

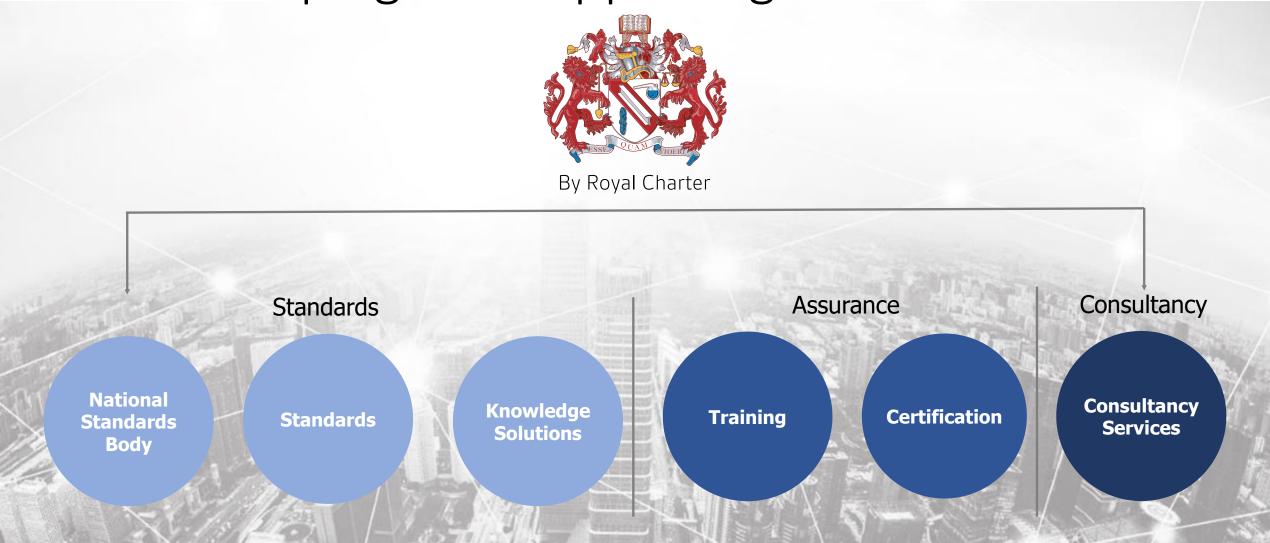
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Shaping and Supporting Best Practice



Inspiring trust for a more resilient world

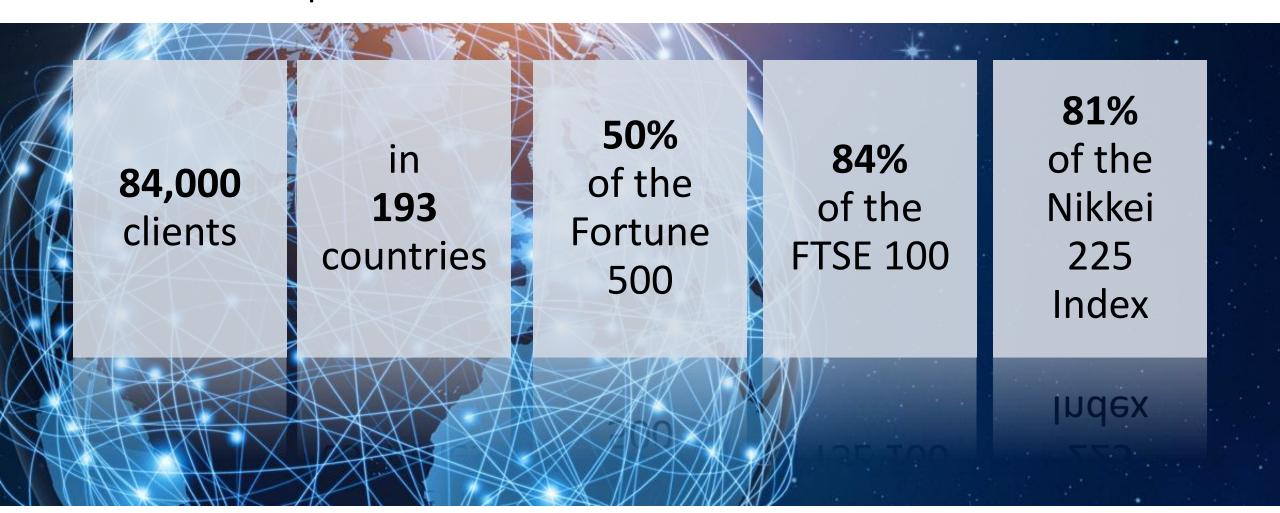
- We work for the public good to improve, standardize and simplify; business systems, products and services
- Profit is reinvested back into BSI and never distributed
- We are independent from outside influence

- Working constantly to serve industry
- Committed to finding new ways to deliver services
- Focussed upon enabling organizations to become more resilient;

survive stabilize rebuild

be resilient

Around the world, we enable businesses to turn best practices into habits of excellence



BSI – From Strategy to Sensor:

Shaping and supporting digital innovation in the Built Environment





How to accelerate Smart Cities and Communities development

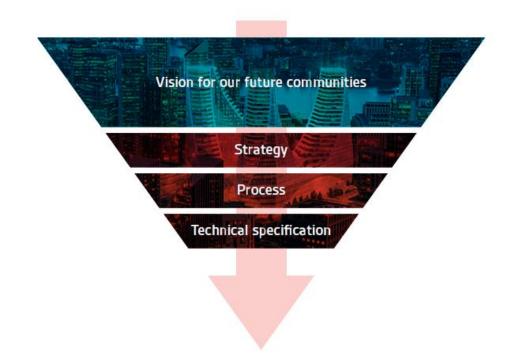
How to address the challenges

Challenges

- Moving from innovation to global scale
- Silos (organisations and systems) make it hard to connect the dots across programmes to release value
- Buyers not sufficiently engaged
- Trust and security concerns
- Complex standards and security landscape with lots of gaps

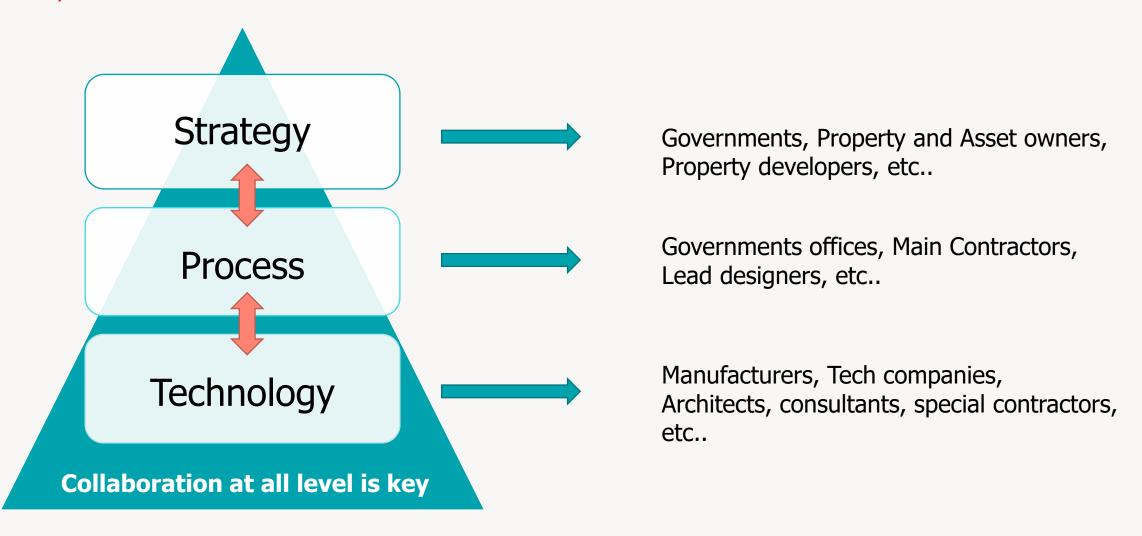


- "why" smartness? STRATEGY
- "how" smart initiatives can be executed across multiple sectors? PROCESS
- "what" kind of solution or application? TECHNICAL SPECIFICATION



Embracing Digital Transformation

The importance of collaboration

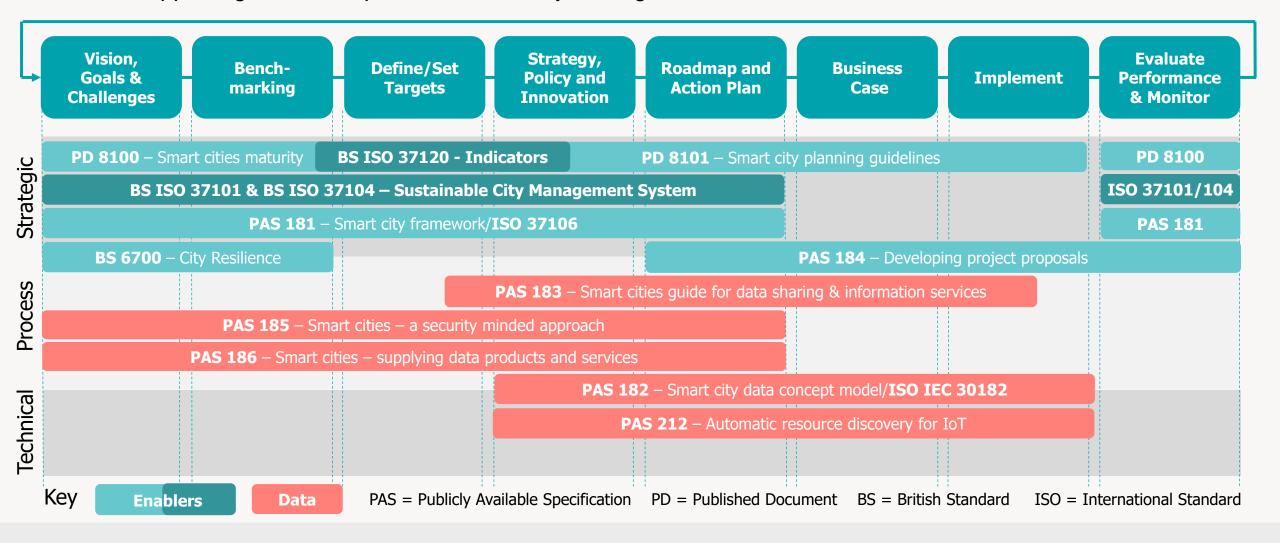




Portfolio approach to smart city standards

Tools for supporting the development of smart city strategies

bit.ly/BSI-Cities







Smart communities - Strategy

ISO 37101 - Content

This International Standard establishes requirements for a management system for sustainable development in communities.

The intended outcomes of a management system for sustainable development in communities include:

- managing sustainability and fostering smartness and resilience in communities, while taking into account the territorial boundaries to which it applies;
- improving the contribution of communities to sustainable development outcomes;
- assessing the performance of communities in progressing towards sustainable development outcomes and the level of smartness and of resilience that they have achieved;
- fulfilling compliance obligations.

Can be used in conjunction with ISO 37106 ISO 37104 gives guidance for implementation

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BS ISO 37101:2016



Sustainable development in communities — Management system for sustainable development — Requirements with guidance for use

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Smart communities - Strategy ISO 37101 – Supporting UNSDG

ISO 37101 helps Cities and Communities support the United Nations Sustainable goals, by taking in consideration:

- 6 purposes of sustainability
- 12 sustainability issues to consider against each purpose



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Smart communities – Process/Management

ISO 37106 - Content

guidance for leaders in smart cities and communities on how to develop an open, collaborative, citizen-centric and digitally-enabled operating model for their community that puts its vision for a sustainable future into operation.

It focus is on the enabling processes by which innovative use of technology and data, coupled with organizational change, can help each community deliver its own specific vision for a sustainable future in more efficient, effective and agile ways.

Can be used in conjunction with ISO 37101 management system

BS ISO 37106:2018

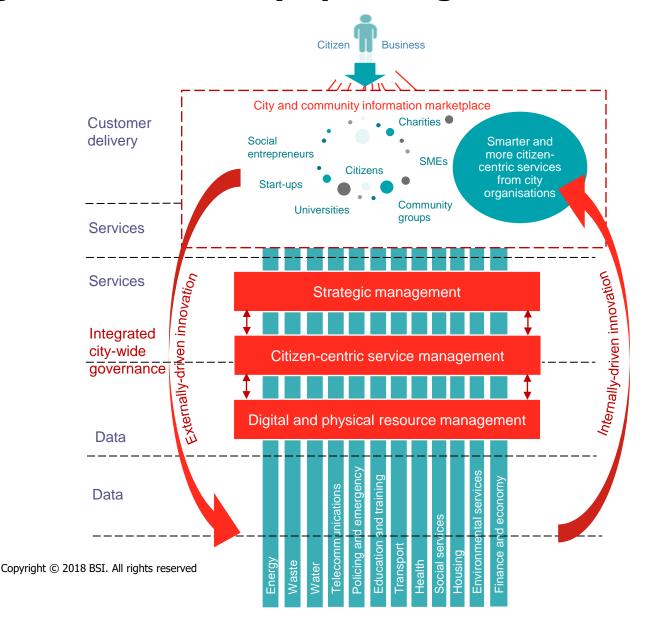


Sustainable cities and communities —
Guidance on establishing smart city operating
models for sustainable communities

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The need for Smart Cities & Communities

Integrated Community operating model – ISO 37106



"A twin track approach needs to be taken to the smart transformation of city services":

- Enabling externally-driven, stakeholder-led innovation by opening up city data
- Delivering internally-driven, city-led citizen-centric service transformation'



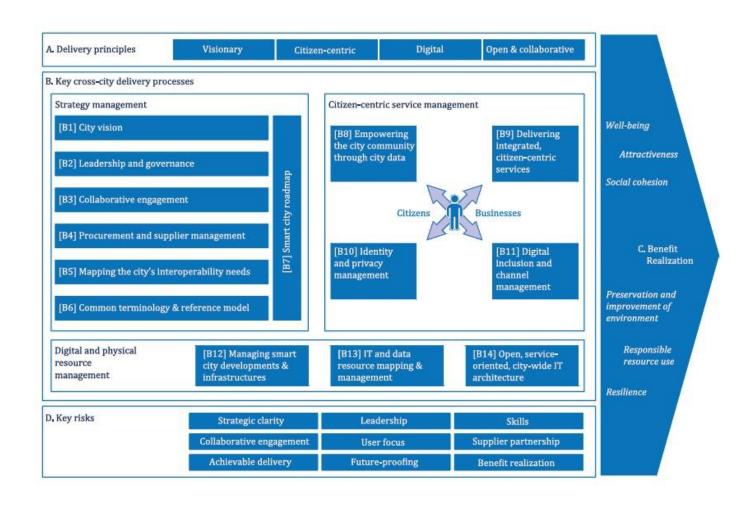
BSI Smart Cities and Communities KitemarkCertification based on the ISO 37106

Assesses mainly against the requirements of ISO 37106

Scores the client 1-5 in each of the areas individuated in the standard. Important to note that a low score is not a failure; it demonstrates a low development/ low priority

The client is assessed against all areas, so needs to have considered each one, even if the majority are low priority/ not advanced.

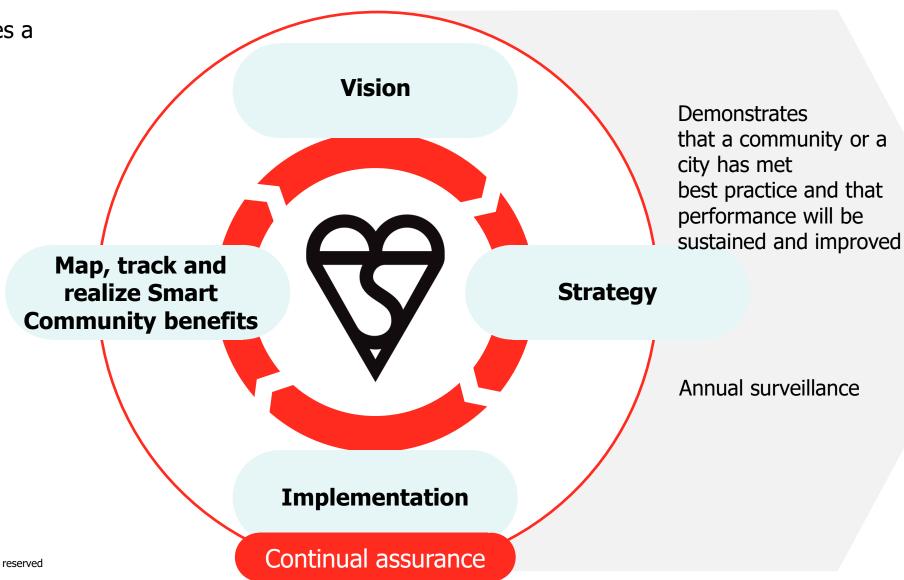
Can be offered to a city/community authority, with individual boroughs or districts, businesses and municipal functions covered under the scope.



BSI Smart Cities and Communities Kitemark

A process of continual improvement

The Kitemark provides a process of continual improvement



BSI Smart Cities and Communities Kitemark Meet the requirements Vision Stakeholder Leadership collaboration Managing data as a **Integrated** operating model wide asset to drive City and communities innovation services managed across silo's Smart E.g. Open data platforms Cities and "Smart Smart procurement "Smart enablers" Communities Shared use of E.g. publishing of procurement enablers" pipelines, open data requirements **KITEMARKTM** common resources in contracts e.g. mapping of IT resources Citizen centric service Managing smart city management developments & e.g. services designed around the need of citizens/businesses infrastructure Benefit realization strategy Mapping, tracking and delivering benefits

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Wider Smart Community benefits

Benefits of Kitemark

Better policy making & decision making

Increased innovation

Improve collaboration

Digital transformation

Increased citizen engagement

Improved transparency

Global competitiveness

City cost saving

The value of Kitemark

Improved citizen and visitor experience

Attract investment

Job creation

Economic growth

Improved productivity

Good place to do business

Sustainability

Better quality of life

Efficiency in government





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Smart Cities and Communities Kitemark

Pilot phase



During the assessment we will look at:

- Setting up a Sustainable Strategy (ISO 37101), looking how to deploy benefits such as: Resilience, wellbeing, sustainability, comfort, responsible use of resources and attractiveness.
- Setting up smart processes (ISO 37106), looking at how you create a smart strategy, using technology in order to deploy benefits all across the different functionalities in the plaza
- Setting up Technical specifications (ISO 37151 and ISO 37152), in order to evaluate your digital and IT performances and your common framework for development and operation, from an infrastructure perspective.





BSI Smart Cities and Communities Kitemark

Assessing the maturity of Smart Cities and Communities

Assesses the maturity of Smart Cities and Communities

BS ISO 37106:2018



Sustainable cities and communities — Guidance on establishing smart city operating models for sustainable communities

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Level 1: Pre-development

The City/Community has not a clear idea of a vision and processes to meet the ISO 37106 are not put in place yet

Level 2: Developing Smart City

The City/Community is developing processes to meet ISO 37106

Level 3: Collaborative Smart City

There are processes in place to meet the requirements of ISO 37106



Level 4: Leading Smart City

The City/Community is implementing ISO 37106 processes, improving, measuring success

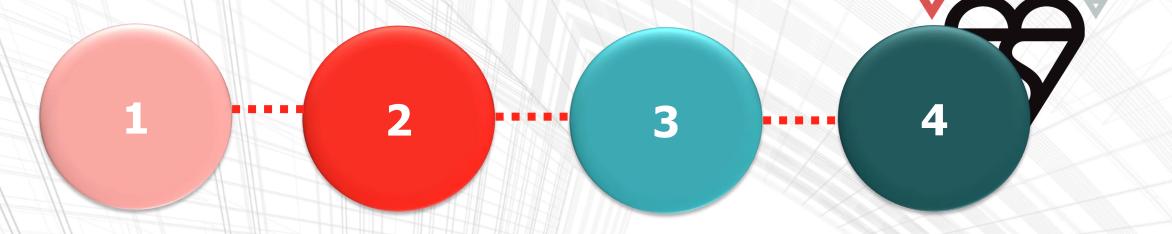
Level 5: Visionary Smart City

The City/Community is implementing a process of continual improving

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BSI Smart Cities and Communities Kitemark Steps



Purchase the Standards

Gap Analysis against Kitemark requirements to inform strategy

BSI Smart
Community
Kitemark
assessment and
certification

Ongoing marketing, engagement and continual surveillance audits

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BSI Smart Cities and Communities Kitemark

Case Study: South Korea

After Sejong's success, three other cities have been certified:

- Hwaseong
- Goyang
- Gawcheon
- YangJu
- Seocho District in Seoul

Having a defined View and Roadmap is key in setting up future cities. The Land and Housing Corporation of South Korea shares this view and has been working closely with cities in order to have a common Smart city development framework.









communities - Guidance on establishing smart city operating models for ainable communities) designation has been awarded to Sejong to

Addressing the smart cities

