

# Inject paper rather than plastics

**Injectose offers an alternative to plastics in packaging.**

**The aim is to replace plastic injection moulding with paper injection moulding by adapting existing industrial equipment and processes.**

Injectose enables the production of paper packaging with more complex shapes that cannot be achieved with existing paper manufacturing processes.

Paper injection has been made possible by mixing cellulose fibres with an additive. The additive is added in very small quantities, interacts with the fibres and provides lubrication properties.

After injection and drying, the packaging is fully recyclable in the existing paper/cardboard chain, and is also biodegradable and compostable.



## **Paper injection-molding has no equivalent to produce complex and recyclable packaging**

Paper and board converting



Very simple shapes

Bio plastics and cellulose composites



Expensive and non recyclable

Wet molded fiber



Too slow + simple shapes

Dry molded fiber & Deepdrawing



Simple shapes

 **injectose**

# Injection molding of cellulose fiber is a simple and reliable technology



Cellulose fibers



Water



Biobased additive

The process is based on the lubrication of cellulose fibers, additive stick on fiber surface and create a lubrication layer



After mixing, the filament is dried and pelletized

The pellets are then hydrated to form a paste, which is processed in an injection press to produce a 3D object



10

years of  
experience  
3y thesis

2

industrial  
technical  
centers

5

first prizes  
innovation  
& scientific  
challenges

1

label national  
strategy  
acceleration

2

pilot  
equipments in  
building

4

potential  
markets

+12

Ongoing  
collaboration

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