



# BIOFOREVER

Project introduction

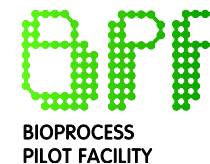
Anton Robek

September 2016

Bio Refinery Development



# 14 European companies



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Are going to demonstrate value chains from lignocellulosic biomass to:

1. Ethanol
2. Butanol
3. Cellulosic sugars (C5 & C6)
4. FDCA
5. Lignin derivatives
6. Nano-celluloses



## Using 4 different pre-treatment technologies:

1. Mild acid & steam explosion
2. Strong acid
3. Organosolve
4. Bali



## Project characteristics:

Budget: € 16 million of which € 10 million subsidy from Bio Based Industries Joint Undertaking (Horizon 2020)

Timeline: September 2016 – September 2019

The project deliverables include conceptual engineering packages and commercialization plans for one or more value chains.



## Next steps

Commercialization of 1 or more bio-refineries for various value chains in Europe and abroad.

One of the value chains is to produce 1 million tons of clean C6 sugars and 85 million gallons cellulosic ethanol from 3 million bone dry tons of feedstock.



# Why not in Brazil?

Key success factor	Europe	Brazil
Biomass availability	-	+
Biomass costs	-	+
Market for cellulosic ethanol (including export)	+/-	+
Market for clean C6 sugars (fermentation processes)	+	+/-
Funding (up to 1 billion CAPEX)	+/-	+/-



**[WWW.BIOFOREVER.EU](http://WWW.BIOFOREVER.EU)**

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This project has received funding from the Bio Based Industries Joint Undertaking under the European Union's Horizon 2020 research and innovation program under grant agreement No 720695.



Horizon 2020  
European Union Funding  
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