



Session 4	Start-ups/SMEs looking for finance - pre-seed/angel/seed funding
Pitch Title	Transforming Uprooted Apple Trees into High-Value Bio-Based Products
Company	Bio-Based Business Ecosystem Transformator (B3ET)
Speaker	Bart Dooms, CEO
Keywords feedstock	Uprooted apple trees
Keywords technology	Green technologies, Ultrasound-Assisted Extraction (UAE)
Keywords End-Product	Polyphenols, Lignin, Cellulose, Hemicellulose

Abstract:

We are seeking seed funding to scale up the polyphenol extraction from uprooted apple trees and to validate the performance of our products on an industrial scale.

Our mission is to create high-value bio-based products that support a sustainable bioeconomy. Using ultrasound-assisted extraction (UAE), we increase polyphenol yields by 30% while reducing energy consumption by 20%. These polyphenols possess strong antioxidant properties, making them ideal for applications in cosmetics and food. In the next phase, we plan to develop new products from the remaining biomass, which contains lignin, cellulose, and hemicellulose.

We specialize in scalable, sustainable technologies that convert uprooted apple trees into valuable bio-based materials. This approach not only reduces CO₂ emissions—since these trees are typically burned, releasing significant CO₂—but also provides sustainable alternatives to fossil-based ingredients. As a B2B company, we focus on developing biorefinery technologies and commercializing bio-based ingredients across multiple industries. Our products target global markets in cosmetics, food, and sustainable chemicals, offering innovative, eco-friendly alternatives.

In our first funding round, we aim to raise €200-500k to scale up our polyphenol extraction process and bring this sustainable product to the market. We are currently advancing our pilot-scale extraction and collaborating with industry partners on application development.

Our team consists of experts with a strong track record in sustainable technologies and product innovation, and we are dedicated to creating solutions that promote a more sustainable future.

