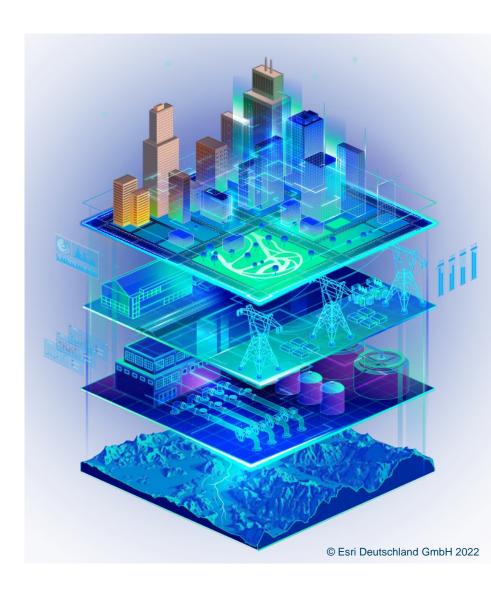


DIN SPEC 91607

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 BMWSB 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

Project duration: 20 months

Period: March 2022 - December 2023

Publication planned: January 2024

Initiator

- CUT project (Munich, Hamburg, Leipzig): msg systems ag
- Kick-off meeting: 22 March 2022

Contact:

- DIN: Stefan Kelnberger
- msg systems ag: Joachim Schonowski

DIN business plan:

• https://www.din.de/en/wdc-beuth:din21:347212214

Inhalt

- 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 Englishlanguage 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































Landeshauptstadt München





brain-SCC

esri Deutschland







Hub Germany









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