

# **Global Bioeconomy - challenges and perspectives**

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**International Advisory Council on Global Bioeconomy**

**European Bioeconomy Scientific Forum 2025**  
**Boosting regional and international bioeconomy collaboration and skills**

11.6.2025

# WE ARE FACED WITH MULTIPLE CRISES



**Waste**

**Climate**



**Biodiversity**

**Hunger**



## Different answers by different experts

<b>Agroeconomists</b>	Enhance agricultural productivity, end hunger, reduce food waste
<b>Biotechnologists</b>	Use (bio)technology and nature to build chemicals and materials
<b>Environmental scientists</b>	Restore ecosystems, stop / reverse biodiversity loss
<b>Climate scientists</b>	End the use of fossil fuels
<b>Economists</b>	Incentivize transformative approaches

## Different answers by different experts

Agroeconomists

Biotechnologists

Environmental scientists

Climate scientists

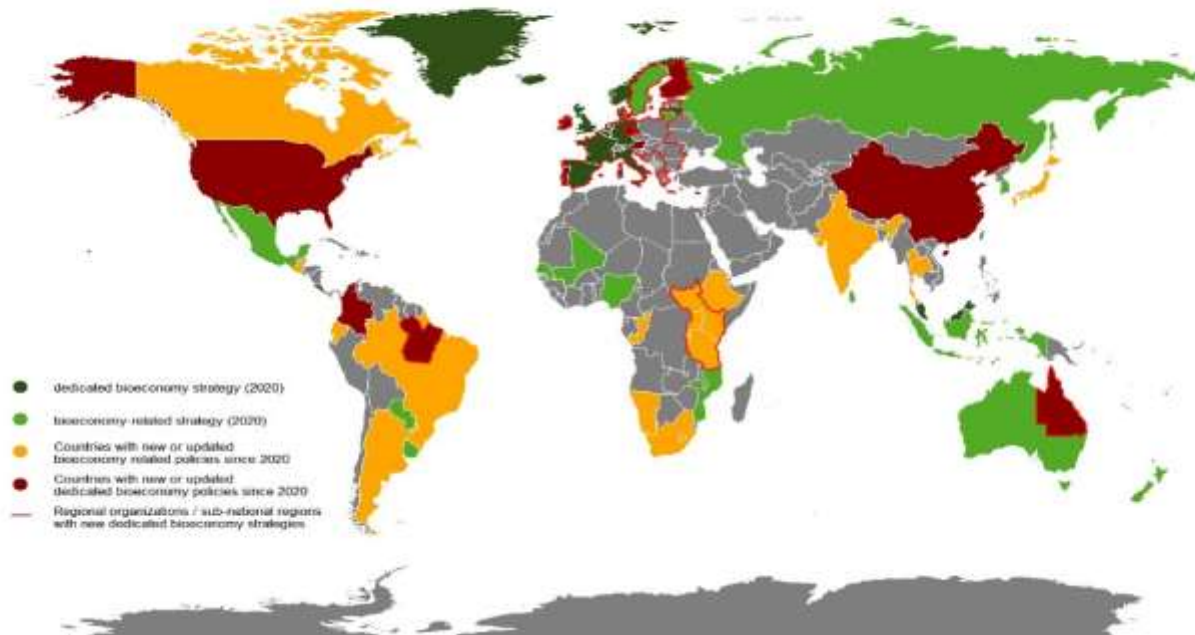
Economists

And more

**They all contribute from their  
sectors to one concept:**

**The Bioeconomy**

## Bioeconomy strategies have been developed in many countries and regions



Dietz et al. 2024; <https://dx.doi.org/10.2139/ssrn.5023374>

## High level policy statements on bioeconomy



*Recognizing the remarkable potential of bioeconomy to contribute to building a sustainable future and fostering economic growth for all, we have decided on the ten voluntary, non-binding High-Level Principles on Bioeconomy.*



Final declaration G20 Brazil 2024

## More high level papers





## Bold strategies



Brussels, 20.3.2024  
COM(2024) 137 final

COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN  
PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL  
COMMITTEE AND THE COMMITTEE OF THE REGIONS

Building the future with nature: Boosting Biotechnology and Biomanufacturing in the  
EU

## EU

In her Political Guidelines presented to the European Parliament in July 2024, Ursula von der Leyen announced a new **European biotech act**, set to be proposed in 2025, to 'bring biotech from the laboratory to the factory and then onto the market'.



## Bold strategies

### China Bioeconomy 2022



China has launched its first five-year plan for the development of the biotechnology economy, vowing to raise the value of the sector to 22 trillion yuan (\$3.3 trillion) and nurture more companies with revenues upward of 10 million yuan.

## Political setbacks

2022



### REPORT TO THE PRESIDENT Biomanufacturing to Advance the Bioeconomy

Executive Office of the President  
President's Council of Advisors on  
Science and Technology

FORBES > BUSINESS > MANUFACTURING

### White House Unveils Strategy To Grow Trillion Dollar U.S. Bioeconomy

John Cumbers Senior Contributor @  
Synthetic biology author.

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Sep 12, 2022, 09:00am EDT

2025

US Bioeconomy

📅 March 20, 2025

### President Trump Revokes 2022 EO on Advancing Biotechnology and Biomanufacturing

## From strategies and political commitments to implementation?

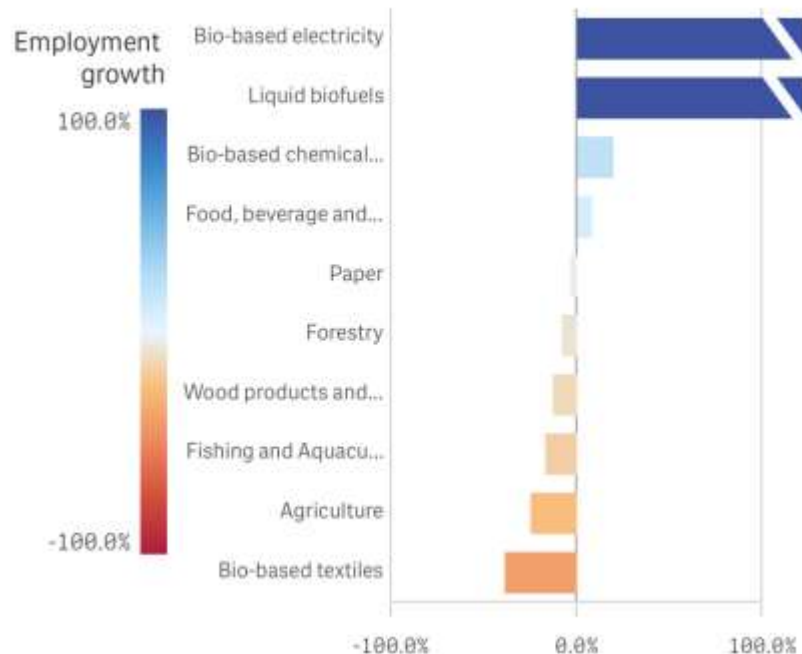
Development of the number of people employed in selected sec...  
(number of people employed)



### Jobs and Wealth in the European Union Bioeconomy (Biomass producing and converting sectors)

Results from a collaboration between the JRC and the nova-Institute [↗](#)

Employment growth between 2008 and 2022 in EU27



[https://knowledge4policy.ec.europa.eu/visualisation/jobs-wealth-european-union-bioeconomy\\_en](https://knowledge4policy.ec.europa.eu/visualisation/jobs-wealth-european-union-bioeconomy_en)

**Bioeconomy is not an automatic success.**

**What is hindering a stronger implementation of bioeconomy strategies?**

- Fear for change
- Cost of scaling up
- Persistence of traditional industries
- No willingness to do with less  
(mobility, consuming)

## Bioeconomy is not an automatic success.

~~What is hindering a stronger implementation of bioeconomy strategies?~~  
**What can bring change? Focus on solutions!**

- Fear of change
- Cost of scaling up
- Persistence of traditional industries
- No willingness to do with less (mobility, consuming)
- Economic prosperity and resilient value chains
- Investment opportunities
- Health and well-being
- Food security and food quality
- Climate resilient cities

## Focus on solutions!

- Education and jobs
- Local initiatives
- Innovations and Financing
- Global cooperation for impact

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❖ Global Bioeconomy Summit



**Next**

**Global Bioeconomy Summit**

October 2026 in Dublin, Ireland



## Focus on solutions!

- Education and jobs
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- Global cooperation for impact
  - ❖ Global Bioeconomy Summit
  - ❖ Think tank IACGB 2.0 for Global Bioeconomy Partnership



## Focus on solutions!



International  
Advisory Council on  
Global Bioeconomy

- Global cooperation for impact – think tank IACGB 2.0 for **Global Bioeconomy Partnership**



INTERNATIONAL  
BIOECONOMY  
FORUM





**International  
Advisory Council on  
Global Bioeconomy**

**Thank you!**

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