



Impacting Quality of Life: Smart Cities and IoT

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Impacting Quality of Life

Standards are a foundation and enabler



- **Standards are made for everybody**
- **Trusted, enduring governance**
- **A consensus of what good looks like**
- **Connect digital innovators with traditional industries, SMEs and their assets**

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The difference standards have made to the world

Product Specification Standards

Technical standards for products and services emerged at the end of the 19th century, simplifying procurement and supporting trade and quality.

Business Process Standards

Process standards supporting management systems enabled businesses to improve their performance.

Business Potential Standards

The third dimension of business standards are focused on principles and frameworks, helping people and organisations deliver their full potential.

Business Potential Standards

Business Process Standards

Product Specification Standards

1900

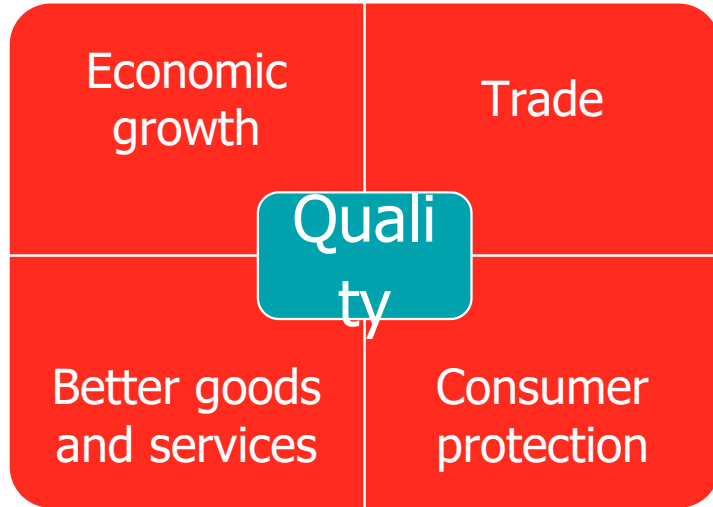
1950

2000

Today

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Benefits of standards and conformity assessment



of annual UK GDP growth can be attributed to standards, equivalent to **£8.2 billion**



of additional UK exports per year can be attributed to standards



SMEs are **41%** more likely to export if they use standards and larger companies are **36%** more likely to export

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Smart Cities

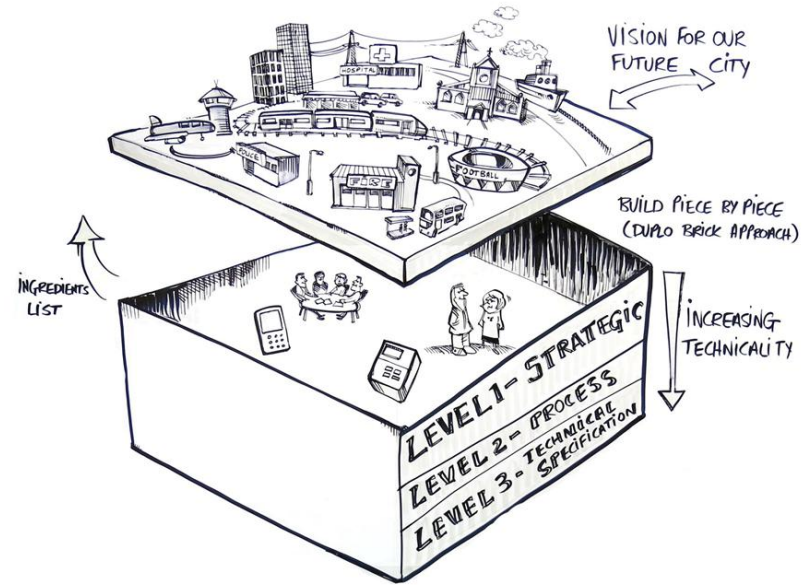
Goal of Smart Cities is to invest in technology to create economic, social or environmental outcomes – standards and guidance can help in providing the right conditions for **open innovation** and reduces barriers to **integration** and **collaboration**

- There cannot be Smart Cities without Smart Leadership.
- Bottom-up innovations by citizens and businesses are needed but not enough.
- Transformational change at city-scale requires political and city leadership.

Best practice, guidance and standards specifically can:

- address some of these issues through how a smart-city should operate,
- address issue of interoperability at various levels: political, legal, organizational, semantic and technical.

BSI standards and ISO/ IEC standards



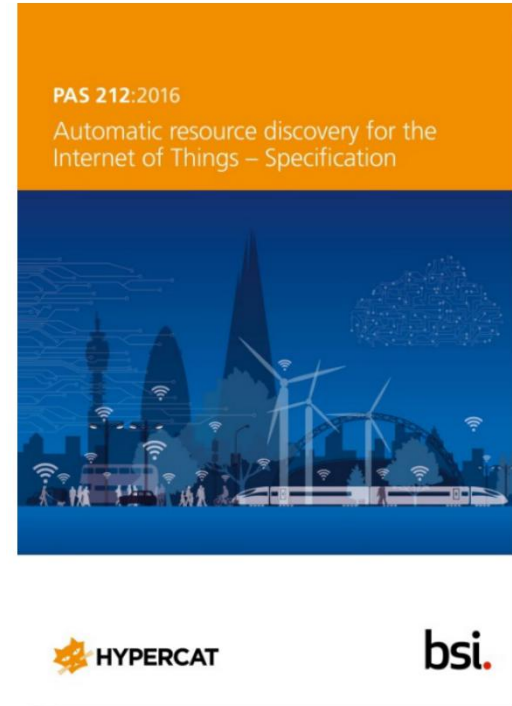
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The Internet of Things

- IoT – essential for Smart City development
- Devices and sensors need to communicate
- Standards are a key enabler
- PAS 212: Automatic resource discovery provides a platform and open specification for cities to use with industry,
- Designed for innovators, traditional industries, and SMEs.

BSI is building a global IoT standards community to bring together developers and users to develop the use cases and roadmap of consensus standards that we need for the future.

www.bsigroup.com/industries-and-sectors/Internet-of-Things/IoT-Membership/



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