# How do agencies/ministries with shared responsibilities work together

**Session 3: Biosafety and conventionally-bred animals** 

4th International Workshop on Regulatory Approaches for Agricultural Applications of Anima Biotechnologies

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- In the Brazilian Constitution of 1988, the Principle of Separation of Powers is set out in art. 2, under the title of fundamental principles, and constitutes one of the four essential clauses of the Brazilian legal system.
- In it, it is determined that "the Legislative, Executive and Judiciary are Powers of the Union, independent and harmonious with each other".





### The Public Ministry -

- The Public Ministry is an agency that is not part of any of these powers, but is directly related to all of them.
- The Public Ministry is an institution whose responsibility is to maintain the legal order in the State and to supervise the public authorities in various spheres.
- Its participation in Brazilian justice processes grants it a jurisdictional function that is, it contributes to the good administration of justice.

## Ministries of Brazil - 23

- Ministry of the Environment;
- Ministry of Women, Family and Human Rights;
- Ministry of Agriculture, Livestock and Supply;
- Ministry of Education;
- Ministry of Science, Technology and Innovation; Ministry of Science, Technology and Innovation;
- Ministry of Defense;
- Ministry of Health;
- Ministry of Tourism;
- Ministry of Infrastructure;
- Ministry of Mines and Energy;
- Ministry of Foreign Affairs

- Ministry of Citizenship;
- Ministry of Communications;
- Ministry of Agriculture, Livestock and Supply;
- Ministry of Regional Development;
- Ministry of Econmy;
- Ministry of Education;
- Ministry of Justice ;
- Ministry of General Coordination of the Union;
- Ministry of labor and pension;
- Institutional Safety

### **Ministries of Brazil**

- Ministry of the Environment;
- Ministry of Agriculture, Livestock and Supply;
- Ministry of Health;
- Ministry of Science, Technology, Innovations and Communications;

## Ministry of Environment

- responsibility to preserve Brazil's natural resources
- controls the IBAMA (Brazilian Institute of the Environment and Renewable Natural Resources)







Ibama capacita 50 militares em prevenção e combate aos incêndios florestais

09/09/2022 11h30



Operação Floresta Pública combate crime de exploração irregular de madeira

08/09/2022-15h53



01/09/2022 17h38

## Ministry of Agriculture, Livestock and Supply

- The Ministry of Agriculture, Livestock and Supply (MAPA) is responsible for managing public policies to encourage agriculture, promoting agribusiness and regulating and standardizing services linked to the sector.
- <u>Plant and animal products, including the GMO products approved</u> by CTNBio for comercial release.

## Ministry of Health

Fundamental role for the public health of Brazilians

- I national health policy;
- II coordination and inspection of the Unified Health System;
- III environmental health and actions to promote, protect and restore individual and collective health, including that of workers and indigenous peoples;
- IV health information;
- V critical health supplies;
- VI preventive action in general, surveillance and sanitary control of borders and sea, river, lake and air ports;
- VII health surveillance, especially regarding drugs, medicines and food; and
- VIII scientific research and technology in the health area.

# Ministry of Science, Technology and Innovation

- The objective is the promotion of scientific production strategies, the inspection of initiatives and materials and the promotion of technology in the country.
- The functions are:
- I national scientific and technological research and innovation incentive policies;
- II planning, coordination, supervision and control of science, technology and innovation activities;
- III information technology and automation development policy;
- IV national biosafety policy;
- V space policy;
- VI nuclear policy;
- VII export control of sensitive goods and services; and
- VIII articulation with the governments of the States, the Federal District and the Municipalities, with society and with federal government agencies, with a view to establishing guidelines for national policies on science, technology and innovation.

### Regulatory agencies in Brazil

- Created recently in Brazil 1990's
- Regulatory agencies are governmental bodies whose purpose is to regulate and/or supervise the activity of a particular sector of the economy.
- They interconnect interests of users, providers of services and the Executive Power

### Regulatory Agencies of the Brazilian government



# ANVISA – National Agency for Sanitary Surveillance

- Its institutional purpose is to promote the protection of the population's health, through the sanitary control of the production and consumption of products and services subject to sanitary surveillance, including the environments, processes, inputs and technologies related to them, as well as the control of ports, airports, borders and customs facilities.
- COSMETICS, HUMAN VACCINES, TOBACCO, DRUGS,
- LABORATORIES
- <u>ALL PRODUCTS FOR HUMAN USE, including the GMO products</u> <u>approved by CTNBio for comercial release.</u>



## GMO Policy in Brazil CTNBio linked to the MCTI

- Law 11.105/2005
- Decree 5.591/2005
- **CTNBio Resolutions**

### **Brazilian Biosafety Regulation**

### Historical context of GMO and Gene-editing Regulation

#### 1995

#### Federal Law 8.974

- Biosafety Law
- First GMO regulation

#### 1998

First GMO Commercial Approval

Roundup Ready Soybean

#### 2004

#### Scenarium

- No other GMO product got commercial licence
- Biosafety legislation proved to be nonfunctional

1995 - 2005

#### 2005

Law 11.105/2005 Second Biosafety Law

#### 2006

• Normative Resolution Nº 1

• Normative Resolution Nº 2

#### 2007

• Normative Resolution Nº 4

#### 2008

• Normative Resolution Nº 5

#### 2009

Scenarium

- 19 GM Plants Comercial Approval
- First GM Microorganism
  Commercial Approval Request
  Strain Y1979 Amyris

2005 - 2009

#### 2015

### Experts Working GroupElaboration of specific rules for consult for gene editing

#### 2018

Normative Resolution Nº 16 Specific rules for consult for NBTs

#### 2018

First consults of microorganisms First consults of plants First consults of animals First consult of vaccines (canine)

2010 - 2018

### Law nº 11.105, dated March 24th, 2005

"Biosafety Law"

Provides for safety norms and inspection mechanisms for activities with GMOs and their by-products

### CTNBio

- Created by laws 8974 and renewed by Law 11.105 March 24, 2005
- 54 members (27 members and 27 alternates), all scientists holding a PhD title.
- All approvals need 14 votes



comissão técnica nacional

CTNBio de biossegurança



27 Professionals with Ph.D. Degrees









### Brazilian model of GMO regulation

- Process and product regulation
- Science-based and case by case assessment
- The same biosafety law for plants, microorganisms, vaccines, animals.
- Robust and transparent technical assessment.
- Evaluates labs, researchers, projects, planned releases in the environment, and comercial releases.

### Legal definition of GMO (Law 11.105/2005)

Genetically modified o	rganism	
Genetically modified organism - GMO refers to an organism whose genetic material, DNA/RNA, has been altered by any genetic engineering technique;	<u>Genetic engineering</u> Genetic	Recombinant DNA/RNA
	engineering refers to the production and manipulation of <u>recombinant</u>	Molecules that are <u>manipulated outside living</u> <u>cells</u> by altering natural or synthetic DNA/RNA segments and that can <u>multiply</u> <u>themselves in a living cell,</u> or
	<u>DNA/RNA</u> <u>molecules;</u>	the DNA/RNA molecules resulting from this multiplication; they also refer to the synthetic DNA/RNA

segments equivalent to

natural DNA/RNA segments





General procedure for a case-by-case consultation at CTNBio for a product generated by INIT, according to Normative Resolution No. 16. If the product is designated to be GM, the developer will have to go through all the biosafety requirements and will be approved only after the CTNBio risk assessment. If the product is designated as not GM (for the purposes of the legislation), it can be registered using the existing procedures.

