

Current News

CeBIT: Intelligent 3D-Maps from HPI Help to Plan the Cities of Tomorrow

CeBIT 2015

Potsdam/Hanover. Hasso Plattner Institute (HPI), for years one of the leading research facilities for digital, 3-D geospatial information systems, is presenting its highly innovative, intelligent city maps at this year's CeBIT. In Hall 9 at booth D44 the Potsdam scientists present innovative 3-D maps that provide a look at otherwise invisible data. With the "smart maps" from HPI it's possible, for example, for city planners and other decision-makers to get a fast working tool for what is known as "urban analytics".

"We go one step further than well-known online vendors," says HPI project manager Benjamin Hagedorn. For the official digital 3-D model of Berlin, the PhD candidate and his team have supported the half million models of buildings with data records gleaned from the Statistics Bureau and industrial promotion. This undertaking was carried out with the "Berlin Partner for Business and Technology," the economic development agency of the German capital.

The HPI smart maps can, for example, show the energy consumption of entire chains of buildings, simply per mouse click. This information is visualized with the corresponding façade color. Based on the height of buildings, the development of a city suburb's population is highlighted three-dimensionally. The system is adaptable to every city and every municipality.

The technology behind the smart map allows for easily interaction with large amounts of data. The focus can be freely selected - from the macro-level of entire cities to the micro-level of individual streets and buildings. In this way, urban planners, corporate settlers, and other experts get deep insight into urban data and processes.

"Entirely new relationships can be recognized with our smart maps," says Hagedorn. The spectrum ranges from energy supply to traffic infrastructure, from environmental protection to demographic development. In the next step HPI researchers want to include further Big Data sources, for example, sensory networks, corporate software and simulation in the smart maps. Thus, further interactive analysis maps can be provided that support decision-making for "smart cities."

Hasso Plattner Institute (HPI) is among the largest CeBIT exhibitors in the subject area of „Research and Innovation“ this year. In Hall 9 at booth D44, the computer scientists present the results of their latest research and development in the world of “Big Data” for the “d!conomy” – the word coined for the “digital economy,” which describes the transformation leading to a fully networked economy. At its booth space, encompassing more than 380 square meters, HPI shows, for example, how corporate decision-makers have innovation data support at their fingertips during a meeting in a kind of “cockpit.” A new financial simulation software is also being presented that enables lightning-fast profit analysis. HPI demonstrates the innovative possibilities for Big Data analysis not only in sports but also in disease containment on a global scale

Note to the editors:

You can find detailed material (texts, photos, videos) at our CeBIT website: www.hpi.de/cebit.

You can find interviews with prominent CeBIT guest on the topic of IT location Germany during the fair at www.it-gipfelblog.de.

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