

**Mission**

To serve as a forum for information sharing and coordination on voluntary standards, conformity assessment and related activities for smart and sustainable cities in the U.S and abroad:

- To get input from cities and local governments, organizations representing them, and organizations involved in urban infrastructure planning and development, on the challenges that cities face
- To enable standards practitioners to describe how standardization can assist cities and local governments in addressing critical issues
- To facilitate discussion among U.S. public- and private-sector stakeholders on needed standards and conformity assessment programs for smart and sustainable cities
- To promote awareness of standardization initiatives and related activities that support smart and sustainable urban infrastructure planning and development

**A Benefit for ANSI Full Members**

Participation in the network is an exclusive benefit of membership for ANSI full members. Interested members may register to receive network communications by sending an email to [cities@ansi.org](mailto:cities@ansi.org). If you are not already a full member of ANSI, find out more about the [benefits of ANSI membership](#).

Network participants include representatives from industry, organizations involved in urban infrastructure planning and sustainable development, standards developing organizations, the federal government, and academia, providing a range of perspectives.

**Deliverables**

- Periodic informational updates about relevant activities
- Periodic webinars with a guest speaker on a specific topic, and open information sharing among all participants
- An archive of webinar recordings and materials for those unable to attend
- A roster of network participants, provided individuals consent to sharing their contact details
- A directory of standardization activities and related initiatives for smart and sustainable cities

Topics of past webinars have included:

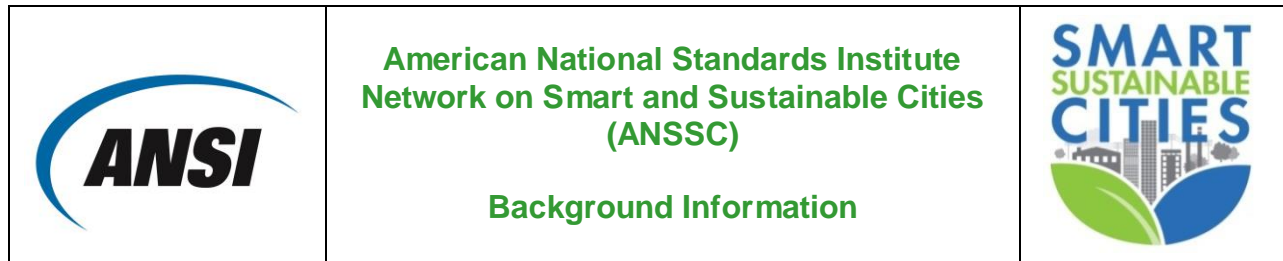
- USGBC LEED for Cities Program
- Opportunities for U.S. Africa Engagement in Smart and Resilient Cities
- NYU InterCEP Metropolitan Resilience Network
- USGBC Performance Excellence in Electricity Renewal Program
- Internet of Things-Enabled Smart City (IES-City) Framework
- NIST Community Resilience Program

- ISO TMB Climate Change Coordinating Committee
- ISO/TC 268, Sustainable Development in Communities
- The Role of Credentialing in Urban Infrastructure Planning and Sustainable Development
- ISO/IEC JTC1 Study Group on Smart Cities
- IEC Systems Evaluation Group (SEG-1) on Smart Cities
- NIST Cyber-Physical Systems (CPS) Public Working Group: Draft CPS Framework

### Benefits of Participation

Participation provides the ability to:

- Gain early access to information on standardization developments related to smart and sustainable cities
- Align products and services with new and existing standards and conformity assessment programs
- Vet issues of concern to cities and identify solutions in areas such as urban infrastructure planning and design, key performance indicators, and resilience
- Help determine priorities for new standards and conformity assessment programs needed to achieve smart and sustainable cities
- Inform policy and technical discussions in national, regional, and international standardization bodies



### Standards are Essential for Cities

Cities contain complex, interconnected systems for transportation, buildings, health and human services, energy, water, sanitation, public safety, telecommunications and more. These aspects of urban infrastructure are built on a foundation of voluntary consensus standards, documents produced by subject matter experts that provide requirements, specifications, guidelines and characteristics that can be used consistently to ensure that materials, products, processes and services are fit for their purpose. Addressing issues such as design, quality, performance, interoperability, health, safety and environmental protection, voluntary consensus standards, and related systems to assess conformity to standards, impact almost every aspect of city life.

More to the point, standards are at the heart of efforts to make cities smarter, more sustainable and more resilient. Standards build on and enable innovations in “smart” information and communications technologies. Sensors, smart meters, and intelligent transit systems that capture, transmit, and analyze data enable cities to more efficiently deliver essential services to citizens. Likewise, standards for green building construction, energy efficiency, and climate change mitigation and adaptation help cities to protect the urban environment. When disaster strikes, emergency management standards can help cities rebound from the crisis.

### A Flurry of Standardization Activity

The increase in urbanization, climate change impacts, and aging infrastructure, combined with the ready availability of new capabilities to use urban data, have given rise to a flurry of standardization activities at the national, regional, and international levels in relation to smart and sustainable cities. In 2012, the International Organization for Standardization (ISO) launched technical committee 268 on *Sustainable Development in Communities*. In 2013, the International Telecommunication Union (ITU), the International Electrotechnical Commission (IEC), and ISO/IEC Joint Technical Committee (JTC) 1 on *Information technology* all convened strategic groups to assess current and needed standards for smart and sustainable cities. ISO followed suit in 2014. These strategic policy groups have since given rise to the development of technical standards and recommendations. Regional and national standards bodies in Europe and Asia also have undertaken strategic initiatives to explore this area.

### ANSI’s Solution

As the U.S. member of ISO and, via the U.S. National Committee, IEC, ANSI convened a meeting of its members in April 2013 [[Making Smart Cities Smarter with Standards and Conformance Explored at ANSI Joint Member Forum](#)] and a follow-up workshop in November 2013 [[Standardization Priorities for Smart and Sustainable Cities Discussed at ANSI Workshop](#)] to examine the role of standardization in achieving the promise of smart and sustainable cities. Of particular focus was the need for coordination, collaboration and avoidance of duplication of effort among relevant standardization activities taking place internationally, as well as coordination of U.S. engagement in this work.

Launched in 2014, the [\*ANSI Network on Smart and Sustainable Cities \(ANSSC\)\*](#) serves as a one stop shop where city authorities and others knowledgeable in urban infrastructure planning and sustainable development – who may have limited resources for active standards participation – can engage with ANSI, learn about work taking place in the formal standards process, and articulate their issues and needs. The network provides standards practitioners a venue to hear these perspectives and describe how standardization can assist cities and local governments in addressing the challenges they face. Conversely, there are many resources and activities that have been developed outside of the formal standards process (such as rating systems, readiness guides, and best practices) that standards practitioners may not be aware of but that could potentially inform future standards and conformity assessment activities. The network dialogue will raise awareness of standardization initiatives, bring new participants into the process, and influence the direction of future standards development activity.

Additional information is available at [www.ansi.org/cities](http://www.ansi.org/cities).