



**GREEN  
INFRASTRUCTURE:  
NATURE BASED SOLUTIONS  
FOR SUSTAINABLE  
AND RESILIENT CITIES**

**4-7 APRIL 2017**  
**ORVIETO, ITALY**

PALAZZO DEI CONGRESSI (PIAZZA DEL POPOLO)  
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## **GREEN URBAN REGENERATION. The application of the “B.A.F.MO” index for the improvement of environmental and ecological quality in an industrial area of Modena**

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Urban regeneration is an operation of sustainability that must start from the identity of the place. Tools 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, a place that represented for the city the powerhouse of wealth and well-being and today is a place of strong identity 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 the advancement of interventions for low CO<sub>2</sub> emissions and the resilience to climate change.

Regenerate signifies not only giving perceptible, residential and industrial dimensions that permits a greater well-being formed upon society's desires but also adopt procedures and solutions for a real improvement in the environment.

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