

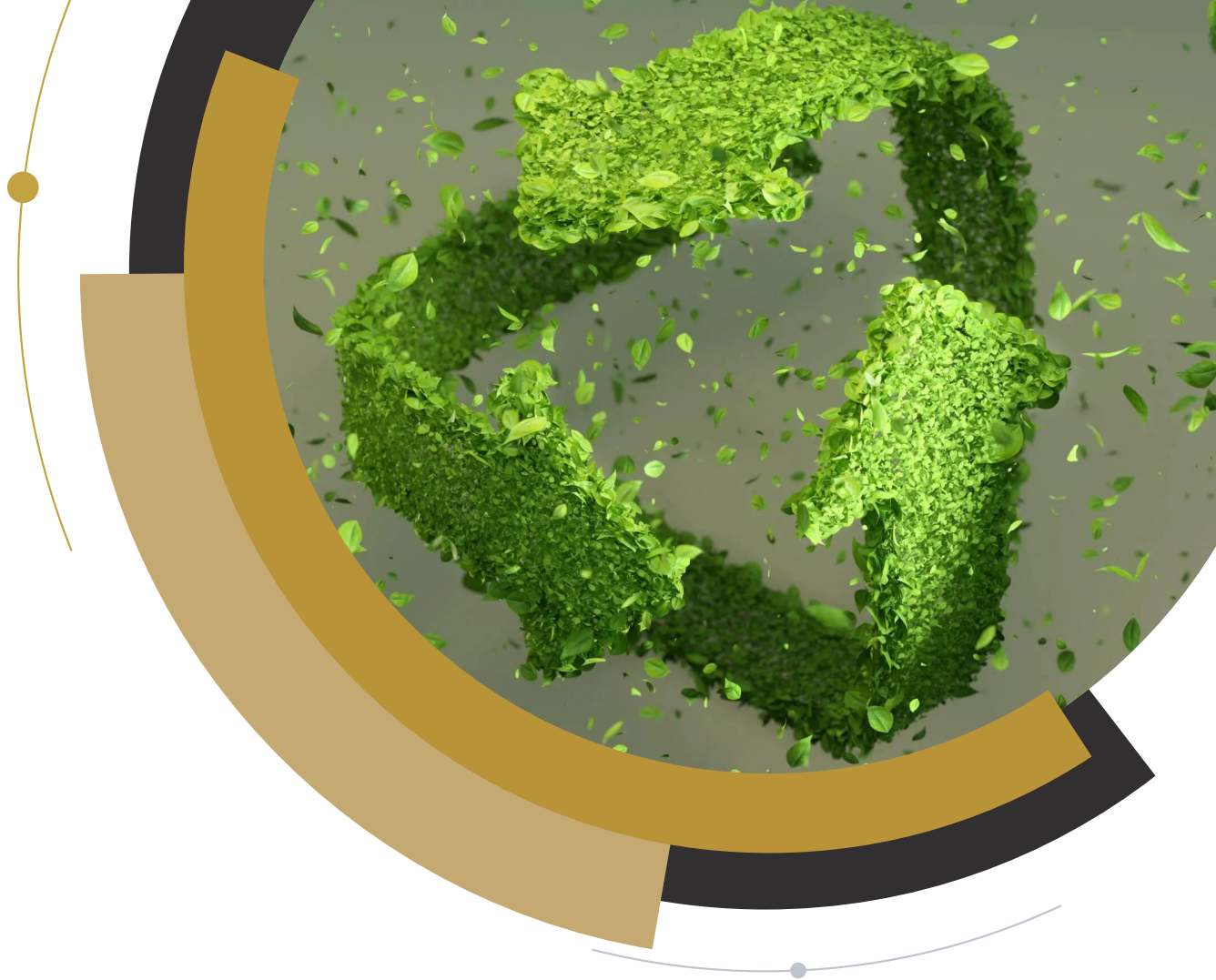


SUPERNOVA
WASTE TO ENERGY

EcoFusion

Transforming waste
Into high value products.

Without Burning,
Without Residue,
Without Landfills.





Current Scenario

- More stringent laws regarding waste and waste disposal and reverse logistics
- The most demanding society on environmental and social issues
- The current recycling processes are not efficient because:
 - They do not eliminate 100% of the waste;
 - Most of the traditional plastic recycling processes generate dirty water in their process, which requires treatment with chemicals;
 - Rejects from the recycling process end up in the landfill;
 - The environmental impact remains washing, use of chemical additives, etc;
 - They are not financially viable;
 - Current technology: Many restrictions and high cost.



Why EcoFusion

Because our technology solves the waste problem in a social, environmental and economically viable way.





EcoFusion



Mission

Develop innovative and sustainable technologies that are capable of transforming waste into products of high added value that provide comfort, safety and solutions for the lives of the people and the planet.



Vision

Eliminate waste from the world.

To be the definitive solution for the transformation of waste.



Values

Ethic
Transparency
Confidence
Respect
Integrity
Dedication
Technology



Where are we





Our Technology

Transforms waste into Electricity, Green Biofuels, Biowood & Biochar/Fertilizer!

Characteristics of the process:

01

Does not use water or chemical additives;

04

Accepts practically all types of waste;

02

Does not generate waste all leftovers are reused in the process;

05

It allows the processing of waste that is not used in traditional recycling methods, including organic;

03

It does not generate any kind of pollution, without emissions and effluents;

06

Eternally recyclable in the same process.



Our Technology



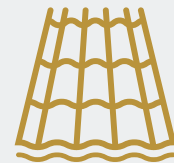
Packaging and other waste is sent to the EcoFusion unit

EcoFusion Technology



1. The residues (including organic) are transformed into IBSC (Industrial Bio Synthetic Compound). IBSC is already a fuel with around of 4000 kcal / kg.
2. Through the extrusion and lamination process, IBSC is transformed into Bio Synthetic Wood (BSW).
3. Through pyrolysis or the rankine process IBSC is transformed into Electricity, Green Biofuels, Biowood & Biochar/Fertilizer

Final Product





What is IBSC for?

01

Fuel for furnaces or boilers:
1 kg IBSC = 4.000 kCal

02

Generate electricity:
100 ton generate 150 MW

04

Produce synthetic diesel:
100 ton IBSC = 30.000 lt + 20/25
ton charcoal

05

Produce bio synthetic wood:
1 ton IBSC = 1 ton BSW

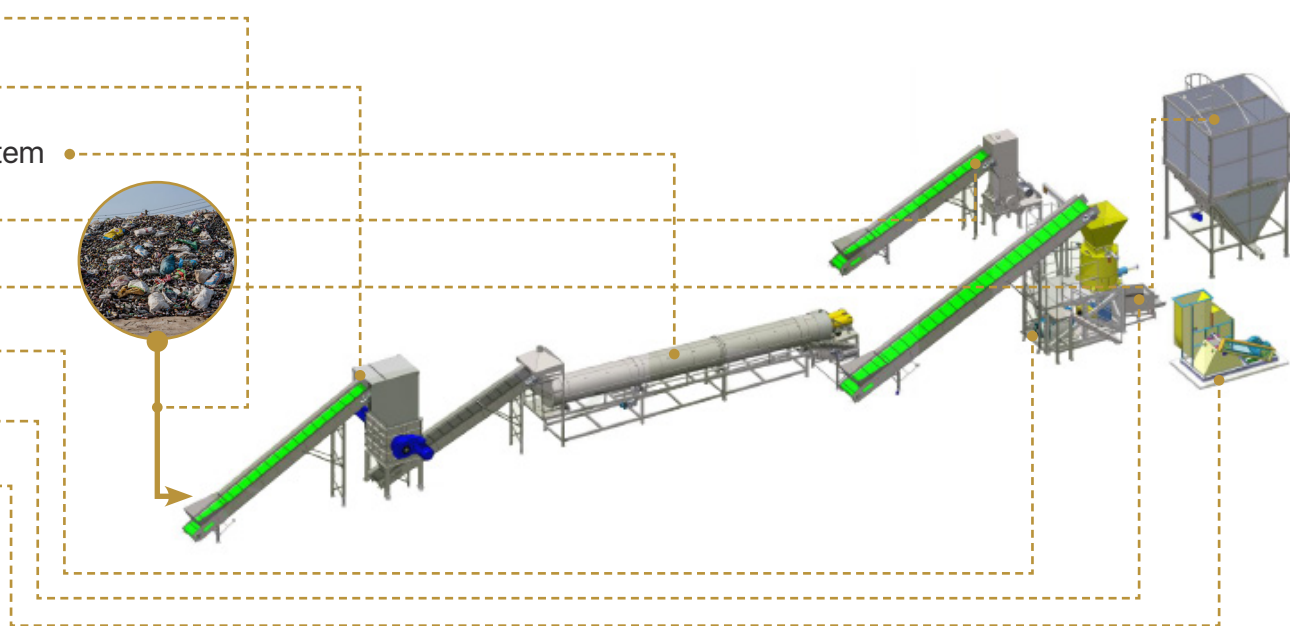




How it Works

IBSC for Solid Fuel or Heavy Oil production - I

- USW Income ●
- 2 - Shredding ●
- Drying and Decontamination System ●
- Regrinding System ●
- IBSC Silo ●
- IBSC Reactor ●
- 1 - Particles Size Classification ●
- Transport Turbine ●



1 - Particles larger than the standart are sent to the re grinding system

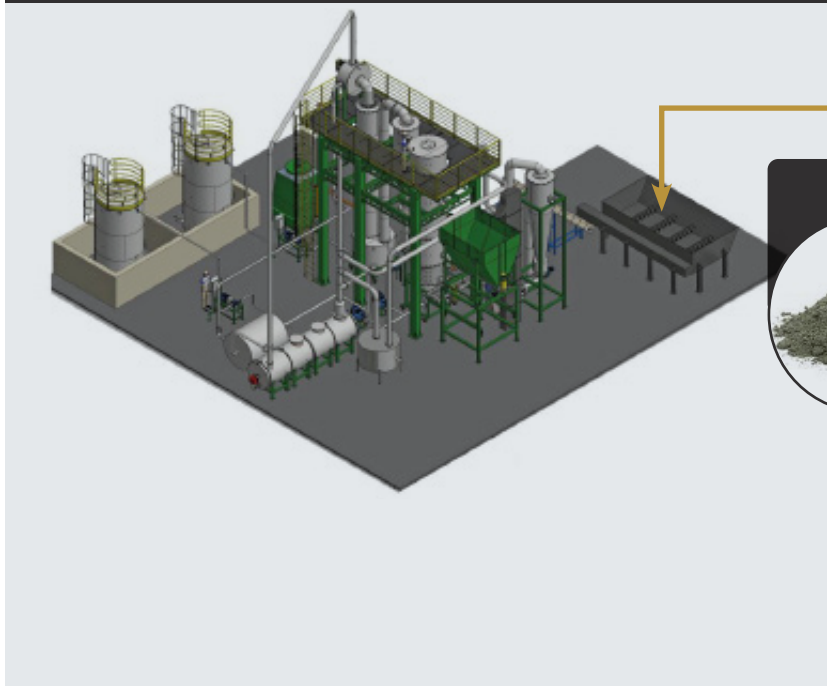
2 - The Schredding system can be fed automatically with the addition of an extra feeding conveyor .



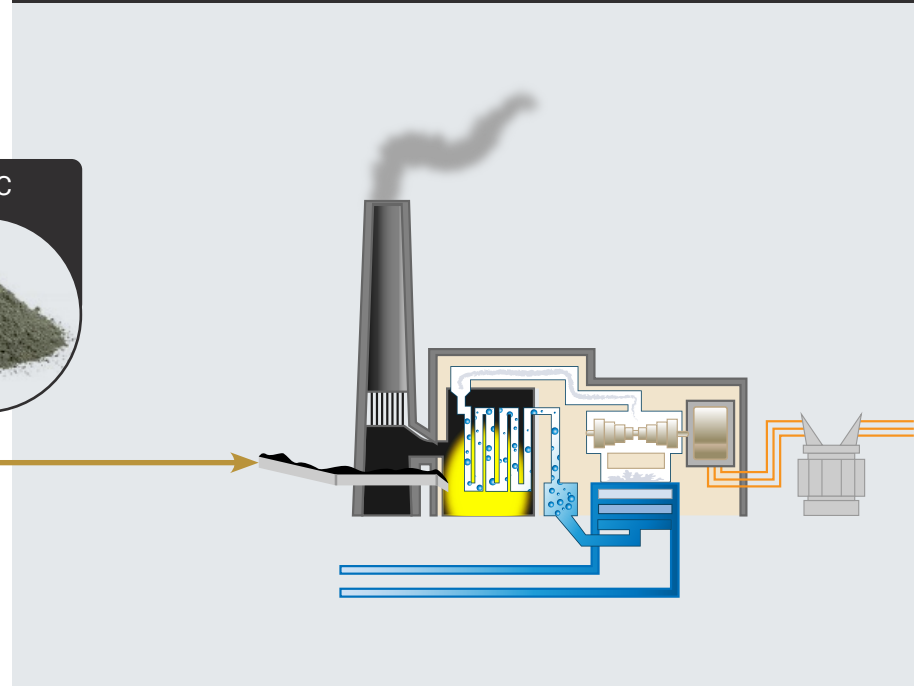
How it Works

IBSC for Solid Fuel or Heavy Oil production - II

Continuous pyrolysis reactor with refining for synthetic diesel



Replacement of coal in traditional thermoelectric plants

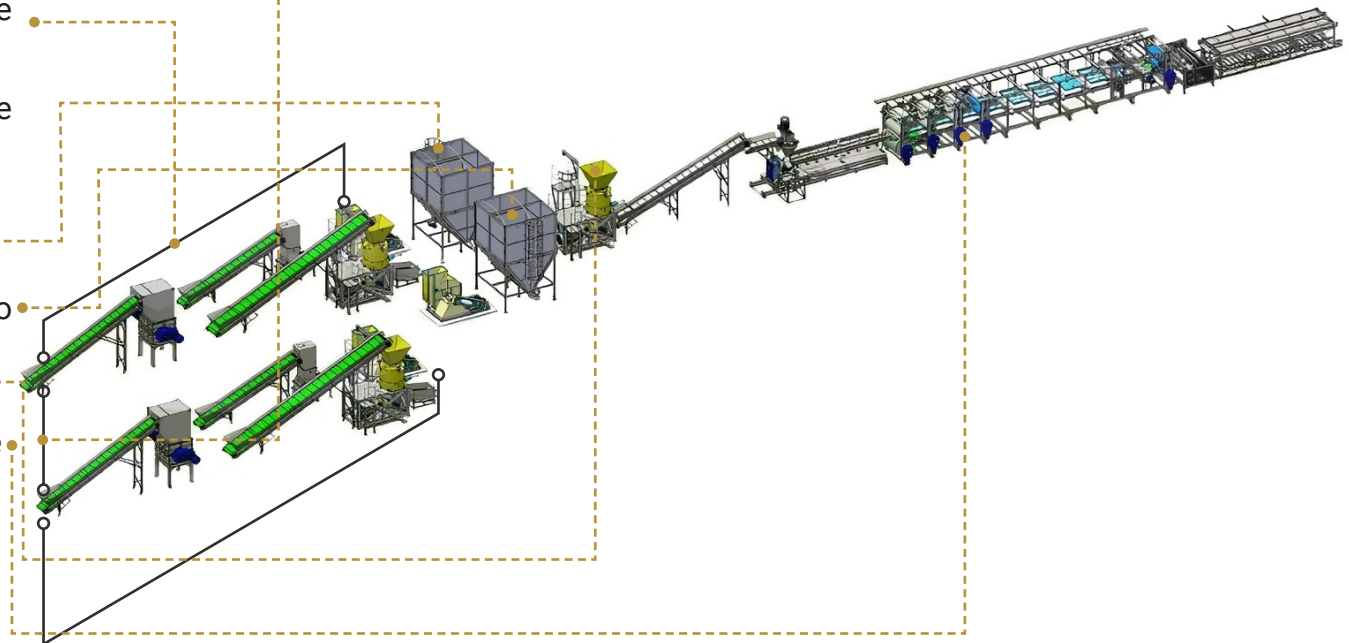




How it Works

BSW made from USW

- The separation of the waste to feed the line can be manual or automatic
- Pre compound for IBSC made only from plastic waste
- Pre compound for IBSC made only from organic and other solids waste particles
- Plastic pre IBSC silo
- Organic / Others pre IBSC silo
- IBSC reactor for BSW
- BSW Boards Lamination Line

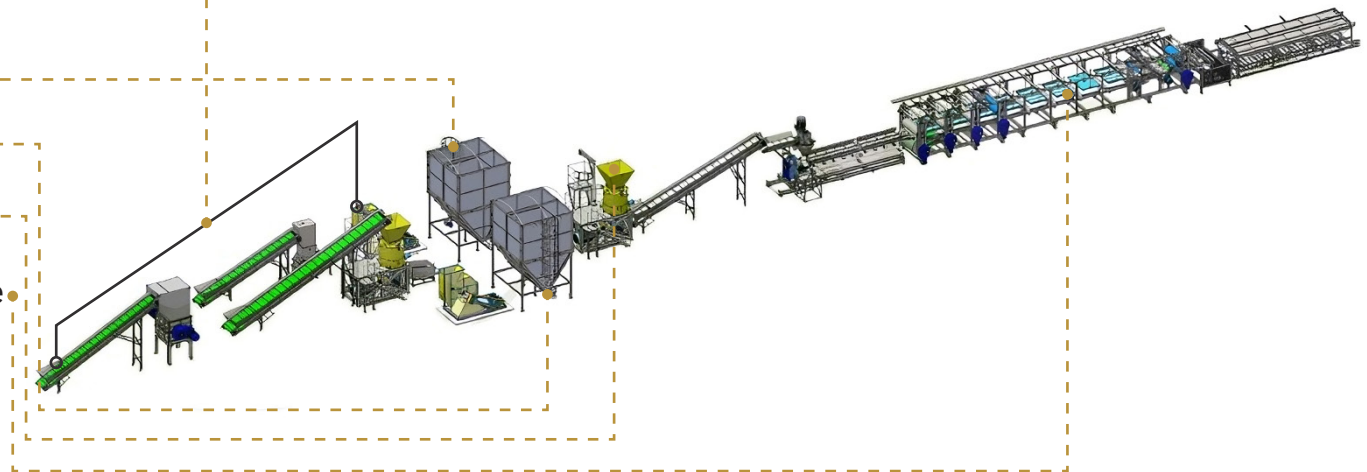




How it Works

BSW made from ISW (industrial solid waste)

- Pre compound for IBSC made only from plastic waste
- Plastic pre IBSC Silo
- Solid Fillers Silo
- IBSC reactor for BSW
- BSW Boards Lamination Line





Final Product

Bio Synthetic Wood (BSW): Can replace natural wood, fiberglass, aluminum, steel, etc.

Non polluting;

Hardness equivalent to the best natural hardwoods;

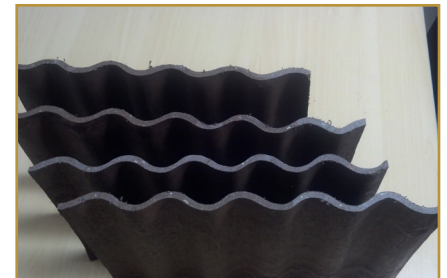
Thermal, acoustic and electrical insulation;

Waterproof;

Not susceptible to pests, cracks;

It can be painted, glued, welded, nailed and machined;

It can be fireproof.





EcoFusion aligned with a World without waste

By methods used until now, large part of recyclers generate pollution and tailings (which go to landfills).

EcoFusion Technology is the only one that does not use water, chemical additives or pollution of any kind. Nothing goes to the landfill.

For People and Families

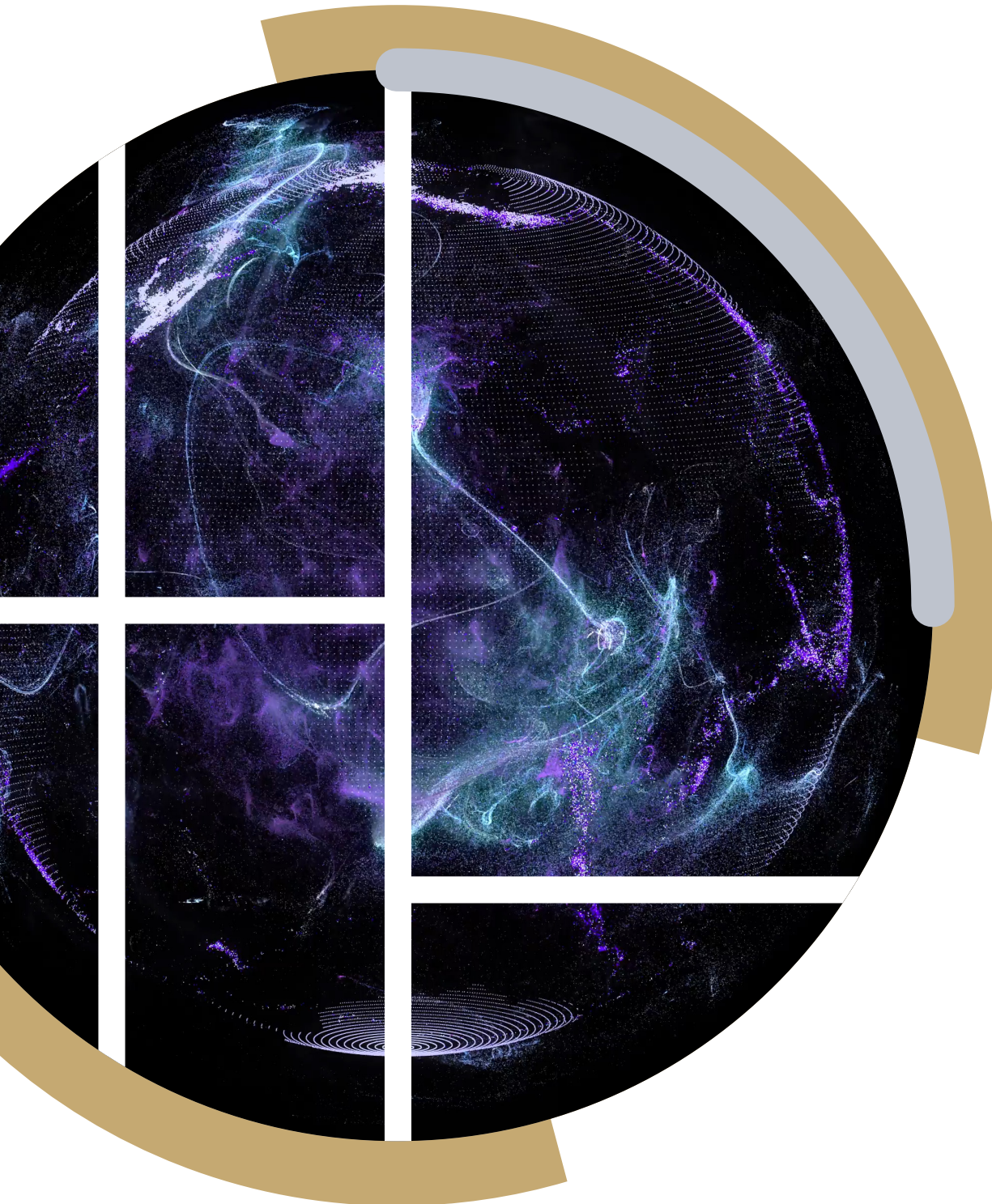
Reinforces government Image of Competence, Safety and Respect. He communicates that through his attitudes, government and Population can solve the waste problem. New business opportunities, jobs and income.

For Our Communities

The waste returns transformed into products that improve the quality of life of the community. School furniture, plaza benches, bus stops, classrooms, sidewalks, parks, toys, electrical energy, synthetic diesel etc.

To the planet

Each ton of Bio Synthetic Wood produced, removes 2 tons of waste from the environment and saves around 7 adult trees. We can save natural resources with EcoFusion technology



SUPERNOVA

WASTE TO ENERGY

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