

DIN

DIN SPEC 91607

Digital Twin for cities and communities



Why?

Motivation for the DIN SPEC PAS

The topic of digital twins for cities and communities is currently being addressed by many municipalities and initiatives in the German states.

There is currently no uniform view or standard for this topic.

The lack of a standardised approach

- could leave small communities with a lack of resources and know-how in information technology behind.
- complicates the transferability of solutions or (technical) interoperability.
- can result in manufacturer dependencies.
- generates unnecessary extra work in a wide variety of work areas.
- makes it difficult to position a German-European solution in the international context.

The goal of this initiative, which is partly funded by the BMW SB project "Connected Urban Twins" (CUT), is to create a (national, i.e. German) standard for transferring the concept of digital twins to urban space, including the presentation and description of application scenarios, data access and visualisation methods, and the use of available standards.

What?





































More topics



Data & Facts	Inhalt
<p>Project duration: 20 months Period: March 2022 – December 2023</p> <p>Publication planned: January 2024</p> <p>Initiator</p> <ul style="list-style-type: none">CUT project (Munich, Hamburg, Leipzig): msg systems agKick-off meeting: 22 March 2022 <p>Contact:</p> <ul style="list-style-type: none">DIN: Stefan Kelnbergermsg systems ag: Joachim Schonowski <p>DIN business plan:</p> <ul style="list-style-type: none">https://www.din.de/en/wdc-beuth:din21:347212214	<ul style="list-style-type: none">The planned DIN SPEC 91607 focuses on the "Urban Digital Twin" (UDT), taking into account the overarching municipal ecosystem.This includes a definition for the UDT and important technical terms as well as their classification.The UDT shall be considered through different, overarching usage scenarios and from different perspectives, e.g. from a technical, user or decision-maker point of view.A maturity model for the UDT shall be developed, taking into account various parameters, in order to serve as a guide for other cities and municipalities in the development of their own UDTs. Technologically, this is to be transferred into a kind of modular construction kit.The planned standard (DIN SPEC 91607) thus describes an overarching architecture for the digital twin for cities and municipalities and should also be usable internationally. For this reason, an English-language translation is planned.
Scope	This document describes the requirements for the Urban Digital Twin and is intended for use in German and European municipalities. It is aimed at researchers, IT experts, professional and technical operators of a digital twin of municipal data platforms, as well as actors in specialised fields of action.
Adjustment	International standardisation: IEC, ISO, CEN/CENELEC, (inter-) national activities

Who?

Consortium members

13 x municipalities	10 x industry	6 x science
 Hamburg  Stadt Köln  paderborn.de  STADT REGENSBURG  STUTTGART  STADT KAISERSLAUTERN IM BREISGAU  Freiburg  Stadt Leipzig  SMART CITY JENA  Landeshauptstadt München  Stadt Bielefeld  Hannover  STADT Geestland	 URBAN TECH REPUBLIC  BERLIN TXL  virtual city systems  ORACLE  Construction and Engineering  FIWARE  DIN  .MSG  esri Deutschland  brain-SCC  GELSENWASSER  [ui!] Urban Software Institute	 BKG  Technische Universität München  TUM  Fraunhofer IES  GERICS  Hochschule für Technik Stuttgart  GIA  RWTH AACHEN UNIVERSITY
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