

B2G Data Exchange Workshop

This report is the outcome of a workshop between business and government held on **7 March 2017** and facilitated by **Deloitte**. The workshop explored what data sources business and government would find valuable for business operations, what data sources are available and what open data projects are being planned.

Expectations of participants

Expectations	Ultimate goal of partnership
<ul style="list-style-type: none"> ▪ Understand areas of collaboration and synergies ▪ Clarity around available data, sharing and process, modalities for sharing info ▪ Understanding if provincial data strategy includes assisting businesses in combating financial crime ▪ Develop understanding of strategic city needs and business aligned opportunities ▪ How business can participate within the legal and regulatory frameworks ▪ Balance of social benefit vs commercial gain ▪ Fill data gaps and reduce the cost of data gathering ▪ What support business can provide to government ▪ To find data sharing solutions that are possible within the current constraints that could have both societal and commercial opportunity ▪ Combat financial crime, terrorism, etc. - how can we make this more efficient - route to resolving the financial industry's critical master data issues ▪ How to standardise data from diverse legacy systems. 	<ul style="list-style-type: none"> ▪ Maximise use of data for social and economic benefit, better decision making, cost saving ▪ Mutual benefits for partners i.e. data sharing and data analysis ▪ To streamline processes for better service delivery and add value to citizens/clients ▪ Identify gaps where needs in one area can be addressed with surplus in another area ▪ Support firms to be competitive, improve business efficiencies, grow our economy ▪ To generate new revenue to create shareholder value and create jobs, whilst offering a valuable consumer offering ▪ Accelerate government initiatives with the help of private sector expertise ▪ Keep up with competitor countries ▪ Automated data integration and sharing of information.

Activities to effectuate the partnership

Top Quick Wins

<ol style="list-style-type: none"> 1. Create a register of those parties who want to play 2. Pilot projects i.e relating to mobility and transport data 3. Appointing a steering committee to collate available data, develop terms of reference, framework and monitoring and evaluation 4. Index of available data sources 5. Virtual data library 	<ol style="list-style-type: none"> 6. Formulise partnership 7. Get agreements in place with businesses i.e. MOU sooner rather than later 8. Contact points be identified (business and government) 9. Agreed standards 10. Set up data discovery facilities.
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	Quick Wins	Short Term	Long Term
Engagement	<ul style="list-style-type: none"> ▪ Appointing a steering committee to collate available data, develop terms of reference, framework and monitoring and evaluation Register of those parties who want to play ▪ Pilot projects i.e relating to mobility and transport data ▪ Contact points be identified (business and government) ▪ Formalise partnership ▪ Get agreements in place with businesses ▪ Establish key relationships, stakeholder mapping ▪ Accelerate to participate in ERLN Data Technical working group ▪ Clearly defined points of interface with government - i.e. who do we contact for credible government data? 	<ul style="list-style-type: none"> ▪ Business to submit proposal to government on data needs by sector ▪ Identify specific business problems to be addressed ▪ Project X competition for use of government data ▪ Conduct 1 pilot project that will contribute value to government ▪ Pilot project on employment data and demand for labour ▪ Collaborate on project to ensure accurate address detail ▪ Clarification on scope of what we are looking to share ▪ A follow up facilitated workshop where the pilot projects are established, workgroups formalised and actions identified 	<ul style="list-style-type: none"> ▪ Partner with government around making their open data accessible to broader society ▪ Define lead agency in government ▪ Data mashups ▪ Collaborate on project to ensure correct address data in annual tax returns for employee's main place of work ▪ Co-create an actionable project to locate all verified government open data sets in a single location - as a PPP based on unselfish sharing of expertise as opposed to commercial interest ▪ Cut red tape
Tech		<ul style="list-style-type: none"> ▪ Virtual data portal - list of what's available? ▪ Centralised government data portal - perhaps via StatsSA ▪ Central CIV database ▪ Government to procure an app for visualisation of government data ▪ Draw on API technology to pull address data from firm HR systems for input into employer PAYE annual returns to ensure accurate address data for employers main place of work 	<ul style="list-style-type: none"> • A data platform to review data needs, availability and risks for service delivery • Knowledge of data platforms for official data and hierarchy understanding

	Quick Wins	Short Term	Long Term
Framework	<ul style="list-style-type: none"> Agreed standards Shared methodologies and standards 	<ul style="list-style-type: none"> Shared data strategies A standard Identify specific data, specific use/access = specific benefit Single harmonised logical data model across key data themes Requirements analysis Agree a uniform way of collecting - such as we all use F for female 	<ul style="list-style-type: none"> Improved understanding of knowledge indicators Integrate customer level data sets and create the governance framework for such to create compelling value proposition
Data	<ul style="list-style-type: none"> Index of available data sources Virtual data library Create matrix of available data, with who to contact 	<ul style="list-style-type: none"> Agreement on matched data sources (pilot projects) 	

Workshop Outcomes

	Government	Business – see page 5/6 for a response to the requests below from the City of Cape Town and the Data Technical Working Group
<p>Desired Value</p> <p><i>What data assets/technologies do you seek to leverage from government or business?</i></p>	<p><u>Data:</u></p> <ul style="list-style-type: none"> ▪ <u>Telecoms</u> - Mobile phone data, internet data, movement of people? ▪ <u>Banks</u> - ATM withdrawals, Transactional data, mortgage data ▪ Hospitality data ▪ <u>Retailer data</u> - products/consumers/location ▪ Export data from companies, quality trade data ▪ Transport data route, logistics companies data ▪ Address data: head office effect, employment at business location ▪ Price data? ▪ Open source ▪ Demand for labour ▪ Data analytics ▪ Data fusion ▪ Open data platforms ▪ Analytic software (efficient) ▪ Multiple users per license technology ▪ FIC to collaborate on cyber crime 	<p><u>Data:</u></p> <ul style="list-style-type: none"> ▪ Financial crime data - short and validation ▪ Traffic offences ▪ Tenders ▪ Births ▪ Deaths ▪ Crime data ▪ Service delivery data ▪ Commuter origin and termination ▪ Deeds data ▪ Broadband data ▪ Health stats by location ▪ Government finances and spending ▪ Spatial data and projections ▪ Citizen master data; customer info validation ▪ Individual location of user postcode ▪ Employer information ▪ Validation for artefacts .g. ID, passport, drivers license ▪ Access to understand data systems ▪ API access/services ▪ Must be available across National ▪ Machine usable ▪ Availability of data sets ▪ Collaborate on common problems ▪ Methodology

Desired Value - Business Data Requested	City of Cape Town Open Data Response	Government Technical Advisory Centre - National Treasury Response – please see separate document on data sources and weblinks
Financial crime data - short and validation	Not City Data	Not exactly sure about which kind of data is needed. Financial Intelligence Centre is a good option to approach, but need more detail about the nature of data first. https://www.fic.gov.za/Pages/Home.aspx
Traffic offences	City Data, might have privacy issues (POPI)	eNatis: http://www.enatis.com/
Tenders	Available on Open Data portal	Have listed sources of Green Gazette, Open Gazettes and Treasury's Office of the Chief Procurement Officer
Births	Issues with Home Affairs	Home Affairs has announced a partnership with Stats SA in November 2016 to make their births and deaths register electronic
Deaths	Issues with Home Affairs	Home Affairs has announced a partnership with Stats SA in November 2016 to make their births and deaths register electronic
Crime data	SAPS (not City data)	Have listed source – SAPS. Stats SA is also partnering with SAPS to improve the statistical integrity of the data. Can also find reports on Stats SA website – have listed source.
Service delivery data	Please be more specific – the City has lots of service delivery data some of it is available on the open data portal	I have listed various sources: Department of Performance Monitoring and Evaluation, SALGA's Municipal Barometer etc. Also need more specifics about what data is sought.
Commuter origin and termination	MyCiti Data	Trains, buses, taxis? And is the data needed in terms of use of these modes of transport or where the bus stops, taxi stops, etc. are?
Deeds data	Not City Data	Have listed Deeds Office source. However, there are also a range of service providers who package the Deeds Office data in ways that make more sense for the end user's needs and who sell those packaged reports – e.g. Windeed.
Broadband data	City has data that pertains to its WIFI network	SA Connect undertook a project to map the fibre networks in South Africa. However, I can't find the website URL. I think that since the project was commissioned, the information has not been kept up to date, which is a pity.
Health stats by location	Which health stats (most probably Province and National data)	Which health stats specifically? Have listed National Department of Health and Stats SA sources of health data.
Government finances and spending	City Budget data is available on the portal	Have listed National Treasury including Municipal Money website links
Spatial data and projections	Which spatial data and projections? City is already sharing some spatial data and projections	Which spatial data? Have listed NGI and CSIR sources of spatial data.

Citizen master data; customer info validation	City has property data, but POPI issues exists	
Individual location of user postcode	Not sure what is meant with this	Not sure what is meant with this – if this is a GIS type request – there are shape files that can be shared.
Employer information	Not sure what is meant with this	Not sure what is meant with this. There is BAS data for government employees, but that will be subject to POPI regulations.
Validation for artefacts: e.g. ID, passport, drivers license	Home affairs (ID, passport); Drivers licence - think it resides with Province	Home Affairs
Access to understand data systems	Not sure what is meant with this	Not sure what is meant with this. If training or sensitization to what data is available and how to make use of it is needed, there are different kinds of options of workshops that could be designed or formal training that exists.
API access/services	We are moving in this direction, if there is demand from business it could potentially be fast tracked	National Treasury has Municipal Money API. Have listed source
Must be available across National	City of Cape Town only shares data that pertains to the City	Stats SA data is
Machine usable	We make all our data on the portal available in machine readable format	Agree that is preferable
Availability of data sets	Open data portal: http://opendata.capetown.gov.za	Have listed a lot of sources – see ERLN List of Data Sources. There’s a lot of data available that perhaps people are not even aware is available.
Collaborate on common problems		Great, yes please

	Government	Business
<p>Value Offer – what can you offer</p> <p><i>What data sets are currently available and what data/technologies do we offer to government/business to support their operations?</i></p>	<p><u>Data:</u></p> <ul style="list-style-type: none"> ▪ Tax collection ▪ Crime ▪ Labour ▪ Demographic ▪ Performance data ▪ Health ▪ Spatial data ▪ Macro-economic and socio economic data ▪ Aerial imagery ▪ City building plan data ▪ Land use data ▪ City valuation data ▪ Property related data ▪ Airport/visitor forecast data ▪ Import/export data by HS code ▪ Environmental data ▪ City mapper – residential erf size, ownership etc ▪ Flyover data – agri land per cadastral (what’s on it) ▪ Anonymous UIF – employment data ▪ Demographics – public data explorer ▪ Crop data (water intensity) ▪ Transport data ▪ Location data ▪ Business turnover ▪ Budget data and expenditure data ▪ Service requests ▪ Contract data ▪ Household utility data ▪ Open data portal ▪ Location framework ▪ Standards 	<p><u>Data:</u></p> <ul style="list-style-type: none"> ▪ Data in support of fin crime ▪ Claims database (SAIA) ▪ Employment and salary? ▪ Data sharing to influence policy ie health, savings ▪ Cyber security ▪ Skills and training ▪ Graduate programs ▪ Data centre ▪ Block chain ▪ API generating capabilities - weather API, spatial data API ▪ Feed data to government ▪ Business adopt municipality program ▪ Catastrophe management e.g. hail ▪ Analytic capability ▪ Disaster recovery ▪ Share behavioural data ▪ Access to users – distribution ▪ Survey tool at scale (Media24) ▪ JV’s revenue share on new products ▪ Inform planning ▪ Employ resources to improve quality ▪ Pay for validation services ▪ Improve government data quality – sharing ▪ Contribute to legislation that protects the data ▪ Aggregated statistics about people ▪ Partake in addressing planning

	Government	Business
<p>Things We Need in Place</p> <p><i>What do we need to have in place in order to deliver value to government or business?</i></p>	<ul style="list-style-type: none"> ▪ <u>Culture</u>: useable data, agreements to share data, disseminate to lowest level ▪ <u>Sharing</u>: system for sharing, safe data sharing ▪ <u>Skills</u>: data analytic techies, Improve skills to provide data ▪ <u>Tech</u>: API access, data systems – hardware ▪ <u>Framework</u>: standards, proper need analysis, data management plan per sector, real time access of regular updates, harmonised data model ▪ <u>Data</u>: need to spatialise data, collect data in more meaningful way, statistical regions/boundaries ▪ <u>Engagement</u>: breakfast briefings, clear communication to business 	<ul style="list-style-type: none"> ▪ <u>Culture</u>: remove politics from data ▪ <u>Sharing</u>: agree on what we can share ▪ <u>Skills</u>: Program management ▪ <u>Tech</u>: Tech/data exchange/lake, mechanism to share data/tech, develop apps, API/portal ▪ <u>Framework</u>: guidelines around how it can be used, clear definition of what is allowed to be shared, data format standardisation and glossary, enabling policy framework, classification and taxonomies, sharing framework, how to deal with compliance, understand mobile info policies ▪ <u>Engagement</u>: working group, clear points of interface, C level interaction
<p>Created Value</p> <p><i>What are the key success factors?</i></p> <p><i>What might get in the way?</i></p>	<p><u>Key Success Factors:</u></p> <ul style="list-style-type: none"> ▪ Common understanding ▪ Automation systems ▪ G → B agreement framework ▪ Willingness to partner ▪ Scope of agreement structure ▪ Data sharing culture ▪ Matching of public and private data projects ▪ Standards ▪ Clear communication <p><u>Constraints:</u></p> <ul style="list-style-type: none"> ▪ Expose individuals – can be targeted ▪ Bureaucracy RED TAPE ▪ Over-focus on process/bureaucracy ▪ Lack of trust - stereotypes of government and business ▪ Inadequate attention to anonymization ▪ Protection of personal data being compromised 	<p><u>Key Success Factors:</u></p> <ul style="list-style-type: none"> ▪ Customer buy-in ▪ Efficiency improvements ▪ Regulations ▪ New apps ▪ Automation ▪ Data being used ▪ Improved service delivery ▪ Build trust ▪ Concrete engagement ▪ Define achievable goals and link to plan <p><u>Constraints:</u></p> <ul style="list-style-type: none"> ▪ Politics ▪ Risks – fraud, cyber security, reputational ▪ High cost ▪ Violate rights ▪ Technical issues (systems) ▪ Fear of losing competitive advantage