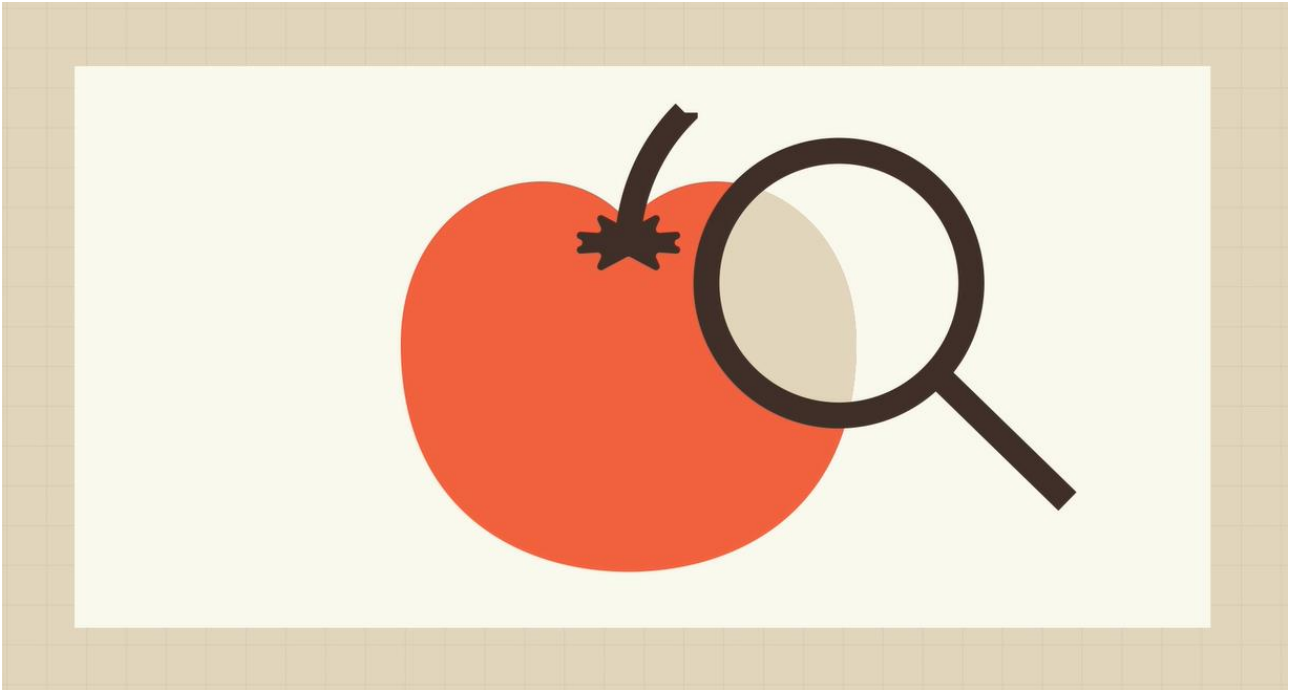




NEW GENOMIC TECHNIQUES  
NEW FOOD SYSTEMS

26 July 2024 | Press Release



## Sustainable food system project releases explainer video

DARWIN is excited to announce the release of its official presentation video showing how the project aims to create fair and sustainable food systems

According to Charles Darwin's theory, the most essential trait for survival is not strength or intelligence, but the ability to adapt to change. Indeed, all living organisms are subjected to spontaneous changes in their DNA called mutations leading to genetic evolution.

This is precisely what **New Genomic Techniques (NGTs)** aim to replicate by inducing and monitoring advantageous, engineered mutations. However, scientific and technological challenges in detecting NGT products compliant with European legislation create ambiguity, leaving law enforcement authorities and consumers without clear, transparent information.



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Here is where the **DARWIN project comes in**. To present the several solutions that this EU-funded project will put in place to create fair and sustainable food systems, DARWIN released its [presentation video](#).

These are the main solutions proposed by DARWIN. Firstly, **detection methods** for NGT genetic changes in plant products will be validated, and their efficacy will be tested through three realistic scenarios. Next, the consortium will employ **AI and bioinformatics** to obtain genetic fingerprints of NGT products. Finally, a **dataspace** will be created to enhance the traceability and transparency of these products.

In conclusion, these efforts will yield **significant impacts** on technology, society, science, and the economy, driving innovation, and advancing scientific research. By addressing these areas, we are paving the way for a more sustainable use of NGTs in food systems.

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