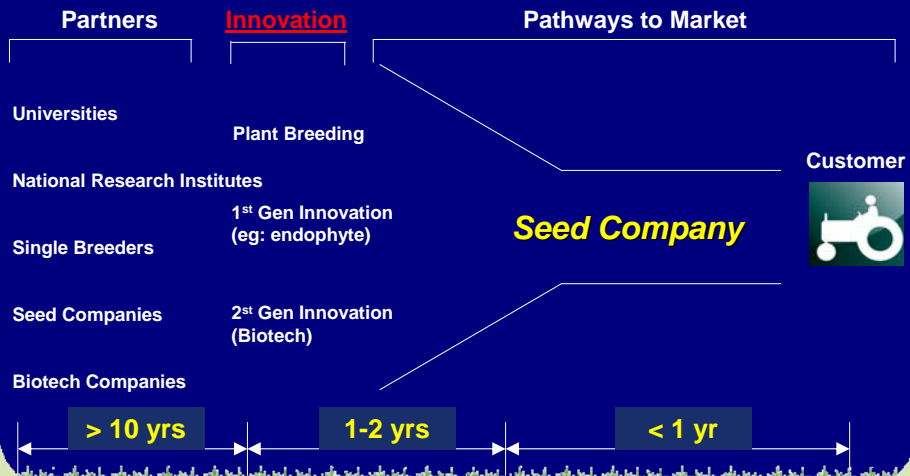
Intellectual Property
needed

R&D

- ✓ Global coordination
- ✓ Regional approach
- ✓ Local focus
- ✓ Uruguay as value-adding market & technology driven model in SA

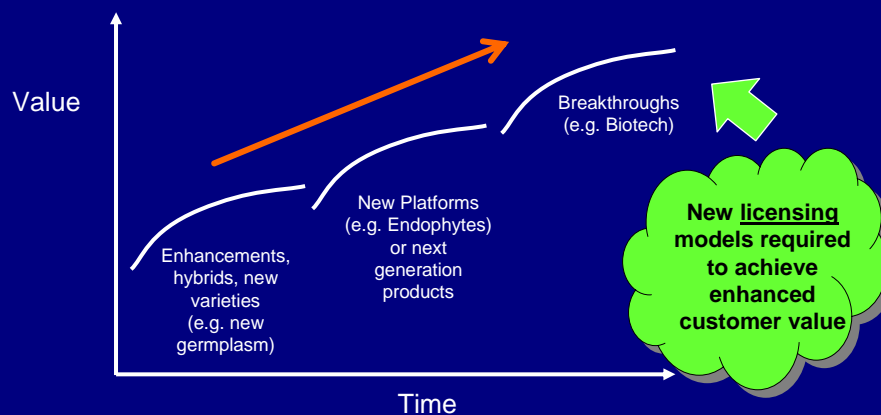


Creating Pathways to Markets



Long term investments are required to develop breakthrough technologies

Illustrative model



*To transfer technology is necessary to
manage **PBR** and use **Licenses***

Key concepts for PBR Management and Technology Transfer

PVP application when the cultivar has a
potential for marketing

MANAGEMENT OF ALLIANCES

In public/private alliances (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 concepts 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 -

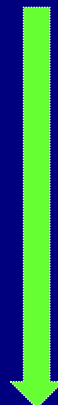


- ✓ What kind of invention is (either: product, process)?
- ✓ Is it possible to protect? how?
- ✓ Is there a potential for marketing of the invention?
- ✓ What is the applicable national legal framework?
- ✓ **How to transfer the invention from a public institution perspective?**
- ✓ How the transfer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

- › 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:

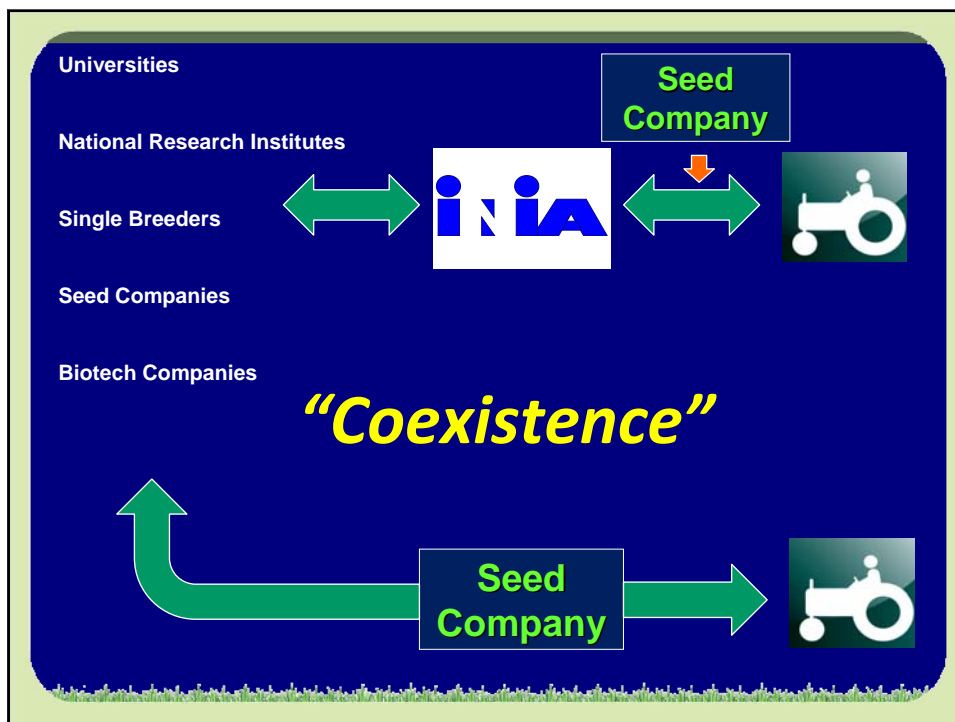
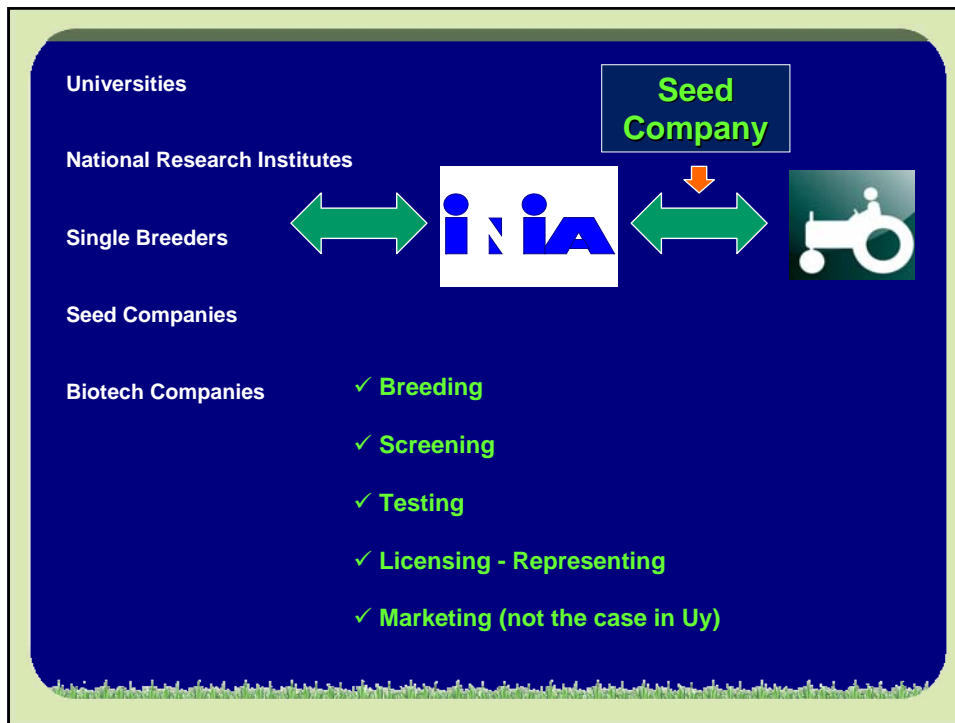
Forage Crops

- ✓ Domestic market
- ✓ International

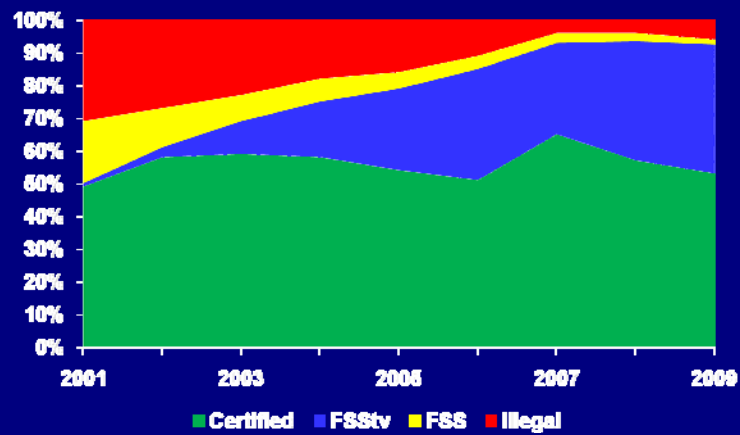
Soybean

Wheat

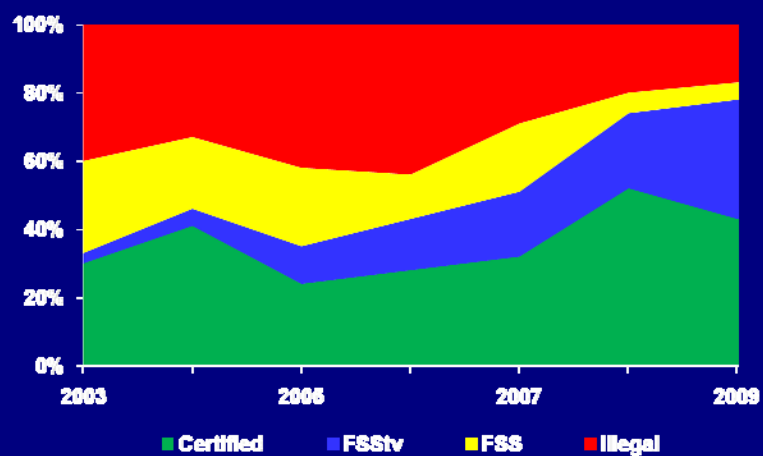
Barley and Rice



Soybean: Seed sowed by origin



Wheat: Seed sowed by origin



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