

### RELIEF euRopean bio-Economy aLLiance in Farming

#### Bridging the gap in bioeconomy

The bioeconomy encompasses the sustainable production, utilisation, conservation and regeneration of biological resources in all economic sectors. It is a complex and interdisciplinary field, driven by important social and economic changes, including the green transition and digitalisation. The future of the bioeconomy largely depends on how education and training adapt to the expanding knowledge and multidisciplinary nature of the field.

In line with this vision, the RELIEF project conducted an **Analysis of Bioeconomy Training in the Agricultural Sector**, presented in a report that provides a broad overview of education and training in the bioeconomy in the European Union. Our research approach incorporates diverse data sources and input from multiple stakeholders, resulting in four key sections that shape the report.

Download the report:

<https://cesie.org/media/relief-report-en.pdf>

#### RELIEF training programme for bioeconomy experts: structure defined

RELIEF partners have formulated comprehensive course structures designed to train experts in the field of bioeconomy within the agricultural sector. These structures are thoroughly outlined in the "RELIEF Curriculum" document (Deliverable 2.2). The document not only elaborates on the process leading to the definition of these two curricula but also provides a detailed description of the contents within each Module and the individual Learning Units (LU) that comprise them. These descriptions encompass the subjects covered, duration, corresponding ECTS credits, EQF level, learning outcomes, teaching methodologies, and assessment methods.

- The RELIEF course for Higher Education Institution consists of 5 Modules, 4 dedicated to the bioeconomy and one to horizontal skills development. Each module

#### training in the agriculture sector: the latest results from the RELIEF project

#### *Report on the bioeconomy education landscape published*

is made up of 4 Learning Units (LU), corresponding to 3 ECTS.

- The RELIEF VET course mirrors the university course structure, but adopts a VET approach. It is made up of 5 Modules, each consisting of 4 LU; 4 modules dedicated to topics related to the bioeconomy, 1 module dedicated to horizontal skills. Each LU is equivalent here to 1 ECTS.

These curricula will equip students with the essential knowledge and skills needed to navigate the dynamic field of the bioeconomy in agriculture.



*Main structure of RELIEF course*

Modules	RELIEF for Higher Education Institutes	RELIEF for Vocational Education and training
<b>1 - Agricultural sustainability, management of natural resources and climate action</b>	Renewable energy and its application as green agricultural energy source	Renewable energy solutions for agriculture
	Climate change	Understanding climate change
	Water, Energy, and Food (WEF) Nexus security, Drip Irrigation, and Desalination	Water, Energy, and Food (WEF) Nexus security, Drip Irrigation, and Desalination
	Agricultural reuse of organic residuals	Agricultural reuse of organic residuals
<b>2- Digital technologies and artificial intelligence</b>	Precision technology and Big Data	Data Science and Precision Technologies
	Remote sensing in Farming	Exploring precision farming using remote sensing
	Integration of digital technologies for effective farm management	Smart farming solutions
	Automation Technologies	Automation Technologies
<b>3 - Bio-economy, circular economy and bio-based products</b>	Circular Economy	Circular Economy
	The concept of biorefinery	Discovering the potential of biorefineries
	Bioenergy and energy crops	Bioenergy and energy crops
	Innovation, Economics and Strategic Management in the Bioeconomy	Introduction to bioeconomy - New value chains, Innovation and basic Economics in the Bioeconomy
<b>4 - Controlled environment agriculture</b>	Controlled environment agriculture infrastructure	Basics of controlled environmental agriculture
	Soilless: Hydroponics, substrates, aquaponics	Mastering vertical farming
	Pest Management in Controlled environment	The business of vertical farming: from plants to profit
	Crop selection for controlled agriculture	Sustainable agriculture in controlled environments: Challenges, opportunities and solutions
<b>5 - Horizontal</b>	Soft skills	Soft skills
	Green skills	Green skills
	Entrepreneurial skills	Entrepreneurial skills
	Digital skills	Digital skills
<p>The partners are now engaged in developing the training material, training methodology and evaluation based on the structure presented in this document.</p> <p>Download the RELIEF curricula here: <a href="https://cesie.org/media/Relief-Curriculum-en.pdf">https://cesie.org/media/Relief-Curriculum-en.pdf</a></p>		

## 2° Newsletter

### *RELIEF is now member of the rural Bioeconomy Alliance!*

RELIEF, along with a cluster EU-funded projects, is a **promoter and member of the Rural Bioeconomy Alliance (RBA)**, a new initiative launched to support knowledge exchange and adoption of bioeconomy principles in the rural sector.

The RBA is a network of projects that share a common vision: to foster sustainable growth in rural areas through the bioeconomy. The RBA is a network of projects that share a common vision: to foster sustainable growth in rural areas through the bioeconomy. RELIEF is part of the RBA together with [BioRural](#), [MainstreamBIO](#), [P2Green](#), [RuralBioUp](#), [SCALE-UP](#), [COOPID](#), [BioModel4Regions](#), [ShapingBio](#), [CEE2ACT](#) and [ROBIN](#).



#### **Follow the RBA on LinkedIn:**

<https://www.linkedin.com/company/rural-bioeconomy-alliance-rba/>

Read the article here: <https://cesie.org/en/higher-education-and-research/relief-rural-bioeconomy-alliance-member/>

#### **Relief social media:**

Facebook:

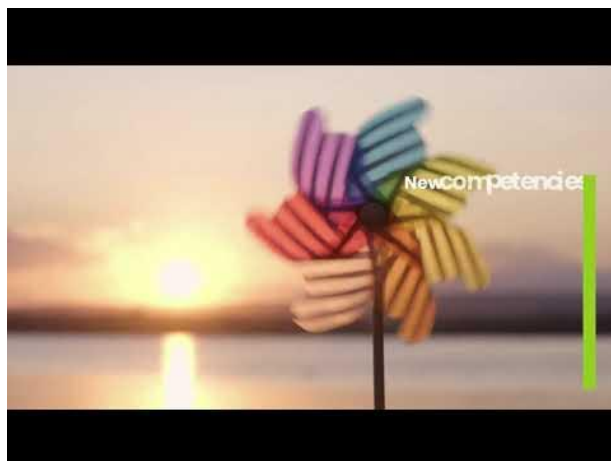
<https://www.facebook.com/reliefproject.eu/>

LinkedIn:

<https://www.linkedin.com/showcase/reliefproject/>

<https://relief.uop.gr/>

### *RELIEF objectives and activities in a nutshell*



#### **The RELIEF video presentation is online!**

About RELIEF: RELIEF is co-funded by the Erasmus+ Programme, Partnership for Innovation, Alliances for Education and Enterprises.

#### **Partnership:**

[UOP – University of Peloponnese](#) (Greece, coordinator)

[ReadLab P.C.](#) (Greece)

[OTC – Olympic Training & Consulting LTD](#) (Greece)

[IBO-CERTH – Centre for Research and Technology Hellas Greece](#) (Greece)

[Innovade LI](#) (Cyprus)

[UNIFI – Università degli Studi di Firenze](#) (Italy)

[Terinov](#) (Portugal)

[MDH – Malardalens Universitet](#) (Sweeden)

[UAc – Universidade Dos Acores](#) (Portugal)

[Dream](#) (Italy)

[SwIdeas](#) (Sweeden)

[CESIE](#) (Italy)



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