

jOiNEd For sUsTainability - bUilding climate REsilient communities in WB and EU

WP2: Task 2.3 C onduct surveys and interviews with public and private institutions, business communities and other stakeholders

NGO “Građevinarstvo - nauka i praksa - GNP”

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Place: Lund University



Association Activities



- The aims of the Association are development and encouragement of scientific research, professional and educational work, as well as promotion and presentation of modern scientific and professional achievements in the field of civil engineering and related fields.
- The Association in cooperation with the Faculty of Civil Engineering in Podgorica and Engineering Chamber of Montenegro successfully organizes International scientific and professional conferences "Civil Engineering - Science and Practice" for eight times now, with more than 400 participants from more than 20 countries in previous times.
- The Association has successful cooperation with the business sector through the presentation of an average of 25 to 30 companies at each conference.



List of Projects in Sustainability field



- “Quantifying the Value of Structural Health Monitoring (SHM)” - TU1402, COST, 2014-2019 (<https://www.cost-tu1402.eu/action/>)
- "Basis of structural timber design - from research to standards" - FP1402, COST, 2014-2018 (<https://www.cost.eu/actions/FP1402/>, <https://www.costfp1402.tum.de/>)
- "Fire safe use of bio-based building products" - FP1404, COST, 2014-2018 (<https://www.cost.eu/actions/FP1404/>, <https://costfp1404.ethz.ch>)
- "Developing PREFABricated, near zero energy building concept in Montenegro through active knowledge exchange between academic institution, SMEs and NGOs" - PREFAB Ø ENERGY, IPA, 2016-2017



List of Projects in Sustainability field



- "Advancing effective institutional models towards cohesive teaching, learning, research and writing development" - CA15221, COST, 2016-2020 (2021)
(<https://www.cost.eu/actions/CA15221/>, <http://www.werelate.eu/>)
- "Modular energy islands for sustainability end resilience " - CA20109, COST, 2021-2025
(<https://www.cost.eu/actions/CA20109/>)
- "Holistic design of taller timber buildings" - CA20139, COST, 2021-2025
(<https://www.cost.eu/actions/CA20139/>)
- “Curricula innovation in climate-smart urban development based on green and energy efficiency with the non-academic sector (SmartWB)” - ERASMUS-EDU-2022-CBHE, Erasmus+ Capacity Building in Higher Education project, 2023-2025
(<https://www.smartwb.ucg.ac.me/>)



Projects Results



- **“Quantifying the Value of Structural Health Monitoring (SHM)” - TU1402, COST, 2014-2019**
(<https://www.cost-tu1402.eu/action/>)

The main objective of the Action has been to facilitate sustainable societal developments through improvements of resource efficiency, productivity, robustness, reliability and safety in the design and assets management for structures and infrastructure systems by optimised Structural Health Monitoring (SHM) systems. The Action TU1402 has been active from 2014 to 2019 and a joint effort of 29 European Countries, China, USA and Australia with participants from academia, industry and infrastructure owners, operator and authorities.

The COST Action TU1402 on Quantifying the Value of Structural Health Monitoring (SHM) has – in the perspective of sustainable societal developments - provided:

- ✓ The scientific evidence of a high value of SHM and its boundary conditions,
- ✓ An industrial and societal impact for the infrastructure design and management,
- ✓ Accessibility to the scientific field for quantifying the value of SHM.



Projects Results



- **"Developing PREFABricatced, near zero energy building concept in Montenegro through active knowledge exchange between academic institution, SMEs and NGOs" - PREFAB Ø ENERGY, IPA, 2016-2017 (<https://www.cost-tu1402.eu/action/>)**

Buildings in Montenegro consume 6 times more energy than similar buildings in the EU, which clearly indicates that things have to be improved in this field. Project partners find it necessary and advisable to develop a concept of prefabricated, ecological, energy efficient, flexible, affordable and contemporary building, adjusted to modern needs of an information and mobile society, so that Montenegro can join modern trends in construction.

Objectives:

The idea of this project is to increase the competitiveness of Montenegrin economy by facilitating access to research and innovation outcomes and to enhance links between science, education and economy in construction sector, through cooperation and a joint work on a concrete project – developing a PREFABRICATED, ZERO ENERGY building.



Projects Results



- "Developing PREFABricatced, near zero energy building concept in Montenegro through active knowledge exchange between academic institution, SMEs and NGOs" - PREFAB Ø ENERGY, IPA, 2016-2017 (<https://www.cost-tu1402.eu/action/>)

Results:

- ✓ Increased partners' knowledge of global trends in the field of Ø energy prefab construction, and explored possibilities to apply that concept in Montenegro.
- ✓ Developed Ø energy prefab architectural designs for three climatic zones in Montenegro – coastal, central and northern.
- ✓ Improved understanding of the economic and market environment determining opportunities to develop prefabs in Montenegro.
- ✓ Increased partners' knowledge of Slovenian best practices in Ø energy prefab production and strengthened regional networking with SMEs dealing with prefabricated construction in Slovenia.
- ✓ Improved framework for the project's sustainability through developing strategic documents that define a set of future services/products of SME partners in the field of Ø energy prefab production.





Thank you for your attention

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