

# WHAT IS THE FURIOUS PROJECT?

The FURIOUS project is an EU-funded initiative focusing on developing high-performance furan-based biopolymers. These polymers are designed to meet the stringent demands of various critical sectors including packaging, automotive, and underwater environments.

## FURIOUS DEMONSTRATORS

- ◆ **Biomedical and Electronic Packaging**  
Polymers with high barrier properties and superior resistance to sterilization.
- ◆ **Automotive**  
Materials with high transparency, UV resistance, and moldability, while also integrating antibacterial capabilities.
- ◆ **Underwater Applications**  
Photoreactive and biodegradable polymers that perform well in marine environments, adaptable for 3D printing.

## PARTNERS



For more information, visit our website:  
[www.furious-project.eu/](http://www.furious-project.eu/)

### Contact Us:

✉ [info@furious-project.eu](mailto:info@furious-project.eu)

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**Stay tuned as we continue to drive the future of sustainable polymers!**



## SHAPING THE FUTURE OF FURAN-BASED PLASTICS

**VERSATILE FURAN-BASED POLYMERS FOR STRICT AND HIGH VALUE APPLICATIONS IN PACKAGING, AUTOMOTIVE AND UNDERWATER**

**START DATE: 1 JUNE 2023  
END DATE: 31 MAY 2027**



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# THE CHALLENGE WE ADDRESS

Fossil-derived monomers are currently predominant in polymer production, but they pose significant environmental concerns. The **FURIOUS** project is dedicated to replacing these with renewable, bio-based alternatives.

## KEY MATERIAL

### 2,5-Furandicarboxylic Acid (2,5-FDCA):

Derived from biomass sugars, this compound is crucial in creating our advanced biopolymers.

## RESEARCH FOCUS

- Developing processes that adapt existing technologies to new biopolymer formulations.
- Validating synthetic methods at the laboratory scale for future industrial applications.
- Exploring innovative applications in emerging market fields.

# HOW WE INNOVATE

The **FURIOUS** project leverages state-of-the-art technologies and adapts them to novel material requirements. Our approach includes:

- Synthesizing high-quality biopolymers tailored to specific high-value applications.
- Optimizing these materials for challenging environments through rigorous testing and validation.
- Collaborating with industry partners to translate our lab-scale innovations to real-world applications.

# FURIOUS PROJECT AT A GLANCE

- **Versatile Biopolymers:**  
Tailored for strict and high-value applications.
- **Eco-Friendly Solutions:**  
Focused on replacing fossil-derived materials with bio-based alternatives.
- **Cross-Industry Impact:**  
Applications in packaging, automotive, and underwater sectors.

