



LAB
CEMENT**LAB**

Ingénierie bas carbone

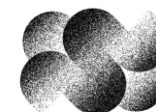
Workshop 23 septembre 2021

<https://cementlab.infociments.fr/>

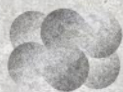
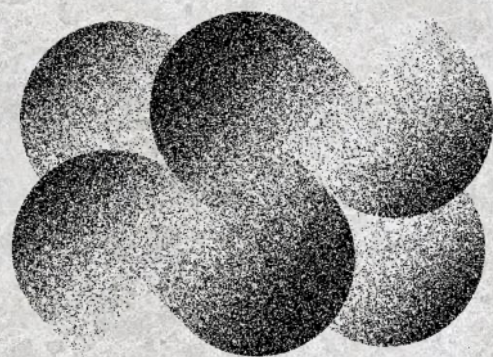
Erik DE LAURENS

Co-fondateur - CEO

La startup a inventé la SCALITE®, un nouveau matériau fabriqué exclusivement à partir d'écailles de poisson qui se présente sous forme de plaques de couleurs aux motifs légèrement marbrés, avec une texture semblable à celle de la pierre.



SCALE



SCALE

SEA FURTHER

AN UNCOMPROMISING AMBITION

INVENT A NEW GENERATION OF **OCEAN FRIENDLY MATERIALS**
MADE FROM **RENEWABLE MARINE BY-PRODUCTS**.
MATERIALS WHICH ARE **BIOBASED**, **BIODEGRADABLE**,
AND **100% RECYCLABLE**.



OUR
GOAL



NON-TOXIC

SCALE
S

**AN ABUNDANT, RENEWABLE AND LITTLE VALUED RESOURCE
AVAILABLE WORLDWIDE**



SCALES

TOTAL ESTIMATED IN EUROPE:

SALMON : 20 Kt / year

SARDINE : 25 KT / year

TOTAL ESTIMATED IN THE WORLD :

ALL SPECIES : > 1 MT / year



SCALITE E®

SCALITE, OUR FIRST MATERIAL, IS ENTIRELY AND EXCLUSIVELY MADE FROM **FISH SCALES**, A BYPRODUCT OF THE FISHING INDUSTRY.

SCALITE IS **BIODEGRADABLE** AND **RECYCLABLE**,
IT TACKLES 4 OF THE SUSTAINABLE GOALS OF THE PARIS AGREEMENT.



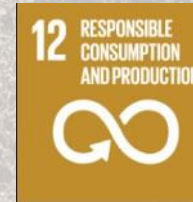
OUR
SOLUTION



SCALE strives to establish a **new paradigm** in materials production.



SCALE core business is to **produce better materials** for construction.



SCALE uses waste to produce materials, thus promoting **circular economy**.



SCALE produces **ocean friendly** materials which degrade rapidly.



OUR SOLUTION

A **PATENTED** PROCESS

1. **DRYING**



2. **GRANULATION**



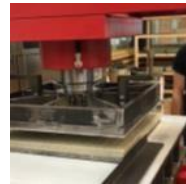
3. **GRINDING**



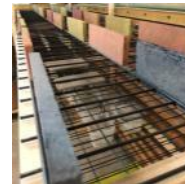
4. **MIXING**



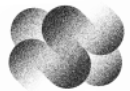
5. **COMPRESSION**



6. **DRYING**



7. **FINISHING**



PROCESS

Steps 1 to 3 : sub-contracted

Steps 4 to 8 : done in-house

SCALE TO SCALITE RATIO

1 TON OF FISH SCALES PRODUCES
15 SQM OF SCALITE

CURRENT PRODUCTION CAPACITY

20 SQM/MONTH

ENERGY

1 TON OF SCALITE PRODUCES ALREADY
5 TIMES LESS CO2 THAN 1 TON OF CEMENT

INTELLECTUAL PROPERTY

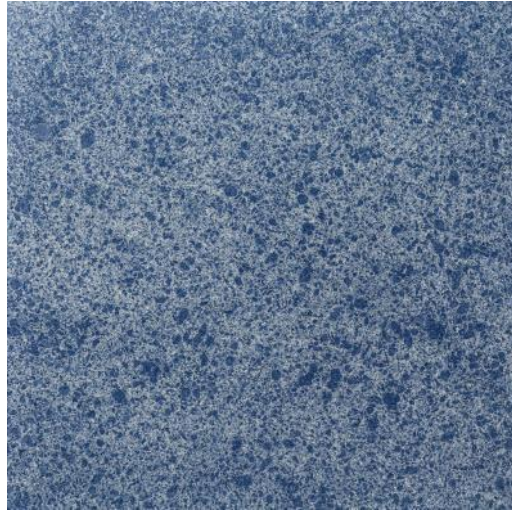
A PATENT WAS FILED TO PROTECT THE
PROCESS AND FORMULATION

SCALITE®

1st bio-material 100% made from a renewable source



OUR
PRODUCT



This marble-like material is available in sheets of **300*300*10 mm**.

SCALITE INCORPORATES CONSIDERABLE BENEFITS.

- OCEAN-FRIENDLY
- BIODEGRADABLE
- FULLY RECYCLABLE
- CRADLE TO CRADLE
- NON-FLAMMABLE (M1- B, S2, D0)
- LOW ENERGY – LOW CARBON
- SCRATCH RESISTANT
- COV & FORMALDEHYDE FREE
- PATENTED TECHNOLOGY
- WIDE RANGE OF COLORS
- SEAMLESS JOINT
- MADE IN FRANCE
- CAN BE PROCESSED WITH CONVENTIONAL TIMBER TOOLS
- SCALE-BASE-ADHESIVE ASSEMBLY
- CIRCULAR ECONOMY



retail.



Offices.



Offices.



retail.



Hospitality.



Hospitality.



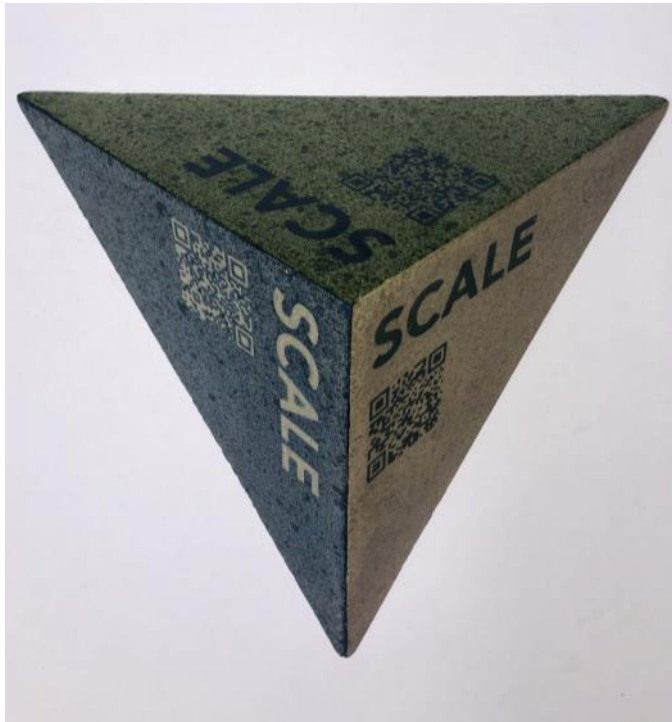
Logo designed
100% in SCALITE



Fruit basket prototype in SCALITE



Prototypes of boxes in SCALITE



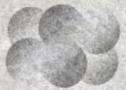
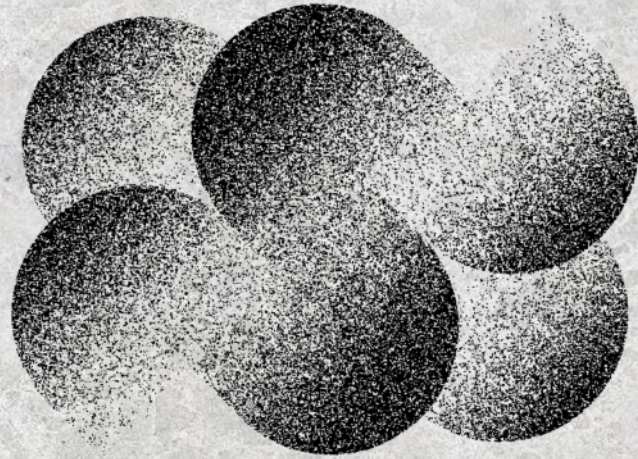
Research SCALITE inlays



Research patterns & designs



Research into 3D printing



M E R C I

WWW.SCALE.VISION

MADE IN FRANCE