

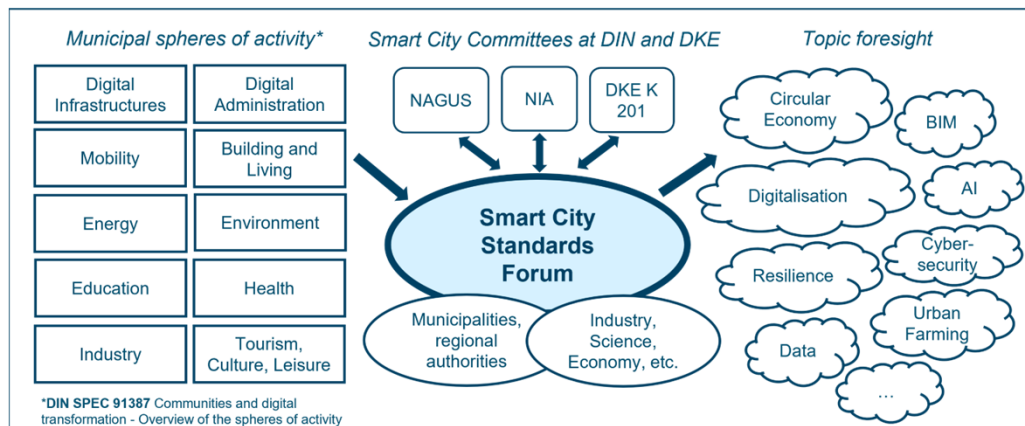


Technology and people in the community of tomorrow – Impulse paper III

DIN/DKE Smart City Standards Forum (SCSF)

Smart City at DIN and DKE – SCSF

The topic of "Smart City" has been strategically located in the Smart City Standards Forum (SCSF) at DIN and DKE since 2013. The SCSF is headed by two chairmen; the municipal representative is Klaus Illigmann (City of Munich) while Joachim Schonowski (msg systems ag) represents the business side. A total of around 30 representatives from local authorities, industry, research, technical regulators, and others are currently involved in the SCSF. This way the digitalization of communities is sustainably supported by corresponding national and international standardization activities. The SCSF analyses and coordinates standardization activities, identifies Smart City fields of action and supports the initiation of new standardization projects. The resulting DIN SPEC 913x7 standards series already provides local authorities, such as the model projects "Smart Cities Made in Germany", with supporting guidelines for their digital transformation. The new DIN SPEC 916x7 series will provide further support to local authorities in Germany, e.g. on topics such as the Urban Digital Twin.



Localisation of Smart City Standards Forum

Impulse paper III on standards – Smart City

The SCSF published the third Smart City impulse paper from the series "Technology and people in the community of tomorrow" in June 2023. The paper is based on two workshops titled "Digital systems for climate-neutral communities" and "Data in the community", as well as the DIN/DKE Innovation Conference 2022 "City of the future - How can the green and digital transformation succeed?". In both workshops, opportunities and challenges for the communities were collected and discussed on the respective topics and recommendations for action and needs for standardization were derived. A total of around 80 participants from over 30 cities and communities, as well as from industry, research, and associations participated. These two central topics of the impulse paper were also explored in more detail at the DIN/DKE Innovation Conference 2022 and were supplemented by further content-related impulses, among other things.

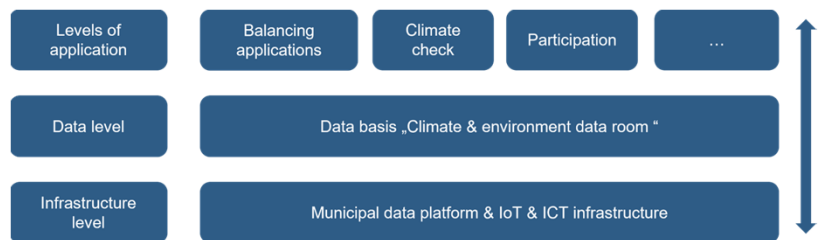


The results of those two workshops and the DIN/DKE Innovation Conference were subsequently analysed and supplemented by interested workshop participants and later authors of the impulse paper in several virtual exchange sessions.

Digital systems for climate-neutral communities

Standardization potentials:

- ✓ Standard on climate friendly procurement of digital systems to achieve product emissions transparency
- ✓ Standardized cost-benefit analysis for the use of digital systems, e.g. IoT-technology, with regard to their “climate footprint”
- ✓ Development and use of a standardized, growing “product climate database” for use in municipal procurement procedures



Basic architectural representation of climate-neutral municipalities based on DIN SPEC 91357



Smart People City recommendations for action

Data in the community

Standardization potentials:

- ✓ Generalisation of the standards to enable data exchange not only within the local authority or the city group, but also beyond
- ✓ Standardised services and interface federated interoperability mechanisms
- ✓ Development of transparent and central data strategies

DIN/DKE Innovation Conference

Key messages:

- ✓ Sustainable and smart urban development can only work in partnership.
- ✓ Standards provide communities with guidance and are a prerequisite for a successful inter-municipal cooperation.
- ✓ An active participation in the development of standards is possible through direct collaboration or by commenting on drafts.
- ✓ Several needs for standardization were identified: e.g., climate neutral communities, circular communities, municipal heavy rain risk management, impact indicators, greening building facades and roofs, combating heat stress in urban areas through unsealing.



Round table discussion at the DIN DKE Innovation conference 2022
(Source: Isa Foltin)

Outlook

With the help of national standards and principles, the "Made in Germany" brand has grown globally. The same aspiration should apply to “Smart Cities Made in Germany”. The DIN/DKE Smart City Standards Forum wants to make a corresponding contribution with the help of the national Smart-City-SPECs, the impulse papers and the collaboration with the national standardization committees. Based on the findings of the impulse paper, new standardization activities on the topics of Data in the Community and Climate Neutrality of Communities are to be initiated.

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