

NATIONAL UNIVERSITY OF ARCHITECTURE AND CONSTRUCTION OF ARMENIA



UNIVERSITAT  
POLITÈCNICA  
DE VALÈNCIA

**EcoTuff**



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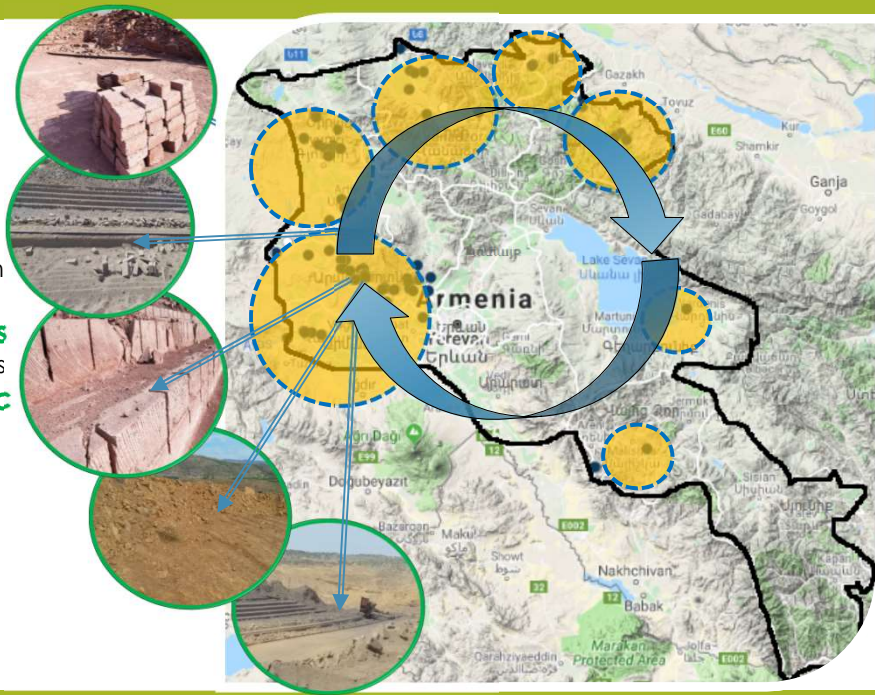


**Mining in the territory of Armenia affects Heavily on  
Human Health and Environment...**



Maps of mines of tuff stone in Armenia.

There are about **130 mines** of tuff stone. And the waste is about **290,000,000 cubic meters**. Which occupy large areas.



## Reusing of stone waste...

The continued depletion of natural resources in construction industry throws new light on the potential use of some industrial wastes like stone waste in its different materials.

Low-energy technology for production of artificial cement-free stone products, which are comparable by their decorative, physical and mechanical properties to extraction wastes of natural volcanic rocks in Armenia.





We offer cement less stone  
for a **lower price** than  
natural stone

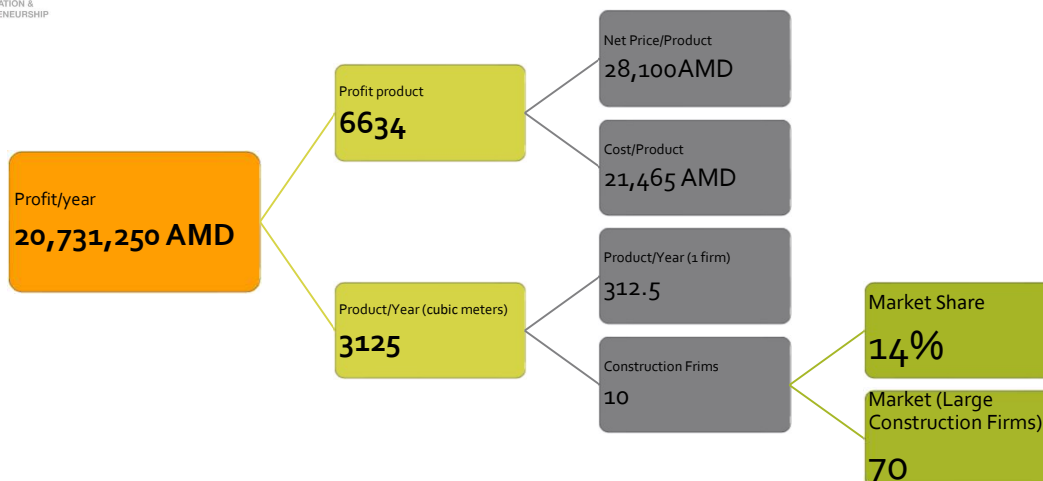


### Value Proposition

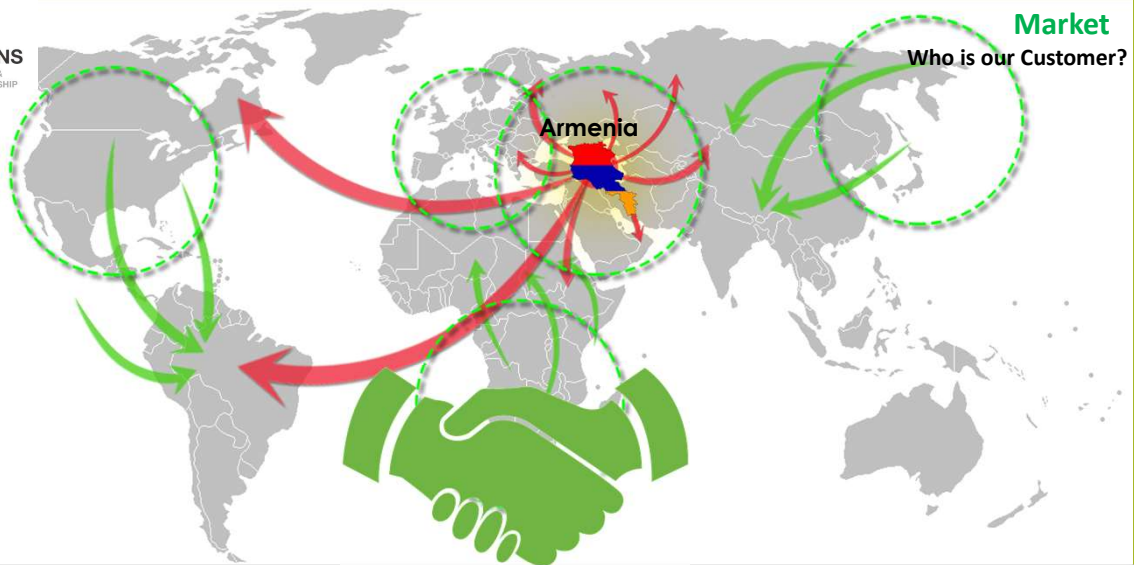


Production of artificial cement-free stone products according to the developed technology will allow the construction sector of the republic to be affordable, both in technical and decorative characteristics, exceptionally environmentally friendly high quality stone building materials.

### FINANCIALS





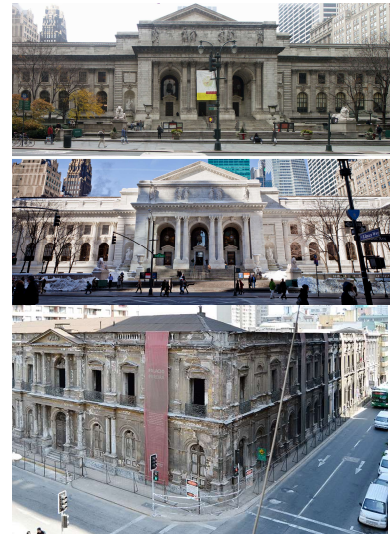
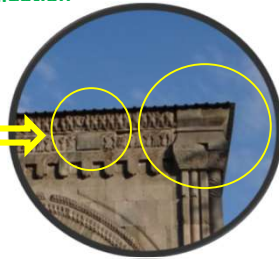
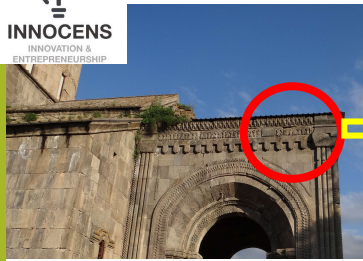


First of all, the construction sector of the republic will become the consumer of the product. And in case of proper organization of production, the products can be found in the external market with high economic benefits.

#### Competitive Advantage & Validation



With the proposed technology it would be possible to directly produce architectural shaped wall elements, facing tiles, wall blocks and other required architectural elements by using appropriate molds.



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## Why the use of these techniques promotes the sustainability of the stone industry?

- Utilization of waste stone
- Reduction of extraction of natural resource
- Low energy technology
- High physic-mechanical properties
- Possibility to make architectural details of any shape and size
- Color diversity
- Lack of expensive hand-work
- New workplaces
- Low cost
- Ecologically clean



## Climate Impact



**90% less waste stone**



**50% less mines used**



**Clear environment**

## EcoTuff

**Group members**

**Team**



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## EcoTuff

Thank you for your attention!

