

# Urban Planning of Stockholm in 3D



Stockholm Municipality has set up an appealing way of communicating its future urban projects. In the Culture House of Stockholm City, a large touchscreen is available allowing citizens to 'fly' through a photo-realistic 3D model and explore the various urban projects planned in Stockholm. This impressive virtual mock-up of the Swedish capital was created by Blom Sweden, thanks to the Smart3DCapture solution from Acute3D for the 3D reconstruction and to Agency's CityPlanner for the visualisation.

Merging the ultra-accurate 3D model automatically generated by Smart3DCapture (including more than 5 billion triangles) and the GIS data already collected by Stockholm Municipality, this photo-realistic 3D city model is not a mere 3D view of Stockholm, but also an incontestable key tool in the

decision-making process and a universal means of communicating with citizens.

The principle of Smart3DCapture is to analyse several photographs of a static subject, taken from different viewpoints, and to automatically detect pixels corresponding to a same physical point. From many such correspondences, relative orientations of photos and accurate 3D shapes of the scene can be inferred.

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