# BRAZILIAN INITIATIVES ON CIRCULAR AND SUSTAINABLE BIOECONOMY

MINISTÉRIO DA CIÉNCIA, TECNOLOGIA E INOVAÇÃO





## **BRAZILIAN SCENARY**





**AGROBUSINESS** 



TROPICAL AGROPECUARY RESEARCH



**BIODIVERSITY** 



PIONEERING IN
BIOFUELS POLICIES



ACADEMIC SECTOR
OF GLOBAL
RELEVANCE



STRUCTURED BUSINESS
SECTOR

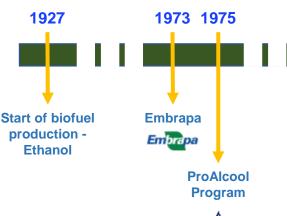
Brazil: Natural Aptitude for Bioeconomy

### **BRAZILIAN BIOECONOMY TIMELINE**

MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E INOVAÇÃO

2017 - 2023





PROÁLCOOL







**IPCC CBD UNCCD** 





















Joint Plan for Technology and Industrial Innovation in the Sugar-Energy and Sugar-**Chemical Sectors (2011)** 



**Brazilian Plan for Low** 

**Carbon Emission Agriculture** 

**ABC Plan (2010)** 

Fórum de Bioeconomia (2012 / 2013 / 2014)



**Brazilian Company of Industrial Research** and Innovation (2013)



2008 - 2016

**SENAI Innovation** Institute (2013)



**Chemical Industry Development Plan** (2015)



RenovaBio **Biofuel National Policy (2018)** 



**National Integration** Routes Program (2018)



**Brazil Bioeconomy Program:** Sociobiodiversity (2019)



**Opportunities and Challenges of Bioeconomy** (2020)



**Bioinputs National Program (2020)** 



**MCTI Bioeconomy Productive Chains Program (2020)** 



**Program (2020)** 



Second Phase -ABC+ Plan (2020)



**Bioeconomy and Sustainable Regional Development Program (2023)** 

### **BRAZILIAN BIOECONOMY PLANNING**











Science, Technology and Innovation Action Plan for Bioeconomy (2018)



Science, Technology and Innovation Strategy on Bioeconomy (2023)



Pará State Bioeconomy Plan (2022)



Municipal Bioeconomy Plan of Itu (2023)

**FEDERAL LEVEL** 

**STATE LEVEL** 

**MUNICIPAL LEVEL** 

## BRAZIL IS ELABORATING ITS BIOECONOMY GOVERNANCE AT FEDERAL LEVEL

**ECOLOGICAL TRANSITION** 

(New Sustainable Development Plan)

**NEOINDUSTRIALIZATION** 

(New Industrial Policy)



### **ST&I PLANNING**



National Strategy for Science, Technology, and Innovation - 2016 | 2022



Strategic Issues



Science, Technology, and Innovation Action Plan for Bioeconomy (MCTI, 2018)







#### **ODBIO PROJECT**

Opportunities and Challenges of Bioeconomy







## **KEY QUESTIONS**

Mobilization of actors for the understanding, engagement and joint construction of the Brazilian

## WHAT IS THE BRAZILIAN BIOECONOMY?



Conceptual field of brazilian bioeconomy

#### WHO DEVELOPS IT?



Mapping of competencies and capabilities in RD&I

#### **HOW TO THINK ABOUT IT?**



Knowledge Hub Model / Brazilian Bioeconomy Intelligence Center

#### bioeconomy IT? HOW TO COORDENATE IT?



Governance at federal level

#### **HOW TO DEVELOPED IT?**



Mission Oriented Programs (opportunities and challenges to structure, mobilize and direct the development of the bioeconomy)

## HOW TO PROMOTE IT? WHERE TO DISCUSS ABOUT IT?



National Conference of Brazilian Bioeconomy (proposal to structure a national event bringing together the main players in the sector)

## ST&I STRATEGY FOR BIOECONOMY

(under elaboration)

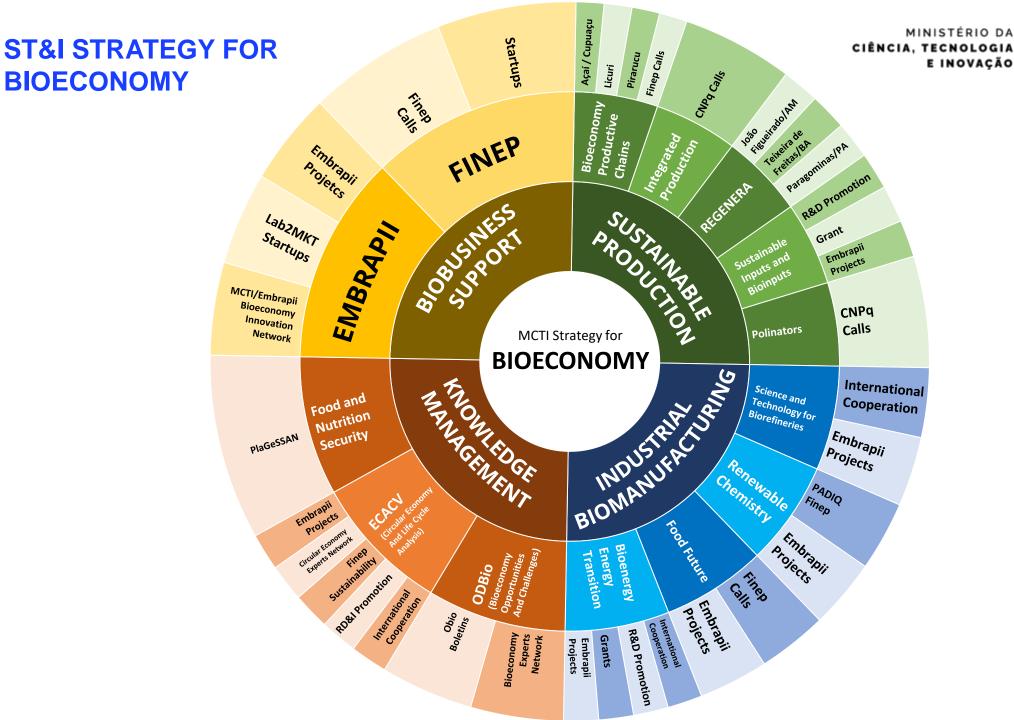


## WHAT IS THE CONCEPTUAL FIELD OF BRAZILIAN BIOECONOMY?

The bioeconomy comprises all economic activity derived from bioprocesses and bioproducts that contribute to efficient solutions in the use of biological resources - facing the challenges in food, chemicals, materials, energy production, health, environmental services and environmental protection - that promote the transition for a new model of sustainable development and society's well-being.





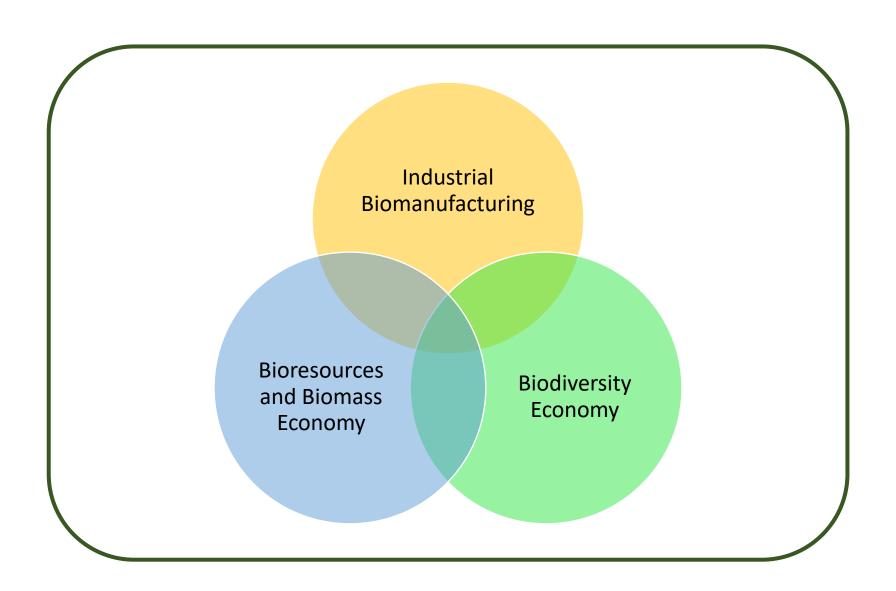


**GOVERNO FEDERAL** 

UNIÃO E RECONSTRUÇÃO

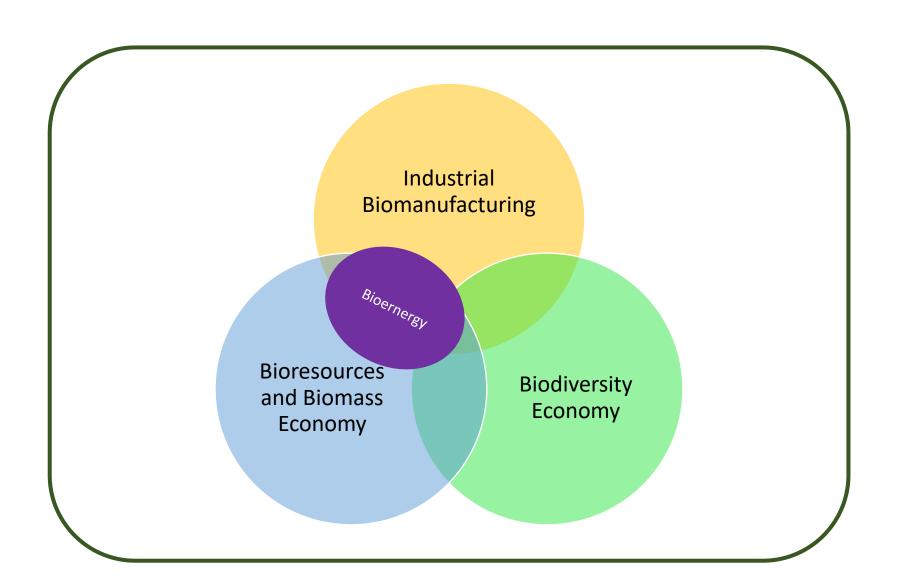


## **BRAZILIAN BIOECONOMY MAIN THEMES**





## **BRAZILIAN BIOECONOMY MAIN THEMES**



# MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E INOVAÇÃO



Coordenation of Programs and Projects for Bioeconomy

+55 (61) 2033-7827

bioeconomia@mcti.gov.br

www.gov.br/mcti