



AWeSOMe

Agricultural Waste as Sustainable 0 km building Material



Thematic Workshop
“Agricultural waste: from waste
to a resource for the building sector”
Friday 22 April 2022, 15.00 p.m.

**Conference Room “GAL Molise Verso il 2000”
Viale Monsignor Secondo Bologna, 15, Campobasso (Italy)
and ONLINE**

The AWeSOMe project, in collaboration with GAL Molise Verso il 2000 and Bari Polytechnic, aims to disseminate best practices on the use of agricultural waste for the production of bio-based building components with high hygrothermal performance, raising awareness in society of the importance of what is known as "neo-building", which must aim to drastically reduce the energy requirements of buildings, but using materials with a low environmental impact, of natural origin, which continue to reduce the building's consumption, make the living environment healthier and come from the rediscovery of the most ancient techniques and traditions. All this to the detriment of synthetic materials, which although high in energy performance, create large quantities of CO2 emissions into the air for their production and disposal, with extremely negative consequences for the environment.

The workshop, open to professionals from the building sector, construction companies as well as agricultural operators, will promote the ease of processing materials from agricultural waste through specific tests of mechanical strength and thermal capacity as well as fire resistance. The first phase will be informative, providing data and information on the current possibilities offered by materials from agricultural waste, with the help of technical data and laboratory test results. The current regulatory references and protocols for energy saving imposed by the competent bodies will be explained, with the common objective of the drastic and urgent need to reduce CO2 emissions into the air.



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- **Regulatory analysis;**
- **Focus on real estate;**
- **Analysis of existing materials on the market;**
- **Fact sheet on farming that provide useful waste for the production of insulation materials;**

An in-depth analysis of the current legislation will be provided, allowing the focus to be on the limits and criticalities currently present, analysing the points of view of the various operators in the sector through to the end user. The current opportunities in Italy and in the European Union countries, incentives and financing with a view to reducing CO2 emissions and climate change will be presented.

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Through a journey among professional experience and the results of material experiments, ideas will be provided for the promotion of further regulatory adjustments in order to optimise the ecological transition process of buildings. The challenge is to find complementary materials for the production of blocks and panels by means of organic mixtures, evaluating processing times, drying and possible subsequent mass production with moulds. The production of insulation materials with "dry" systems, derived exclusively from the mechanical processing of agricultural waste without any possible synthetic material, will also be tested.

The aim is to disseminate, through the presentation of concrete examples already realised, the use of ecological materials that in recent years have become more and more popular on the national and global market in recent years, with the aim of creating 100% sustainable and natural homes.

The aim is to develop curiosity and interest in professionals, construction companies and consumers that will be increasingly encouraged to design and build "natural" architecture, raising awareness so that everyone can appreciate the real advantages of working with these materials.

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