

# Introduction Plantics



Winner of the Global Innovation Award  
organized by German Nova Institute:  
*“Renewable Material of the Year 2021”*

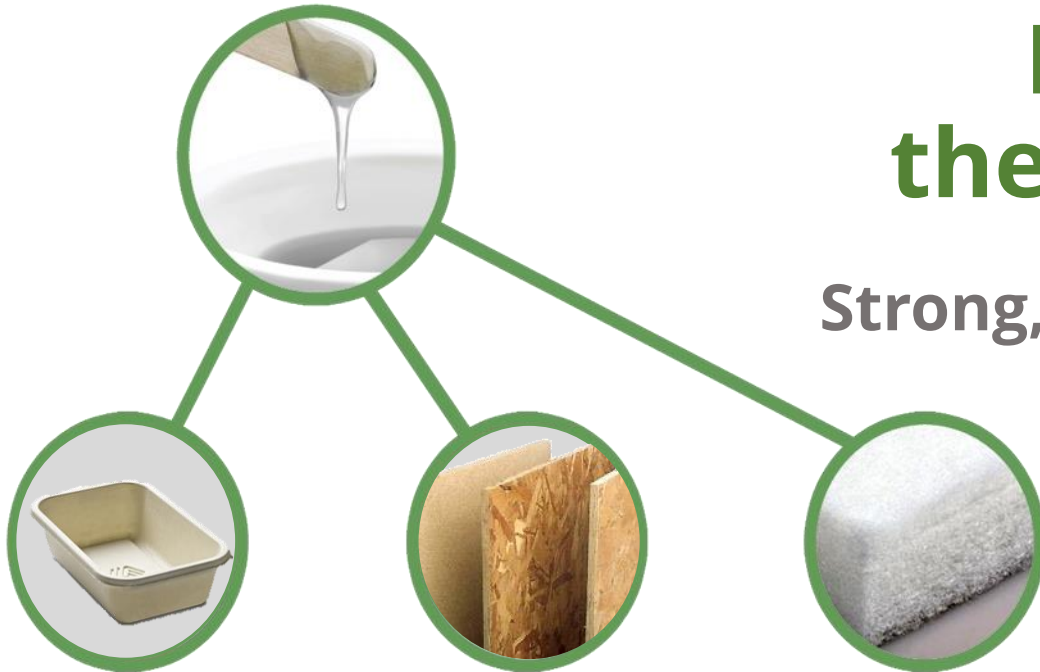


<https://www.youtube.com/watch?v=CKYwQhZXp8M>

# Pitch deck

## Plantics materials: the sustainable solution

**Strong, 100% biobased, recyclable, and safe**



# Existing thermoset resins are fossil based, not safe, and non-recyclable



# Solution - Plantics bio-resins



**Plantics bio-resins**

**Coatings for  
moulded paper**

***Packaging***



**Binder for  
composites**

***2D panels***  
***3D products***  
***Fiber reinforced***



**Base material  
for foams**

***Insulation***

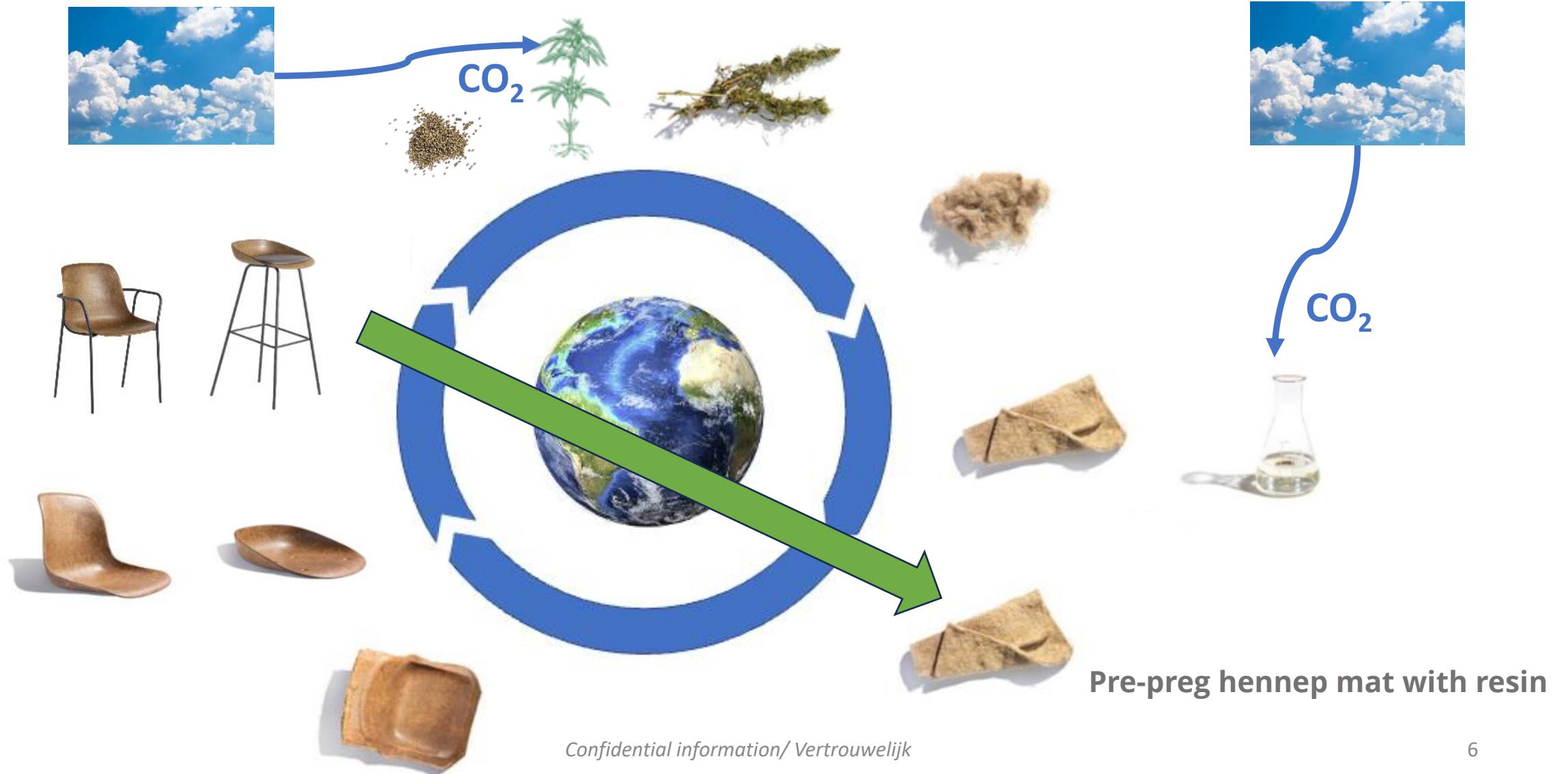


# Mission and vision Plantics

- Provide game-changing material solutions that help to **solve the world's plastic and CO<sub>2</sub> problems**
- Become a **global leading company** in creating the new circular economy, together with a **strong partner network**
- **Local** raw materials, **local** production, and **local** products



# “Never ending” products



# Raw materials Plantics Bio-Resins

100% plant-based originating from

Available globally on an industrial scale

Safe and not (yet) competing with food chain

# Construction Materials (2D and Insulation)

Fieldlab Emmen

- Wood, Hemp, Paper Panels
- Foam Insulation

Filmpje weg? Alleen plaatje?

**Link to Film**



<https://www.youtube.com/watch?v=Gmv64BhXqrU&t=>





# 2D Panels

## Circulair biobased kitchen



# Glass fiber traffic poles (filament winding) Hemp Traffic signs





# 3D Hemp composite applications

## Truck spoiler







# 3D Hemp composite applications

## Coffin





# Furniture and design

## Filament wound table leg and lamps



# Furniture and design

## 3D printed composite table



Greengridz  
Hemp Table Top

**3D printed** table  
legs



# Packaging, coated paper/carton

Introduction of Plant pots  
in the Market under the  
tradename **DOPA**





# The Plantics thermoset resins and materials are Unique

The only 100% bio-based and circular thermoset

Negative CO<sub>2</sub> footprint

**Safe**; not toxic components; no formaldehyde, flame retardant

Resin can be depolymerized and re-used

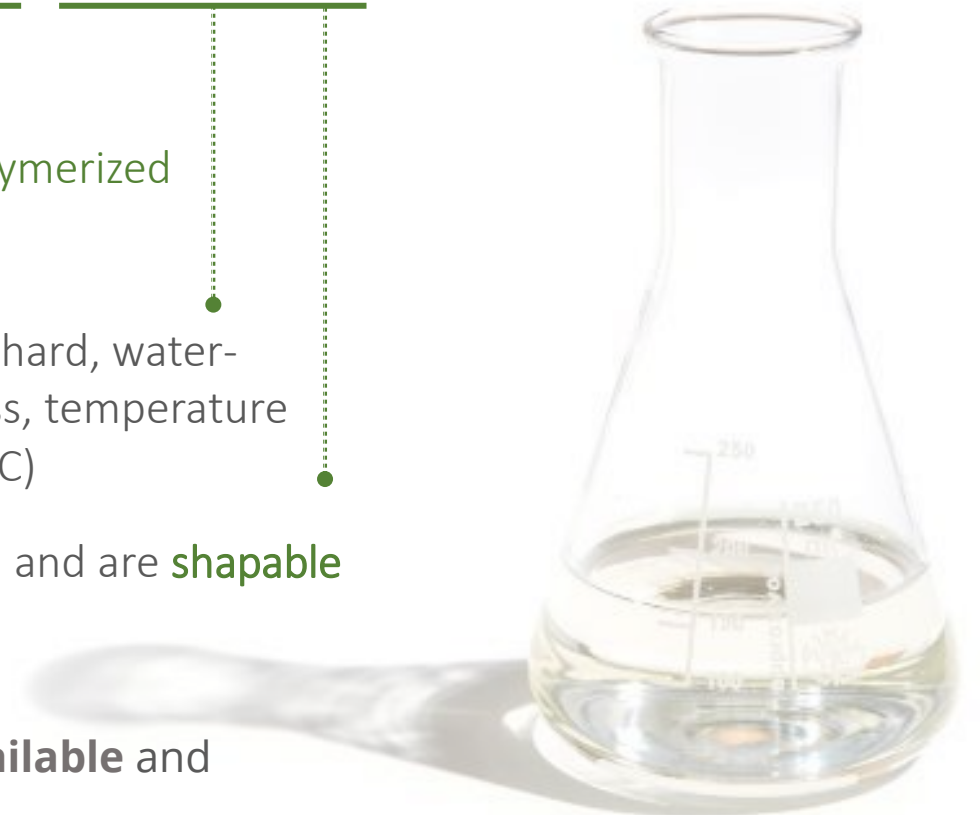
**Superior**; strong, hard, water-resistant, odorless, temperature resistant (> 200 °C)

Its materials have a **natural** look and feel, and are **shapable**

**Competitive:** costs resins ~ costs fossil-based resins

**Fast implementation:** raw materials for resins **abundantly available** and resins can be made in **existing production facilities**

**WW patent protection:** **14 patent families**, more in preparation





# Plantics history



- 100+ Patents
- 15+ Partners
- 40+ Employees
- 2800 m2 lab/pilot area



- Facilities at Partners
- Investment development Plantics Technologies 2010-2022  
**23 million Euro**

# Business model

Create and share value together with strong partners

## Company activities

- **Application development and commercialization** with our partners
- **Continuous improvement** resins, materials, and production processes
- **Production** of resins and intermediate materials
- **Pilot production** of applications
- **Production, Technology, and Commercial support** (a/o ingredient branding) to our partners
- Strengthening of **IP positions**

## Create and share value

- **Sales** of resins, and intermediate materials
- **License fee** on products
- Upfront **fee for technology**

# Plantics Team and Partners

40+ and 15+ partners





# Questions?



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**How to accelerate?**