

Impact.

Industrial

IRMA fire resistant material will be developed and produced totally in Cyprus, by Cypriot enterprise and personnel, with a view to be primarily used as core material in fire resistant doors.

Competitiveness and viability of IRMA material is expected to extend its applications in other sectors (marine, petrochemical).

Social

IRMA fire resistant material can offer effective protection of buildings for the whole duration of a fire event, thus enhancing the safety of people and the overall sense of social security.

Economic & Environmental Impact

The final price of IRMA material is estimated to be at least 50% lower than of the existing commercial materials.



Production is based on low cost raw materials (waste glass and natural clays) and the opened-sourced geopolymerization technology, which has limited requirements for equipment, with low energy consumption and insignificant environmental footprint.

The IRMA Project.



Innovative Fire - Resistant Material for the Construction Sector.

The IRMA project is funded under the Research and Innovation Foundation Programmes for Research, Technological Development and Innovation "RESTART 2016 - 2020" (SEED/0719/170).

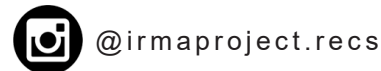
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The Objectives.

- To produce a prototype of an innovative fire resistant material in pilot scale and demonstrate it in real case application of fire resistant doors.
- To promote and boost awareness of stakeholders for the new fire resistant material, its improved performance and its applications.
- To assess the impact related to its economic viability and identifying the appropriate strategy and business models for market penetration.
- To obtain and defend the concerned patents and intellectual property rights, making it attractive to enter the local and the international market.
- To create the right environment to establish potential commercial cooperation and open up potential export markets.



Challenges and Needs.

Fire safety is one of the most important issues that buildings' engineering faces. As fires can lead to the loss of human lives and to construction damages that require significant repairing costs. These threats are mitigated by a series of actions, with passive fire protection being the main one. Although there are some commercial products currently available for the passive fire protection of buildings, most of them have significant drawbacks, mainly financial and qualitative. Therefore, there is an urgent need to introduce into the market new fire resistant products, that will address the selling price concerns and meet, or even exceed, the performance requirements, arising thus, new business opportunities in such a fast-growing business sector, as the construction industry.



Mission.

The mission of IRMA project is the market introduction of an innovative, competitive and sustainable fire resistant material that is aimed at

being primarily applied as core material in fire resistant doors, but also as fire resistant material for building parts that require fire protection.

