

3D PRINTING CONFERENCE INNOVATION, MODELLING, APPLICATION & IMPLEMENTATION

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3D printing contribution for sustainable development

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The world urban population will grow around 63% between 2014 and 2050. Megacities, that is, cities with over 20 million inhabitants, will increase from the actual 28 to 41 by 2030. Today, cities are already facing severe challenges in order to become sustainable in the long run, but in the future, with the foreseen urbanization rate, the sustainability challenges will be even greater. For becoming sustainable cities, technology-enabled solutions can be used for improving cities mobility, energy consumption, environment, economy, quality of life, education, public services, governance, and decision-making processes. 3D printing, as an emerging and disruptive technology, can

significantly contribute to achieve the sustainability and environmental goals of the United Nations Agenda 2030. This presentation helps to get a clearer understanding of how 3D printing can help deliver better public services, interact with citizens, reduce costs, waste and environmental impact, improve efficiency, and help humanity by producing human organs, food and fashion products. In this talk, several case studies on 3D printing initiatives will be presented, which are being implemented around the world in order to achieve sustainable cities and communities.