

# Turning CO<sub>2</sub> into Value



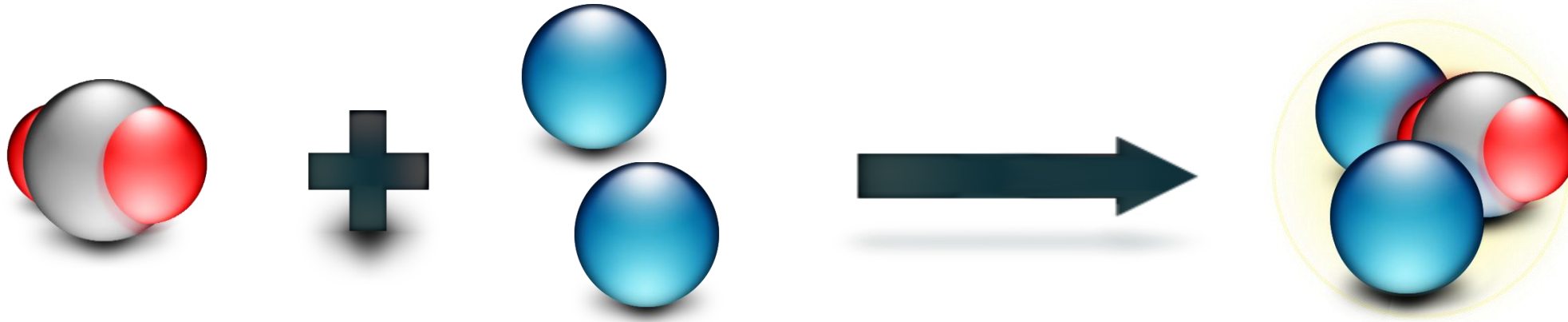
2050

Pol Knops



Green Minerals

# Trapping CO2



**CO2**

**Olivine**

**Green Minerals**



## **Product:**

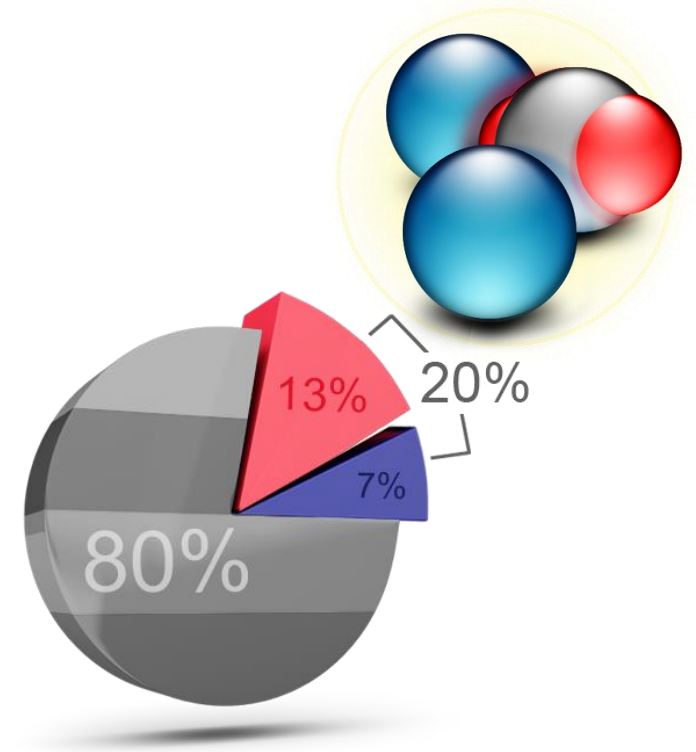
- $\frac{1}{3}$  CO<sub>2</sub>
- Exothermic reaction

## Very small particles:

- $\frac{2}{3}$  Magnesite
- $\frac{1}{3}$  Amorphous Silica

## Green Minerals

- Concrete
- Paper
- Polymer



# Concrete

- **Benefits of concrete (durable, moldable)**
- **Higher packing density**
- **German Research program**

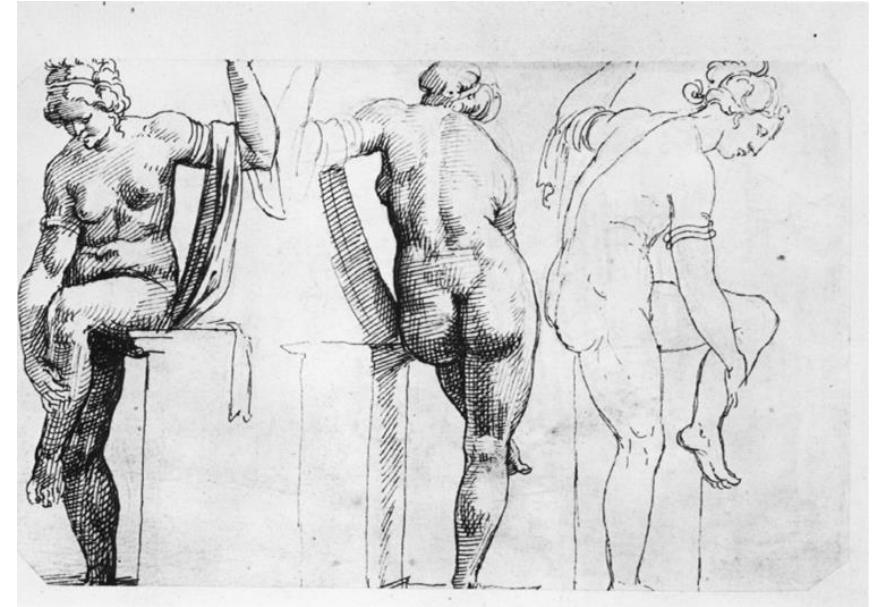


- **Replacement very fineley grounded lime**
- **1<sup>st</sup> Prototype 3D printing**
- **Biobased polymers + CO2 based fillers**





- Replacement “PCC”
- CO2 negative paper
- In addition to “**bio-based**” also “**CO2 based**”



# Business case

**CO2**



**+ € 5**

$\frac{1}{3}$

**Olivine**



**- € 30**

$\frac{2}{3}$

**Green Minerals**



**- € 40**

**+ € 100**

$\frac{3}{3}$

**Energy**



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