

Bioproduct

As the player of the future

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Agenda

Topics Covered

What is bioproduct - definition

Examples of bioproducts

Biomimicry

Bioproducts for recycling



What is bioproduct ?

Bioproducts or bio-based products are materials, chemicals and energy derived from renewable biological material.

What is bioproduct?



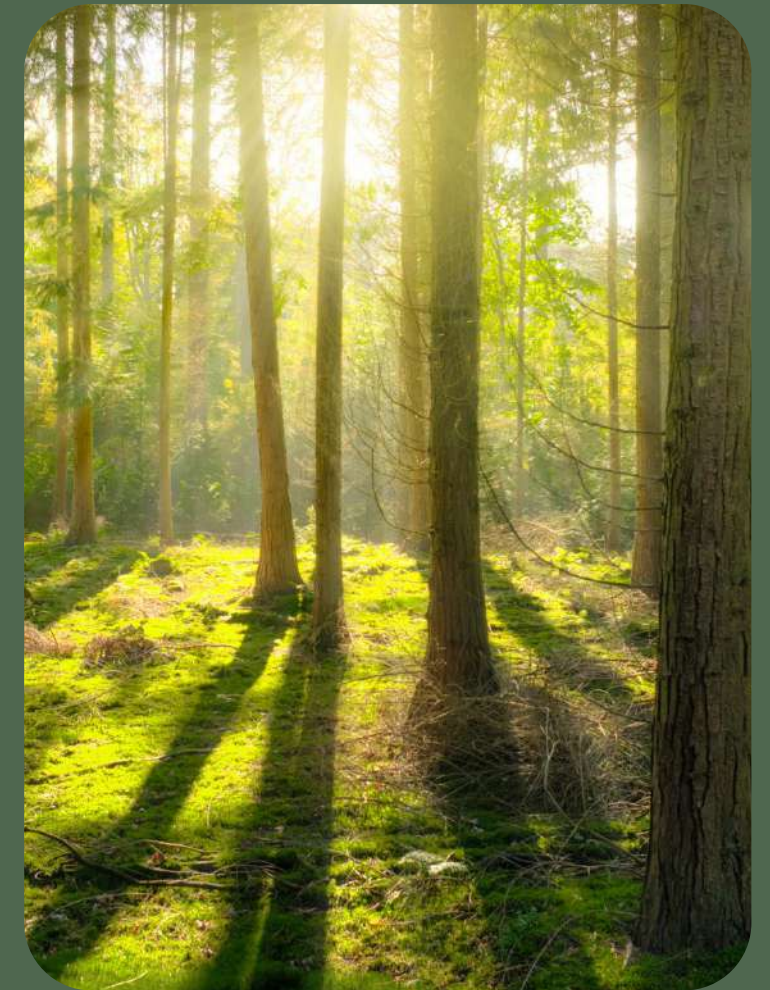
Bioproduct

is made from biomass



Biomass

is any type of organic material on a renewable basis



Production

Not all bioproducts have to involve the use of advanced technologies

Examples of bioproducts





Derivative of
petroleum



**Poly lactide
(PLA)**

Poly lactic acid



Disposable cutlery



3D printing

Bone replacements



“Design is not just
about product.
Design is about
responsibility.”

Dr Carmen Hijosa
Founder and Chief Creative and
Innovation Officer at Ananas Anam Ltd

What do cows and pineapple have in common?



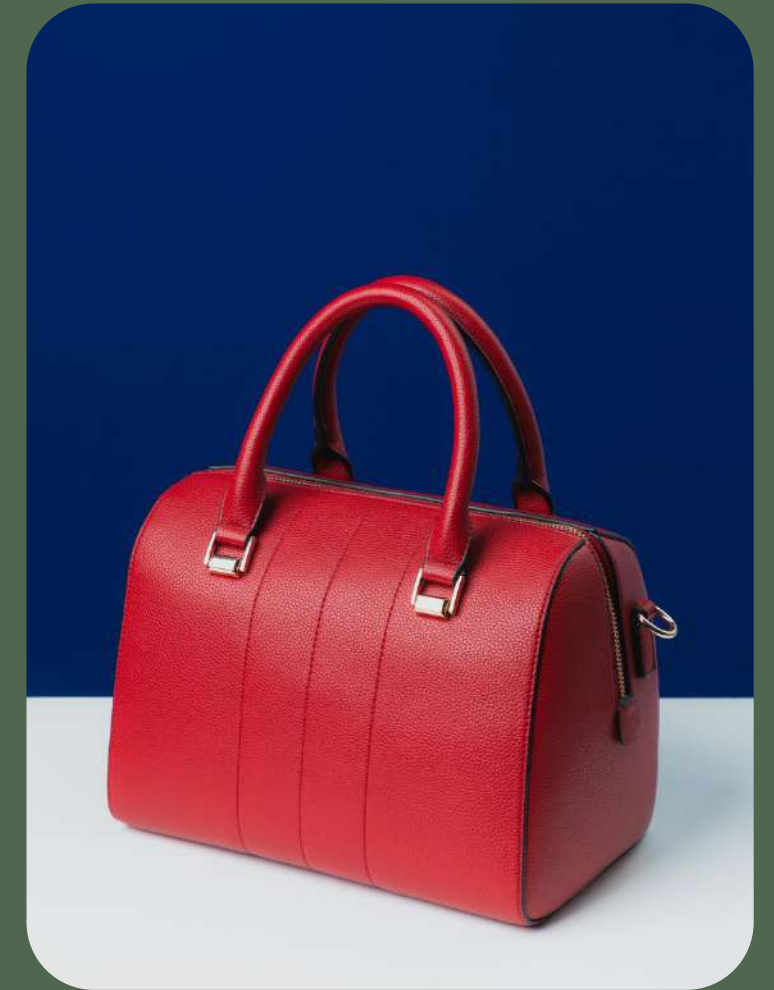
Leather

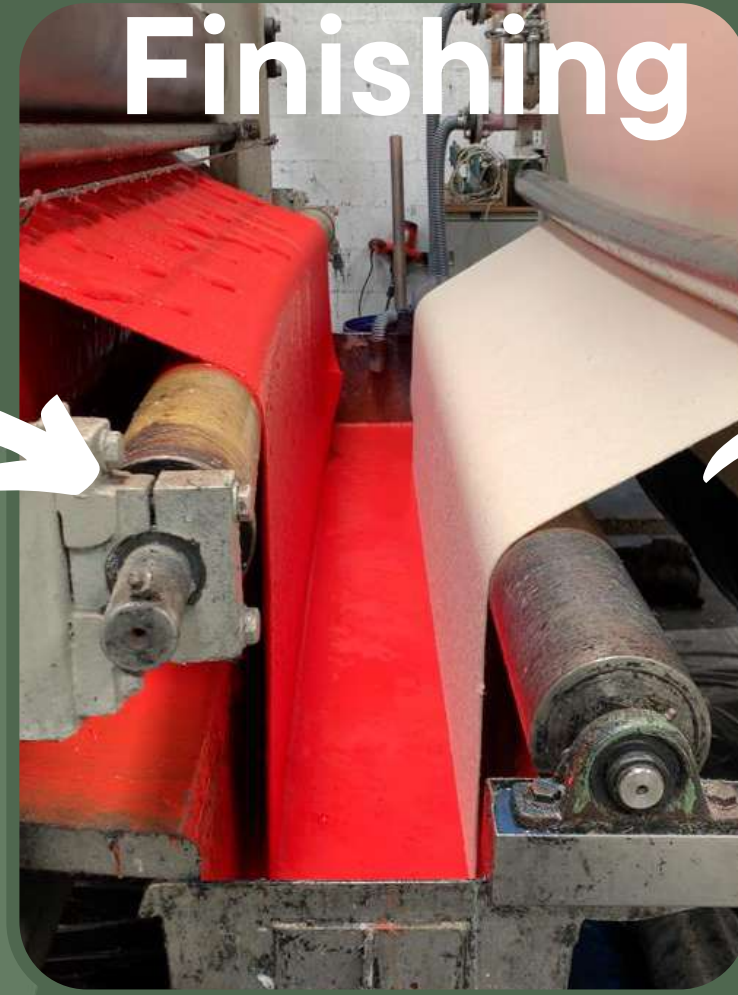
20 stages
250 toxic chemicals

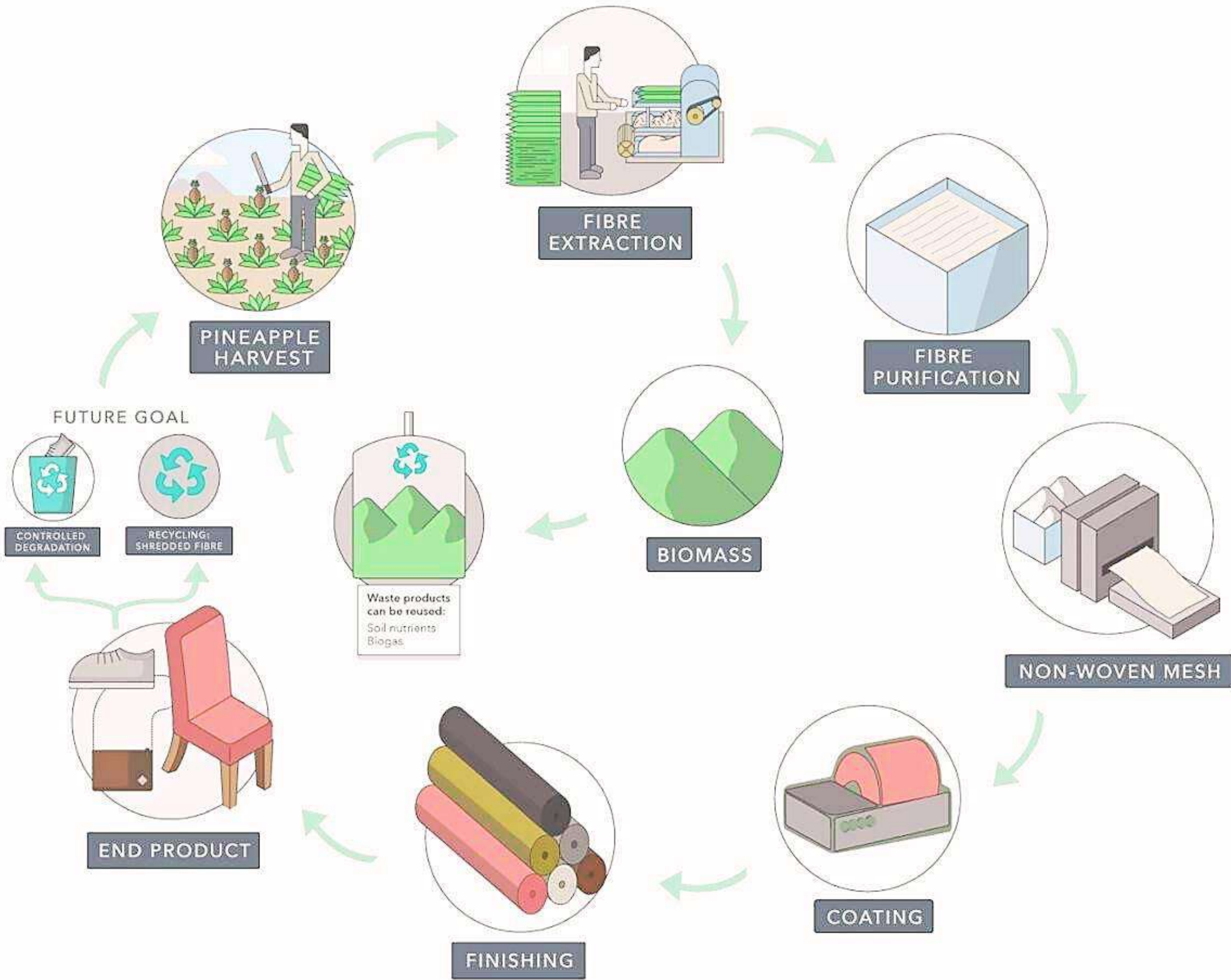


Pinatex

5 stages
No toxic chemicals







Circular loop

Natural components

No toxic agents

Bioresorbable

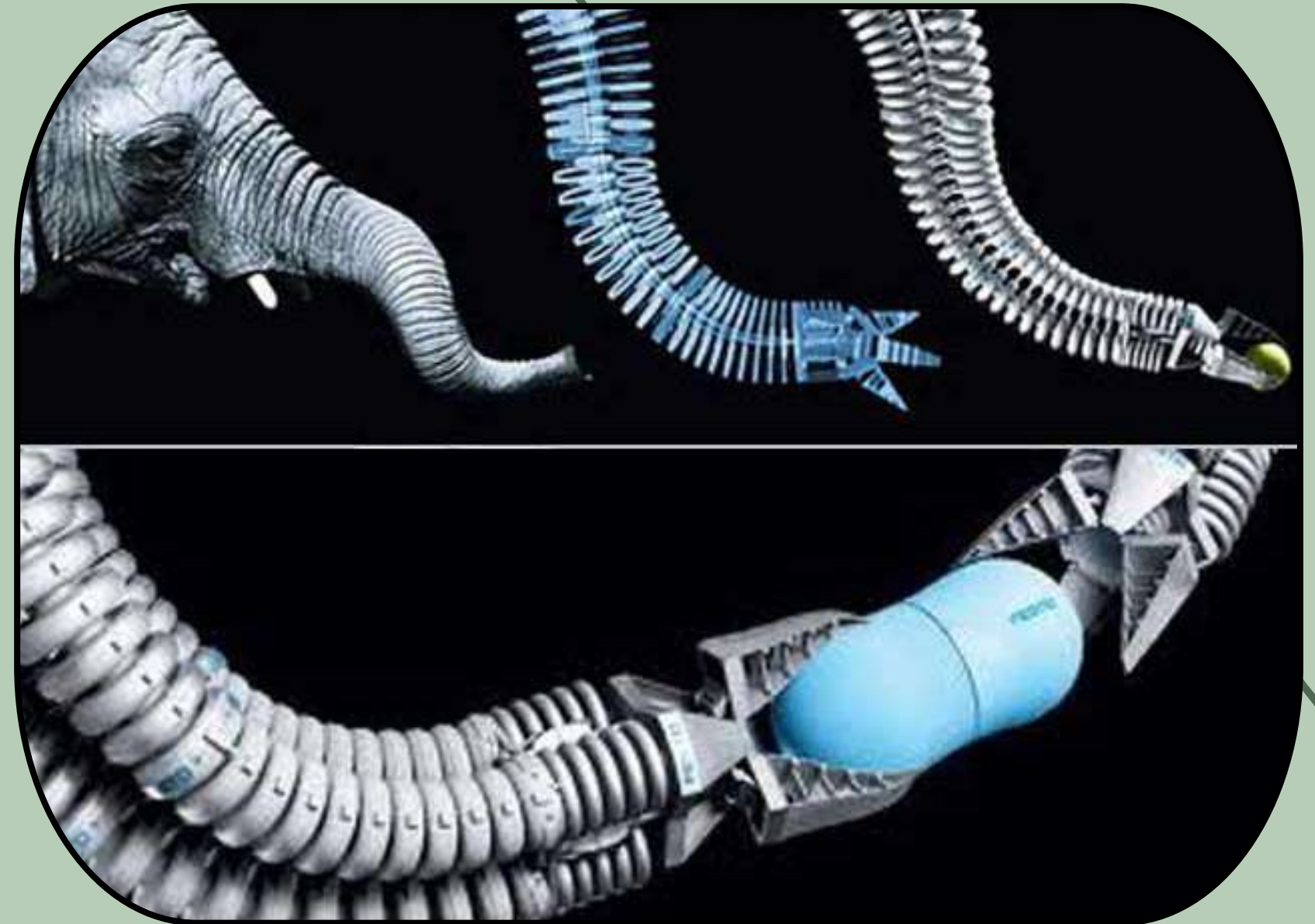
Biomimicry

Biomimicry is a practice that learns from and mimics the strategies found in nature to solve human design challenges





Elephant's trunk



Festo Bionic Handling Assistant

robotic arm that can easily move and grip objects without endangering humans.

How can we make it ideal?

**Produce bioproducts by
recycling!**

SmokeScreen

by Yael Mordechay

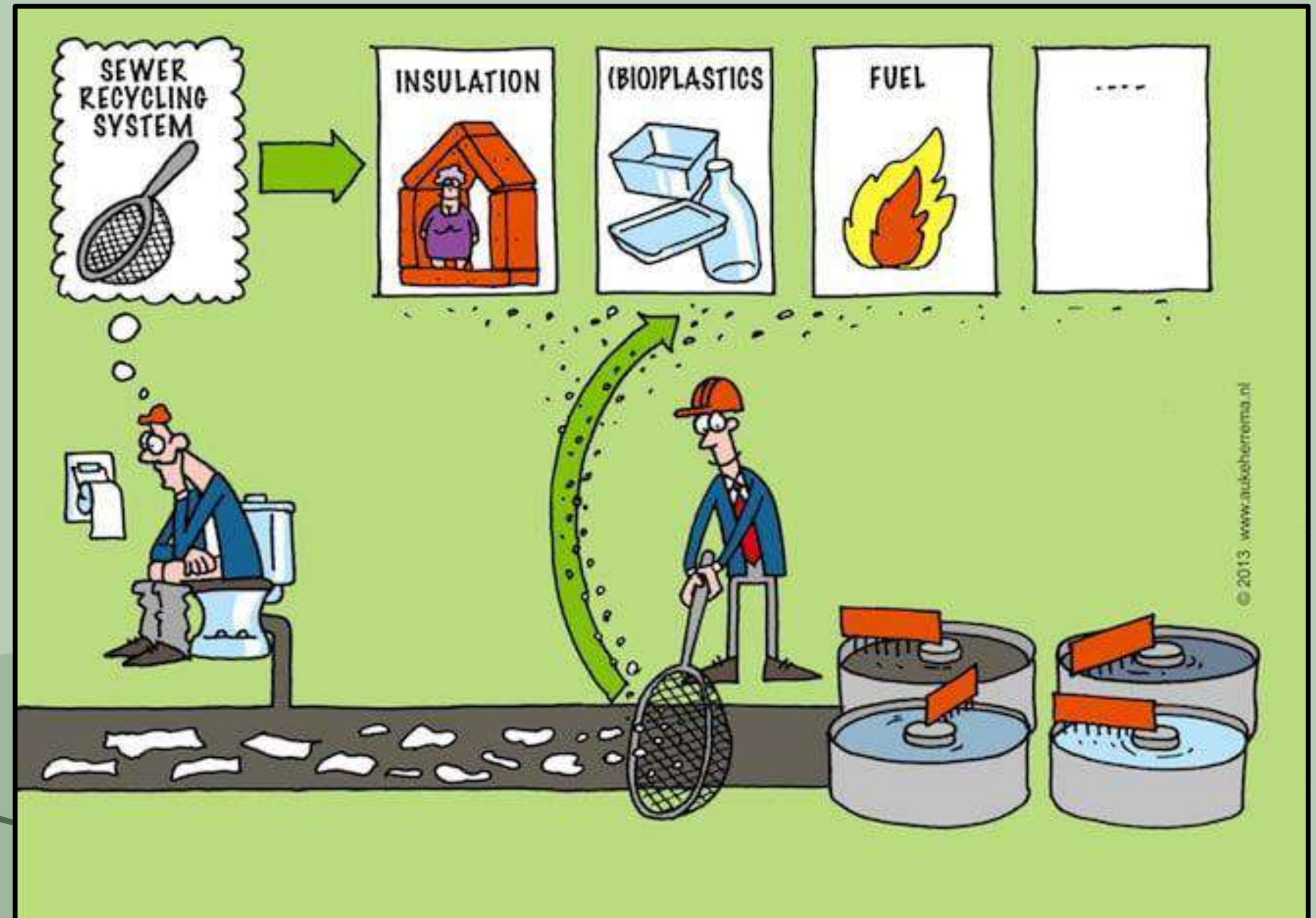


The project takes on how we treat materials defined as waste and specifically examines whether cigarette butts can be reused.

Recyllose

by CleanTech

a valuable commodity produced by sewage mining and reusable as a raw material or biofuel





Bioproduct

Can be produced
from biomass

Can be produced
from by-products
from other
production
processes

Can come from
recycling



Thank you!

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