

Press Release

- **18 Bavarian municipalities and intermunicipal associations are developing their own “digital twins” for data-based optimization of decision-making.**
- **The Bayerische Staatsministerium für Digitales is funding the projects with a total of up to one million euros.**
- **Virtual City Systems, CADFEM und Creative Climate Cities are project partners for the qualification program.**

“TwinBy – Digital Twins for Bavaria” is an initiative launched by the Bayerische Staatsministerium für Digitales. The qualification program for this comes from Grafing.

18 Bavarian municipalities and intermunicipal associations are developing “digital twins” for data-based optimization of decision-making. The Bayerische Staatsministerium für Digitales is supporting these municipalities as they implement their digital planning models. The sponsors have chosen the joint offer of Virtual City Systems, CADFEM and Creative Climate Cities for the qualification program of the employees from the municipalities.

The Bayerische Staatsministerium für Digitales is funding the “TwinBy - Digital Twins for Bavaria” project with a total of up to one million euros. This will be used to develop digital planning models in the participating municipalities, which will enable municipalities, cities and districts to analyze and simulate developments in their region based on local data. The 18 projects from all Bavarian administrative districts will focus on models for better control of energy and traffic. Cultural projects, urban development projects and projects from the healthcare sector are also planned.

Bavaria’s Digital Minister Judith Gerlach explains, “these digital models will help our Bavarian municipalities respond better to current and future challenges. We are bringing state-of-the-art planning solutions to our Bavarian city halls and district offices, where good, data-driven decision-making is supported.”

The participating municipalities will receive support from selected service providers in developing the software until April 2024. The Digital Ministry is funding the projects with up to 50,000 euros for individual municipalities and up to 75,000 euros for intermunicipal projects. This will support individual consulting, coaching and technical support services for setting up an individual digital twin in each municipality. In addition, there will be a special qualification program for employees. The

municipalities will thus be able to continuously expand their planning model themselves after the program and use their know-how to plan and simulate additional developments. More information on the “TwinBy - Digital Twins for Bavaria” initiative: www.twinby.bayern

Virtual City Systems, CADFEM and Creative Climate Cities as Qualification Partners

The qualification of the employees involved in the project plays a key role in the successful planning and implementation of a “digital twin”. For this purpose, the decision was made in favor of the joint offer from Virtual City Systems (experts in 3D city models, 3D geoinformation and digital twins of cities), CADFEM (experts in simulation technology and operators of an intuitive eLearning platform) and Creative Climate Cities (experts in digital urban development). The qualification concept is composed of two learning phases in which the necessary specialist knowledge can be acquired. Phase 1 in the spring will provide a general overview, while Phase 2 in the fall will focus on technical basics and competencies as well as the implementation of a use case. The qualification is offered as a blended learning concept, meaning the interactive eLearning courses, which are specially produced in the CADFEM studios in Grafing-Schammach, are combined with consultation hours and live workshops in hybrid format – either on-site at CADFEM or online.

Virtual City Systems GmbH (VCS), based in Berlin with a branch office in Grafing, is part of the CADFEM Group and provides cutting-edge 3D city models and Digital Twins as future-oriented technologies that improve collaborative and interdisciplinary urban development. VCS stands for technology that supports transparent communication and sustainable decisions based on analysis and simulation. VCS acts as project leader, impulse generator and designer of the contents of the qualification program. www.vc.systems

CADFEM Germany GmbH, based in Grafing near Munich, is an engineering company that specializes in simulation and has been advising companies, universities and research institutions since its foundation in 1985. In addition to software from Ansys (Nasdaq ANSS), the world market leader, CADFEM provides its customers with a comprehensive range of complementary services. CADFEM is regarded as the No. 1 provider of education and training in the field of simulation and has developed a successful eLearning platform for this purpose, which is now also used by TwinBy. www.cadfem.net/elearning

Creative Climate Cities (CCC), based in Berlin, is an Agency for Digital Urban Development. CCC works at the intersection of urban development, digitalization, design, research and visual communication and facilitates urban transformation processes. The goal is to support municipalities on their way to a

sustainable, climate-friendly and resource-efficient urban future. This is precisely the role that CCC plays in the implementation of the qualification program. www.creativeclimatecities.org/de



Image 01: The green light for TwinBy in the 18 participating Bavarian municipalities was given at the kick-off event in Munich on March 21, 2023. (Image: Bayern Innovativ GmbH)



Image 02: "Team Qualification": from left to right Dr.-Ing. Stefan Trometer, Managing Director Virtual City Systems, Dr. Nadine Kuhla von Bergmann, Managing Director Creative Climate Cities, Dr.-Ing. Markus Kellermeyer, Head of eLearning at CADFEM Germany and Emanuel Brehm, Sales Manager Virtual City Systems, planning the joint training offer. (Image: Virtual City Systems GmbH)