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○ PROJECT POWERED BY COFFEE

ecobean-

**Upcycling coffee waste into useful
raw materials and products**



2019 Idea

EcoBean launched in 2018 in Poland with a goal to give second life to Spent Coffee Grounds (SCG) which nowadays are sent to landfill. SCGs are responsible for continually growing landfill size as well as high methane and CO2 emissions thus polluting the environment.

2020 Expansion

First final EcoBaan product was developed and facility ramped up and first investor KIC InnoEnergy was gained.

Pilots with Partners such as Starbucks, Costa, Circle K were carried out.

EcoBean won two startup competitions guaranteeing POC implementation in Portugal.

2021 Proof of Concept

POC program aims to determine what a successful EcoBean business model looks like and to define optimization processes which will satisfy Partners needs and meet environment mission.

POC will allow to measure and assess performance in following areas:

- Environmental Impact
- Logistics
- CSR & Marketing
- Production

NEXT Building a Biorefinery

EcoBean aims at building first in Europe Spent Coffee Grounds Biorefinery.

Continuous R&D works are focused on development of products designed for:

- Food Industry
- Pharma
- Biofuels
- HoReCa
- Animal Feed / Supplements
- Cosmetics Industry

EcoBean story

Problem or opportunity



Only in Warsaw, 40-50 tons of coffee waste end up in landfill sites every day.

What Ecobean can do for Poland

- New source of biomass: spent coffee grounds
- Highly effective and feasible logistic model for spread biomass collection
- Reduction of CO₂ footprint throughout whole coffee value chain at least by 20%
- Value added products

Coffee waste market size:

EUROPE: Europe 3,3 mln tons

POLAND: 235 thd tons

5-7%
Y/Y
steady coffee sales
growth in Poland



Who needs EcoBean?



HORECA



Petrol stations



Office parks



Transportation
hubs



Coffee
roasteries



Instant coffee
producers



Coffee
plantations

Ecobean USP

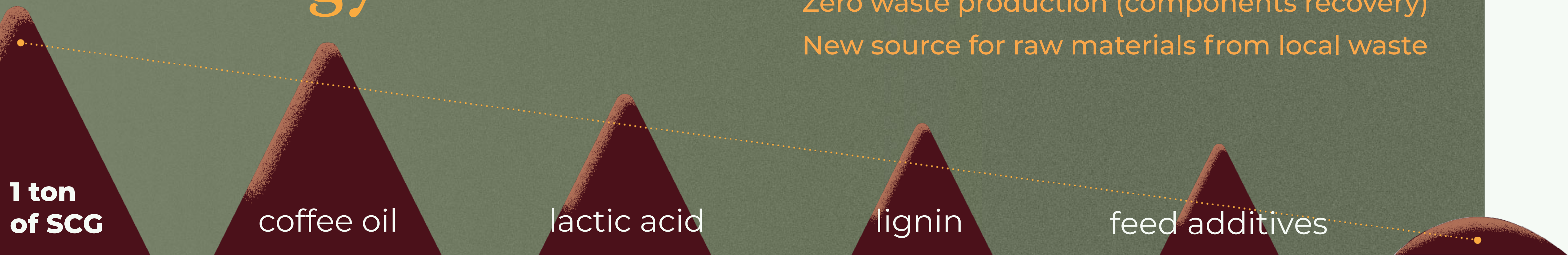


Pilot Products



Technology

Continuous valorization process (4 in 1 process)
Zero waste production (components recovery)
New source for raw materials from local waste



Benefits for Partners



Significantly reduce
CO₂ emission
(landfill vs EcoBean)



Option to sell
green products via
own sales network



Gain competitive
market advantage
(i.e RFI, tenders)



Introduce the first
zero coffee waste
programme



Become the first
industry player to
close the circular loop

Why now?

“Climate Neutral by 2050” strategy

EU’s long-term strategy set to achieve the economic transformation and sustainable development goals, as well as to move towards the goal set by the Paris Agreement.

Single-Use Plastic Directive (SUP)

Directive (EU) 2019/904 of the European Parliament and of the Council of 5 June 2019 on the reduction of the impact of certain plastic products on the environment.

Renewable Energy Directive (RED II)

Directive (EU) 2018/2001 (recast) on the promotion of the use of energy from renewable sources. In RED II, the overall EU target for Renewable Energy Sources consumption by 2030 has been raised to 32%.

The European Green Deal

New growth strategy that aim transform the Union into a modern, resource-efficient and competitive economy.

Regulation of Air Pollution

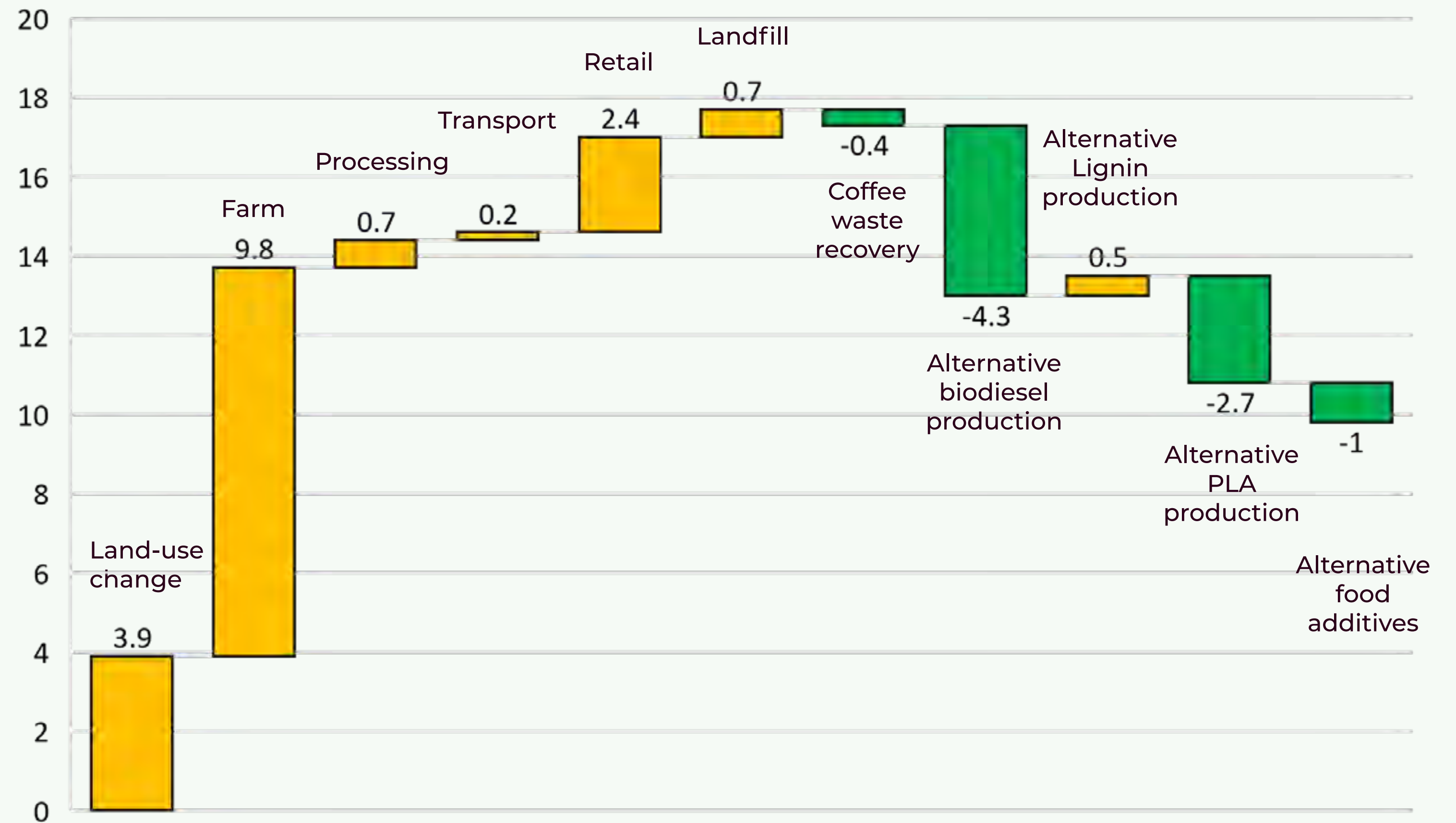
EU Council adopted regulations reducing CO2 emissions from passenger cars. By 2030, passenger car emissions must be reduced by 37.5%, and vans by 31% compared to 2021.

Waste Framework Directive

EU Directive 2008/98/EC requires all Member States to select of bio-waste and ensure that it is re-used.

Decreasing coffee CO₂ footprint

Thanks to the use of waste biomass to obtain many products, Ecobean is able to reduce the carbon footprint in the entire coffee chain at least by 25%, valorizing spent coffee grounds for raw materials and green products



Our wins

Q4 2021

InnoEnergy seed round
(€1 500 000)

235 000 €

Additional 235 000
€ achieved in grants
during 2021

4 GREAT WINS

Won 4 implementation projects, 3 in Portugal and 1 in Germany (JumpStart, Microsoft for Impact, SOL Green Capital, Vattenfall & EDGE)

Starbucks Trial

Trial implementation with Starbucks
(20 caffes in Poland)

5 PRODUCTS

5 products development
(biodegradable flowerpots, coffee oil, lignin, lactic acid, protein additives)

PIPELINE

20 market leaders
in pipeline (Costa,
Shell, BP, ORLEN,
MOL, PWC, Deloitte,
Żabka, Delta)

PROCESS

Complete circular
technology for coffee
waste extraction
development
(biorefinery process)

Value chain & market



INDUSTRY PARTNERS

COFFEE PLAYERS



HoReCa



PETROL



SERVICES



LOGISTICS



TECHNOLOGY



POZNAŃSKI PARK
TECHNOLOGICZNO
PRZEMYSŁOWY

Team

Managment

Kacper Kossowski
Co-founder

Marcin Koziorowski
Co-founder & CEO

R&D

Prof. Ludwik Synoradzki
Head of R&D

PhD Jerzy Wisialski
CTO

PhD Sławomir Safarzyński
Chemical Engeniering

Łukasz Wysocki
R&D Specialist

Prof. Joanna Cieśła
BIO Technologist

PhD Marcin Śmiglak
Ionic Liquids

Prof. Andrzej Chwojnowski
BIO Engeniering

Operations

Alicja Murphy
Creative Director

Ewa Kowalczyk-Szostak
Operations Manager

Katarzyna Tarka-Chmielecka
Supply & Logistic Manager

+100

Combined
years of
experience

+40

Implemented
chemical
technologies

PLN +175 mln

Value of co-founded companies

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**Enjoy your coffee and help
us turn waste into energy!
Cup after cup, after cup.**

Thank You.

