MYCOPOR®

From Waste to Wonder: Mycelium Packaging & Construction

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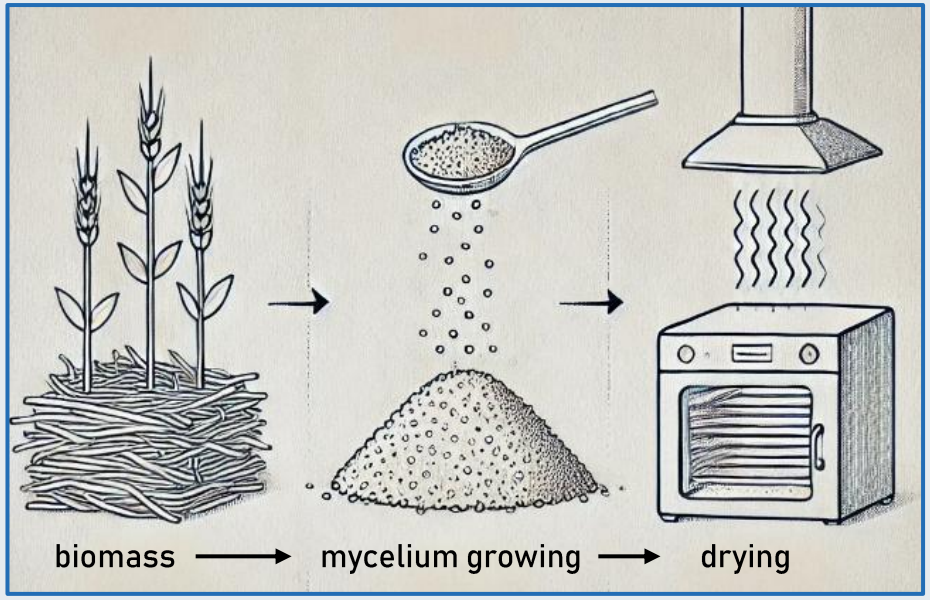
Greet CE

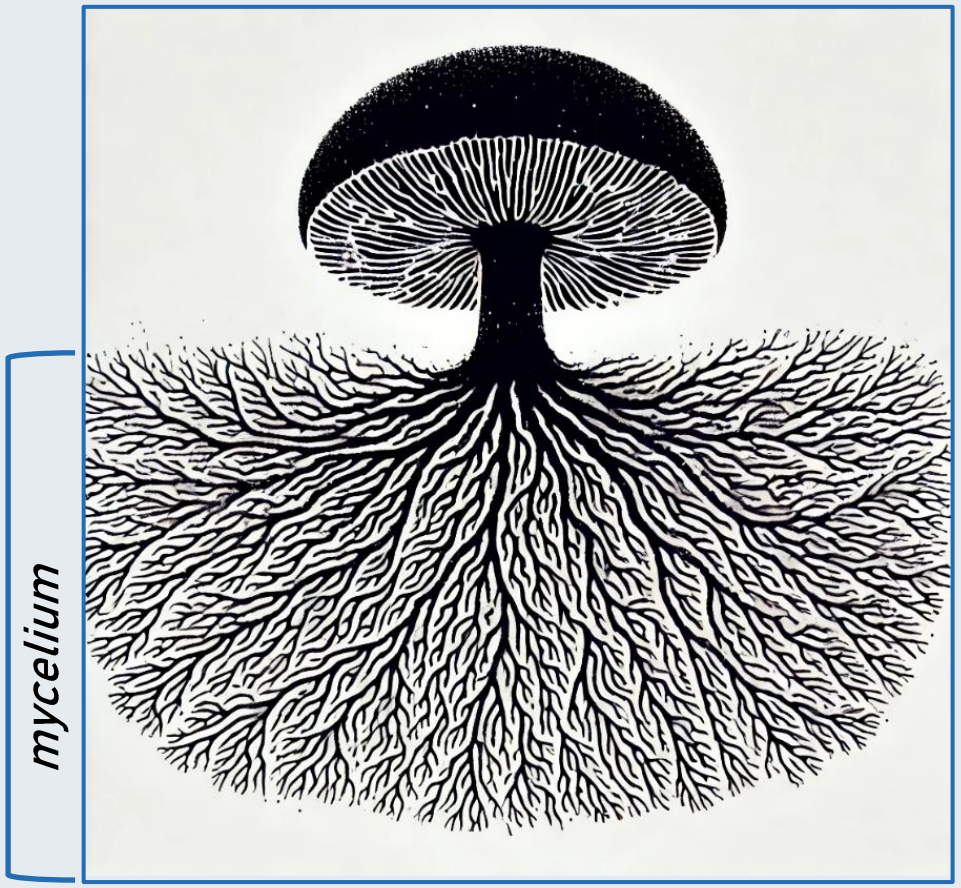
MIKO GLIVNI CENTER

Greet CE Final Project Conference, Brussels, 18th February 2026

What is mycelium and how do we use it?

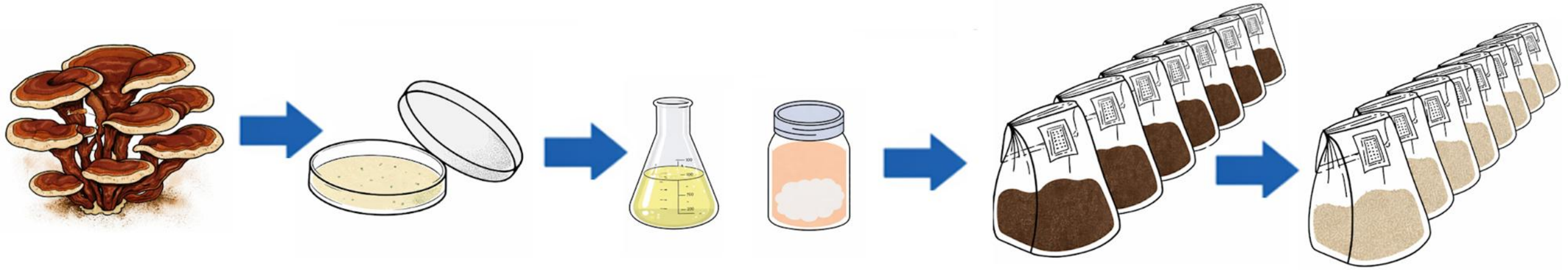
Our production process mimics nature.
When a plant dies, it becomes organic biomass, and fungi begin to grow on it. Mycelium binds and decomposes the organic material.





What is mycelium and how do we use it?

Mycelium composites represent a transformation across many industries.
There are not enough manufacturers, and the biggest challenge is not competition, but rather the **price of the final product and the successful establishment of large-scale production (scaling)**.



SUSTAINABLE BUILDING & INSULATION & ACUSTIC MATERIAL

Development of Mycopor® composites:

- Construction materials: insulation panels, acoustic elements, technically demanding components, OSB plywood substitutes
- Packaging: biodegradable, custom-shaped packaging for electronics, food, and transport.
- Low energy consumption and fully biodegradable.

Reusing organic biomass

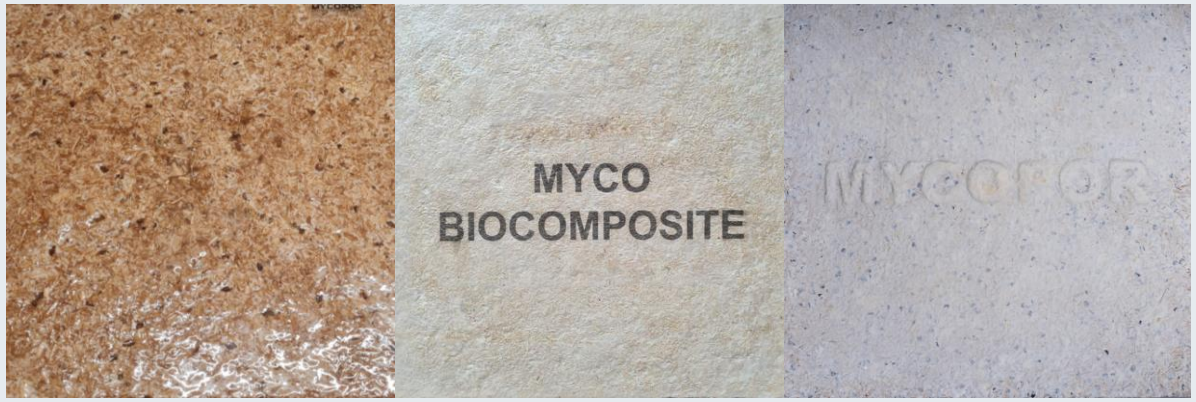
Up-cycling biomass into high-quality products

- Reduces reliance on conventional materials.
- Extends the lifecycle of organic biomass.
- Contributes to a circular economy.

You may wonder: how can we adapt the properties of these materials?

By adjusting the fungal strains, biomass types, and additives, we can tailor:

- Density, strength, and flexibility.
- Texture and color.



From concept to reality: Integrated design and 3D modeling for tailor-made products:

We offer tailored solutions for specific shapes, sizes, and branding

- Designed for specific requirements:

PRODUCTION MIMICS

- Strong research international team
- 4 years of testing
- In connection with Institutes & Universities
- Nano technology
- B2B driven research

Mycopor® possesses fully integrated know-how for the production of mycelium-based biocomposites for packaging and construction applications, as well as high-tech, specialized components.

The MIKO Fungal Center masters and carries out the bioprocessing part of the preparation of viable mycelial fungal cultures optimized for various substrates.

MIKO
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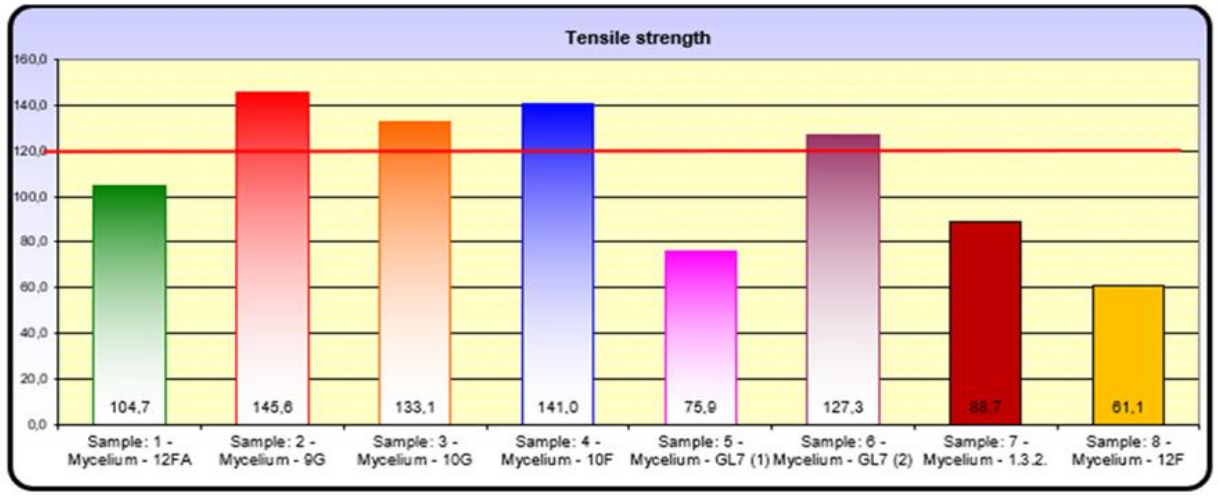
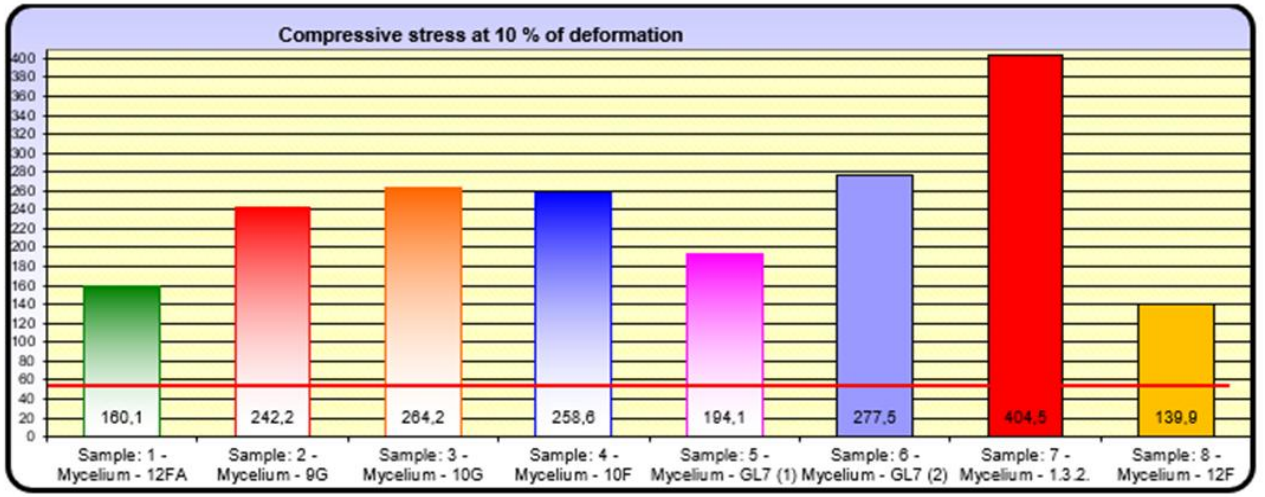
SUSTAINABLE BUILDING & INSULATION & ACUSTIC MATERIAL

SAMPLING & TESTING

Tensile strength (kPa)



Compressive strength (kPa)



Mycelium biocomposite advantages sumarized

Sustainable & biodegradable

Low flammability

Free of harmful emissions

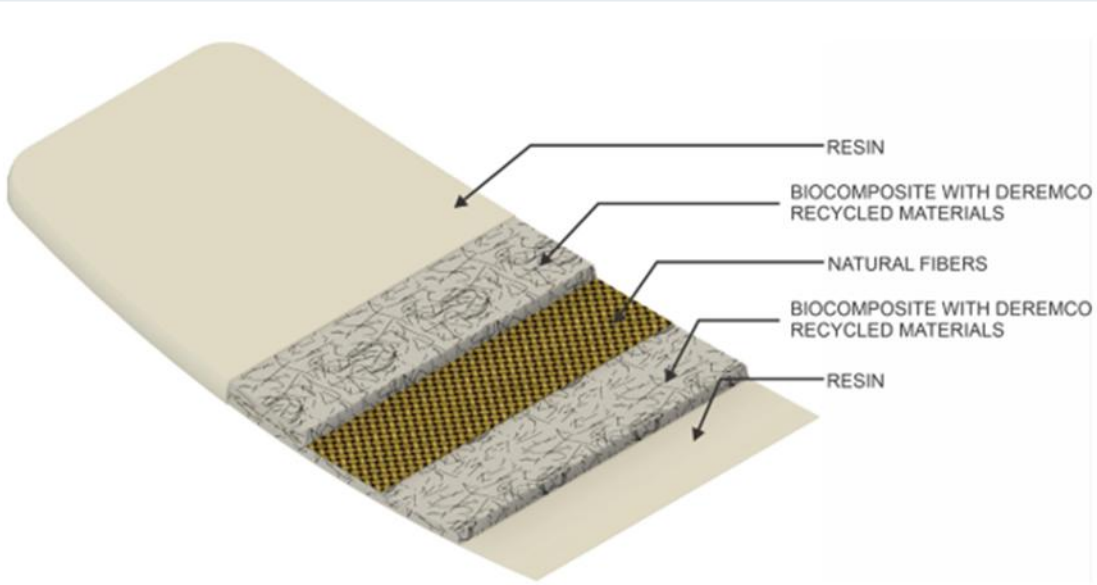
Encourages creativity & offers exceptional innovation potential.

Use of waste biomass

Tailored technical characteristics

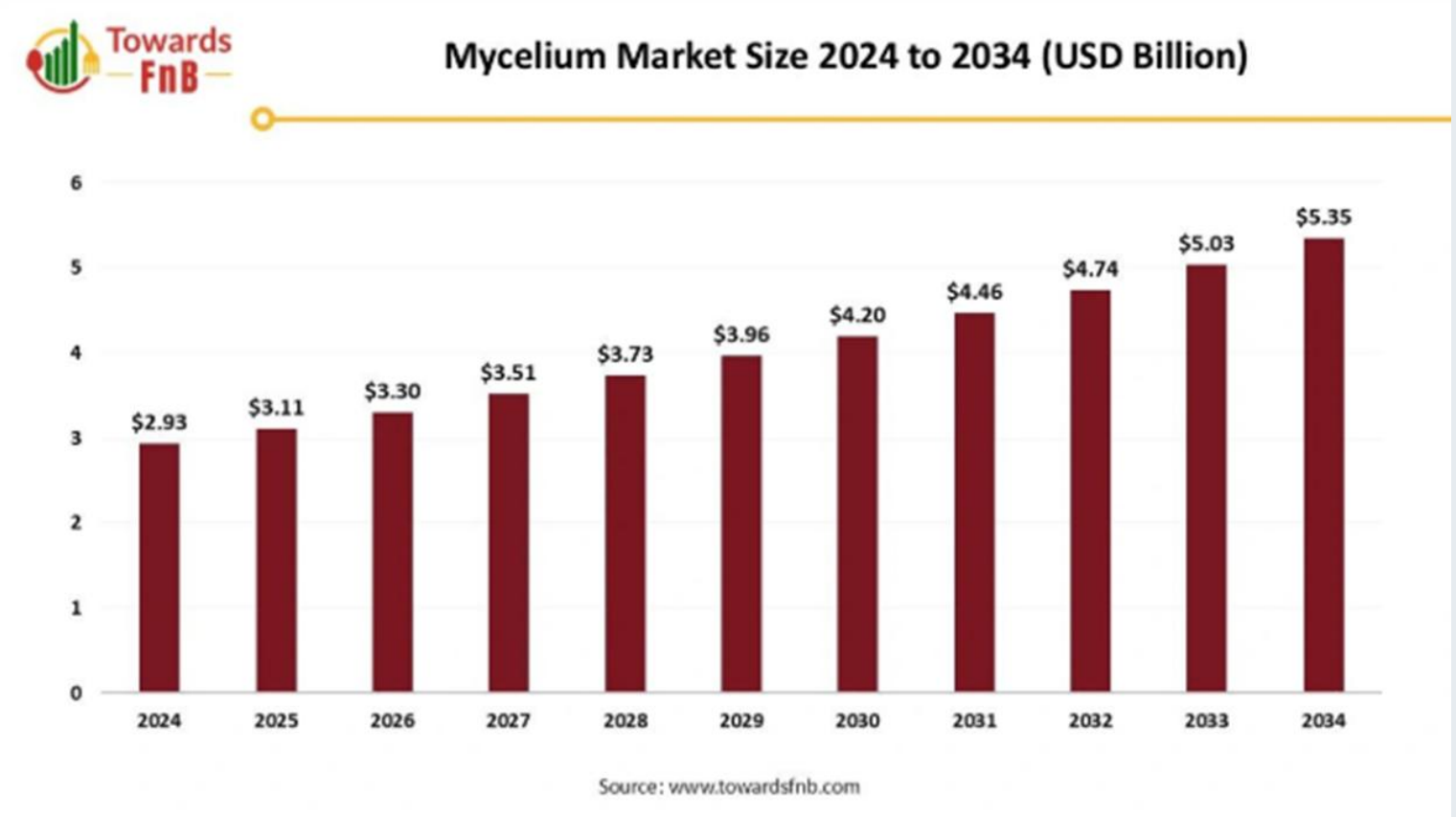
TRACTION & MILESTONES

55.000 eur



Co-funded by the European Union

MARKET SITUATION & MARKET OPPORTUNITIES



The Rise of Mycelium: Nature's Answer to a Sustainable Future

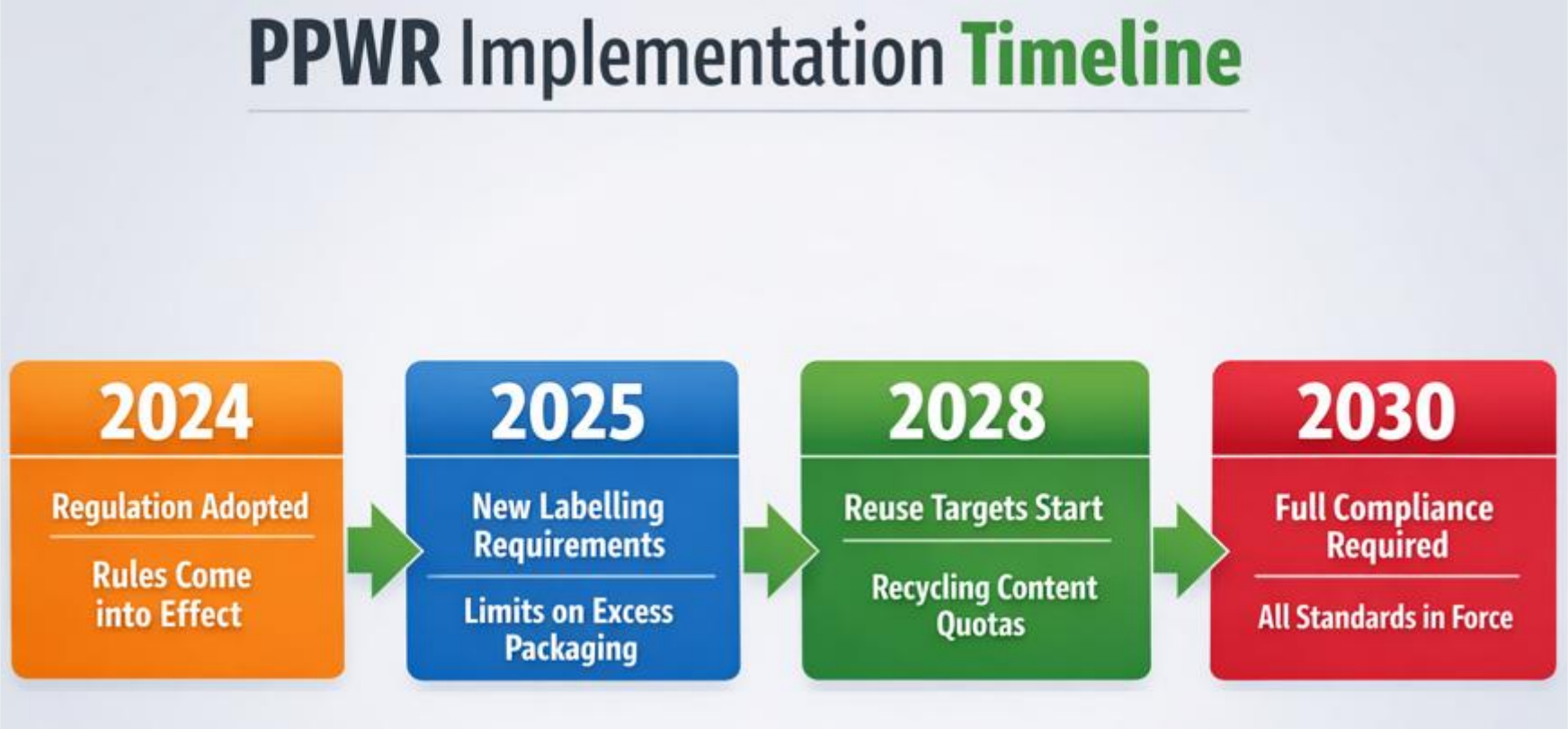
The global mycelium market is poised for remarkable growth projected to surge from $3.11 Bn in 2025 to $5.35 Bn by 2034, driven by innovation across food, packaging, textiles, and construction. With a solid CAGR of 6.2%, **this isn't just a trend — it's a transformation.**

MARKET SITUATION & MARKET OPPORTUNITIES

Why not choose a material that is 100% compostable within 30–60 days?

PPWR – Packaging and Packaging Waste Regulation

In the period 2020–2023, the EU used 40% of primary raw materials for the production of plastic packaging and 50% for the production of paper packaging. Packaging accounts for 36% of municipal waste.

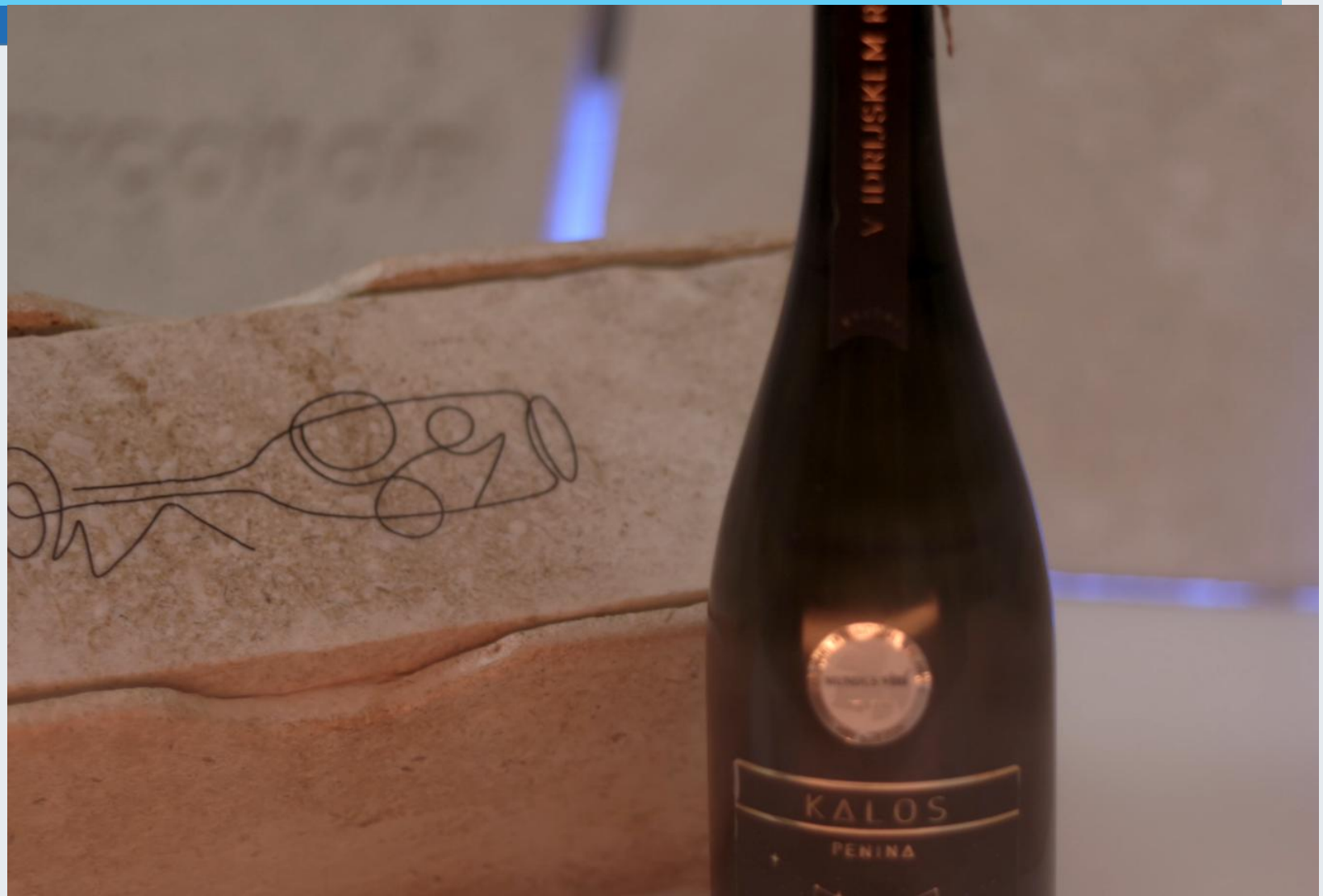


MARKET SITUATION & MARKET OPPORTUNITIES

Mycopor can significantly contribute to the implementation of the PPWR in the first phase, especially for higher value-added products in sectors such as the cosmetics industry, electronic components, and more.

RE-SENSE UKRAINA

KALOS



OUR VISION

MYCOPOR®

WE GROW

THANK YOU

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