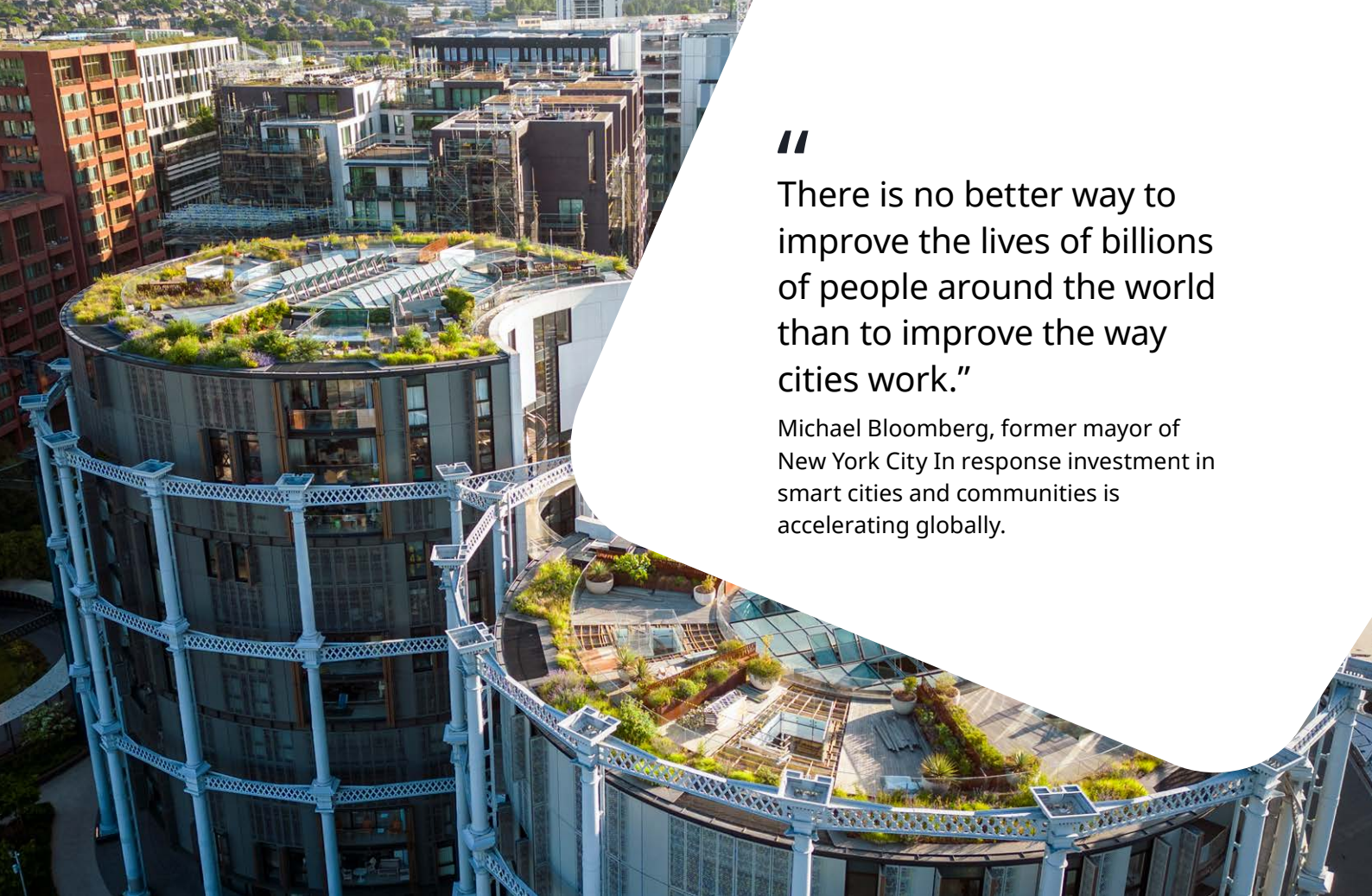# Smart cities and communities

Kitemark certification

> "
> There is no better way to improve the lives of billions of people around the world than to improve the way cities work."
>
> Michael Bloomberg, former mayor of New York City In response investment in smart cities and communities is accelerating globally.

The urban environment is being transformed

Today, 57% of the world's population lives in urban areas, a proportion that is forecast to increase to 70% by 2050[1].
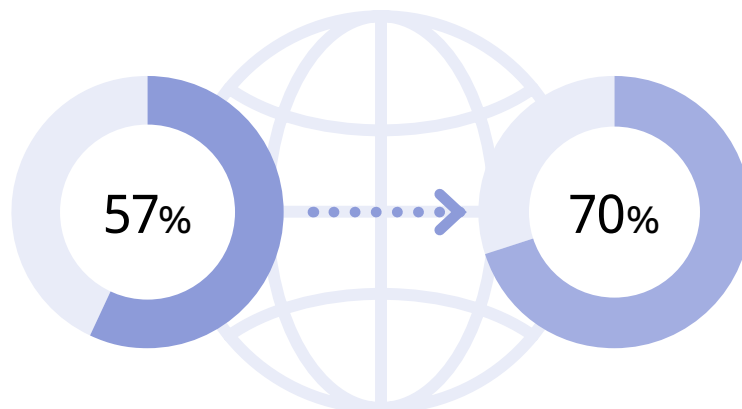
This is putting immense pressure on our urban environments. Transportation, energy, housing and the use of resources need to be effectively managed to enable sustainable development.

Meanwhile a technological revolution is taking place. Digitization, the installation of 5G networks, increased connectivity and the Internet of Things (IoT) provide the perfect opportunity for cities and communities to become smarter and deliver a better environment in which to work and live.

In response, investment in smart cities and communities is accelerating globally.

1. The UN, Department of Economic and Social Affairs 2018)

What makes a truly smart city or community?

ISO 37106[2] an international standard for sustainable cities and communities. It provides a framework for developing smart city operating models to foster sustainable communities.

The standard defines a smart city as:

"

One that dramatically increases the pace at which it improves its sustainability and resilience... by fundamentally improving how it engages society, how it applies collaborative leadership methods, how it works across disciplines and city systems, and how it uses data and integrated technologies... in order to transform services and quality of life to those in and involved with the city (residents, businesses, visitors)."

Internationally the common vision is to improve city living and working by harnessing the power of technology:

- In China smart city initiatives are included in the 14th national five-year plan with numerous smart city clusters along the Yangtze River Delta and Pearl River Delta

- In Austria Vienna's smart city strategy, "Smart City Wien" takes a holistic approach to transforming the city by 2050. It focuses on buildings, digital, education, energy, environment, health, innovation, location, mobility, and social affairs

- In New York City the Mayor's Office of Technology and Innovation (MOTI) is leading the way in its "Building a Smart and Equitable City" initiative to deliver improvements to government services and to the lives of all New Yorkers.

Yet we have only just started on the journey towards the smart city of the future. Agencies responsible for determining policy, priority areas and strategy want to know how best to plan for long-term sustainability and how best to manage issues such as security and privacy.

BSI Kitemark certification can help you to achieve this.

Benefits of Kitemark certification

- Attracts new residents and businesses
- Increases citizen engagement
- Makes city cost savings and attracts investment
- Improves sustainability
- Creates a better quality of life for citizens
- Increases global competitiveness.

2. ISO 37106:2021 Sustainable cities and communities – guidance on establishing smart city operating models for sustainable communities.

What BSI Kitemark certification can help you achieve

To respond to the complexities of planning for long-term sustainability whilst managing challenges of security and privacy, we've developed BSI Kitemark certification for smart cities and communities.

Based on ISO 37106, Kitemark certification supports the implementation of and measures the effective design and delivery of a smart city following a citizen-centric approach.

It defines a "smart operating model" for cities which enables them to operationalize their vision, strategy and policies at a faster pace, with greater agility and a lower delivery risk.

Recognizing that no smart city or community is the same as another, Kitemark certification enables policymakers, municipal authorities and other stakeholders to focus on their strategic priorities whilst providing a process for continual improvement through regular audits.

We will assess against the four areas of the standard and the 22 sub-clauses. An overall score of one to five is awarded with a score of three, four or five resulting in Kitemark certification.

Suitable for public, private and voluntary sectors, Kitemark certification can help cities and communities move from being silo-based to a more integrated way of operating ultimately enabling them to be smarter, more sustainable and more resilient.

Kitemark maturity level award

Based on the requirements of:

- ISO 37106:2021
- PD 8100:2015 Smart cities overflow
- BS 9004:2009 Quality management. Guidance to achieve sustained success
- ISO 10012:2017 Data protection. Specification for a personal information management system

Kitemark threshold

Level 5: Visionary Smart Community
The City Community is implementing a mature smart procress of continual improving

Level 4: Leading Smart Community
The City Community is implementing smart processes, measuring success

Level 3: Collaborative Smart Community
The City Community has implemented smart processes

Level 2: Developing Smart Community
The City Community is developing smart processes

Level 1: Pre-development
The City Community does not have a clear smart vision and strategy

How to achieve Kitemark certification

1 Buy a copy of ISO 37106 and read it.

2 Book a BSI gap analysis against the Kitemark requirements. This will help you to understand how ready you are for certification.

3 Book your Kitemark assessment.

4 We will provide a detailed report at this stage. The length of your assessment will depend on whether you are a small community or a large city.
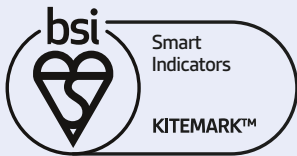
5 Achieve Kitemark certification.

6 Celebrate and promote your achievement. We will carry out regular audits designed to ensure you are making progress against your objectives.

bsi
Smart Cities and Communities
KITEMARK™

Introducing our additional Smart Cities Kitemark solutions

Smart Indicators Kitemark

The smart indicators Kitemark is applicable to any city, municipality or local government that intends to measure its performance in a comparable and verifiable manner, irrespective of size and location.

ISO 3712 standard series defines and establishes methodologies for a set of indicators to steer and measure the performance of city services, quality of life, smartness and resilience.

Smart Services Provider Kitemark

By achieving the BSI Smart Services providers Kitemark for their service delivery, private organisations can demonstrably showcase how they have successfully supported and enabled cities to become more sustainable and resilient.

Organisations will be assessed (against three key areas) as there are 4 areas in the standard of the ISO 37106 standard and relevant selection of the sub-clauses to determine how they have assisted cities in realising their smart cities Vision.

BSI smart cities and communities framework

Kitemark for
Smart Operating Model

Kitemark for
Smart Performance Indicators

Kitemark for
Smart Service Provider

For city owners and operators

For consultants, subcontractors and software vendors

- Assesses your smart objectives and strategy
- ISO 37106 / ISO 37101

- Assesses tangible performance measures against smart city objectives
- ISO 37120 / ISO 13722 / ISO 37123

- Assesses the quality of services delivered by service providers in helping cities realise their vision
- ISO 37106
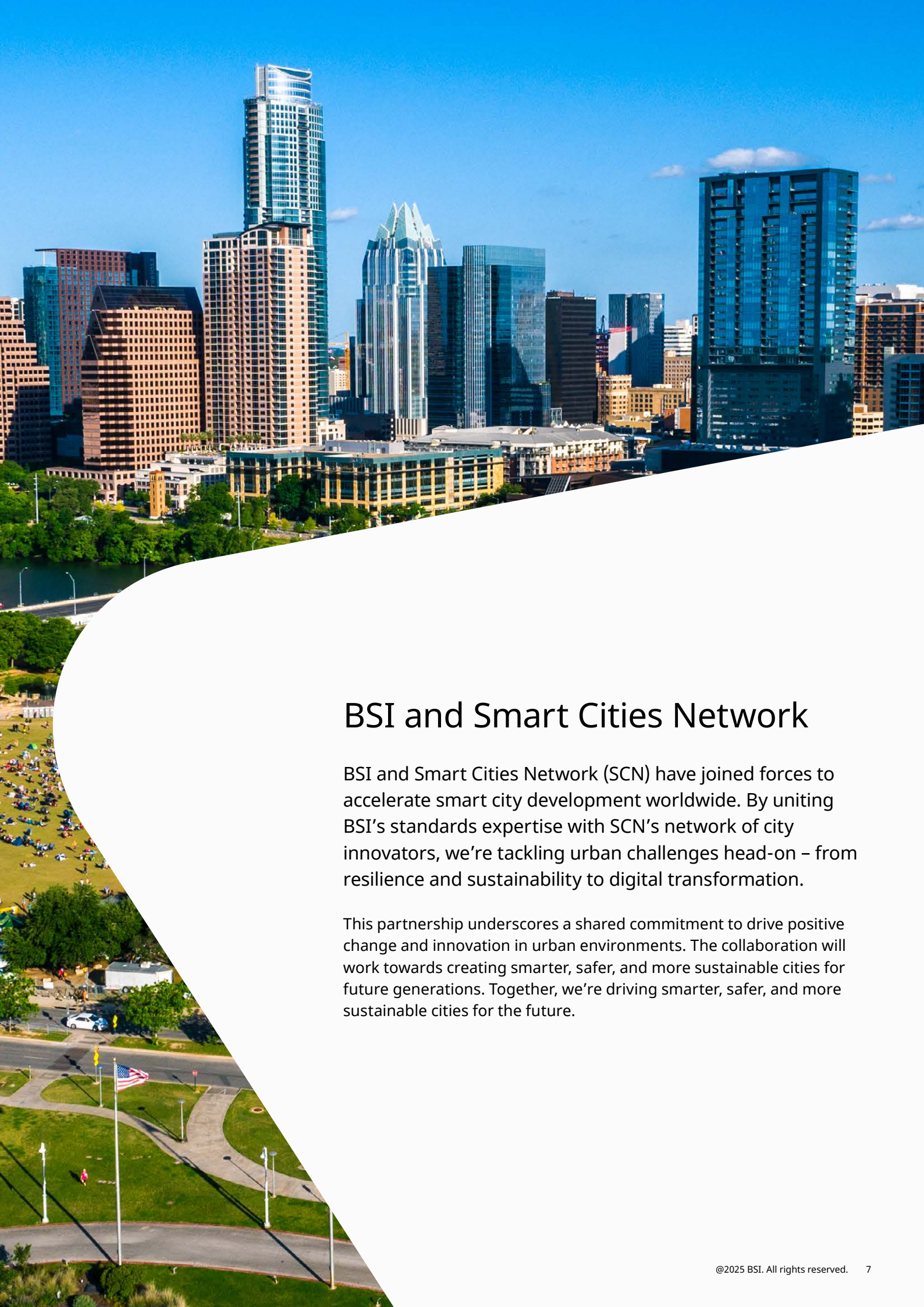
BSI and Smart Cities Network

BSI and Smart Cities Network (SCN) have joined forces to accelerate smart city development worldwide. By uniting BSI's standards expertise with SCN's network of city innovators, we're tackling urban challenges head-on – from resilience and sustainability to digital transformation.

This partnership underscores a shared commitment to drive positive change and innovation in urban environments. The collaboration will work towards creating smarter, safer, and more sustainable cities for future generations. Together, we're driving smarter, safer, and more sustainable cities for the future.

About BSI

For over a century BSI has championed what good looks like and driven best practice in organizations around the world. As one of the founding members of ISO, we help make sure international standards developed address today and tomorrow's business and social needs, while delivering real benefits to an organization and all its stakeholders.

We work closely with leading manufacturers to ensure their products meet the latest Regulations to gain market access. We focus on delivering a testing and certification partnership underpinned by quality, safety, reliability and accuracy aligned to your product development requirements. That's why we're best placed to help you understand standards and to meet the requirements.

From shaping collective best practice with our knowledge solutions to product testing, certification, and environmental health and safety professional services, we are committed to innovating and collaborating with our clients to build a safer more resilient tomorrow – one that protects buildings, assets, the environment and most importantly people.

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