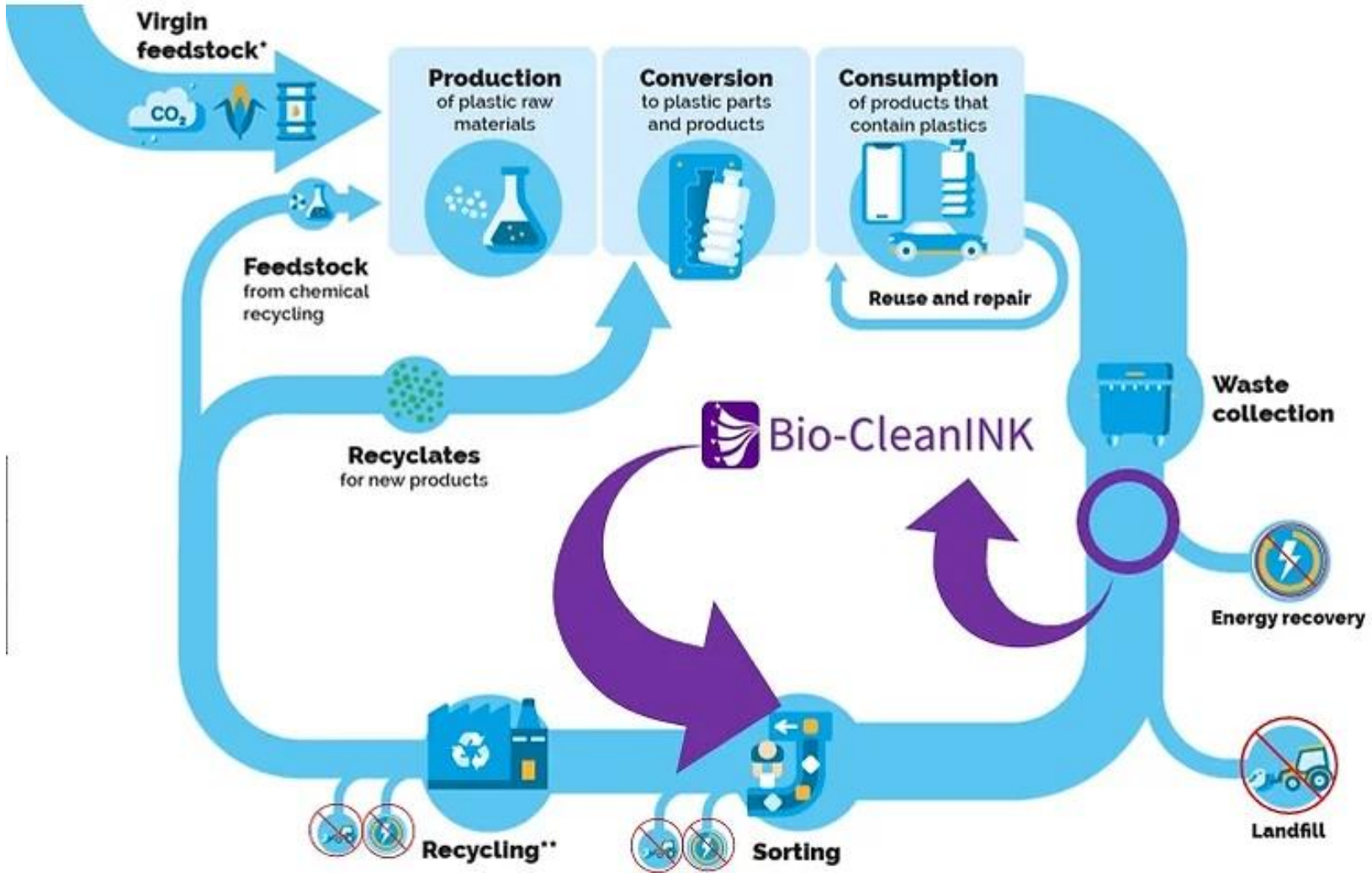
Bio Clean INK

Enabling circular plastic

WHAT HAPPENS WITH THE PACKAGE OF YOUR FAVORITE CHOCOLATE BAR?

BIO-CLEANINK

How we influence the lifecycle of plastic films?



We remove:

- **Inks**
- **Adhesives**
- **Primers**

From almost any kind of monolayer and multilayer plastic film.

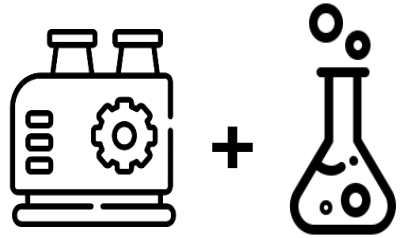
We sell technology directly

Wasted plastic film with ink or laminated

Waste Management Companies

Bio-CleanINK

Machine **De-inking Liquid**



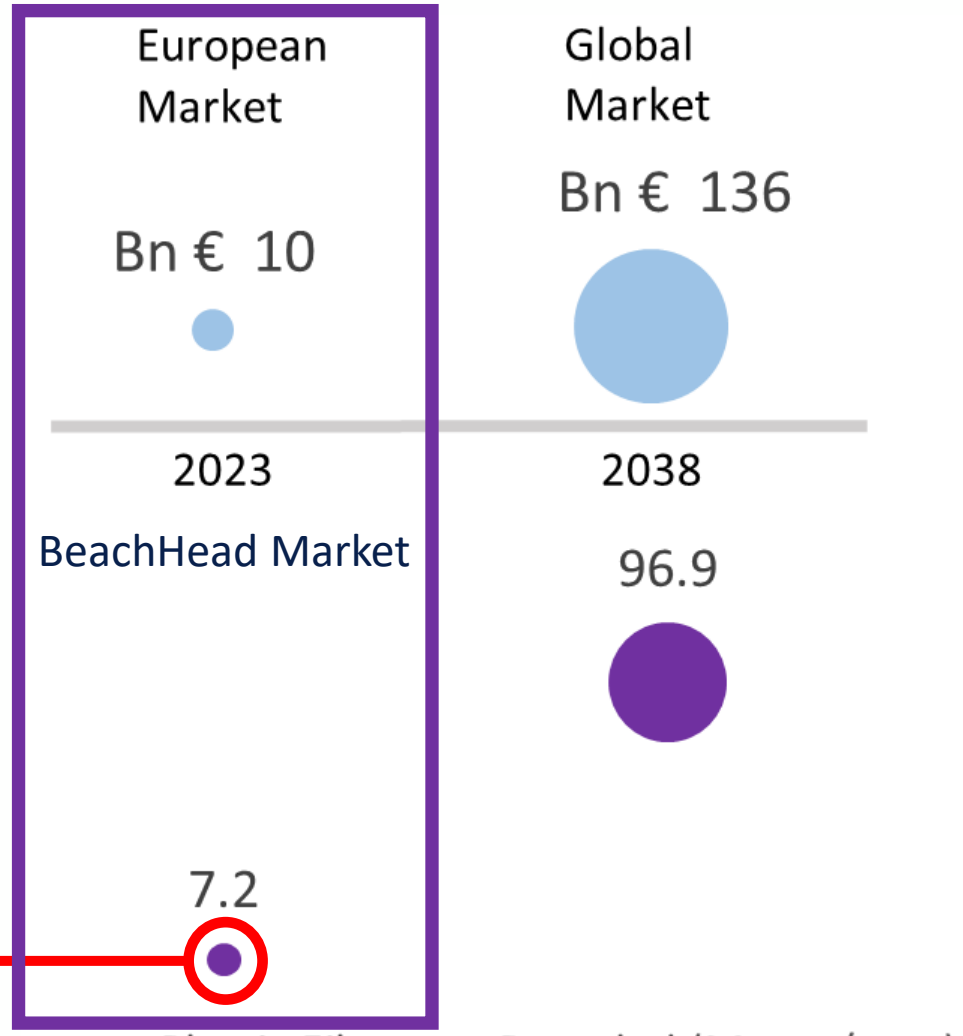
€600K € 0.25/L

Plastic pellets

Clean Plastic Film

DEAL

Customers: Waste Management And Recycling Companies



7.2 million tons/year

Not recycled plastic films in Europe (2022)

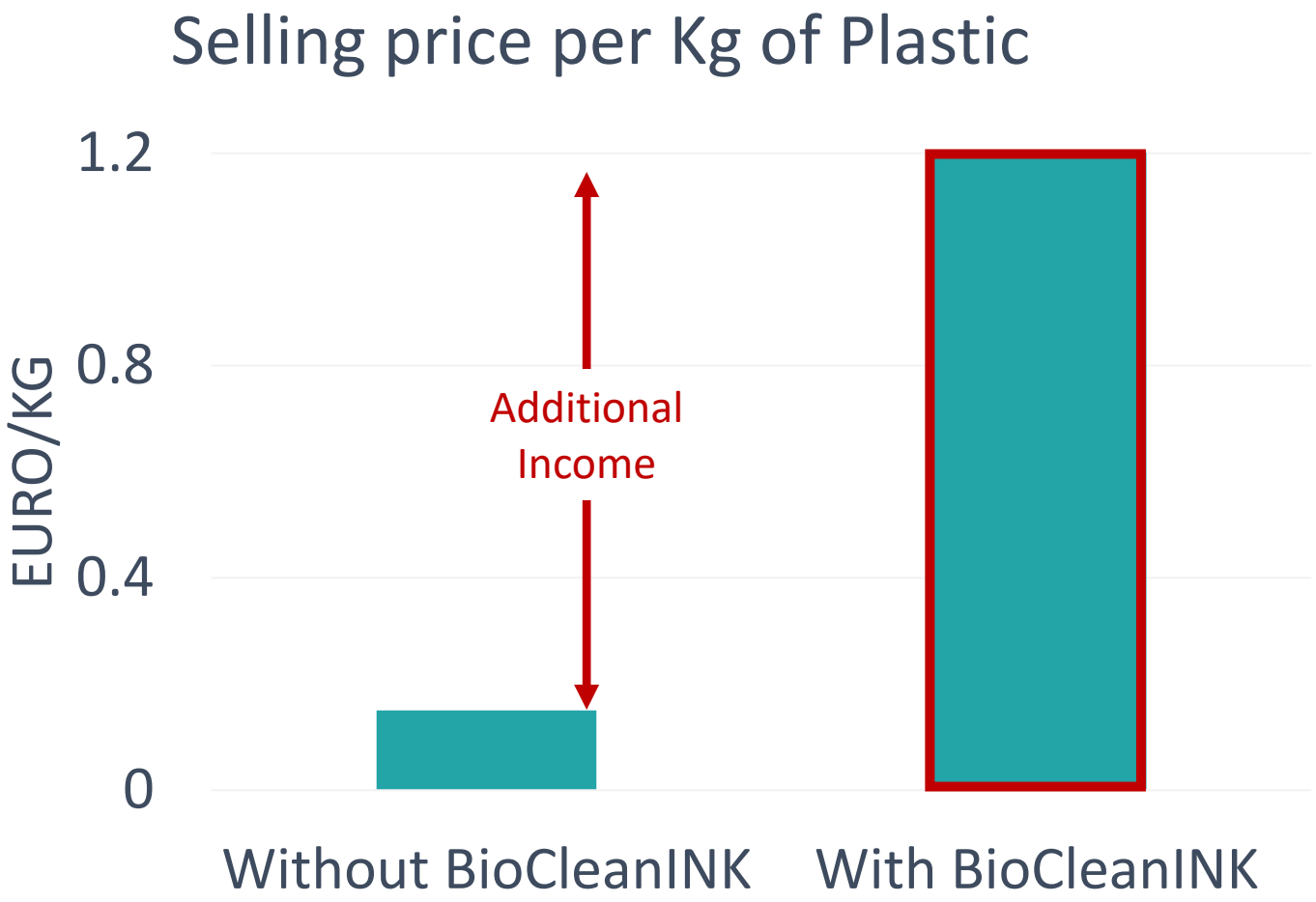
7.2 Millions of tons/year = 2000 machines

Source: 2020
www.europarl.europa.eu

Enable customers to access high-value markets with an economical add-on

Our Clients

get a higher price for the same kg of plastic



VALUE PROPOSITION

We developed an innovative method to process plastic film waste

The Product

Pilot plant 500Kg/h.

The Machine

+

Water base De-inking Liquid

The Process

Deinking & Extracting different layers

+

NO toxic subproducts

Technical facts from our pilot plant:

Water use	0.06	L/kg
Cost energy/kg	0.01	euro/kg
Electricity per kg	0.16	Kwh/Kg
Carbon footprint	0.026	CO_2 kg-eq/kg
Kg plastic/kg cat	10	kg/kg cat

From Post-industrial waste or Post consume waste we can:

1. Deinking monolayer plastic films and shrink sleeves
2. Deinking and delamination of laminated plastic films and shrink sleeves
3. Deinking and delamination of multilayer packaging

What does our end user desires?

Interviews

- 6 Recycling machine producers
- 5 Waste management and recycling companies.

Key Learnings

- They pay to send plastic to landfill
- They pay to send plastic to Energy Recovery
- They need high output process

Key assumptions

- Inked plastic films pose a recycling challenge
- Deinked recycled plastic is a high value product

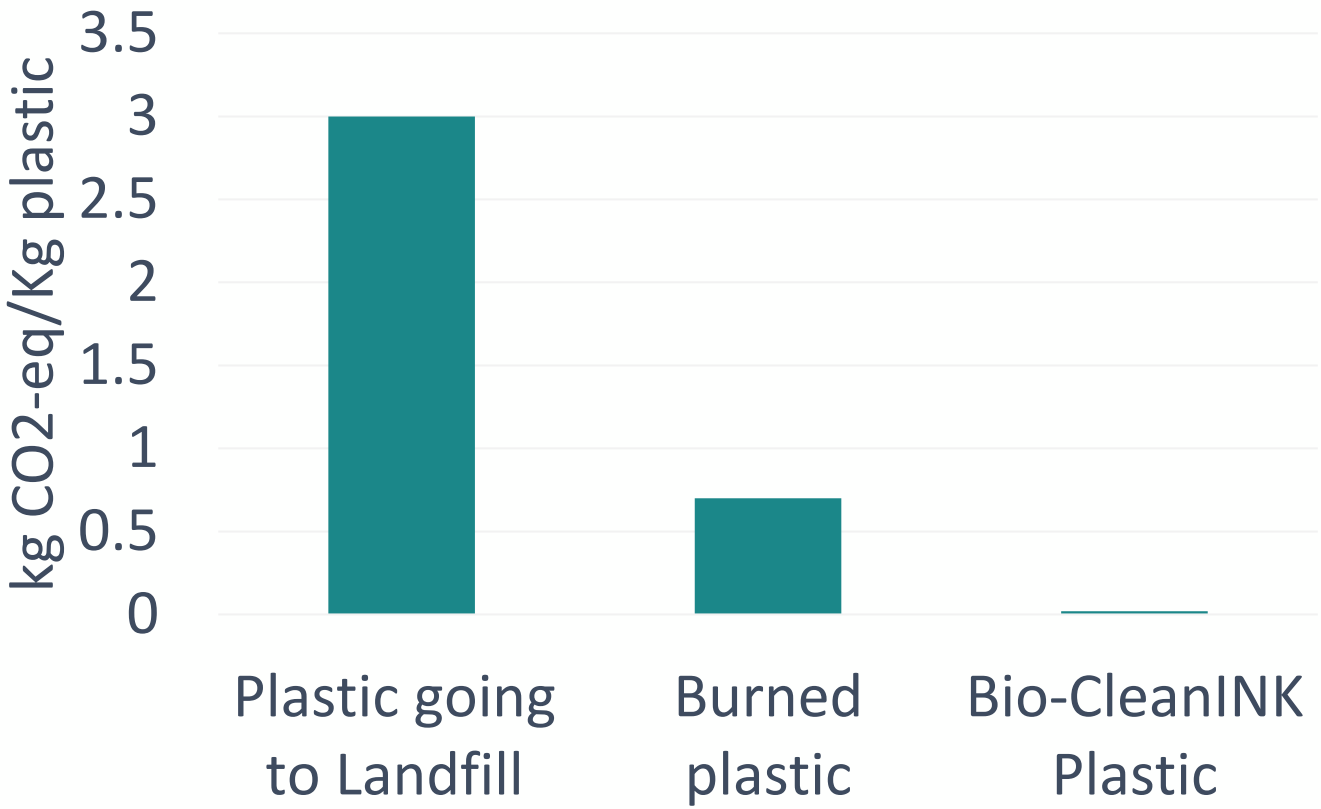
CUSTOMER DISCOVERY

Climate Impact

Reducing new plastic production by enabling plastic film circularity.

Reducing 349

MT CO2-Eq/per year



Source: 2020
www.europarl.europa.eu

What we have next in mind:

- Validation of European Market.
- find key players in the sector.
- Installation pilot plant in Netherlands for at least 500 kg/h fulfilling the European standards.
- Establish food safety standard of the process
- Define a method to predict the processing conditions of the recycled plastic material coming from our process.

The Team

Julian Zamudio
Business Developer

Msc. Environmental Technology
Entrepeneur

Andres Calderon
CEO

Chemical Engineer
B2B Sales expert

Jorge Millan
COO

Chemical Engineer
Researcher

Our Mission

- Decrease plastic pollution and make plastic valuable by de-inking 10% of the plastic film packaging produced in the world (7.2 Mill -Ton/year)
- Generate steady revenue by 2028: 6 million euros/year.
- Go to developing countries and contribute to grow jobs in the sector by plastic sorting.