SMART APPROACH. BRIGHT FUTURE.

Smart City Commission Data Workshop Update

Wednesday 23rd September 2015



























THE TASK:

#smartbrum

Instructed by the Smart City Commission to develop a Briefing Paper

Methodology:

- Engage key Commission members in a Working Group to define the parameters of the data workshop
- Determine focus and theme
- Identify stakeholders and data holders

Anticipated Outcomes:

- Enhanced intelligence to move Birmingham forward as a City Open by Default
- Insights into how innovative solutions can support service engagement
- Information for smarter, more efficient and effective service delivery

SMART APPROACH. BRIGHT FUTURE.

Birmingham Smart City Data Working Group

Held on: 16th July 2015

Attended by:

- Digital Birmingham, Birmingham City Council
- Future Cities Catapult
- University of Birmingham
- Connected Digital Economy Catapult
- Birmingham City University

Agreed focus of data workshop

- 'A day in the life' of an archetypal citizen (retired, health issues, etc.)
- Identifying challenges/pains points
- Service engagement
- Data journey





SMART APPROACH. BRIGHT FUTURE.

Birmingham Smart City Data Workshop

Held on: Tuesday 15 September 2015

Hosted by: Impact Hub Birmingham

Facilitated by: Robin Daniels, Redpill Group



Redpill Group
INSIGHT . INNOVATION . IMPACT







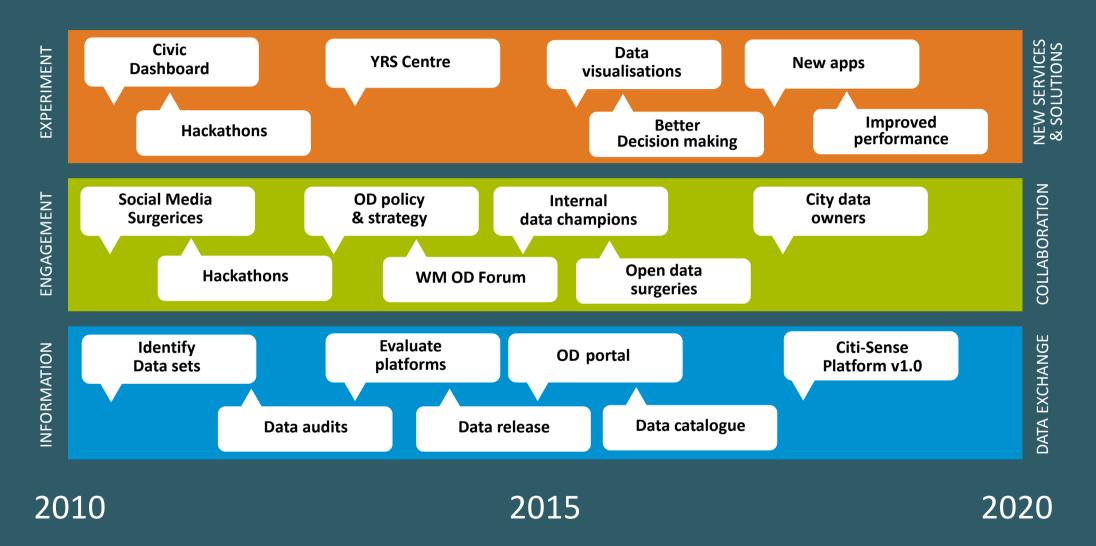




Time	Agenda Item	Lead
10.20	Arrival	
	Refreshments	
10.30	Welcome & Introductions	Chair: Raj Mack, Birmingham City Council
10.40	Introduction to the Smart City Data Workshop - Outcomes from today session	Facilitator: Robin Daniels, Redpill Group
	Setting the Data Scene - Vision, Operational Framework, Data Journey Mapping, etc. Smart City East Birmingham Demonstrator - FCC, City4Age, IoT & ESIF Birmingham Speaks Feedback - Open Data for Birmingham	Stuart Lester, Nicola Bryant and Nikki Spencer, Birmingham City Council
11.10	Atos Case Study Overview Blaenau Gwent County Borough Council/Public Sector partners – Multi Agency Data Sharing: Vulnerability Intelligence Project (VIS) - An Operational Practitioners View	Jim White, Head of Local Public Services, Matthew Glass and Mark Wilson, Atos
11.30	Tackling the challenges of personal and proprietary data; trust, privacy and security	Robin Daniels, representing Connected Digital Economy Catapult
11.50	'A Day in the Life' use case - Challenges & Pain Points? - Service Engagement - Data Interactions - Difficulty Vs Impact Matrix - Data Operationalization who, where & accessibility	ALL Facilitated by Robin Daniels Discussion and data journey engagement
12.30	Working Lunch available	
13.20	Next Steps Key points to be fed into the Smart City Commission Briefing Paper	Robin Daniels and Nicola Bryant, Birmingham City Council
13.50	AOB	
14.00	Close	



Our data story is unfolding



TRANSPORT HEALTH ENERGY

Making it real - Data journey and mapping

"There is still more data that can be released, mores uses of data that can be demonstrated and more that can be done to improve data quality and literacy." Open Data Roadmap for the UK - Open Data Institute, 2015

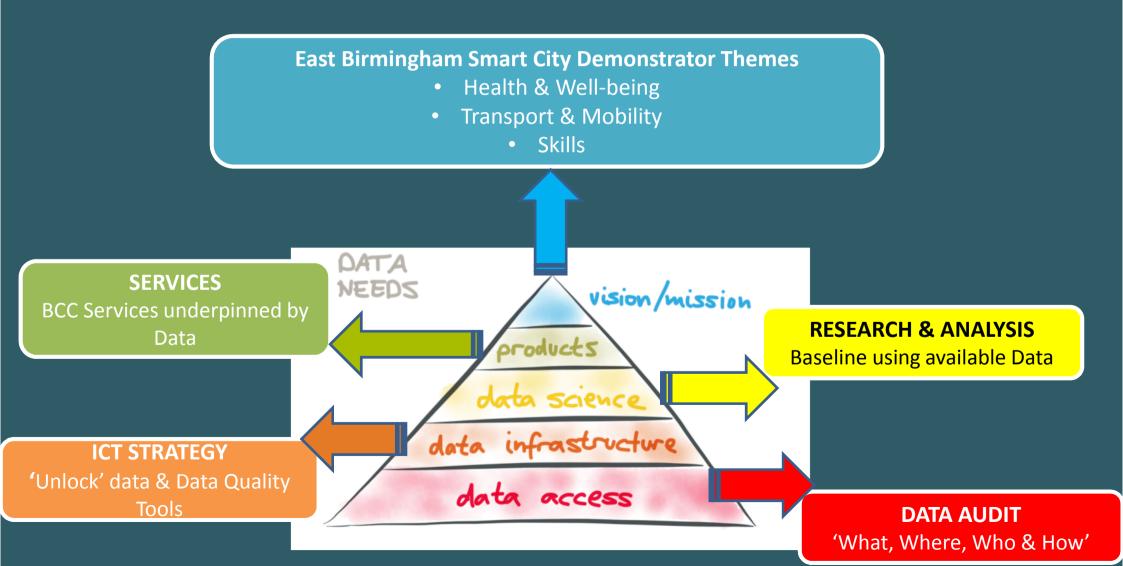
- Shape around priorities & thinking for demonstrator
- Whole journey approach
- Day in the life scenarios (needs, wants, challenges

and pain points)

- Data opportunities & insights
 - What data as is
 - What if data- what difference
 - Who has what & who wants what?
- Defining & shaping our data journey with partners end goal and vision



"East Birmingham Smart City Demonstrator will enable citizens to pull, access and manipulate information that helps shape their lifestyles"

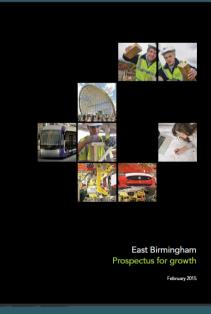




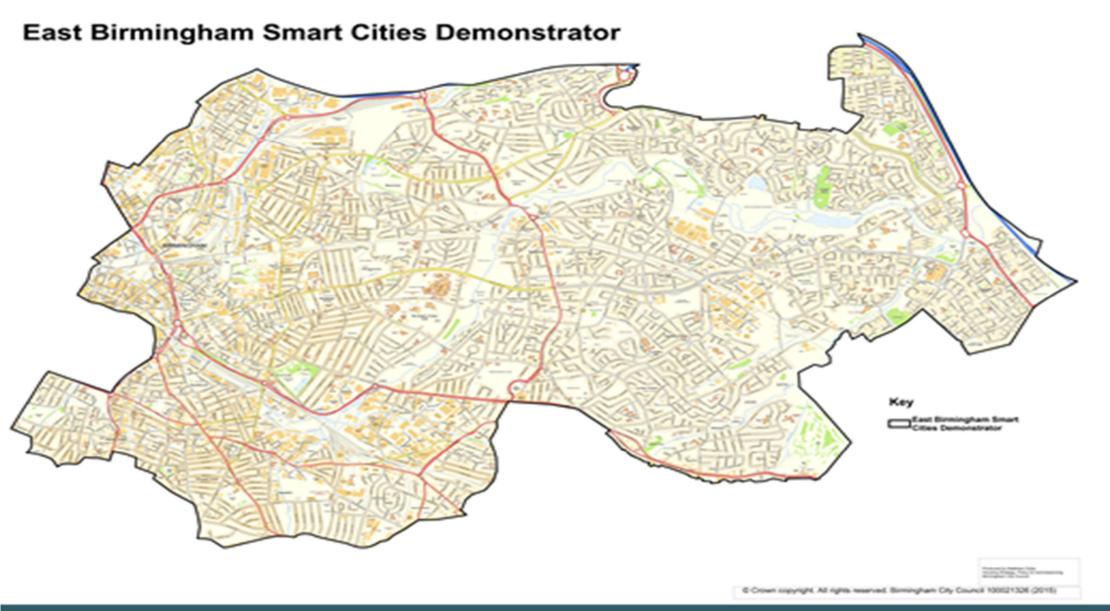
"The Birmingham Smart City Commission has committed to support a Smart City spatial demonstrator in East Birmingham

The aim is to embed Smart City principles (release, use and access to data, integration and use of digital technologies; and strong citizen / business engagement) to address the region's growth challenges and reduce inequalities









CHALLENGE: Low skills; high unemployment; large inequalities – health, social & economic

OPPORTUNITIES: High proportion of core employment and untapped potential of place – increase opportunity for people to connect to education, training, jobs and social opportunities to contribute to a better and more sustainable way of life

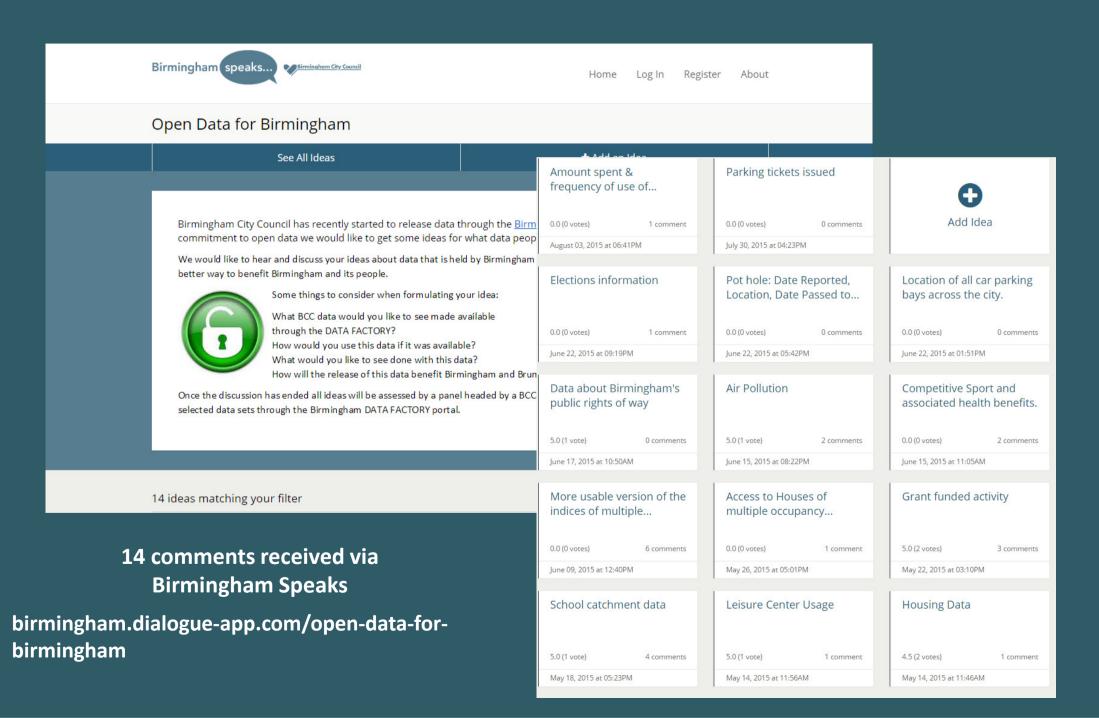
PRIORITIES: Quality of place; health & mobility

AMBITION

Our aim for East Birmingham is to change perceptions of the area, the way people move around the area and the health and life chances of people that live there"



Birmingham Speaks...



Atos Case Study

Positioning paper



Supporting vulnerable citizens

with multi-agency collaboration and data sharing



Atos / SME innovation supports Local Authorities, Police and Health Organisations to deliver citizen centric services for the potentially vulnerable

Blaenau Gwent County Borough Council/Public Sector partners

Multi Agency Data Sharing: Vulnerability Intelligence Project (VIS)





Vulnerability Intelligence Project

Scope of the Project

- ▶ To create a sustainable 'vulnerable information sharing hub' which provides the collation and presentation of data and information about vulnerable people
- To prove that sharing data was possible and would support partner agencies
 - An independent review showed this was not be a barrier
- Use data and information to provide key analysis and insight for strategic decision makers
- To enable public service organisations operating across regional boundaries to become more proactive and effective
- Delivered to an accelerated programme: 18 months
 - Managed as a co-designed, joint working initiative across five organisations
 - It featured use of an existing software application (Infoshare SME)
 - Agile methodologies were core











Five organisations extracted data from their systems

Containing demographic and contextual data considered relevant to vulnerability ~230k records

Data Provider	Data Source	Description of data	Number of Records
Blaenau Gwent CBC		Adults and Children in contact with Social Care in the last five years	32,501
Caerphilly CBC	Social Care system extract (case mgmt)		67,816
Torfaen CBC			49,646
Aneurin Bevan HB	Data warehouse extract	Adults and Children in Acute Care in the last five years	13,076
Gwent Police	Data sharing project extract	Victims of crime during previous six months	70,045







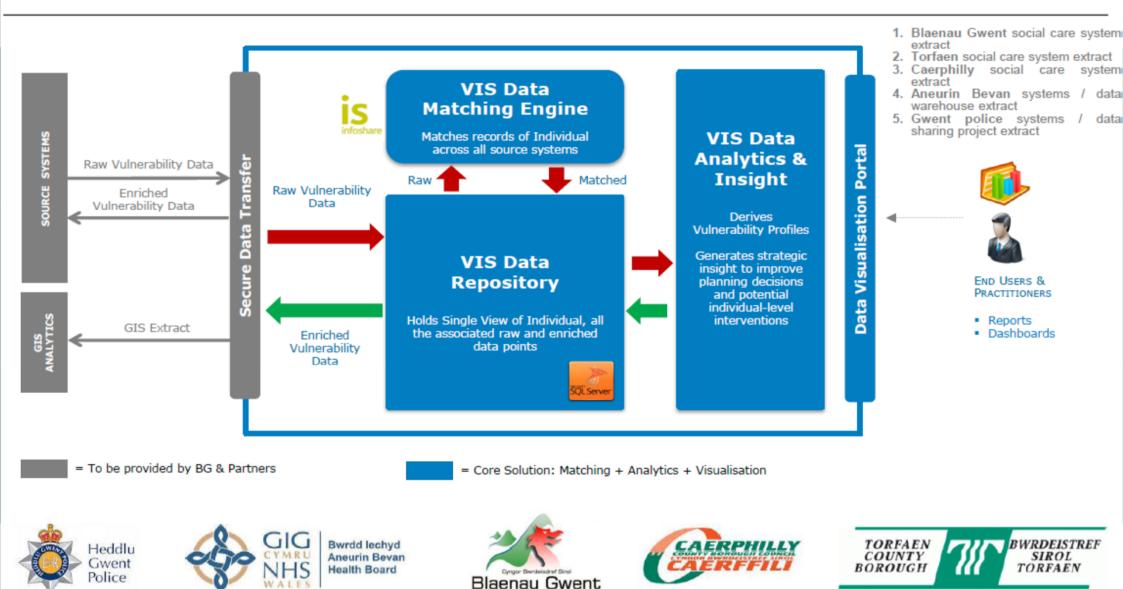






Example of Vulnerability Intelligence Service

High-Level Solution Overview



County Borough Council



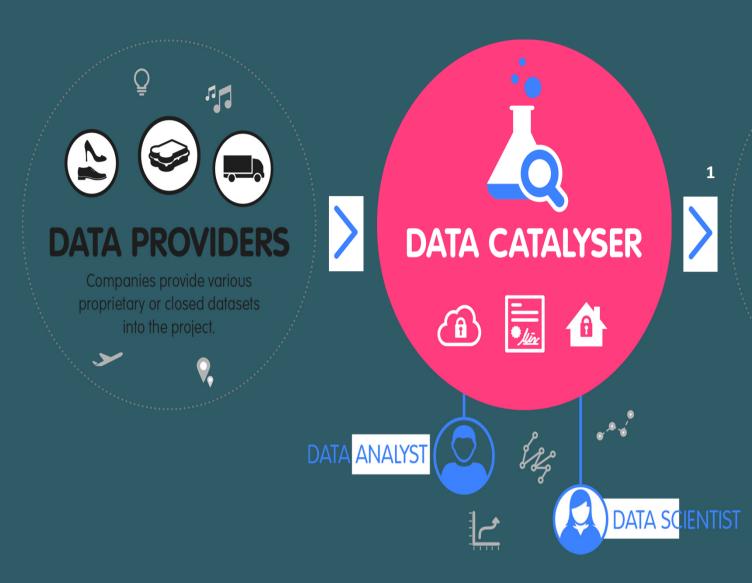
Tackling the challenges of personal and proprietary data; trust, privacy and security

The commercial benefits of a personal data sharing eco-system

- Personal data flows are the nervous system of any consumer facing business, they trigger the muscles to move when acquisition, cross-sell or churn events are identified.
 - As data becomes more abundant, this will be ever more critical to how "core businesses" compete in the future
 - Being timely and relevant reduces waste and cost, "50% of my marketing budget is wasted...." etc.
- Above all, it enables a better customer experience because organisations can be more responsive to their customers needs

Data Catalyser Approach







New insights or algorithms may be discovered creating the potential for new services, applications or products.

- 1 Convene Data Providers
- Provide project framework
- Security is made available through a set of specific controls
- A set of legal contracts defines the rules for all participants of the platform
- Access to best of breed Insight Producers through a selection process
 - Overall, a data science solution built on enterprise grade tech



The opportunity is horizontal...

Vertical = Limited use cases eg fraud



<u>Horizontal = Many use cases</u>

For example:

- Mobile phone data to alert social care if patient is unexpectedly idle
- Shopping data maybe used to inform healthcare advice
- Bank data to inform targeting of retail offers e.g "bought broadband 12 months ago...so"





Breaking down the barriers

Building Trust: Need to empower the customer:

Ethics: Recognise & respect the consumer's wishes Give tools/dashboards to enable real control

Compliance: Verify orgs are sticking to the rules

Communication: Kitemark to show whose in the ethical sharing club

Removing Friction: Need to solve three sources of friction:

Technical: How to define and physically transfer the data

Legal: How to establish the users identity and assert permission

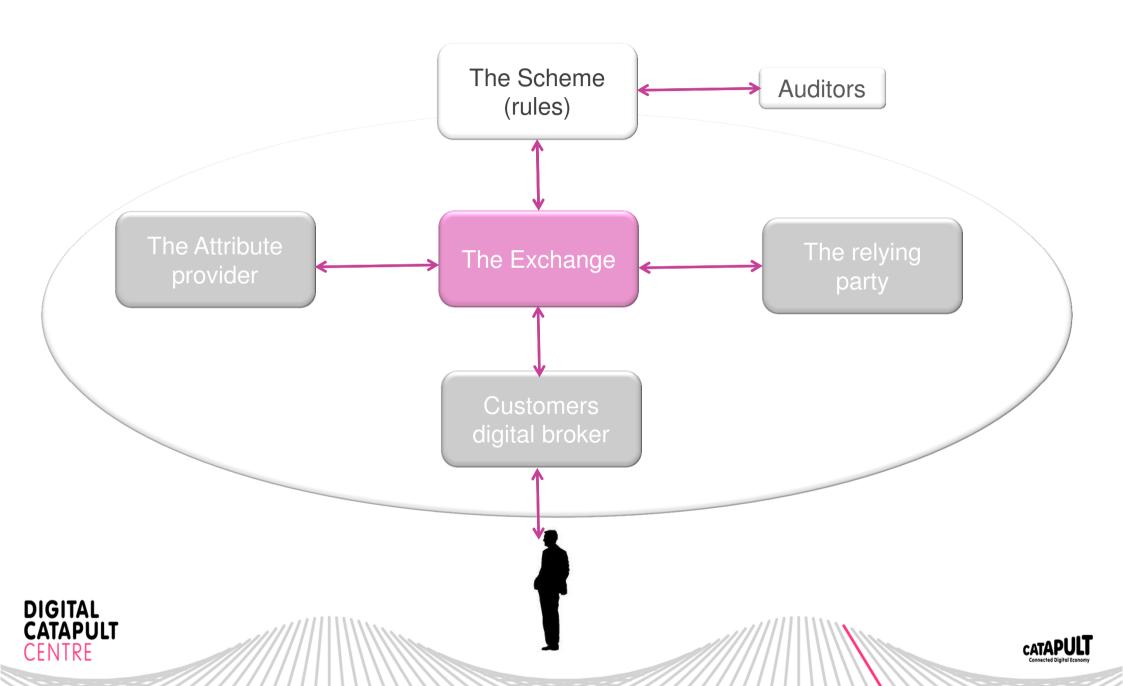
within each silo'd system

Commercial: How to agree the price of access/transfer



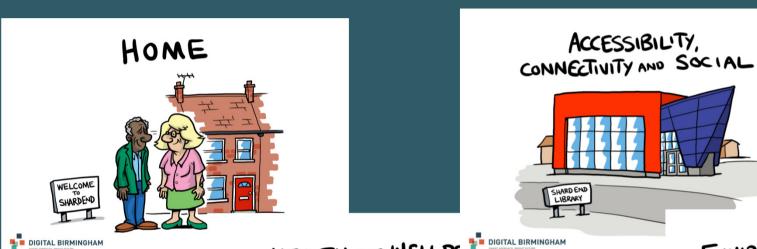


Data Sharing & Trust Frameworks



The Use Case

Meet Jim and Barbara Smith...







The Insights

- How citizens connect with GPs
- OAP/Dementia Support
- Dial-a-ride minibus pick up service
- Text/phone reminders for appointments
- Holistic approach
- Whole records focused on person not service
- GP appointment service at home/online
- Panic buttons/virtual care
- Real time travel info
- Services on demand/Just in time services
- Transport accessibility /intelligent mobility decisions
- Intelligent/joined up appointment systems



- Core principles need to be agreed
- Power & control to the individual
- Require a concrete need to focus activity
- Focus on prevention & intervention opportunities
- Prescriptive about data needs
- Data quality = KING
- Use of real time data
- Who's prepared to pay to procure innovation







Next Steps

- Briefing Paper submission
- Data Mapping Audit
- Identify the relevant data sets
- Organisations to engage partners to generate data
- Access/availability of data sets
- Build on existing data sharing agreements
- Define the activities

Small focussed activities will create the change and aid scalability and replicability