

Sustainability represents the single largest business opportunity of this generation

WW Population: Billions

8
7
6
5

2010

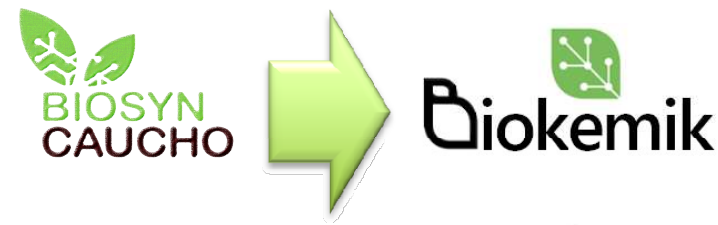
2030

2050

Biokemik Introduction

About Biokemik

- The objective of Biosyncaucho was to respond to the global demand for sustainable solutions and Butadiene shortage, offering valuable Bio-chemicals from renewable resources
- Biosyncaucho S.L. was incorporated in May 2015, with Tecnalia's vision and commitment towards energy and the environment
- Tecnalia transferred the I.P. and a cash contribution. The company is owned by Tecnalia and Kereon (private equity fund)
- The project was sponsored by the Omega Fund (managed by Tecnalia Ventures)
- **Biokemik** is the commercial denomination of the new Business Unit



Investment Opportunity Biokemik's Sustainable Solutions

We identified the demand for key sustainable chemicals, with low Carbon Footprint

BIOKEMIK

Bio-2,3-Butanediol



Replacement of 1,4-Butanediol in high performance Polyurethanes

Bio-Acetoin



- *Elimination of Diacetyl as butter flavoring*
- *Acetoin in high demand*

Bio Methyl-Ethyl Ketone



- *Universal solvent (Paints)*
- *Pharmaceuticals demand for Bio-MEK*

Bio-1,3 Butadiene

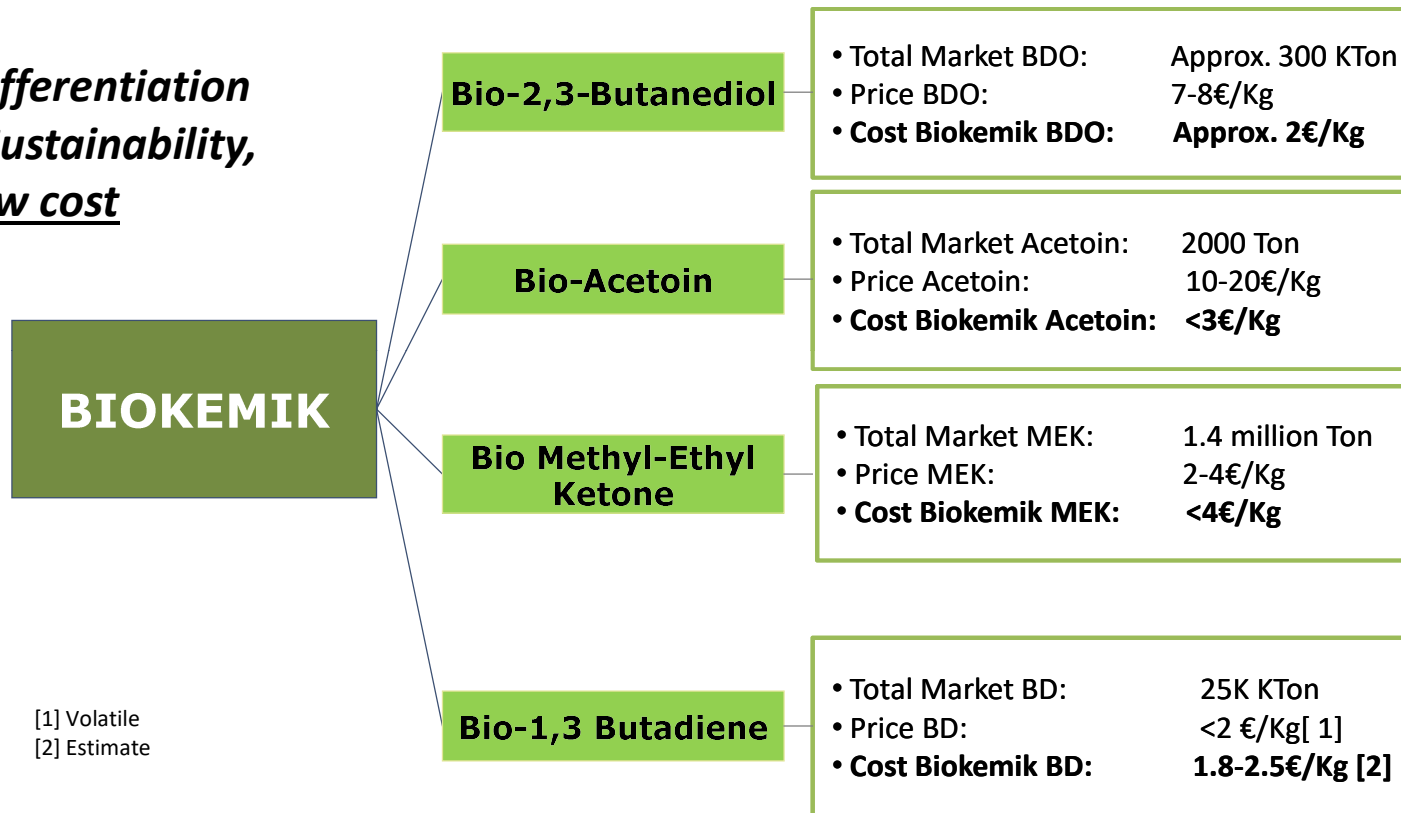


- *Shortage and volatility of Butadiene: Shift from naphta to light fractions*
- *Strong demand for Rubber & Elastomers*

Investment Opportunity

Overall Market for Biokemik's Solutions

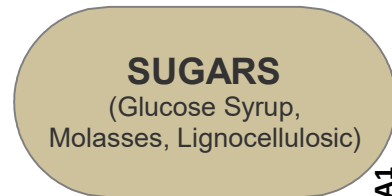
Biokemik's differentiation factors are: Sustainability, Purity and low cost



[1] Volatile
[2] Estimate

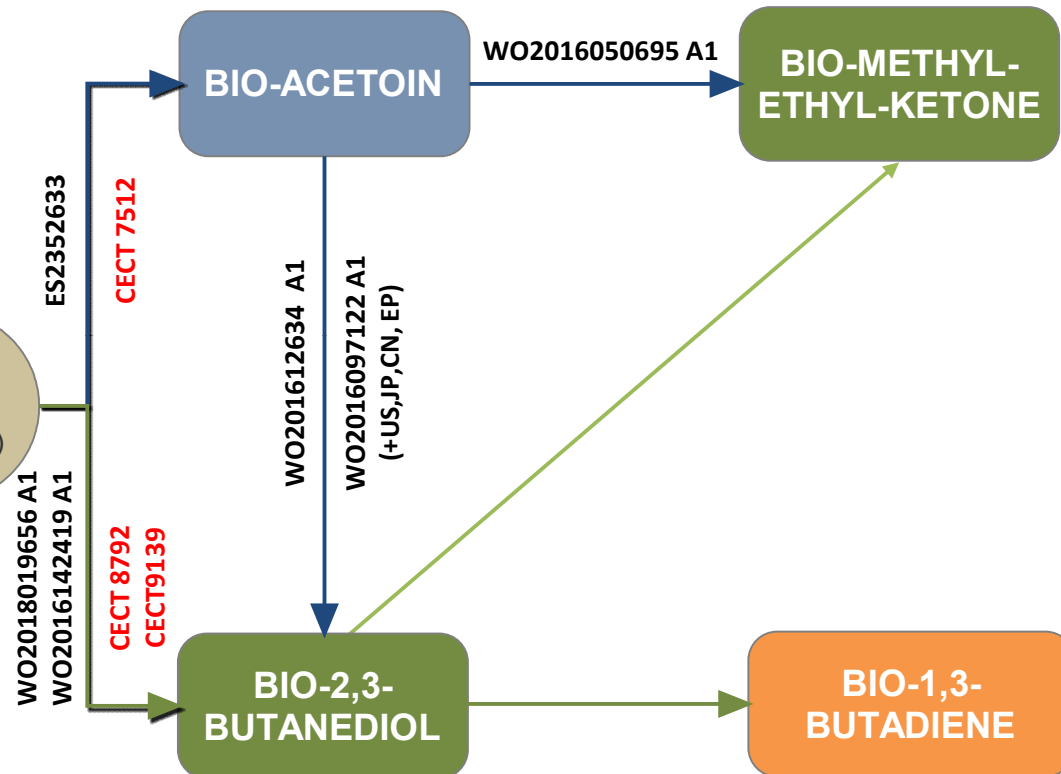
Investment Opportunity Biokemik's Technology I.P.

Patented technology:
1 Patent
5 Patent App.



BREAKTHROUGH:

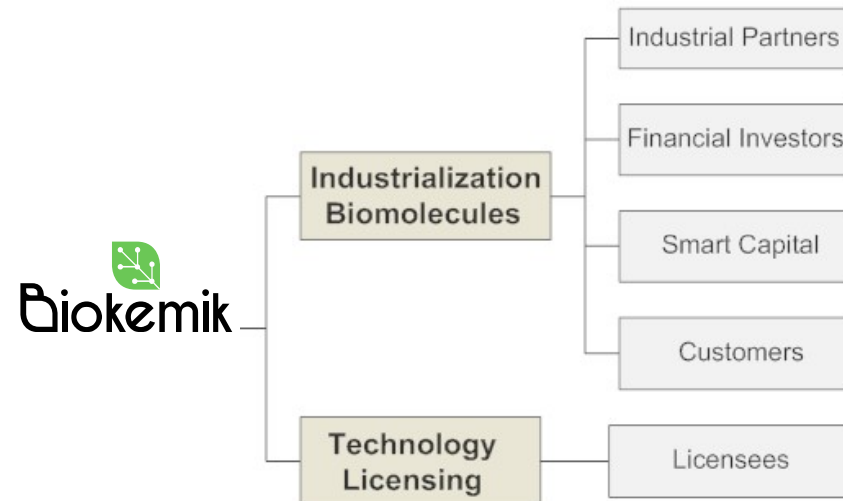
- **CECT –Risk-1, Non-GMO MO**
- **Selectivity and high yield**
- **Fermentation cycles <16 hr!**



Go to Market Strategy Biokemik's Business Model

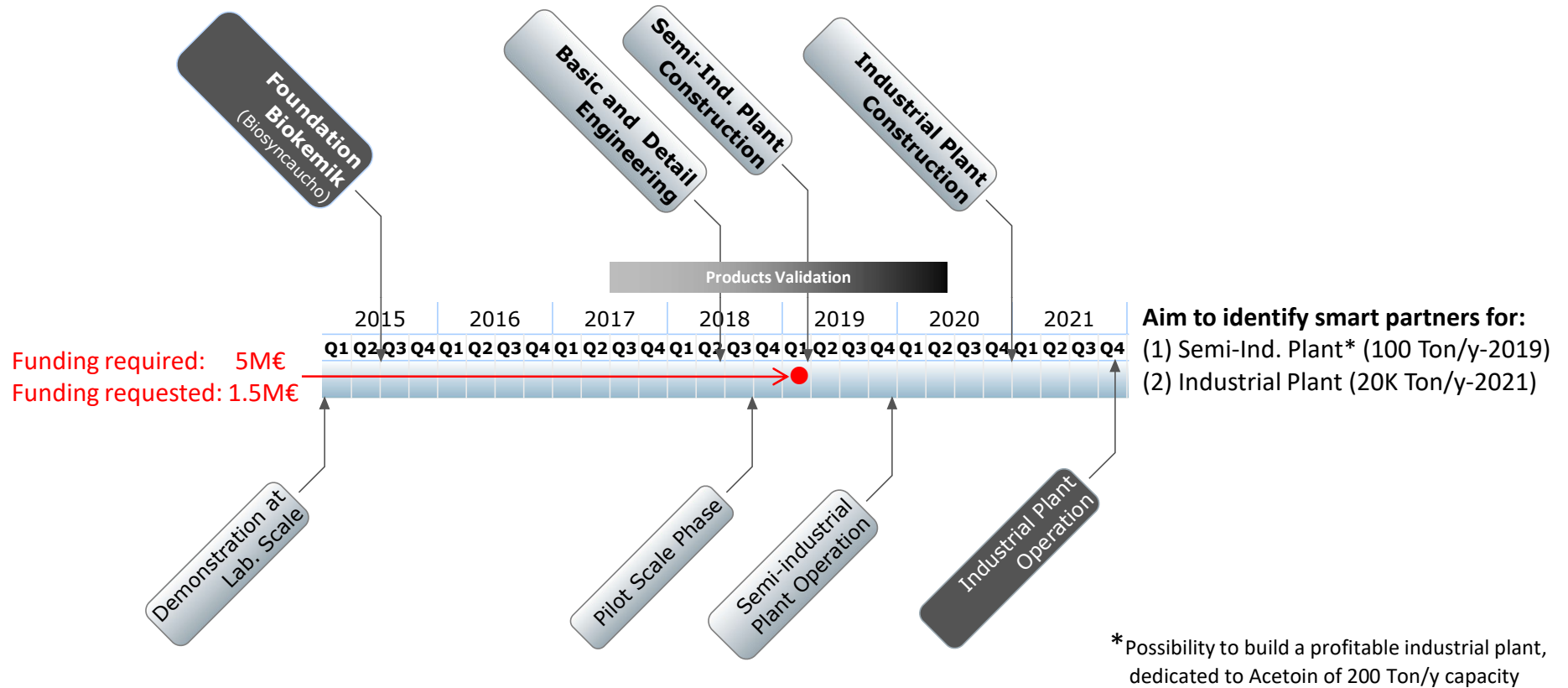
WE ARE LOOKING FOR:

- **Industrial Partners:** Investors willing to:
(a) Scale-up & industrialize products for equity; (b) Support last mile of BD dev.
- **Investors (financial):** Agents willing to support Biokemik's growth and internationalization potential for equity
- **Smart Capital:** Agents of any link in the value chain to provide access to channels and end customers
- **Potential Customers:** Willing to validate the biomolecules for multiple applications
- **Licensees:** Companies willing to acquire independent licenses



Expansion Plan

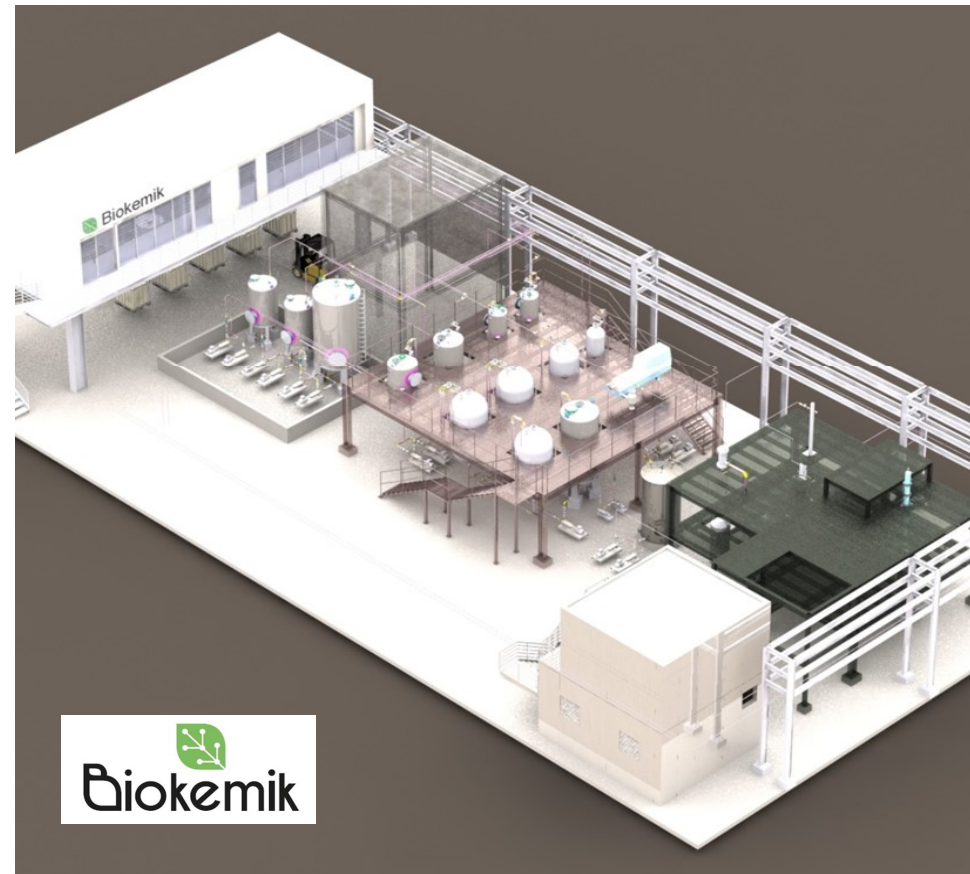
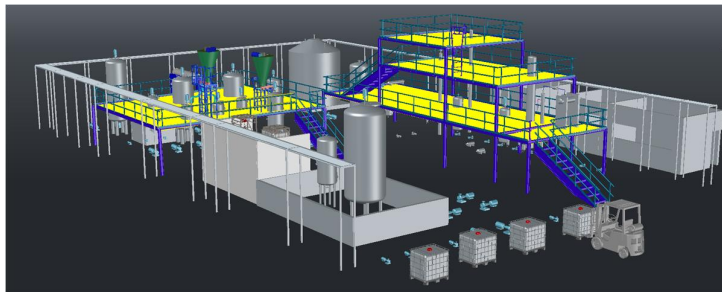
Biokemik's Milestones and Growth Plan



Investment Opportunity

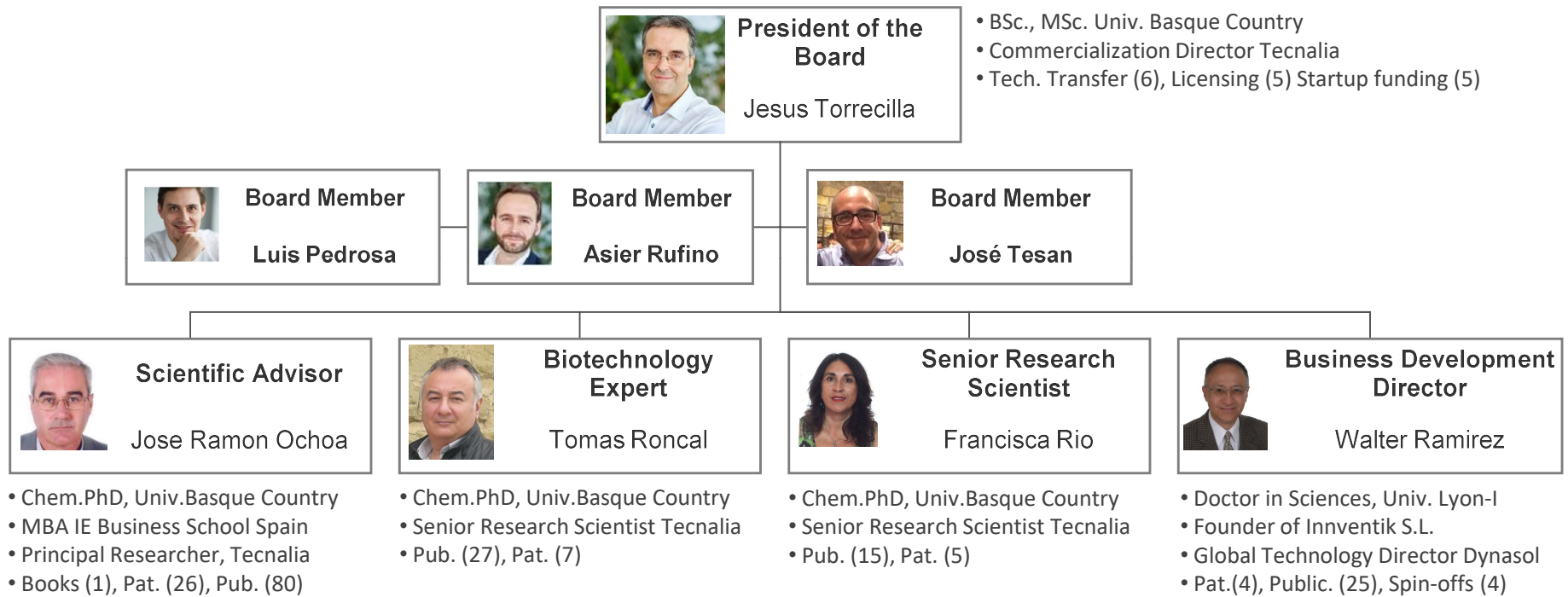
Biokemik's Scale-up

We have finished the Detail Engineering and are ready to start with the construction of a (100 Ton/yr) semi-industrial plant...



Organization Structure

Biokemik's Organization Structure



TESTIMONIALS

“We have just finished the testing on Biokemik’s Acetoin, and it looks good against our internal specification. I am more than happy to move to the next level...”

(USA Acetoin Investment Prospect, April 2018)

“We confirmed that Biokemik’s 2,3-Butanediol can be used as a design tool to obtain high performance materials. When will it be commercial?...”

(World Leader in Polyurethanes, Customer Prospect, May 2018)



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