

SMART CITY STRATEGIC GROWTH MAP

Appendix



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Smart Solutions in the city environment

The analysis of large amounts of data enables cities to prevent, mitigate, or anticipate problems, with many solutions being economically and environmentally sustainable. There are already a large number of successful projects running in cities worldwide:

Smart Mobility	Amsterdam	An app that allows the booking of a parking spot in advance https://parku.ch/en_GB/search/parkingspace
	Boston	An app that record 'bumps' on the street surface which are identified using the device's accelerometer and located using its GPS http://www.streetbump.org/about
	London	Driverless cars in the streets of London http://www.bbc.co.uk/news/technology-35432687

Smart Safety	Glasgow	Intelligent Lighting System controlled by sensors that reacts to citizens http://futurecity.glasgow.gov.uk/intelligent-street-lighting/
	Los Angeles	The Real-Time Analysis and Critical Response Division is responsible for the city's predictive policing success https://www.theguardian.com/cities/2014/jun/25/predicting-crime-lapd-los-angeles-police-data-analysis-algorithm-minority-report
	New York	Acoustic sensors for identifying guns hots https://www.rt.com/usa/242921-nyc-police-shotspotter-microphones/
Smart Energy	Europe	A research report by the Joint Research Centre (JRC) on European smart grid projects http://ses.jrc.ec.europa.eu/sites/ses/files/documents/smart_grid_projects_in_europe.pdf
	Berlin	The Reichstag building is being heated and cooled with aquifer thermal energy storage http://www.os.is/gogn/flytja/JHS-Skjol/UNU%20Visiting%20Lecturers/PSLecture03.pdf
	Copenhagen	District heating system mainly supplied with waste heat http://www.c40.org/case_studies/98-of-copenhagen-city-heating-supplied-by-waste-heat

Smart Solutions in the city environment

Smart Water	Tokyo	One of the most efficient water systems in the world http://www.c40.org/case_studies/tokyo-world-leader-in-stopping-water-leakage
	Malaysia	Use of drones to track flash floods http://www.themalaysiantimes.com.my/ministry-recommends-drone-technology-to-track-flash-floods/
	Rotterdam	Progressive approach to water management http://www.theneweconomy.com/technology/rotterdams-water-management-gives-rise-to-exceptional-city
Smart Waste	Leeds	Bin collection day can be identified against a postcode http://www.leeds.gov.uk/residents/Pages/Check-your-bin-day.aspx
	Dubai	Smart Recycling Centre http://the-mea.co.uk/news/averda-dubai-municipality-open-first-smart-recycling-centre-gcc
	Barcelona	Smart trash cans with sensors and wireless links that remotely alert cleaners when they are full http://www.bloomberg.com/news/articles/2014-02-23/barcelona-s-smart-trash-cans-pave-way-for-mobile-future

Smart Government	Estonia	International reputation for its digital public services http://www.ukauthority.com/news/6151/data-for-good-the-e-estonia-precedent
	Reykjavik	An online platform that allows citizens to voice, debate and prioritise the issues they believe will improve their city https://betrireykjavik.is#!/domain/1
	Melbourne	Allows city users to participate in and keep informed about current smart projects http://participate.melbourne.vic.gov.au/

Guidance Documents

British Standards Institute, *Smart City Framework*,
<http://www.bsigroup.com/en-GB/smart-cities/Smart-Cities-Standards-and-Publication/PAS-181-smart-cities-framework/>

British Standards Institute, *Smart City Concept Model*,
<http://www.bsigroup.com/en-GB/smart-cities/Smart-Cities-Standards-and-Publication/PAS-182-smart-cities-data-concept-model/>

British Standards Institute, *Smart cities – Guide to the role of the planning and development process*,
<http://www.bsigroup.com/en-GB/smart-cities/Smart-Cities-Standards-and-Publication/PD-8101-smart-cities-planning-guidelines/>

British Standards Institute, *Smart Cities Overview*,
<http://www.bsigroup.com/en-GB/smart-cities/Smart-Cities-Standards-and-Publication/PD-8100-smart-cities-overview/>

British Standards Institute/Ordnance Survey, *City data survey report*,
http://www.bsigroup.com/Documents/BSI_City%20Data%20Report_Singles%20FINAL.pdf

CITIE, Technology, *Innovation and Entrepreneurship Framework*,
<http://citie.org/>

Deloitte, *Smart Cities*,
<https://www2.deloitte.com/content/dam/Deloitte/tr/Documents/public-sector/deloitte-nl-ps-smart-cities-report.pdf>

DIN/DKE, *The German Standardisation Roadmap – Smart City*,
<http://www.din.de/blob/62908/0584b8ddb3764cdac7e855ac3abdf4da/smart-cities-roadmap-en-data.pdf>

European Standardization Organizations, *SSCC-CG Final Report*,
ftp://ftp.cencenelec.eu/EN/EuropeanStandardization/Fields/SmartLiving/City/SSCC-CG_Final_Report-recommendations_Jan_2015.pdf

Hitachi Consulting, *City Data Exchange*,
<https://www.hitachiinsightgroup.com/en-us/pdf/solution-profile/hitachi-solution-profile-city-data-exchange.pdf>

IDC Government Insights, *Smart City Maturity Model – Assessment and Action on the Path to Maturity*,
http://az370354.vo.msecnd.net/publicsector/citynext/whitepapers/IDC%20Government%20Insights%20Smart%20City%20Maturity%20Model_IDC.pdf

IEC, *Orchestrating Infrastructure for Sustainable Smart Cities*,
<http://www.iec.ch/whitepaper/pdf/iecWP-smartcities-LR-en.pdf>

ISO/IEC, *Smart Cities – Preliminary Report*,
http://www.iso.org/iso/smart_cities_report-jtc1.pdf

Smart Cities Council, *Readiness Guide*,
<http://smartcitiescouncil.com/resources/smart-cities-readiness-guide>

The Scottish Cities Alliance, *Smart Cities Maturity Model and Self-Assessment Tool*,
http://static1.squarespace.com/static/53c8d78be4b0c984e42f0c74/t/54d4ce1de4b0b33bf9d15278/1423232541977/Smart+Cities+Maturity+Model+and+Self-Assessment+Tool_Guidance_January+2015_FINAL.pdf%20