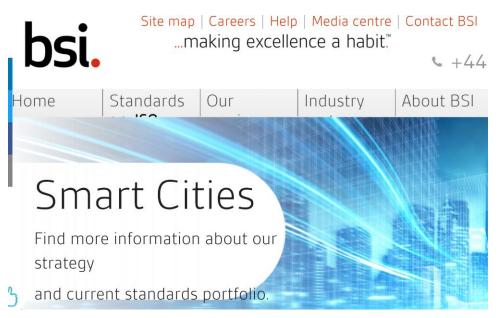
Al for better towns and cities

Ben Hawes Programme director, Benchmark Initiative on responsible use of location data Associate, Connected Places Catapult







Connected Places Catapult

Our mission is To help British businesses address the grand challenges of today to create connected places, fit for the future.

Our vision is for the UK to lead the world in creating cities, towns and places which thrive on their ability to connect people to resources, opportunities, ideas and each other. Where the smooth flow of people, goods, transportation and services, drives economic success, productivity and wellbeing.



Not so easy: Reduced resources Devolution Limited understanding of local digital in central government



Barriers to data sharing

- Poor at sharing data in services that span related industries, e.g. health and social care
- Legal, ethical, governance and accountability issues need to be addressed but **mindset is** hard to change
- How can we best convene the eco-systems to understand new products and services that sharing data could enable?

Needed to fix the plumbing first...



"Artificial Intelligence technologies aim to reproduce or surpass abilities (in computational systems) that would require 'intelligence' if humans were to perform them. These include: learning and adaptation; sensory understanding and interaction; reasoning and planning; optimisation of procedures and parameters; autonomy; creativity; and extracting knowledge and predictions from large, diverse digital data." EPSRC.

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Factors driving AI growth: - new and larger volumes of data - supply of experts with the specific high level skills - availability of increasingly powerful computing capacity

AI for better places

- New analysis of complex problems
- Improved planning
- · Social media monitoring to understand citizens' needs
- Monitoring and management of traffic and air pollution
- Monitoring of infrastructure
- · Faster and more accurate analysis of local economies
- Computer vision analysis of CCTV to identify violations, eg fly-tipping
- Analysis of bulk internet of things data to track weather, sound, movement, streetlighting



Al and data to improve public services

- Cost of deprivation versus cost of interventions
- Loneliness and isolation prediction
- Early identification of families on the edge of crisis
- Identifying the most vulnerable of society to domestic violence for targeted support
- Predicting children who would best benefit from school interventions
- Predictive road maintenance scheduling

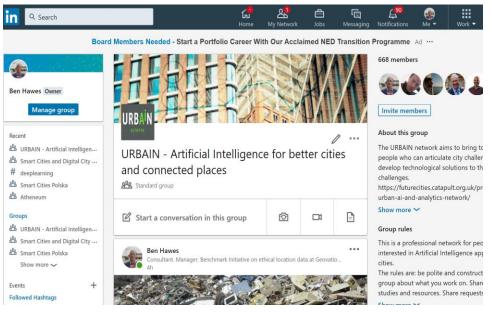
URBAIN: Urban AI and analytics network

- Cities are on a cusp of a future where AI and analytics improves a variety of services and transforms the lives of urban citizens.
- URBAIN is a network to help city service providers to understand and benefit from the latest AI and analytic technologies that UK industry has to offer.

The goal of the URBAIN network is to create new market opportunities through fostering and unifying:

- Confident customers ready to invest time or resources in new products.
- An ecosystem of business offering tried and tested products that deliver real impact to customers or ready to pilot new ones with city authorities.

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Fix the plumbing first...



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Guidance Draft Guidelines for AI procurement

Published 20 September 2019

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Introduction

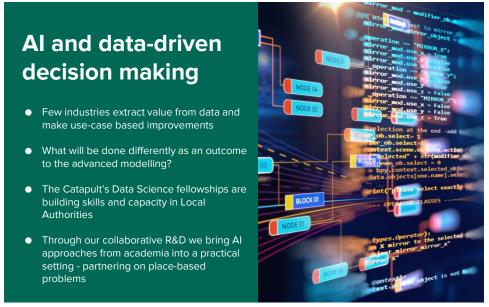
Overview

- Guidelines for AI procurement
- 1. Explore procurement processes that focus on
- the challenge rather than a specific solution2. Define the public benefit of
- using AI while assessing risks

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How these Guidelines were developed

The Guidelines are a collaboration between the Office for AI and the <u>World</u> <u>Economic Forum Centre for the Fourth Industrial Revolution</u>. The authors consulted with stakeholders from industry, academia and government. These Guidelines will be updated, as public sector use of AI evolves, to incorporate new learnings and best practices. This is a living document intended to encourage feedback from practitioners.



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New capabilities, new questions:

- is AI the best way to address a particular challenge?

- public services have a special responsibility for fairness and transparency

- do we have the data and the skills to use AI effectively?

- and to represent the public interest in an AI and data-driven world?



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Mary Kenny: Our future will be increasingly organised by artificial intelligence. Should we fear rule by robots?



Peru McC Sout



Formulating values for AI is hard when humans do not agree

China and the West prioritise different things in algorithms

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An artist's rendering of Toronto's shoreline in 2050. Regulating the future city poses new challenges for different levels of government. Picture Plane/



BIG STORY 10

Asian cities risk stumbling 'zombie-like' towards digital dystopia

Rina Chandran

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of law in Argentina

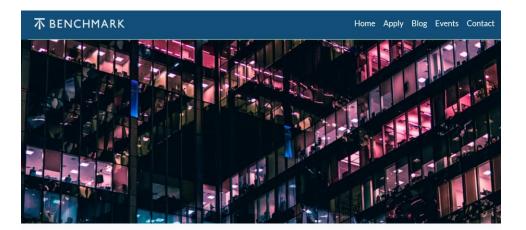
By Juan Manuel del Nido



We are in an AI and data-driven world...

How to stand up for individuals and the public interest?

Does the local public sector need stronger responsibilities and powers to gain value for the public from data, for negotiations with major tech companies?



Ethics and enterprise in a world driven by geospatial data



Ben Hawes Benchmark Team 14 Oct 2019 News

The proliferation of location data is giving businesses and governments cause to deal with new responsibilities.

21/11/2019

Thank you

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