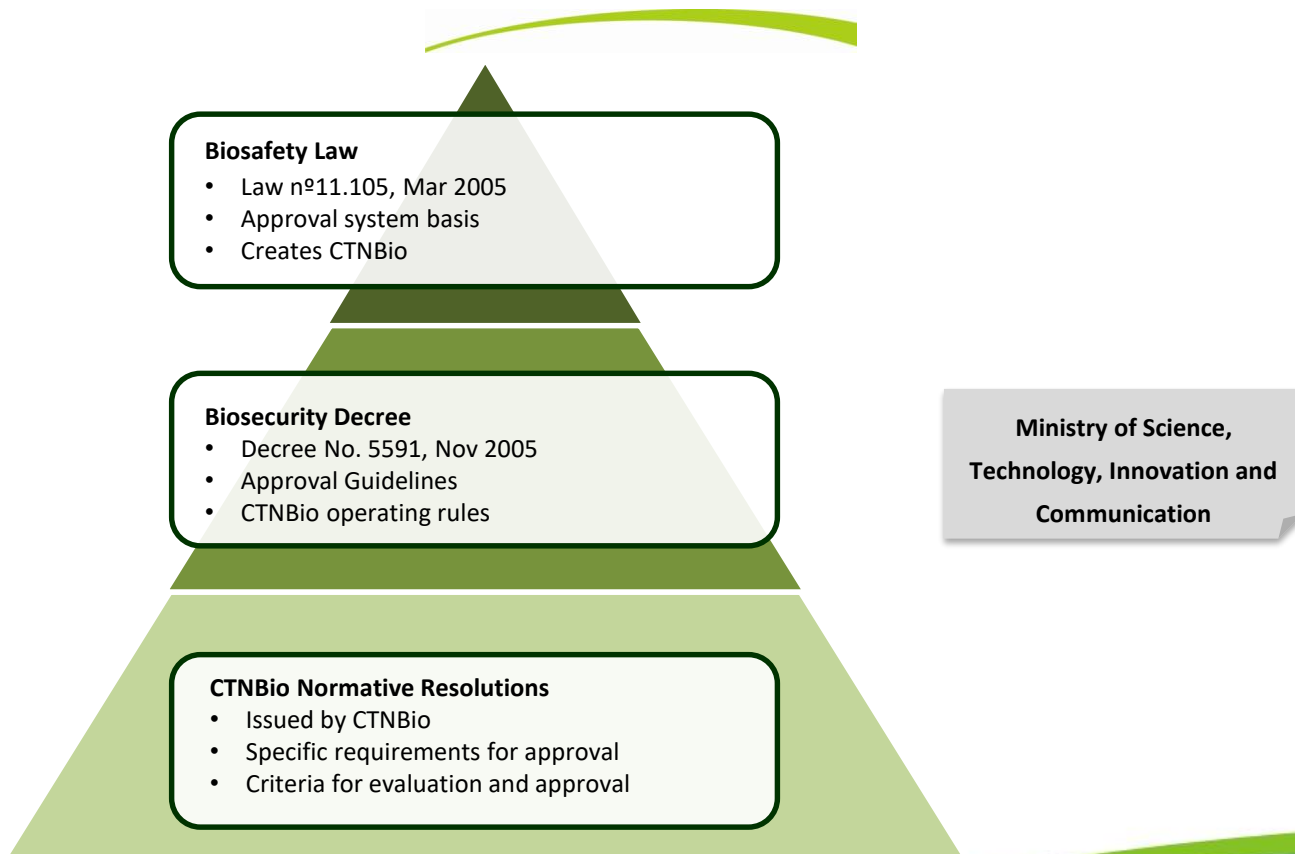


Current status of GM approvals in Brazil

Paulo Campante



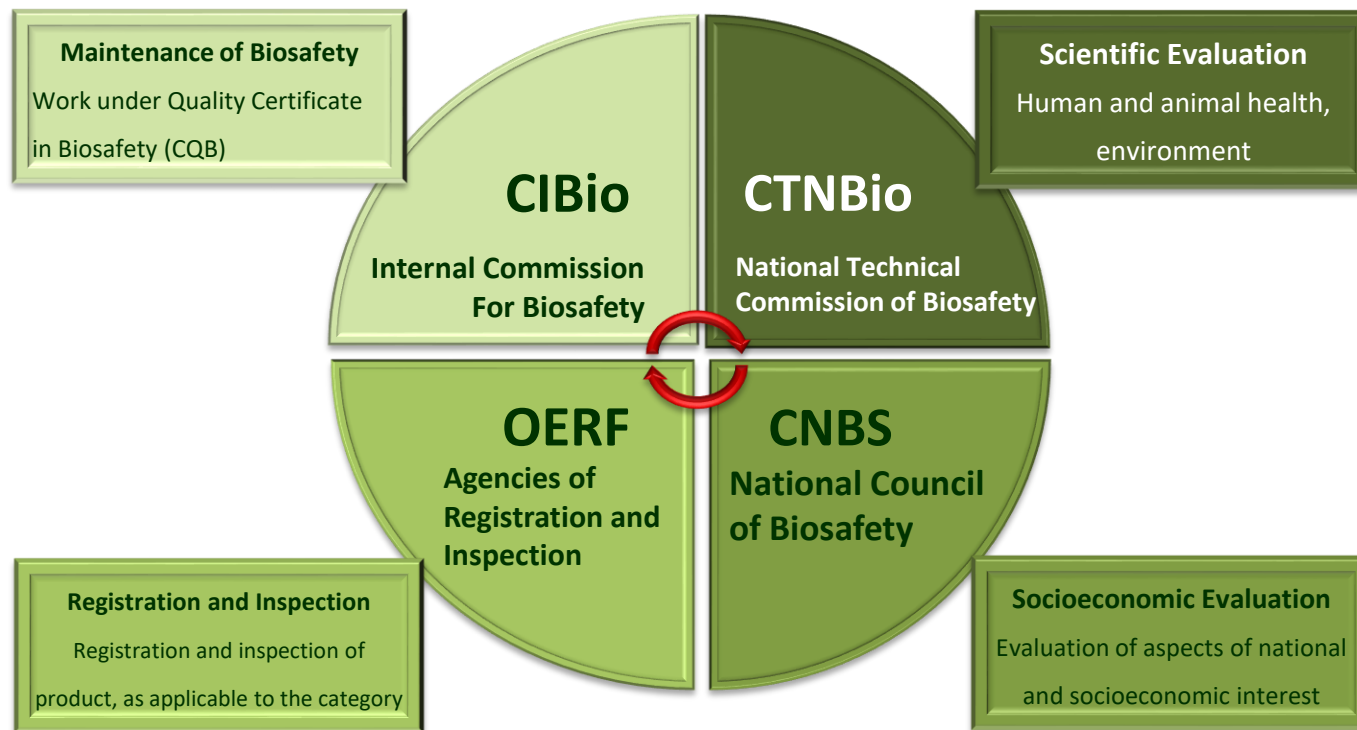
Regulatory Framework - Brazil



Source: Agrobio, 2017



Regulatory Framework - Brazil



Source: Agrobio, 2017



Regulatory Framework - CTNBio

12 Scientists

Members appointed by MCTIC, with well-known scientific expertise in their fields of expertise, to ensure that CTNBio's decisions are science-based:

- 3 in the area of human health
- 3 in the area of animal health
- 3 in the vegetable area
- 3 in the area of environment

Ad hoc commissions

Chosen from a list of 3 names prepared by scientific entities

9 Representatives of Ministries

A nominee from each Ministry, to ensure that CTNBio's decisions are aligned with its specific policies and guidelines:

- MCTI (Science and Technology)
- MAPA (Agriculture and Livestock)
- MS (Health)
- MMA (Environment)
- DA (Agrarian Development)
- MDIC (Industry and Commerce)
- MD (Defense)
- MPA (Fisheries and Aquaculture)
- MRE (Foreign Relations)

6 Experts by Topic

A nominee from each Ministry to ensure that CTNBio's decisions are aligned with their needs and technical guidance:

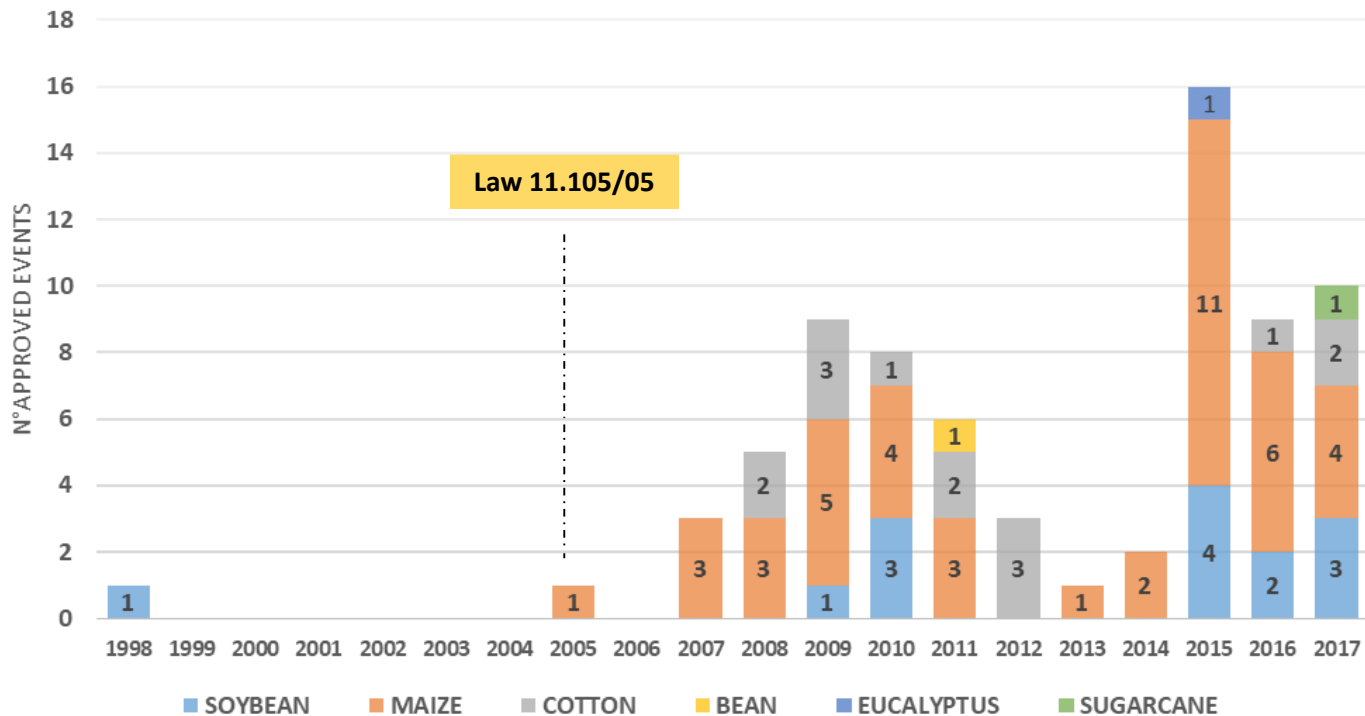
- Consumer Law (Justice)
- Health (Health)
- Environment (Environment)
- Biotechnology (Agriculture and Livestock)
- Family Agriculture (Development)
- Worker's Health (Work.)

Triple list public consultation

Source: Agrobio, 2017



OGMs Approved - Brazil



Source: Abrasem, 2017



OGMs traits - Brazil

Maize (37)

T25	MON 810	Bt11	NK 603
GA21	TC 1507	Bt11 x GA21	MON 810 x NK603
MIR162	MON 89034	TC1507 x NK603	Bt 11 x MIR 162 x GA21
MON 89034 x NK603	MON 89034 x TC1507 x NK603	MON 88017	TC1507 x MON 810 x NK603
TC 1507 x MON 810	MON 89034 x MON 88017	TC1507 x DAS-59122-7	MIR 604
Bt11 x MIR162 x MIR604 x GA21	DAS-40278-9	NK603 x T25	TC1507 x MON 810 x MIR162 x NK 603
TC1507 x MON 810 x MIR162	DAS-40278-9 x NK603	5307	Bt11 x MIR162 x MIR604 x TC1507 x 5307 x GA21
SPT 32138	MON 89034 x TC1507 x NK603 x DAS 40278-9	MON89034 x MON88017 x TC1507 x DAS-59122-7	MON87411
MON 87427	MON 87460 (FF)	3272 (FF)	Bt11 x MIR162 x MON 89034 x GA21
MON 89034 x TC1507 x NK603 x MIR162			

Soybean (14)

GTS-40-3-2
BSP CV127-9
A 2704-12
A 5547-127
MON 87701 x MON 89788
DAS 68416-4
FG72
FG72 x A5547-127
DAS 44406-6
DAS 81419-2
MON 87708
MON 87708 x MON 89778
MON 87751
DAS-44406-6 x DAS-81419-2

Eucaliptus (1)

H421

Bean (1)

Embrapa 5.1

Sugar Cane (1)

H421

Cotton (15)

MON 531
LL COTTON 25
MON 1445
281-24-236/3006-210-23
MON 15985
MON 531 x MON 1445
GHB 614
GHB 119 x T 304-40
MON 88913
GlyTol x TwinLink
GlyTol x LibertyLink
MON 15985 X MON 88913
COT102 x MON15985 x MON88913
GlyTol x TwinLink x COT102
MON 87751

Source: Agrobio, 2017



OGMs traits - Brazil

Vaccine (25)

VAXXITEK MD/IBD	VERTORMUNE FP-LT+AE
RECOMBITEK	INNOVAX ND
SUVAXYN PCV2	PROTEQFLU
PORCILIS CIRCUMVENT	PROTECFLU TE
IGELVAC CIRCOFLEX	PRO-VAC CIRCOMASTER
POULVAC E. COLI	B058
VECTORMUNE FP-MG+AE	VECTORMUNE HVT LT
VECTORMUNE FP-MG	BOVELA
VECTORMUNE HVT-NDV	HIPRABOVIS IBR MARKER LIVE
VECTORMUNE HVT-IBD	BIOTECH VAC SALMONELLA
POULVAC ST	PUREVAX
INNOVAX	PROTEQFLU
VECTORMUNE FP-LT	

MGM (15)

Levedura - CEPA Y1979
Levedura - CEPAY5056
Microalga - Linhagem S2014
Levedura - Linhagem RN1016
Derivado de Microalga – Bioproducto Linhagem S5223
Levedura - Linhagem Celere-2L
Microalga - Linhagem S5223
Microalga - Linhagem S6697
Derivado - Bay98
Derivado de OGM-Protease
Microalga - Linhagem S8695
Levedura - CEPA M10682
Microalga - Linhagem S8885
Levedura - CEPA S1260
Derivado – OGM alfa-amilase

Medicine (1)

Talimogeno Laerparepeveque
(Vírus)

Mosquito (1)

Linhagem OX513A
(Aedes aegypti)

Source: Agrobio, 2017



OGMs traits - Brazil

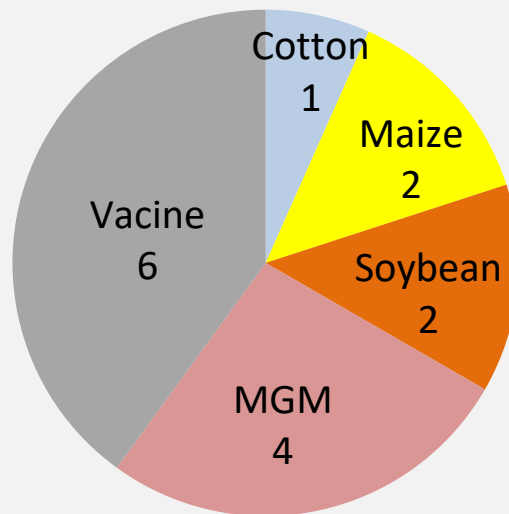
Approved

113 traits



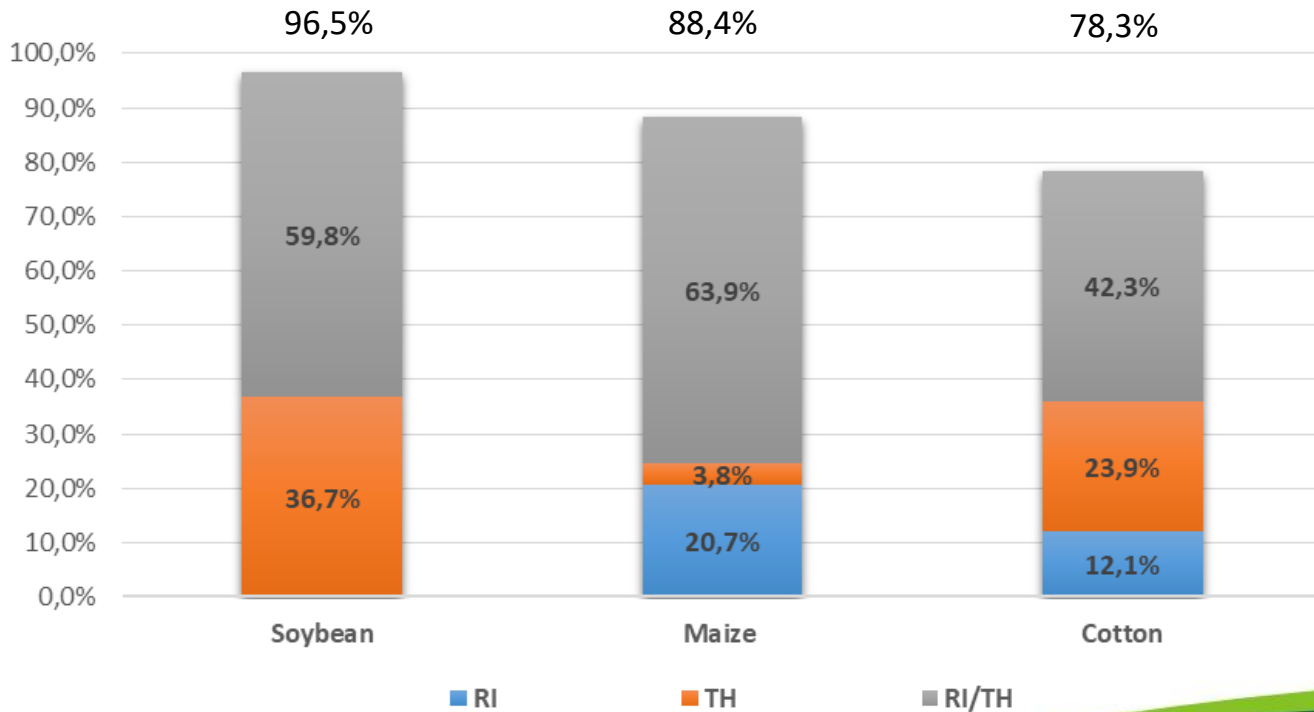
Under CTNBio evaluation

15 products





OGMs Adoption - Brazil



Source: Céleres, 2017

Thank you for your attention!

