GENB
YOUNG BIOVOICES
FOR A SUSTAINABLE FUTURE

GenB Educational Model

Empowering educators to inspire the next generation of bioeconomy leaders

A science-based, interactive, and adaptable model to equip young minds with the skills, knowledge, and mindset needed for a sustainable bioeconomy.

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What is Bioeconomy?

A sustainable **economy based on nature and innovation.** It uses **renewable biological resources**—such as plants, microorganisms, and organic waste—to create **sustainable alternatives** to fossil-based products and processes.

- Includes **sectors such as agriculture, biotechnology, bio-based materials, and green energy**.
- Drives **economic growth, green jobs, and innovation for a low-carbon future**.

Bioeconomy in action

Bio-based textiles	**Biodegradable packaging**	**Sustainable food production**	**Biofuels**

Why bioeconomy education?

*A 2020 global survey revealed that **92% of students think sustainable development should be universally taught and promoted**. Additionally, **85% expressed desire to learn more about sustainable development**, and **73% believed it should be actively incorporated into all courses**.*
(SOS- Students for Sustainability)

*A 2022 global survey indicated that **70% of students desire more experiential learning focused on sustainability**. Additionally, **65% expressed that they want more case studies on the topic***
(Yale Center for Business and Environment)

The bioeconomy is already **valued at €2.35 trillion in the EU**, and growing Bioeconomy already **employs over 16 million people** across Europe By 2050, **green skills will be essential across industries** **Educators** play a **key role** in shaping youth **mindsets.**

Key Benefits

Prepares students for **real-world sustainability challenges,** creating **new professional opportunities** in the **green economy.**

Aligns with **EU strategies** (Green Deal, Bioeconomy Strategy, SDGs) to accelerate the shift to a **low-carbon, circular economy.**

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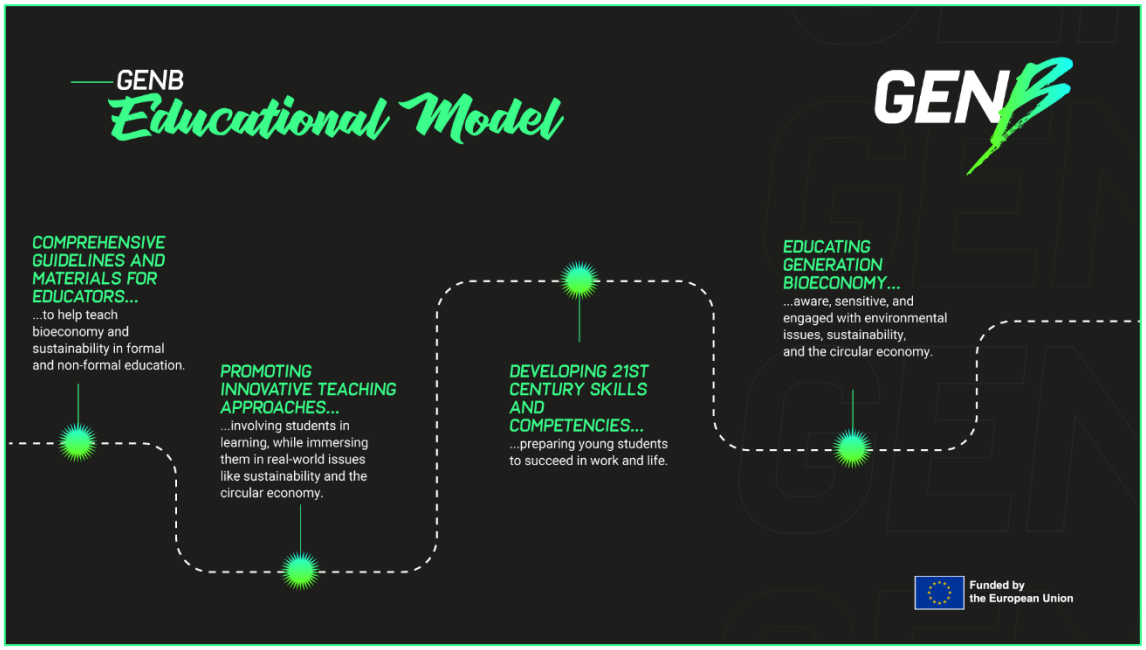
The GenB educational model: designed for educators, built for impact

This framework for bioeconomy education is rooted in experiential, project-based, and interdisciplinary teaching methods, and aligns with GreenComp (EU Sustainability Competences) & 21st Century Learning.

It integrates adaptability for different age groups and features ✓**4-8 yo** - Storytelling and play-based learning ✓**9-13 yo** - Role-playing and science experiments ✓**14-18 yo** - Career exploration and real-world problem-solving.



Included resources and tools for educators

- **MOOC on bioeconomy education** → *self-paced professional development*
- **Lesson plans and toolkits** → *structured activities age-specific, case studies and best practices*
- **Interactive learning** → *hands-on learning and real-world bioeconomy applications*
- **Digital and gamified resources** → *games and participatory tools.*
- **Capacity building for educators and GenB Ambassadors** → *Learn and engage.*

Call to Action

Bioeconomy is not just a subject - it's the future already here. Equip students with the knowledge and skills to build a circular, sustainable world.

Enroll in the MOOC | **Download free resources** | **Start teaching today**

Join a growing network of educators transforming sustainability learning! Explore the GenB learning community

Start inspiring with bioeconomy today! | **Access the GenB toolkit and MOOC**

Want to know more? Follow us

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