



Advanced Materials using  
Biogenic Calcium Carbonate  
from Seashell Wastes

<https://site.unibo.it/casewa/en>

# Portfolio of Outputs and Commercialisation Needs



Project consortium  
includes 1 company:



## Outputs

Biogenic CaCO<sub>3</sub> micro-  
& nano-particles



TRL 4/5

The grounded particles still  
preserve the compositional and  
texture features of the pristine  
seashells



Calcium phosphate  
biomaterials



TRL 3

Apatite micro-nano particles with  
osteogenic and luminescent properties  
obtained by innovative one-pot low  
temperature hydrothermal method.



Strengthened & conductive  
Levirex® compounds



TRL 4/5

Antistatic Levirex® sole shoes  
developed using conductive  
biogenic CaCO<sub>3</sub> particles.

Universität  
Konstanz



finproject

## Commercialisation Needs

Upscaling

Regulatory  
aspects for  
food by-  
products

Collection and  
storage chain  
of waste  
seashells

Industry  
Network  
(companies &  
services)