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Fa. AUTODESK

Imagine Tomorrow, Today.

As a software vendor and design experts, we at Autodesk always thinking of the future. The huge potential of designing digital cities in a collaborative environment is today one of our customers key topic. Our customers combined the digital ecosystem to, analyze, and visualize projects on a city and regional scale. Today we talk with our clients about a secure and robust integration of CAD, building information modeling (BIM) and geospatial data: The result is known in the Autodesk Community as Digital Cities Initiative:

- A combined and computable digital and visual model of a city and its communities, its infrastructure, its past, and its future.
- A digital platform that can synthesize, analyze, simulate, and communicate existing and proposed developments from different points of view—and points in time.
- An innovative solution that allows agencies, developers, and design professionals to communicate, collaborate, and deliver projects in a more effective—and engaging—way.
- A business tool to better plan, see, sell, and operate sustainable development essential for tomorrow's high-performance cities and economies.

Autodesk is working with the city of Salzburg, Austria, as the first pilot city in Autodesk's new "Digital Cities Initiative". Autodesk has chosen to work with Salzburg, one of the great cultural and historic centers of Europe, to help them integrate their city data into a highly detailed 3D model of their city. This combination of city data with realistic visualization and simulation tools can allow Salzburg to view and interact with the city landscape, as well as analyze the impact of future urban planning, tourism and economic development projects before they are built. The goal of this pilot program is for Salzburg to be able to bring together 3D models of above and below ground features in an open platform that supports secure and robust integration of CAD, building information modeling (BIM), geospatial, civil engineering, and infrastructure data over a wide geographic area. By combining this data with realistic visualization, analysis and simulation tools, a Digital City can deliver an intuitive and compelling way to understand the impact of plans and proposals from any point in time and from any point of view.

The digital city model will help cities like Salzburg better understand the impact of proposed urban projects. This type of pilot will help also better understand how the city planers and stakeholders can create an attractive and sustainable future for Salzburg and its people. Scientific personnel from Salzburg University's Center of Geoinformation (Z_GIS) are involved with the implementation of Digital City for the city of Salzburg. As a competence center for geo information, they contribute to one of the most innovative 3D projects worldwide. Thanks to this project, students can benefit from gaining decisive knowledge advantages and participating companies in Salzburg can develop services upon this new platform. In this way, the Z_GIS will be strongly oriented to economic, scientific and administrative interfaces.

In this speech we will present the status of this ambitious project, show the do`s and not to do`s to inform other interested peoples, who to manage such a big project. We will present the results up-to-date and the outlook for the next step in the project. We also present the workflow, how to integrate the different data sets to a LOD3/LOD4 digital city of Salzburg.