

NATIONAL BIOECONOMY COSTA RICA 2020 - 2030 STRATEGY



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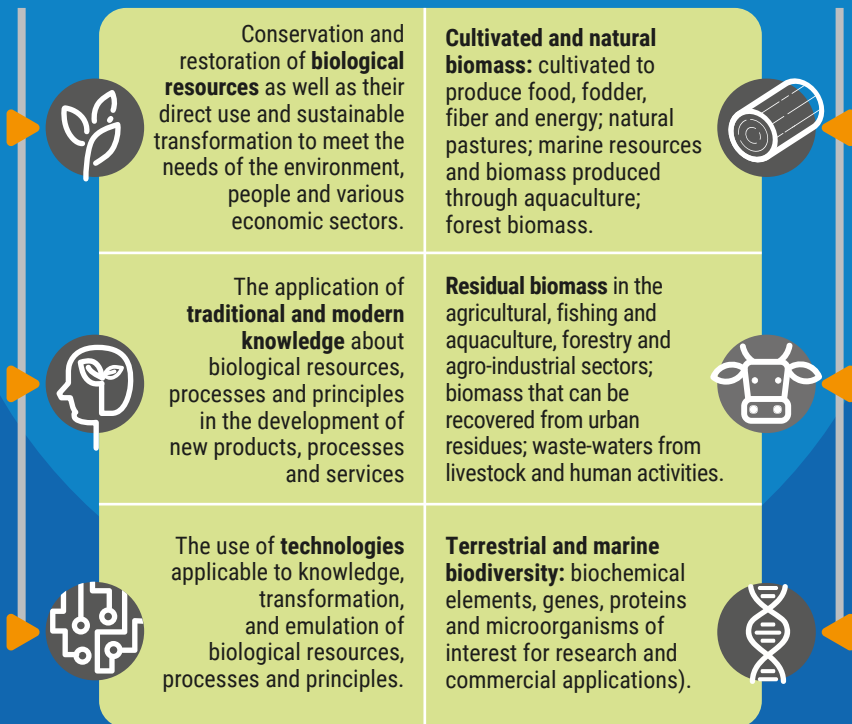


What is bioeconomy?

We consider the bioeconomy as the production, utilization, conservation and restoration of biological resources, including related knowledge, science, technology, and innovation, to provide information, products, processes and services in all economic sectors aiming toward a sustainable economy.

KEY ELEMENTS

BIOLOGICAL RESOURCES



Why the bioeconomy?

▶ Increasing resilience and sustainable use of biodiversity

▶ Strengthening sustainable economic, social and environmental development

▶ Transitioning to a post-fossil-resources society

▶ Promotion and application of scientific knowledge in biological and life sciences



Why the bioeconomy in Costa Rica



Vision

To build a Costa Rica with high-value added sustainable production in all regions and emerging bio-cities, based on the fair and equitable use of biodiversity, the circular utilization of biomass and the country's biotechnological progress as an element of the knowledge society.



Strategic objectives

1

Making Costa Rica a model country in sustainable development, taking advantage of its biological resources to promote social inclusion and equity, balanced territorial development, conservation, knowledge and sustainable use of its biodiversity, and national competitiveness

2

Making the bioeconomy one of the pillars of the productive transformation of Costa Rica, promoting innovation, value addition, diversification and sophistication of its economy, applying the principles of circular bioeconomy and seeking fossil decarbonization of production and consumption processes

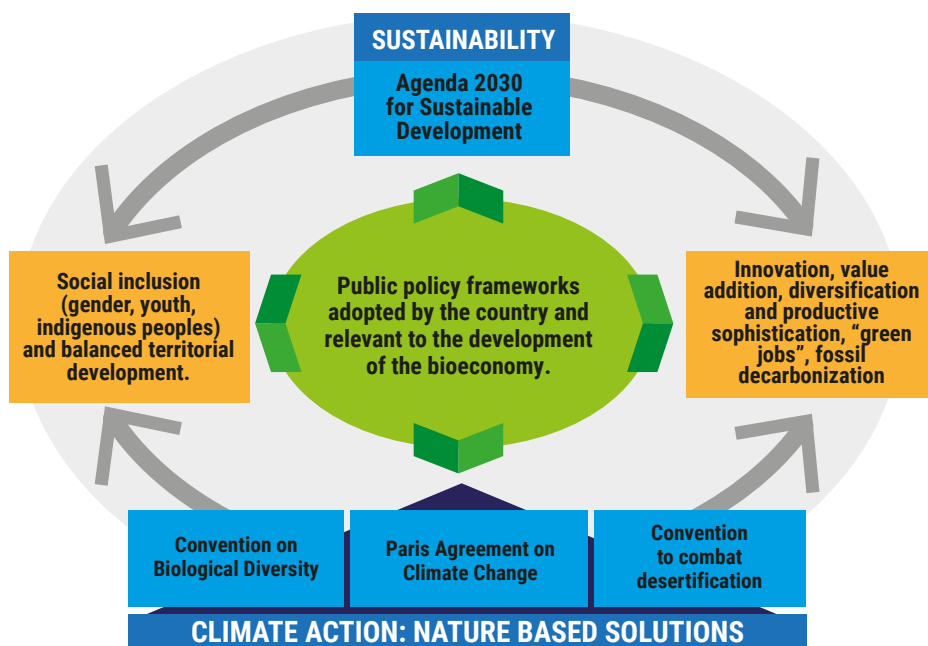
3

Promoting convergence between the country's wealth in biological resources and the use of national capacities in biological sciences for the valorization of that wealth.

Principles

The strategy is guided by the following principles

- **Social inclusion**
 - Gender and youth
 - Indigenous peoples
 - Territorial development
- **Value addition, diversification, productive sophistication and creation of green jobs of quality**
- **Sustainable development**
- **Climate action based on nature based solutions**



Strategic axes

EE1

Bioeconomy for rural development



Objective

Promote sustainable and inclusive rural productive development, based on the diversification and increase of value added in the production of goods and services in agricultural, fishing and forestry activities, promoting the creation of value networks and better environmental management of production processes.

Lines of action

- Sustainable agriculture and with fossil decarbonization.
- Food and ingredients with added value and differentiation attributes.
- Sustainable fisheries and aquaculture.

EE2

Biodiversity and development



Objective

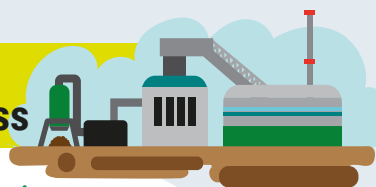
Enhance ecosystem services and the sustainable use of terrestrial and marine biodiversity resources as a new engine for inclusive, sustainable development with high value-added and low greenhouse gas emissions.

Lines of action

- Sustainable use of biodiversity and bio-tourism in biological corridors.
- Promotion of ecosystem services.
- Bioprospecting and economic use of the genetic and biochemical resources of biodiversity.
- Development of digital technology applications (APP) on conservation areas and the natural scenic beauty of the country.

EE3

Biorefinery of residual biomass



Objetivo

Promote the development of new productive activities based on the full use and valorization of residual biomass from agricultural, agro-industrial, forestry and fishing processes.

Lines of action

- Knowledge of residual biomass.
- Bioenergy production.
- Biomaterials production.
- Production of advanced biomolecules and bioproducts of high value.

EE4

Advanced bioeconomy



Objetivo

Encourage the creation of new activities for the development of new innovative biotechnological and bio-nano-technological products, applications and platforms, promoting synergies and alignments between the country's scientific capabilities in biological sciences and the sustainable use of biodiversity resources.

Lines of action

- Establish a favorable business climate for the development of new biotechnology and bio-technology products, applications and platforms.
- Promote entrepreneurship in nano and biotechnologies and related fields.
- Supporting ventures in the piloting and escalation phases.
- Place, in international markets, the new bioproducts, platforms, biotechnological applications, among others.

EE5

Urban bioeconomy and green cities



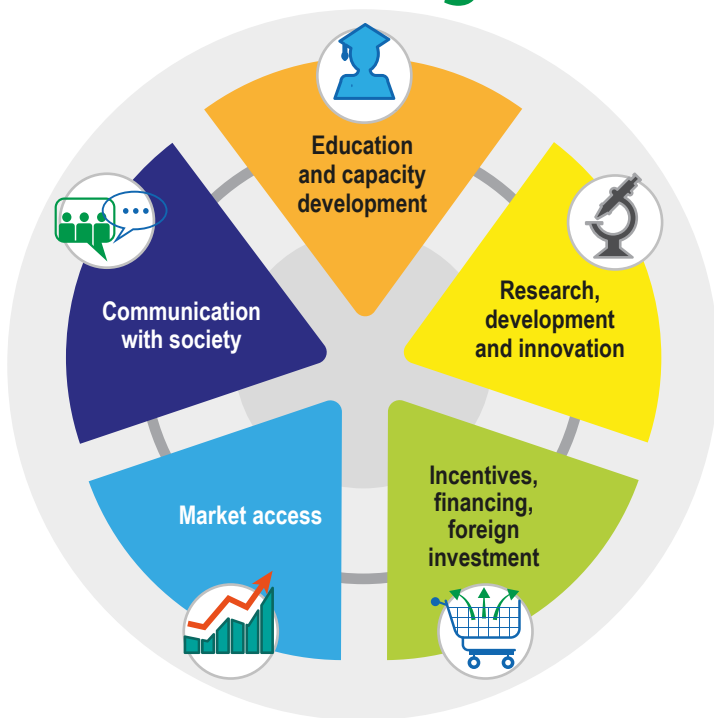
Objective

Promote the application of biological principles in policies and initiatives for urban development, in areas related to solid waste management, the development of spaces for recreation and the construction of buildings.

Lines of action

- Sustainable management and valuation of urban solid waste.
- Interurban biological corridors.
- Urban design inspired by biological principles, processes and systems.

Crosscutting axes



Goals

2020-2022

IMPULSE

- Establishment of the institutional bases for the development of the bioeconomy in Costa Rica.
- Preparation of action plans for the implementation of the Strategy.
- Identify a set of strategic projects to promote the development of the bioeconomy in Costa Rica.
- Identify and manage the resources to start the implementation of a set of the identified strategic projects.

2022-2026

ESCALATION

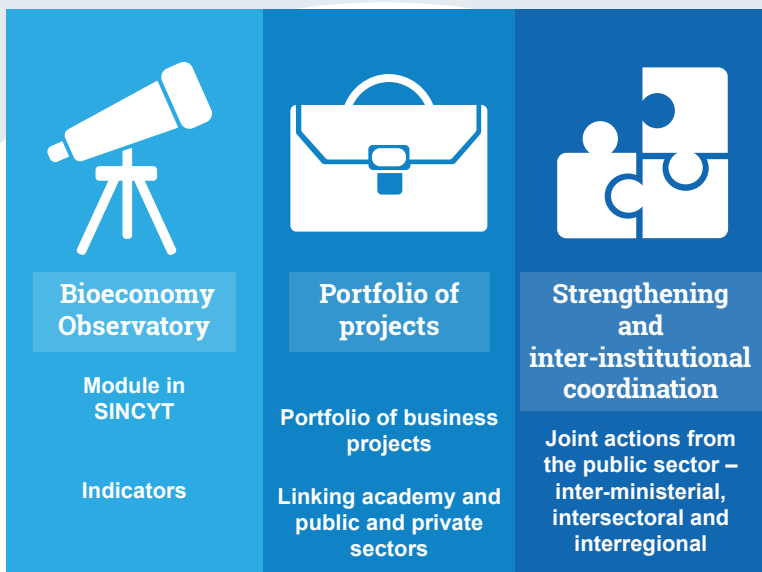
- Consolidation of the institutional and legal to facilitate the escalation of bioeconomy initiatives in Costa Rica.
- Expand the scope of implementation of regional bioeconomy action plans.
- Identify and implement a second round of regional strategic bioeconomy projects and initiatives, focused on high value-added sectors.

2026-2030

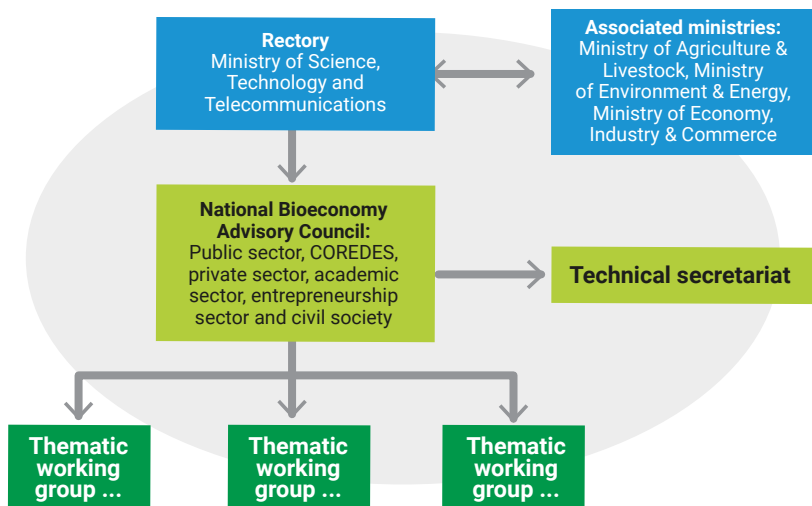
CONSOLIDATION

- Consolidate the bioeconomy as a model for fossil decarbonization and the sustainable development of Costa Rica.
- Consolidate Costa Rica as a model country in the development of the bioeconomy in contexts of high biodiversity.

Plan of action



Governance





Lets always keep in mind...

"Sad the country that does not take science as a guide in its undertakings and in its works. He will be left behind, he will become a tributary to others, and his ruin will be infallible, because in the current situation of modern societies, the one that uses more sagacity and knowledge, must obtain more advantages over the others."

José María Castro Madriz (1844, in the speech for the opening of the University of Santo Tomás), First President of the Republic of Costa Rica

In line with the Global Bioeconomy Summit 2018, we consider the bioeconomy as the production, use, conservation and restoration of biological resources, including the knowledge, science, technology and innovation related to these resources, to provide information, products, processes and services to all economic sectors, with the purpose of advancing towards a sustainable economy.

Technical and financial cooperation



Collaboration

