

MCTI ACTIONS FOR THE DEVELOPMENT OF THE CIRCULAR AND SUSTAINABLE BIOECONOMY



Amazon Week 2024 – Brussels

ST&I and Sustainable Finance as Core Pillars for Bioeconomy in the Amazon

Brussels, Belgium

September 25th, 2024

apexBrasil 

EMBASSY OF
BRAZIL
BERLIN

MISSION

MINISTÉRIO DA
CIÊNCIA, TECNOLOGIA
E INOVAÇÃO



MINISTRY OF SCIENCE, TECHNOLOGY AND INNOVATION

Produce knowledge

Producing wealth for Brazil

Contribute to the quality of life of Brazilians

*MCTI Ordinance No. 4,578, of March 22th, 2021
Integrated ST&I Value Chain.*



National Strategy for Science, Technology, and Innovation - 2016 | 2024



Strategic Issues



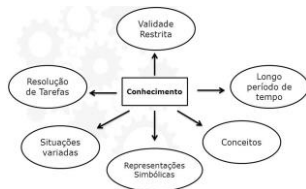
Science, Technology, and Innovation Action Plan for Bioeconomy (MCTI, 2018)



KEY QUESTIONS

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

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

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)

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.



THE SPECTRUM OF BRAZILIAN BIOECONOMY

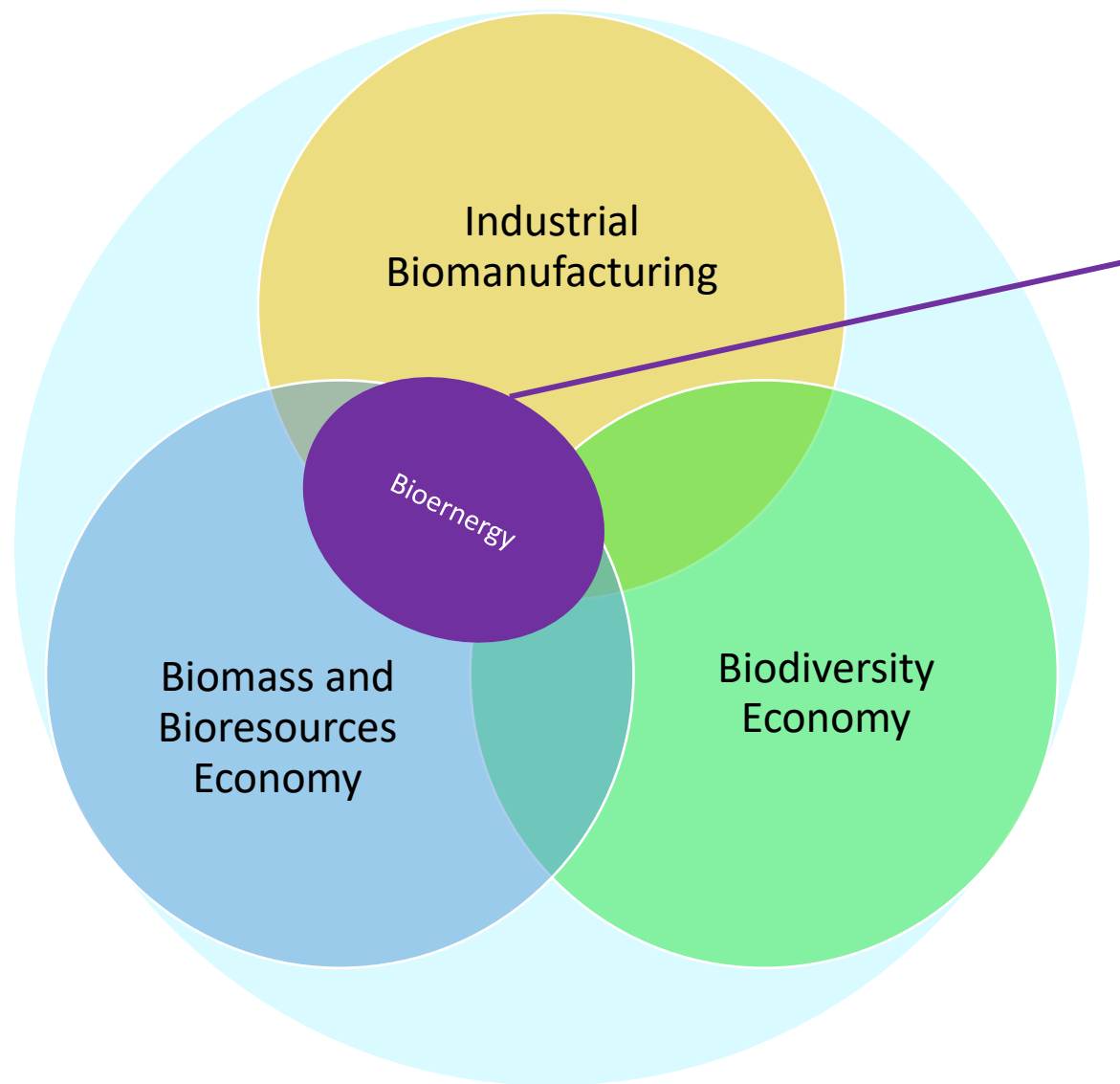
(under elaboration)

THE MULTIPLE BIOECONOMIES

Possible sectoral and thematic representation of the Brazilian bioeconomy
(model under development)

POSSIBLE CHARACTERIZATION OF BRAZILIAN BIOECONOMIES

- Sectorial
- Thematic
- Regionalization



FUTURE BIOENERGY SCENARIO

Expansion in the application/use of biodiversity, including new biomass and the development of enzymes and biological platforms based on Brazilian biodiversity.

New industrial (biorefineries) and scientific-technological capacities are necessary for the production of advanced biofuels and bioproducts with very high added value with high spillover potential and technological densification.

SCIENCE, TECHNOLOGY AND INNOVATION STRATEGY FOR BIOECONOMY

(under elaboration)

MINISTÉRIO DA
CIÊNCIA, TECNOLOGIA
E INOVAÇÃO



BIOBUSINESS SUPPORT

Embrapii / Finep

SUSTAINABLE PRODUCTION

Adding Value in Biodiversity Production Chains

Integrated and Sustainable Production Systems

Regeneration of Forest and Degraded Areas

Sustainable Inputs and Bio-Based Inputs

Pollinators and Pollinization

Blue Bioeconomy

Indigenous Bioeconomy

BIOMANUFATURA INDUSTRIAL

STI for Biorefineries

Renewable Chemicals

Food Future

Energy Transition and Efficiency - Bioenergy

KNOWLEDGE MANAGEMENT

ODBio / ECACV



The **MCTI BIOECONOMY PRODUCTIVE CHAINS PROGRAM** aims to foster scientific research, technological development, and innovation for the **promotion, aggregation, and retention of value in Brazilian biodiversity production chains**, considering their sustainability and the **improvement of the quality of life of the populations** that depend on them. To this end, it focuses on developing **new products, inputs, materials, and services** from and for these chains, contributing to the **sustainable development** of populations in all Brazilian biomes.

(MCTI Ordinance No. 3,877, of October 9th, 2020).



MCTI BIOECONOMY PRODUCTIVE CHAINS PROGRA

MCTI Ordinance nº 3.877/2020



CADEIAS PRODUTIVAS DA
BIOECONOMIA
MCTI

R\$ 6,5 millions

Pilot-projects

OBJECTIVES

Science, Technology, and Innovation to solve bottlenecks and take advantage of opportunities

Aggregation and retention of values by communities

Regularization, certification, and access to markets

Development of new products, technologies, inputs, and services

Circular Bioeconomy: use of waste and co-products

Sustainability



ÇAÍ / CUPUAÇU

Small-scale food factories;
Production of dehydrated and powdered foods;
Renewable energy (photovoltaic, solar and biomass);
Good Production Practices.

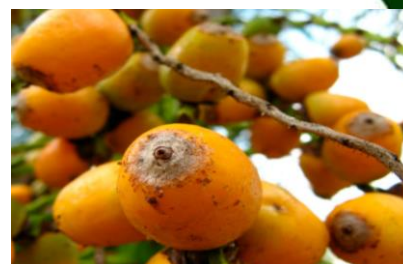
R\$ 2,5 millions



PIRARUCU

Floating processing unit;
State Inspection Service – SIE;
Social technologies, renewable energy, and local materials;
Good Production Practices.

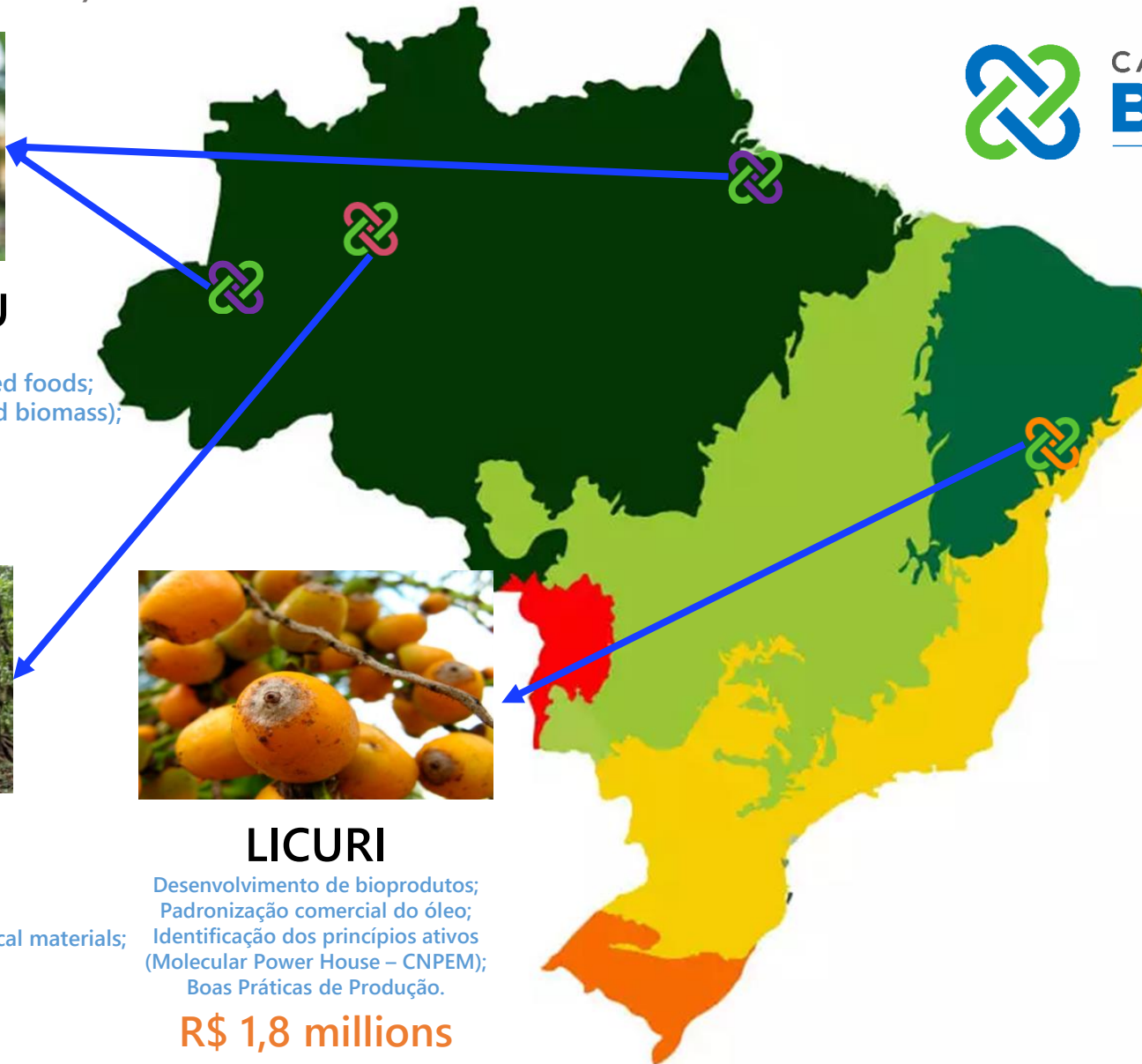
R\$ 2,2 millions



LICURI

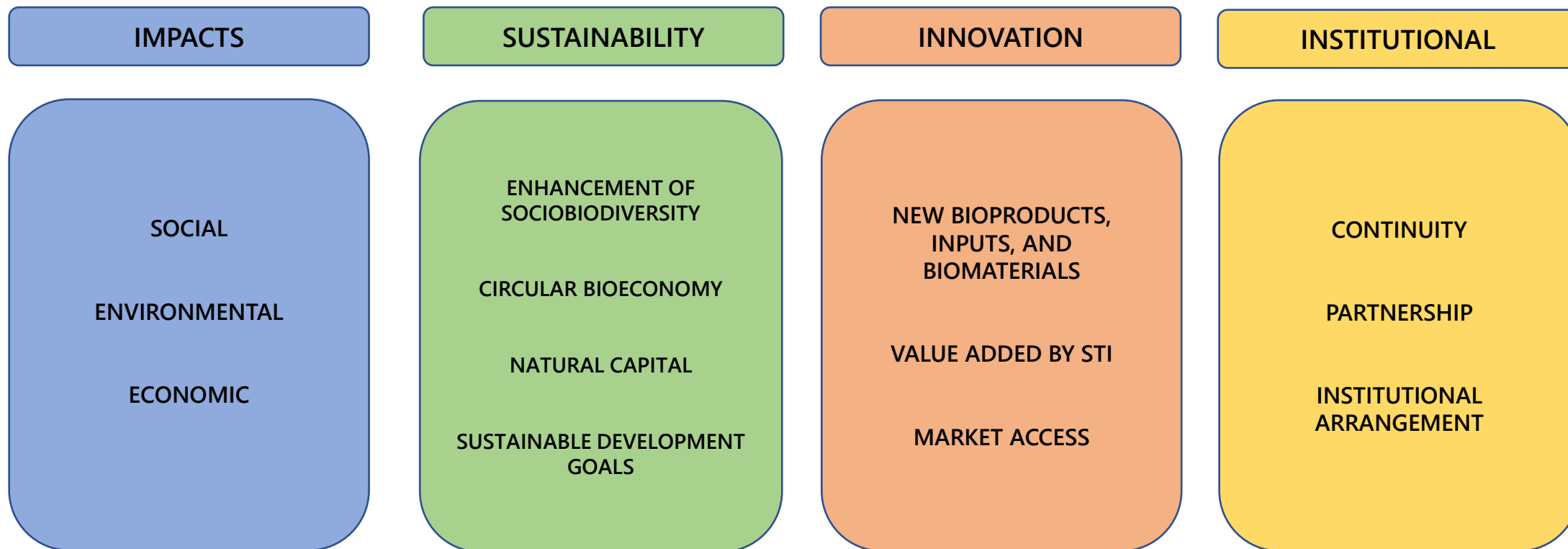
Desenvolvimento de bioprodutos;
Padronização comercial do óleo;
Identificação dos princípios ativos
(Molecular Power House – CNPEM);
Boas Práticas de Produção.

R\$ 1,8 millions



ELIGIBILITY AND SELECTION CRITERIA

(Defined by the Program Management Committee - SEPEF Ordinance No. 4,606/2021)



MCTI BIOECONOMY PRODUCTIVE CHAINS PROGRA

MCTI Ordinance nº 3.877/2020

MINISTÉRIO DA
CIÊNCIA, TECNOLOGIA
E INOVAÇÃO



MCTI/FINEP/FNDCT PUBLIC CALLS: MCTI BIOECONOMY PRODUCTIVE CHAINS PROGRAM

OBJECT

Support for projects that promote solutions to scientific and technological bottlenecks faced in the structuring and strengthening of production chains based on Brazilian biodiversity

TARGET AUDIENCE

Scientific, Technological and Innovation Institutions (ICT), public or private, and Brazilian companies

VALUE

R\$ 121,5 million in non-reimbursable resources, being:
STI Support Notice: R\$ 99,0 million; and
Economic Subsidy Notice: R\$ 22,5 million

TERM

36 months

INFORMATION

www.finep.gov.br



ADITIVADA

CLOSED!

SELECTED:

39 STI Support projects

12 Economic Grant projects



MINISTÉRIO DA
CIÊNCIA, TECNOLOGIA
E INOVAÇÃO



TOTAL DE INVESTIMENTOS

(Projetos-Pilotos e Chamadas Públicas)



VALORES

- Projeto-Pilotos: R\$ 6,5 milhões
- Editais Fomento à ICT: R\$ 99,0 milhões; e
- Editais Subvenção Econômica: R\$ 22,5 milhões

VALOR TOTAL: R\$ 128,0 milhões investidos

REGIÃO	PILOTOS	FOMENTO	SUBVENÇÃO	TOTAL
NORTE	2	3	1	6
NORDESTE	1	9	1	11
CENTRO-OESTE	0	9	3	12
SUDESTE	0	11	4	15
SUL	0	7	3	11
TOTAL	3	39	12	54



MINISTÉRIO DA
**CIÊNCIA, TECNOLOGIA
E INOVAÇÃO**



Coordenation of Programs and Projects for Bioeconomy

+55 (61) 2033-7827

cobio@mcti.gov.br

www.gov.br/mcti