

Blast and Fire Resistant Material

B A M

EXCELLENCE/0421/0137

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BAM SOCIAL MEDIA ACCOUNTS

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Table of Contents

Project Summary.....	6
Description of Work	7
Purpose of the Social Media	7
Target Audience.....	7
Social Media Pages.....	Error! Bookmark not defined.
LinkedIn.....	8
Facebook.....	8
Instagram	9
Conclusions.....	9

List of Figures

Figure 1. LinkedIn Account First Page.....	8
Figure 2. Facebook Account First Page.....	8
Figure 3. Instagram Account First Page.....	9

Project Summary

Over the last decade, the construction works are ongoing, however only in the recent years the safety of such infrastructures has gained increasing attention, particularly the issues of fire, blast, and impact. This transformation in the mentality is attributed to a series of large fires and blast incidents (e.g., terrorism attacks) that have taken place in the last years, which have been responsible for dramatic incidents, which led to human casualties, major structural damages, and serious consequences for the regional economies. The existing materials either cannot offer protection against both circumstances or their cost is unaffordable.

The BAM project addresses these challenges, targeting to the design, development, and validation of two new building materials, which will offer the appropriate resistance against blast, impact, and fire, according to the relevant standards, considering that currently there is no such material that can offer both services.

The BAM project work plan consists of five (5) distinct Work Packages, implementing activities like material design and development, production, and validation in laboratory environment and through an analytical method, management, exploitation and dissemination, and techno-economic analysis.

WP1 will deal with all the actions related to the coordination and management of the project activities, addressing all administrative issues among the Consortium and the Steering Committee of the project. WP2 will include all the activities related to the dissemination, exploitation, and communication of the results. WP3 will deal with the design of the 2 new materials, i.e.: i) the HLM and ii) the SCGC and in WP4, the lab production of the 2 new materials, with 2 different methods will take place, i.e.: i) the conventional method of casting and ii) by 3D printing, including all the appropriate modifications of syntheses, to achieve the best possible production results. Additionally, in WP4 the validation of the new materials' properties in the laboratory environment and with an analytical method will take place. Finally, WP5 will include the techno-economic and cost-benefit analyses, aiming to evaluate the developed materials with both production methods, in terms of cost, efficiency and environmental impact.

The successful implementation of BAM project is expected to shift the design and development of these materials towards more innovative and knowledge-based products, allowing the local and European research community to regain a competitive advantage. The scientific field demands increasingly competitive materials that will unlock the scientific and technological skills and capacities in EU and worldwide for more efficient products, thus enforcing the progress in the building materials scientific field. Also, the development of materials with dual behaviour, with simultaneous reduction of the relevant environmental impacts is related with the environmental and societal progress in Europe. Furthermore, the involvement of 3D printing in such materials' development (further to plastics and electronics) will enhance the scientific and technological interest and efforts, especially in Cyprus, to conduct further research in the field. Last, but not least, the application of geopolymerization technology will have a substantial environmental, economic, and social benefit, as it is a low-cost innovative technology compared especially to the recovering activities (50%), with a lower environmental footprint (at least 40%) than the cement industry.

Description of Work

Purpose of the Social Media

This document aims to introduce the BAM social media pages and facilitate their accessibility. The BAM social media pages are designed to enhance the visibility of the project, mainly to various stakeholders and the general public, and serve as a central hub for receiving updates throughout and after the project's duration.

Additionally, the social media pages were developed to reduce the use of paper during the dissemination process, providing information about the research progress, major discoveries, and dissemination efforts.

These pages will be regularly updated during and after the project's duration, promoted, and are anticipated to attract researchers, stakeholders, and prospective end-users.

Target Audience

The BAM social media pages are intended to facilitate communication with a broad spectrum of researchers, stakeholders, industries, and the general public. This will aid in engaging them early in the project and ensuring close collaboration for technical development and future exploitation. The most relevant communities have already been identified, and the dissemination strategy will evolve during the project's duration to reach:

- Policy makers, industries, and small-to-medium enterprises (SMEs)
- Potential end-users, inventors, and consultation groups
- Sectoral working groups and associations
- Academics
- The wider public
- The Cyprus Research and Innovation Foundation

The BAM project seeks to engage these groups through its social media pages, which will serve as a central platform for updates and information sharing. The dissemination strategy is designed to be flexible and adaptable, ensuring that the project's goals are met efficiently and effectively.

Social Media Pages

To increase the project's visibility and accessibility to a broader audience, relevant pages have been created on the three most popular social media platforms: LinkedIn, Facebook, and Instagram. These social media accounts are linked to the project's website and can be accessed through the following links.

LinkedIn <https://www.linkedin.com/showcase/bam-project/>

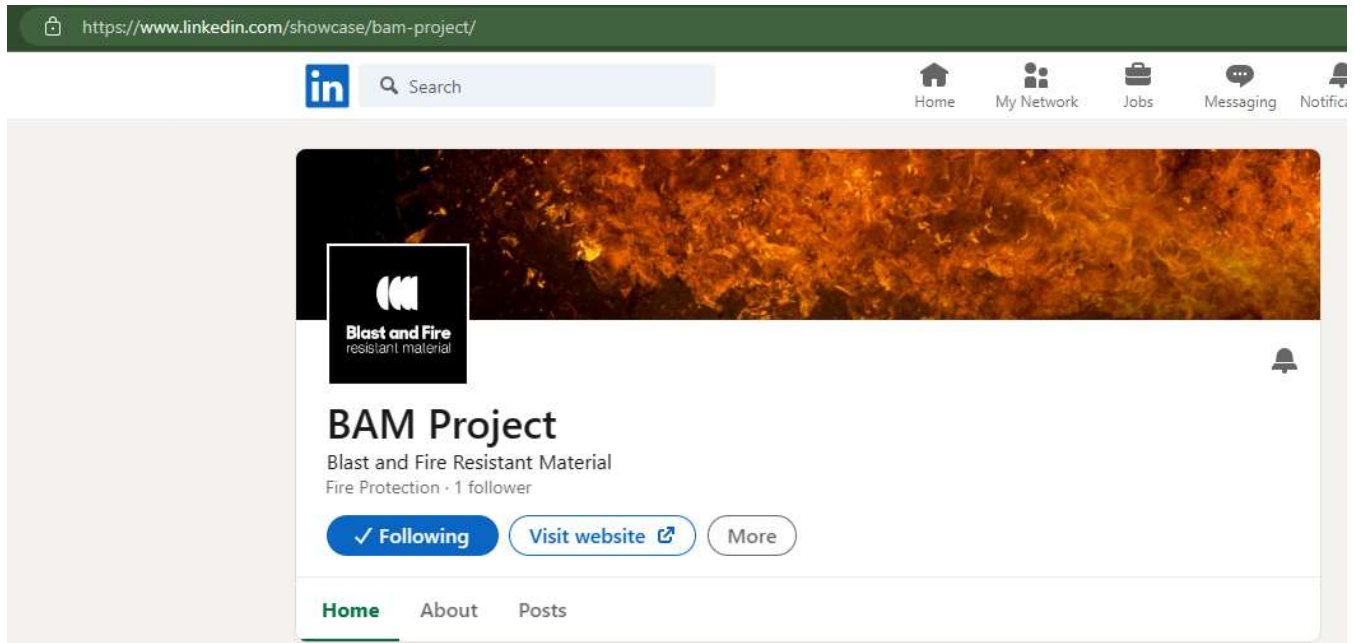


Figure 1. LinkedIn Account First Page

Facebook <https://www.facebook.com/people/BAM-Project/100087962876086/>

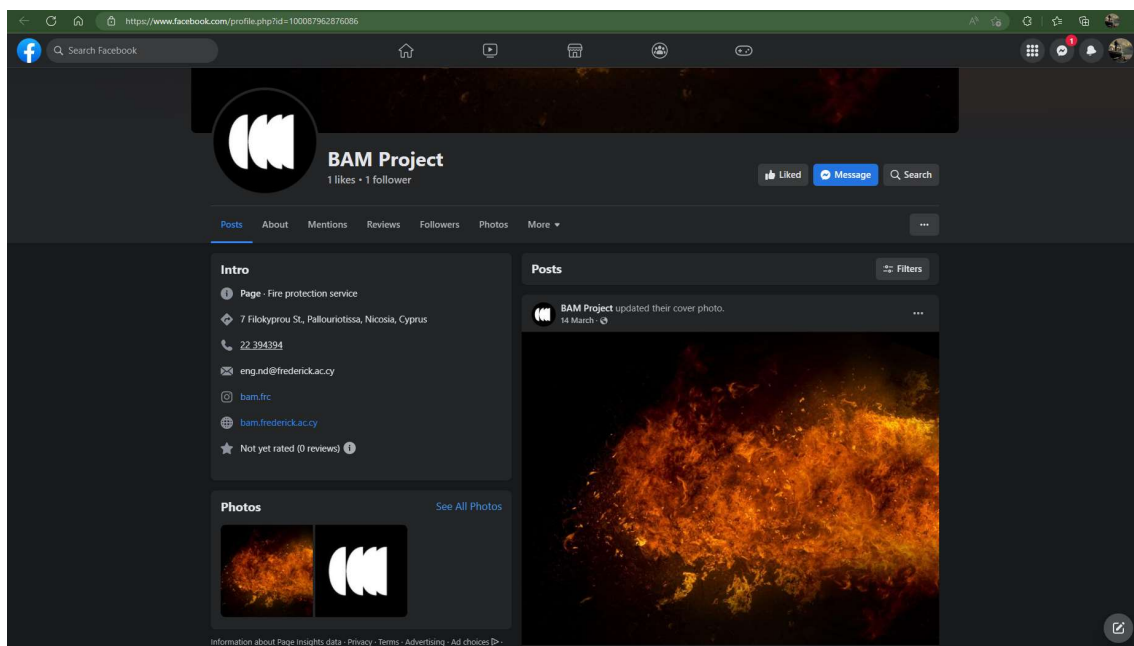


Figure 2. Facebook Account First Page

Instagram <https://www.instagram.com/bam.frc/>

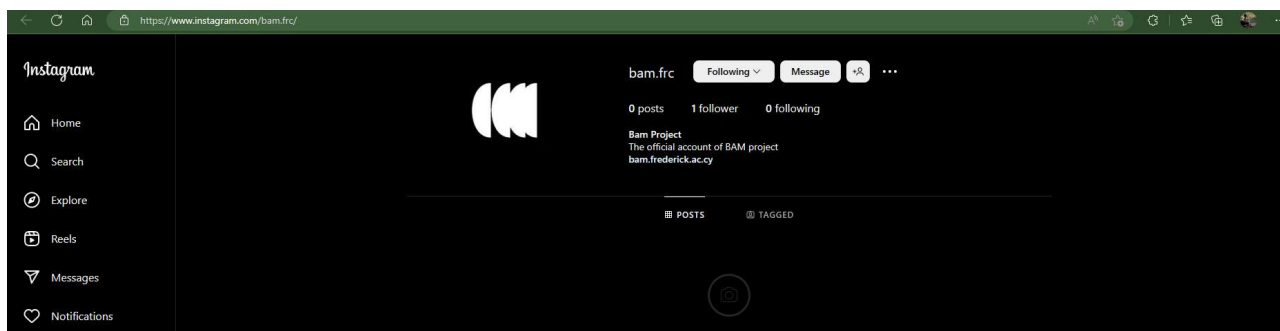


Figure 3. Instagram Account First Page

Conclusions

The document presented the social media pages for the BAM project. The social media will be updated constantly with news and documents, adding to the dissemination of the BAM project and the better exploitation of its outcomes.

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