

## **Local traditional bio based materials as a model for the future**

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The materials nowadays have important role in all sectors of human activities. Construction sector, is one of most polluted ones, which is facing several challenges that could be partially resolved by use of local, traditional, bio based construction materials. Good traditional, practical examples still exist in our close surrounding. Those examples very often present sustainable way of living with excellent correlation with nature and location, very good knowledge about local natural materials, renewable energy use as well as sustainable use of all resources on the location. Those traditional houses present affordable, optimal, healthy way of living which we strive for.

Unfortunately, most of that local bio based materials today present the waste or their exploration is unsustainable. This paper will present some of the researches about traditional local natural bio based materials (wood, sheep wool, straw, clay, lime) and their properties in comparison with most used ones today in construction sector in Bosnia and Herzegovina (BiH) region. Focus of this research will be on green properties such as CO<sub>2</sub> emission and PGW. Additional to that, paper will present experiences through building of an example and will discuss future needs for sustainable development of construction bio based industry as well as other innovative technology needed to support comprehensive development of bio based construction sector. Discussion will show a lot of potential as well as obstacles and huge needs of strategic approach to this issue in BiH region.

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