Welcome to the second VIRTU/e newsletter, this will be a rather short update of our progress on the current EU6 competition and the previous SCM action.

The design team has shifted its focus from the site design to the design of the site environment. This will be accompanied by the project's management. It will then be sent out in the TUE. The purpose of this building is to improve the ground planning principles for the whole building design concept.

Summary of paper:
This research is focused on the design, construction, and thermal performance evaluation of a sustainable building. One of the features is that the building should be green, decentralized, clean, and form a seamless environment. The aims of the research is to develop sustainable, green, energy-efficient, and comfortable buildings in the future. The building is designed to be highly energy-efficient, with the emphasis on passive energy consumption and the environmental impact of building materials.

The full paper can be found here:

Summary of article:
The article explores the design, construction, and energy strategies of an ADG, a hybrid energy building with successfully connected to the local district heating district heat 2018 in Eindhoven. Students of engineering, building engineers, architects, and civil planning designed, built, and evaluated LAD, a novel building by solar energy and made of bio-materials. Some of LAD's innovative features are the ventilated façade with permeable bio-based tiles, the integrated evaporative water cooling system, and the light-bulb integrated photovoltaic thermal system. LAD's energy potential is the process driven throughout the competition. However, energy production must be improved according to simulations and technical specifications. LAD is a great example of current and future buildings in the field of sustainable development, and its outcome contribute to environmental, social, and economic sustainability.

The full article can be found here:
http://www.biond.nu/typo3conf/tub/DeRegeling/110518/130051/Paper_Renatification_DELONGHINI.pdf

Thank you for reading and stay tuned for our next newsletter!

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