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BOOK OF ABSTRACTS



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S1.C1. GREEN CITY. The application of an Environmental index for the improvement of urban well-being in an industrial area of Modena.

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Elements that can play a fundamental role in the requalification and regeneration of our cities regard both the adoption of innovative urban and environmental policies and the application of technologies and design solutions that increase the sustainability and environmental well-being. To this end, an environmental index was identified that is able to reduce the construction impact and at the same time promote green in urban areas. This index was applied to one of the most densely built areas in Modena: the industrial area Villaggio Artigiano constructed in the 50s, a place that represented for the city the powerhouse of wealth and well-being and today is a place which has a strong identity and social value. The Index is based upon the *B.A.F.* ("*biotope area factor*") used in several european cities, amended and adapted to the requirements and characteristics of the specific location ("*B.A.F.MO*"). The motives that led to the determination of this urban index are mainly the following: the possibility of having available an efficacious tool for environmental mitigation and balance, the improvement in living spaces and economic benefit from energy savings. Useful environmental mitigation and balance tools are the integrated application of technologies for the management and recovery of rainwater with the realisation of green surfaces (roof gardens, green-walls and traditional green), as well as interventions in low CO₂ emissions and resilient to climate change. Thus a specific abacus was worked up by which the various types of surfaces are related to specific values and the index was applied to all the lots within the Villaggio Artigiano. Results of simulations and trials have been very interesting. Regenerate signifies not only giving perceptive, residential and industrial dimensions that allow a higher quality of life on improvement in the environment.