



# mogu

Industrializing Natural Processes

**Mogu S.r.l.**

Sustainable materials from mycelium-based technology

12/06/2018



Mission:



## We grow materials for a sustainable and healthier world!

Nature is offering amazing cues for our living.

In MOGU we believe that **natural grown material** can deliver great benefit to society and individuals.

For this reasons, we developed our **technology** to convert residual biomass into **100% biobased, renewable and recyclable** composite materials.



Business model:

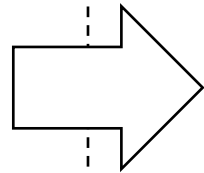


# From linear to circular

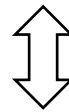
## PROBLEM

**feedstock suppliers**

- textile industries
- agro-industry
- farms
- waste manag. companies
- timber sector



manufacturers  
finishing companies  
logistic

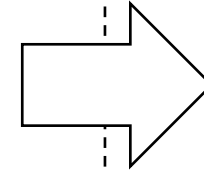


universities  
private & public research  
EU Consortium

## SOLUTION

**products application**

- green building
- interior design
- furniture
- automotive
- packaging
- horticulture





Industrial Projects:

## Solution for the Interior Design: Mogu Home



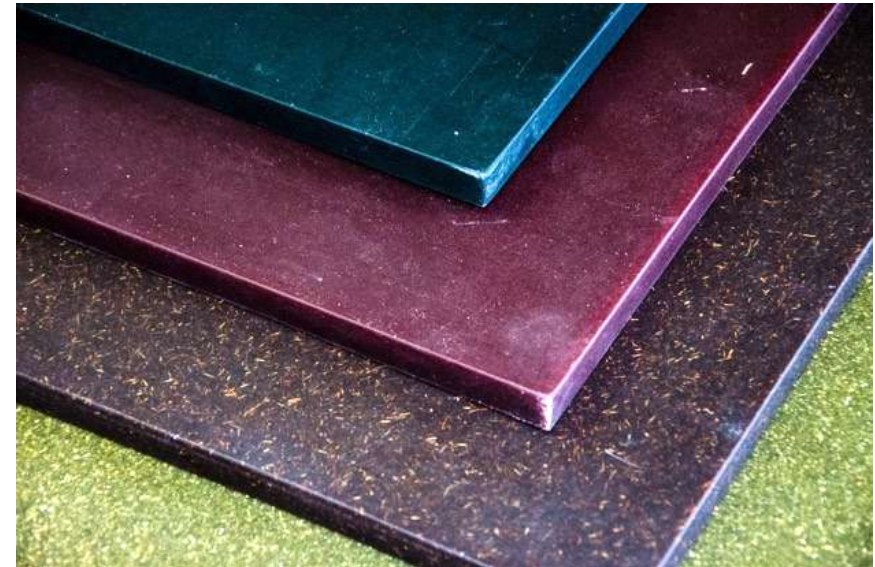
Industrial Projects:



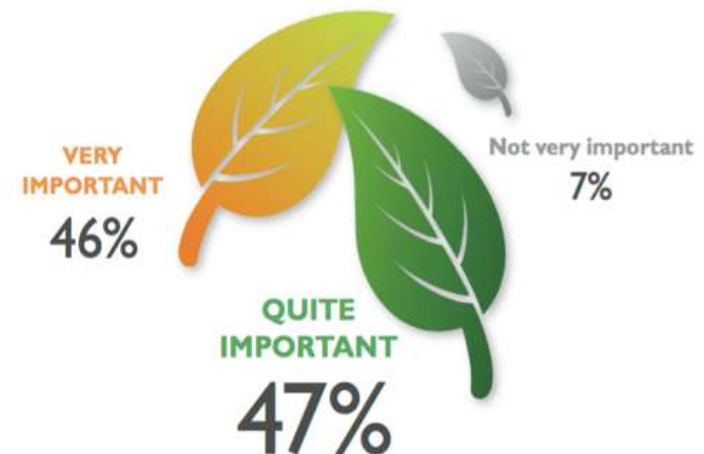
## Solution for the Interior Design: Mogu Floor

**MOGUFloor** is the disruptive solution for commercial and residential resilient flooring, combining design, performance and sustainability.

- **Healthy:** no harmful VOCs
- **Sustainable:** 'green grown' flooring!
- **Beautiful:** Natural look and great 'foot feel'
- **Easy:** Easier/faster to install & easy to repair
- **Affordable:** cheaper than luxury vinyl



5. WHEN DEVELOPING OR INVESTING IN NEW BUILDINGS HOW IMPORTANT IS GREEN CERTIFICATION?



Industrial Projects:



## Solution for the Interior Design: Mogu Wave

Thanks to the mycelium characteristics, light materials offer opportunities for **acoustic applications**.

Combining great **design** with **technical performance** is the key.





R&D Projects:

# Exploring new opportunities



Composite materials  
(bio-composites)

Rigid Packaging  
(secondary)



Horticulture  
Forestry



Pure materials  
(biopolymers)

Leather  
Textile



EC Horizon 2020 programs

Company development:

# Building the Demo Scale



Phase I  
**Pilot scale - 40 ton/y**

**24 month**  
(2015-2017)



Phase II  
**Demo scale - 500 ton/y**  
in partnership with a player of mushroom industry

**36 month**  
(2018-2020)



Phase III  
**Commercial scale - 5,000 ton/y**  
(licensing)

**by 2021**



Company Milestones:

## Growing materials, business and the team!



Target achieved

- ✓ Implementation of own Pilot plant in Varese
- ✓ Exclusive scientific collaboration agreements (UniPv, UniUtrecht)
- ✓ Company Incubation Program Alimenta2Talent
- ✓ Company Acceleration Program Unicredit Startlab
- ✓ Participations to BBI projects (Agrimax & Grace)
- ✓ Partnership with Moffu Labs
- ✓ SME Instrument Phase 2 project approval (starting on October 2018)



Our Team:

## Great expertise for a success story



Mogu Team operating in Inarzo (VA) is composed by mycologists, bio-technologists, engineers and designers.



## Building new green value chains in Europe

Stefano Babbini | [sb@mogu.bio](mailto:sb@mogu.bio)  
Mogu CEO | [www.mogu.bio](http://www.mogu.bio)

..those talking about us:

The logo for RETeconomy, with "RE" in grey and "teconomy" in orange.

The logo for ANSA, consisting of the word "ANSA" in white on a green rectangular background.

The logo for MATERIA RINNOVABILE, featuring the text "MATERIA RINNOVABILE" above a stylized "MR|RM" symbol and the text "Free Magazine Internazionale su bioeconomia e economia circolare" below.

The logo for CORRIERE DELLA SERA, with "CORRIERE" in a smaller font above "DELLA SERA" in a larger, bold font.

The logo for Le Scienze, with "Le Scienze" in red and "EDIZIONE ITALIANA DI SCIENTIFICA AMERICANA" in smaller text below.

The logo for FOOD24, with "THE 24 HOURS" in small text above "FOOD24" in a large, bold font.

The logo for progettista, with "progettista" in white on an orange background and "FOOD24" in smaller text below.

The logo for RADIO 24, with "RADIO" in black and "24" in white on a green background.

The logo for LINK IESTA, with "LINK" in blue and "IESTA" in black.

The logo for TV2000, with "TV2000" in blue and a globe icon to the right.

The logo for QN IL GIORNO, with "QN" in black and "IL GIORNO" in blue.

The logo for the number 5, with a small orange gear icon above the number.