

UBDC Services for Local Authorities

Big Data Workshop for Local Authorities - 12 Nov 2015

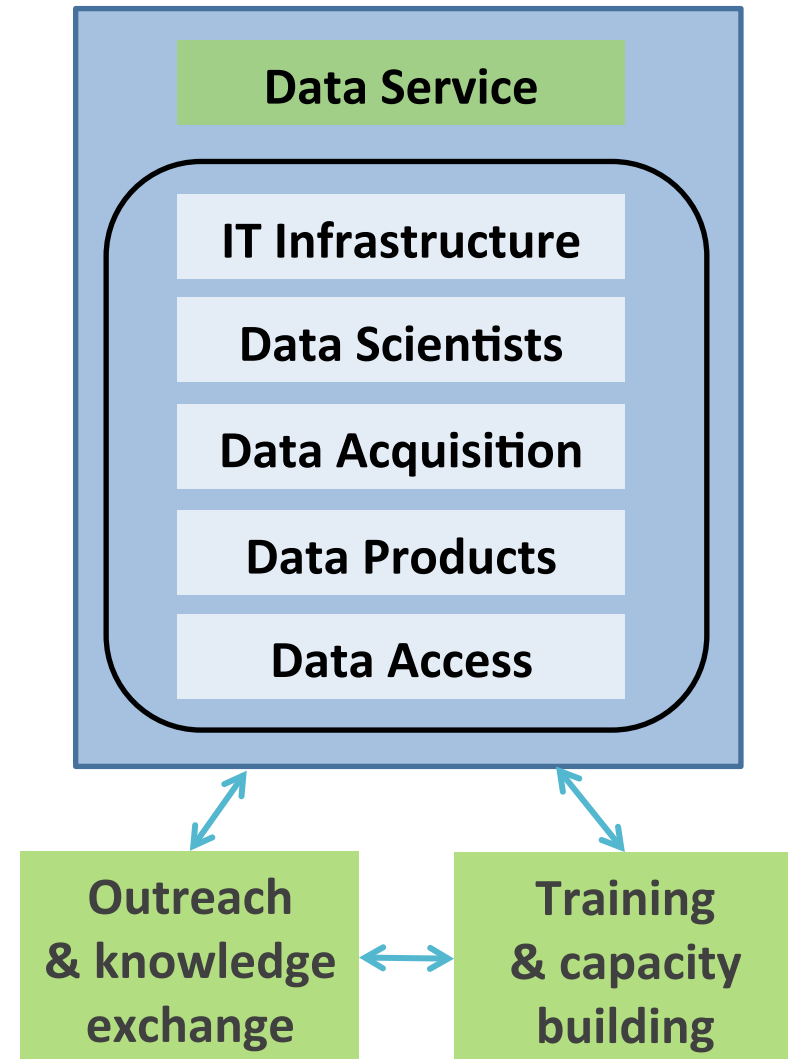
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Urban Big Data Centre

- Big Data as ‘naturally occurring’, not designed for research
 - Legal or practical barriers
 - Analytical challenges
 - Infrastructure requirements

Sensor systems	Environmental, water, transportation, building management systems, CCTV, Internet of Things
User-Generated Content	Participatory sensing systems, social media, GPS, online social networks
Admin've Data	Open administrative data (aggregate); confidential person-level microdata
Private Sector Data	Customer transactions; business web use (e.g. adverts),
Contextual	Media - text, images, sound recordings; weather forecast
Hybrid or synthetic Data	Linked data including survey-sensor, census-administrative records

UBDC

- “Promoting the use of innovative methods and complex urban data to address challenges facing cities”
- Services to connect *researchers* to *data* for *policy-relevant research*



Confidential data – Data Access

- UBDC does not **acquire** personal data from administrative systems but it does help researchers negotiate **access** to de-identified or anonymised data
- Shared infrastructure – secure data service
 - Secure computing environment
 - Linkage service
 - Monitoring of use
 - Output screening
 - Data scientist support

Accessing the service

- Independent *Research Approvals Committee*
 - Scientific merit
 - Potential for impact
 - Value for money
 - Fit with UBDC mission
 - Privacy and ethics
 - Feasibility
 - Researcher approvals for confidential data
- Support in application process
- Researchers responsible for analysis, UBDC provides support

Training and capacity building

- Training to support skills development- both introductory and more specialised applications courses (focusing on R and on GIS) ran in summer 2015 – planning more in 2016. Interested to know what training would be most useful to LA partners
- Co produced research and knowledge exchange activity – learning by doing projects together
- SASnet – from Jan 2016 : additional seminars, training workshops and short term problem focused fellowships

Impacts and knowledge exchange

- Developing memoranda of understanding – first one with Renfrewshire Council, another under discussion with Glasgow – sharing data and expertise
- Joint work on making better use of bid data generated through e.g. Future Cities demonstrator
- Opportunities opened out by potential uses of complex data, including protected and administrative data
- Joint event with Scottish Government on predictive analytics



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