



INTERNATIONAL  
CALENDAR

## Geospatial Visualization for Urban Revitalization

11 Feb. 2021

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Documents:

According to the Urban sustainability exchange (USE), “urban renewal, redevelopment, and revitalisation projects are crucial to the success of the modern city”. Such projects have the potential to rehabilitate and better utilise land and space to create employment opportunities, create diverse housing options, stimulate the local economy and attract investments. Sense of desirability, reduction of crime rate, increase in property values, foster social inclusion and citizen engagement are among many benefits of urban redevelopment projects. Urban revitalisation initiatives can, however, be large projects, complex in terms of implementation and operation, and require significant investments.

Computer Aided Design (CAD) systems have been extensively utilised to assist architects and urban planners, decision makers and even the general public to have a better understanding of the proposed urban redevelopment projects. Over the last 30 years, with the advances of geospatial simulation and

visualisation techniques, such technologies have been an inseparable part of any large-scale redevelopments. In recent years, Digital Twins has also been part of this visualisation journey; and much more than that.

Digital twin technology is being used around the world to address the complex challenges of urban renewal, sustainable living and revitalisation. A successful digital twin relies on collaboration across governments, industry, the research sector and general public to reach the best possible outcomes. Digital Twins has the potential to assess new projects against a much broader representation of a place. For instance, traffic data, air quality data and many more could all be added to the digital twin ecosystem to create a dynamic analysis environment, rather than static 3D simulation.

Using geospatial simulation and the potential to link hundreds of data layers spatially, digital twins provide the opportunity for a “virtual testbed” in major redevelopment projects to test, evolve and support delivery of development proposals and provide greater benefits to society.

**Content:**

During the webinar, we will review two redevelopment / revitalisation projects in Victoria, Australia over the last a few years and then explore the concept of the Digital Twins in Fishermans Bend, Melbourne.

**Who should attend:**

- Senior city officials, City Managers and Administrators of Urban Planning, and Urban Development
- Experts in charge of Urban Planning, Digital & Smart Cities, Architecture and Urban Development
- Student in urban planning

**Language:** English

**For registration please go to:**

<https://forms.gle/TjWHvtR9SoHMyWD39>

Thursday 11 Feb, 2021; 10:00 am to 12:15 (CEST)