



Associação Brasileira de Sementes e Mudanças

***Seed companies experiences
facing LLP issues***

Paulo Campante

III Seed Congress of the Americas - Santiago, Chile

September 28-29, 2011



Associação Brasileira de *Sementes e Mudanças*

APPS - ASSOC. PAULISTA DOS PROD. DE SEMENTES E MUDAS;

APASEM - ASSOC. PARANAENSE DOS PROD. DE SEMENTES E MUDAS;

APASSUL - ASSOC. DOS PROD. DE SEMENTES DO RIO GRANDE DO SUL;

APROSESC - ASSOC. DOS PROD. DE SEMENTES DE SANTA CATARINA;

APSEMG - ASSOC. DOS PROD. DE SEMENTE E MUDAS DO ESTADO DE MINAS GERAIS

APROSSUL - ASSOC. DOS PROD. DE SEMENTES DO MATO GROSSO DO SUL;

AGROSEM - ASSOC. GOIANA DOS PROD. DE SEMENTES;

APROSENN - ASSOC. DOS PROD. DE SEMENTES DO NORTE E NORDESTE

BRASPOV - ASSOC. BRASILEIRA DOS OBTENTORES VEGETAIS;

ABRATES - ASSOC. BRAS. DE TECNOLOGIA DE SEMENTES;

ABCSEM - ASSOC. BRAS. DO COMÉRCIO DE SEMENTES E MUDAS;

UNIPASTO - ASSOC. PARA FOMENTO À PESQUISA DE MELHORAMENTO DE FORRAGEIRAS TROPICAIS;



Outline

1.harmonizing concepts and definitions;

2.Brazil – practical experience;

3.ABRASEM - facing LLP issues;



harmonizing concepts and definitions;

- *relatively new concepts;*
- *most countries have not developed rules or policies to address LLP situations;*
- *countries have different approaches about LLP;*
- *It is necessary consolidate LLP concepts among different countries;*
- *Develop a common understanding between government and private sector;*
- *Sharing information, knowledge and experiences.*



Brazil: *practical experience;*

Cotton: 2004

- *Low level presence of Non Authorized GM in Cotton Seeds;*
- *Events: CP4-EPSPS and CRY 1AC;*
- *ABRASEM proposal;*
- *CTNBio decision n° 480/04;*
 - *Threshold of 1% for non authorized GM cotton in conventional cotton seeds was authorized by CTNBio.*
 - *Criteria: It must be authorized in other country.*
- *Ministry of Agriculture Livestock and Food Supply - Normative Instruction n° 25/2005*



Soybean: approved GM events

COMPANY	EVENT	TRADE NAME	CONTRY
Monsanto	GTS 40-3-2	Roundup Ready	South Africa, Argentina, Australia, Brazil (1998) , Canada, China, Colombia, Korea, USA, Netherlands, Philippines, India, Indonesia, Japan, Malaysia, Mexico, Paraguay, Poland, United Kingdom, Czech Repub, Romania, Russia, Singapore, Switzerland, Taiwan, Uruguay, European Union
Bayer	A2704-12		South Africa, Australia, Brazil (2010) , Canada, China, Korea, USA, Philippines, Japan, Mexico, Russia, Taiwan, European Union
Bayer	A5547-127		Australia, Brazil (2010) , Canada, Japan, Mexico, USA, Russia
Basf e Embrapa Soja	BPS-CV127-9	Cultivance®	Brazil (2009)
Monsanto	MON 87701 × MON 89788	Intacta RR2 PRO	Brazil (2010) , Australia/New Zealand, Canada



Cotton: approved GM events

COMPANY	EVENT	TRADE NAME	CONTRY
Bayer	LLCotton25	LibertyLink	Australia, Brazil (2008) , Canada, China, Colombia, Korea, USA, Japan, Mexico, European Union
Bayer	GHB614	GlyTol®	Australia, Brazil (2010) , Canada, China, Korea, USA, Japan, Mexico, European Union
Bayer	T304-40 × GHB119	TwinLink	Brazil (2010)
Dow AgroScience	281-24-236/ 3006-210-23	Widestrike™	Australia, Brazil (2009) , Canada, Korea, USA, Japan, Mexico
Monsanto	MON 1445	Roundup Ready	South Africa, Argentina, Australia, Brazil, (2008) , Canada, China, Colombia, USA, Japan, Korea, Philippines, Mexico, European Union
Monsanto	MON 531	Bollgard®	South Africa, Argentina, Australia, Brazil (2009) , Canada, China, Colombia, Korea, USA, Philippines, India, Japan, Mexico, European Union
Monsanto	MON 15985	Bollgard II®	South Africa, Australia, Brazil (2009) , Burkina Faso, Canada, China, Korea, USA, India, Japan, México, Philippines, European Union
Monsanto	MON 531 × MON 1445	Bollgard® Roundup Ready	South Africa, Argentina, Australia, Brazil (2009) , Colombia, Korea, Japan, Mexico, Philippines, European Union
Monsanto	MON 88913		South Africa, Australia, Canada, China, Colombia, Korea, USA, Philippines, Japan, México, Singapore,



Maize: approved GM events

COMPANY	EVENT	TRADE NAME	CONTRY
Bayer	T25	LibertyLink	South Africa, Argentina, Australia, Brazil (2007) , Canada, China, Korea, USA, Philippines, Japan, Mexico, Taiwan, European Union
Dow AgroScience e Pioneer	TC1507	Herculex®	South Africa, Argentina, Australia, Brazil (2008) , Canada, China, Colombia, Korea, USA, El Salvador, Philippines, Japan, Mexico, Singapore, Taiwan, European Union
Dow AgroScience e Pioneer	TC1507 × NK603		Australia, Argentina, Brazil (2009) , Canada, China, Colombia, Korea, USA, Philippines, Japan, Mexico, Taiwan, European Union
Pioneer	TC1507 × MON 810 × NK603		Australia, Brazil (2011) , Canada, Korea, USA, Japan, Mexico, Taiwan
Syngenta	Bt11	Agrisure	South Africa, Argentina, Australia, Brazil (2008) , Canada, China, Colombia, Korea, USA, Japan, Philippines, Mexico, UK, Russia, Switzerland, Taiwan, European Union, Uruguay
Syngenta	GA21		South Africa, Argentina, Australia, Brazil (2008) , Canada, China, Colombia, Korea, USA, Japan, Philippines, Mexico, Russia, Taiwan, European Union
Syngenta	MIR162	Agrisure Viptera™	Argentina, Australia, Brazil (2009) , Canada, Colombia, Korea, USA, Philippines, Japan, Mexico, Taiwan

TC1507, China: Approval is valid until 20 Dec 2009.

GA21, China: Approval is valid until 28 Aug 2011.

Fonte: BIO Biotechnology Industry Organization e CERA - Center for Environmental Risk Assessment



Maize: approved GM events

COMPANY	EVENT	TRADE NAME	CONTRY
Syngenta	Bt11 × GA21		South Africa, Argentina, Australia, Brazil (2009) , Canada, Colombia, USA, Japan, Korea, Philippines, Mexico, Taiwan
Syngenta	Bt11 × MIR162 × GA21		Australia, Brazil (2009) , Canada, USA, Japan, Philippines, Mexico
Monsanto	MON 810	YieldGard	South Africa, Argentina, Australia, Brazil (2007) , Canada, China, Colombia, Korea, Egypt, USA, Philippines, Honduras, Japan, Malaysia, Mexico, Russia, Switzerland, Taiwan, European Union, Uruguay
Monsanto	NK603	Roundup Ready 2	South Africa, Argentina, Australia, Brazil (2008) , Canada, China, Colombia, Korea, El Salvador, USA, Philippines, Honduras, Indonesia, Japan, Malaysia, Mexico, Russia, Singapore, Taiwan, European Union
Monsanto	MON 810 × NK603	YieldGard Roundup Ready 2	South Africa, Argentina, Australia, Brazil (2009) , Canada, Colombia, Korea, El Salvador, USA, Philippines, Honduras, Japan, Mexico, Taiwan, European Union
Monsanto	MON 89034	YieldGard VT PRO	Australia, Brazil (2009) , Canada, Korea, Colombia, USA, Japan, Philippines, Taiwan, European Union

MON88017:

- *Canada approval for commercial release in the environment and animal use expired on April 1, 2007. Renewal subject to the presentation of research findings about the management of resistance;*
- *China: Approval is valid until 20 Dec 2010.*
- NK603, China: Approval is valid until 20 Dec 2010*

Fonte: BIO Biotechnology Industry Organization e CERA - Center for Environmental Risk Assessment



Maize: approved GM events

COMPANY	EVENT	TRADE NAME	CONTRY
Monsanto	MON 88017		Australia, Brazil (2010) , Canada, China, Korea, USA, Philippines, Mexico, Japan, Taiwan, European Union
Monsanto	MON 89034 × NK603	YieldGard VT PRO 2	South Africa, Australia, Brazil (2010) , Canada, Colombia, Korea, United States, Japan, Philippines, Mexico, Taiwan, European Union
Monsanto e Dow AgroScience	MON 89034 × TC1507 × NK603		Brazil (2010) , Canada, Korea, Philippines, Japan



Abrasem

working group;

- *March, 2009 - Ministry of Agriculture Livestock and Food Supply suggest ABRASEM to creates a WG (ABRASEM, AGROBIO, CIB and companies experts);*
 - *Focus on*
 - ✓ *Adventitious Presence (off-types);*
 - ✓ *Prioritize only approved events;*
 - ✓ *Normative Instruction n^o 25/2005 (National Standards);*
 - ✓ *Cotton, Soybean and Corn;*
- *June, 2009 - Foz do Iguaçu Meeting*
 - ✓ *MAPA and ABRASEM WG – first approach;*
- *December, 2010 - ABRASEM and AGROBIO*
 - ✓ *AP - threshold proposed to cotton (1%) and soybean (1%);*
 - ✓ *Pending approval;*



seeking solutions

- *2011 – ABRASEM Meetings*
 - *Office of International Relations SRI/MAPA:*
 - ✓ *Requesting special attention to the LLP issue and asynchronous approvals;*
 - ✓ *Support to the agricultural attachés*
 - *Argentina, China, South Africa, Switzerland, Japan, United States, Belgium and Russia.*
 - *Ministry of Foreign Relations – Itamaraty*
 - ✓ *Attention to the LLP situation;*
 - ✓ *Trade disruption and economic problems;*
- *ABRASEM - promote National Forum:*
 - *BRASPOV; CSM/MAPA; CBIO/MAPA and CTNBio;*

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