



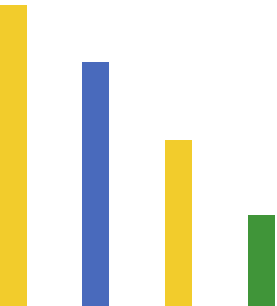
Data & AI: SMME Opportunities in the Platform Economy

GovTech 2023

Dr Sandile Mbatha

DATE: 11 Sept 2023

How does your chocolate taste?



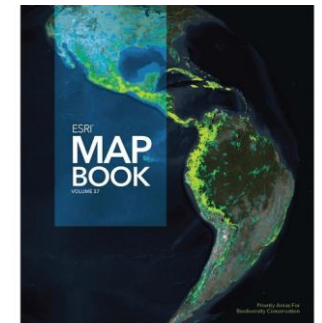


Strategic intent



www.strathub.durban.gov.za

- To provide city leadership, officials, and communities with access to tools that support insight-driven policy and strategic decision-making.
- Supports eThekweni's journey of building a data-driven culture where decisions are based on insight and not instinct.
- Positions data as critical infrastructure for:
 - Improved operational efficiencies
 - Improved service delivery
 - Targeted resource allocation
- Supports a responsive city that promotes co-governance.





3-Tiered Approach



www.strathub.durban.gov.za



Data Visualisation

Geospatial / Non geospatial



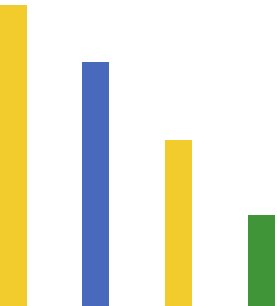
Cloud Data Warehousing

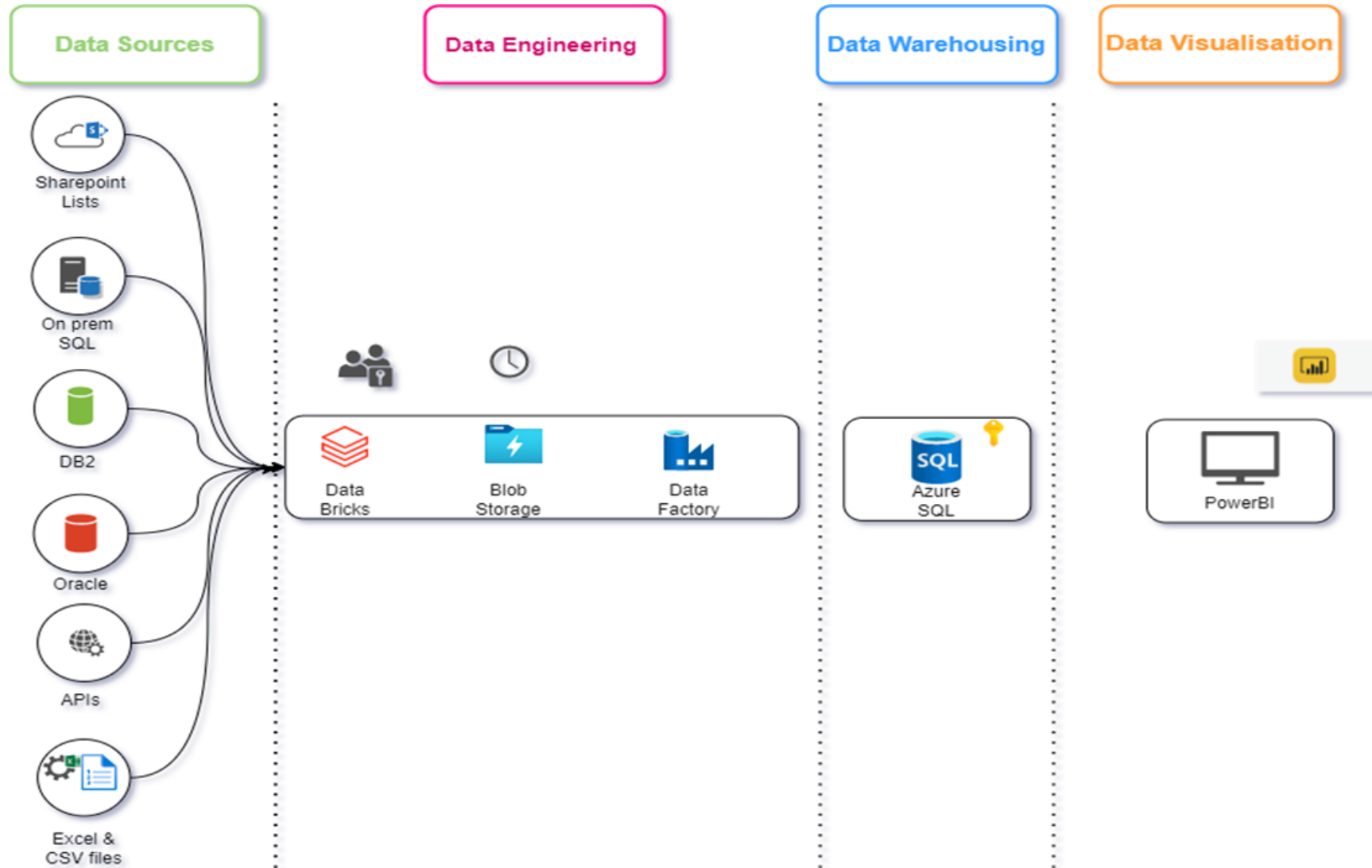
Data hosting, Data visualisation ready and modelled datasets, Data security



Digitisation / Automation

Web forms, data automation





eThekweni Road Crashes Dashboard

eThekweni Flood Impact Dashboard

Human Capital Dashboard

Social Media Sentiment Analysis Dashboard

Ward Profiles Dashboard

Catalytic Projects Dashboard

eThekweni Service Provider Dashboard

Property Trends Dashboard

eThekweni Inventory Dashboard

eThekweni State of Safety Dashboard













Liveability Index

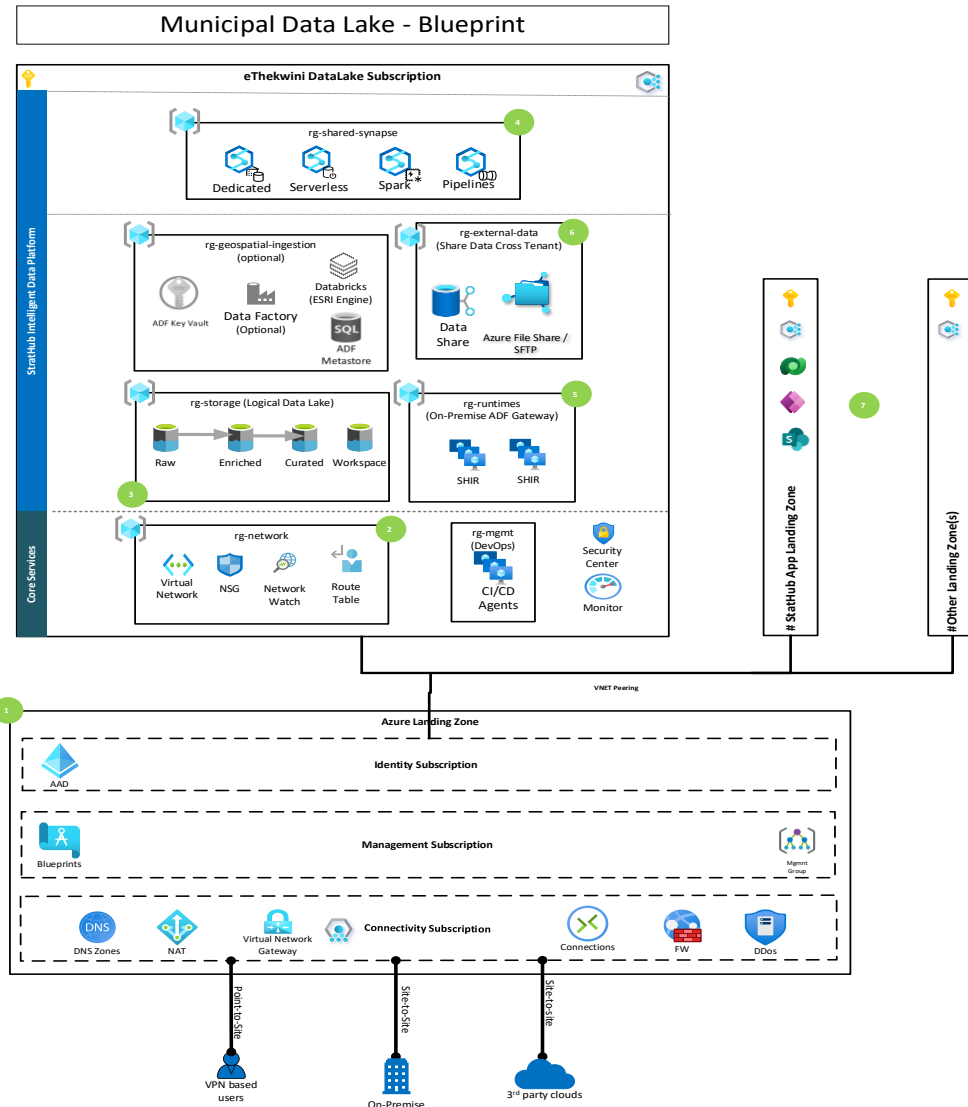
eThekweni Ward GDPs

Explore our Dashboards



Here we host a series of dashboards that provide insights on various functions and operations of the municipality. We have provided differentiated access to the dashboards. Some are primarily for internal use (eThekweni Municipality officials) and others are available to the public. Making these tools available to the public supports our objective of becoming a responsive city and promote co-governance. We want to improve citizen engagement and provide our communities with evidence-based state of the world upon which they can base their own decisions. Evidence-based participatory governance improves our communities' ability to make decisions, contribute meaningfully to political processes and hold us accountable.

 <p>eThekweni Road Crashes Dashboard eThekweni Road Crashes dashboard provides a statistical and spatialized context of road...</p> <p>Explore</p>	 <p>eThekweni Municipality Flood Impact Dashboard This dashboard provided real-time reporting during the April and May 2022 flooding disaster.</p> <p>Explore</p>	 <p>eThekweni State of Safety One of eThekweni's key strategic imperatives is to become a safer city. The availability of high...</p> <p>Explore</p>	 <p>eThekweni Human Capital Dashboard The human capital dashboard provides insights on critical trends such as staff retention...</p> <p>Explore</p>
 <p>eThekweni Social Sentiments Dashboard The city through this dashboard can acquire, identify, organize, and analyse public sentiments...</p> <p>Explore</p>	 <p>eThekweni Ward Profiles Dashboard This ward profiles dashboard provides detailed socio-economic information for each...</p> <p>Explore</p>	 <p>eThekweni Catalytic Projects Dashboard This dashboard maps Catalytic projects by region and provides information on the number of...</p> <p>Explore</p>	 <p>eThekweni Property Trends Dashboard On this dashboard we analyse residential property market trends along the C3 corridor...</p> <p>Explore</p>
 <p>eThekweni Stores Inventory Dashboard The purpose of this dashboard is to increase efficiencies around stock management and critical...</p> <p>Explore</p>	 <p>eThekweni Service Provider Dashboard eThekweni conducts its business through the support of thousands of service providers...</p> <p>Explore</p>	 <p>eThekweni Spatialised Economic Analysis... The Spatialised Economic Analysis dashboard is a platform where users can interact with...</p> <p>Explore</p>	 <p>eThekweni Ward GDPs Dashboard The eThekweni Ward GDP dashboard provides an analysis of economic performance data...</p> <p>Explore</p>





Digitization & Automation



Health Inspections



Environmental Health Surveillance of Premises focuses on enhancing the environmental health information system by gathering and processing relevant data to guide research priorities, policy review, and reform, contributing to sustainable national development.



- Home
- Accommodation Inspection Tool
- Assessment Tool Undertakers
- Barbers and hairdressers
- Building plan health request
- Food Premises Audit Tool
- Formal Barbers and Hairdressers

Inspection Insights

Completed	Pending
0	0
In progress	Not started
0	0



↕ + ↻

Health Inspections

Status
Scheduled

Search appointments

From date
 2023/06/01

To date
 2023/10/01

Reset

Appointments

Appointment details

Subject	Start Time
End Time	Status

Inspection details

Check-in:

Check-out:

Location

Begin Inspection

Inspection Overview

Completed Questions	Compliance Issues
0/0	0

1. OPEN SDGs

DURBANSDGs
ETHEKWINI MUNICIPALITY
MAKE SUSTAINABLE DEVELOPMENT A REALITY

GET INVOLVED TAKE ACTION

- 1 NO POVERTY**
- 2 ZERO HUNGER**
- 3 GOOD HEALTH AND WELL-BEING**
- 4 QUALITY EDUCATION**
- 5 GENDER EQUALITY**
- 6 CLEAN WATER AND SANITATION**
- 7 AFFORDABLE AND CLEAN ENERGY**
- 8 DECENT WORK AND ECONOMIC GROWTH**

3. LIVEABILITY INDEX

Suburb **ADAMS RURAL**

Overview

Suburb Liveability Information

27 Liveability Score
224 Total Population

Category Scores

These are the category scores for ADAMS RURAL. Explore the metrics and policies behind the numbers.

Category	Score	Max Score
Housing	8	100
Neighbourhood	1	100
Transportation	1	100
Environment	1	100
Health	1	100
Engagement	1	100
Opportunity	1	100
Education	1	100
Safety	1	100

2. GREENBOOK METROVIEW

GREENBOOK METROVIEW
CLIMATE RISK PROFILE

HAZARD LIKELIHOOD | Surface Water Flooding

POPULATION | BUILDINGS | ROADS

LEVELHOOD OF HAZARD OCCURRING	NUMBER OF PEOPLE EXPOSED	PERCENTAGE OF POPULATION
Very Low Likelihood	871 837	21,7
Low Likelihood	1 139 238	28,4
Medium Likelihood	1 169 944	29,2
High Likelihood	763 566	18,8
Very High Likelihood	75 006	1,9

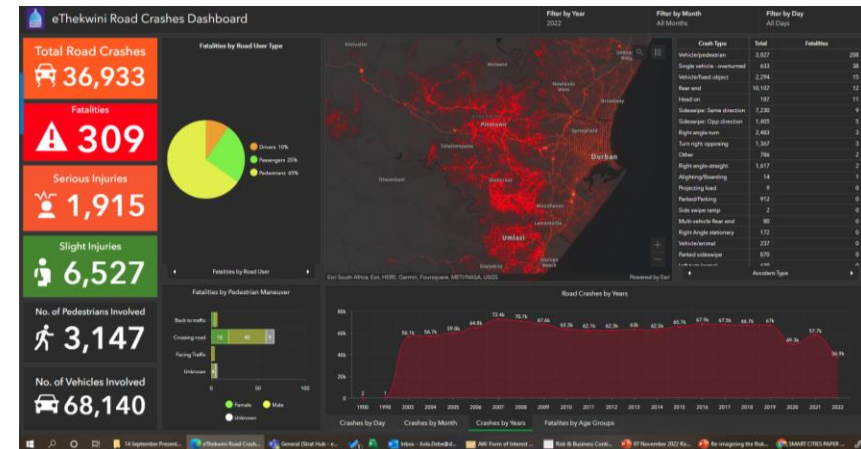
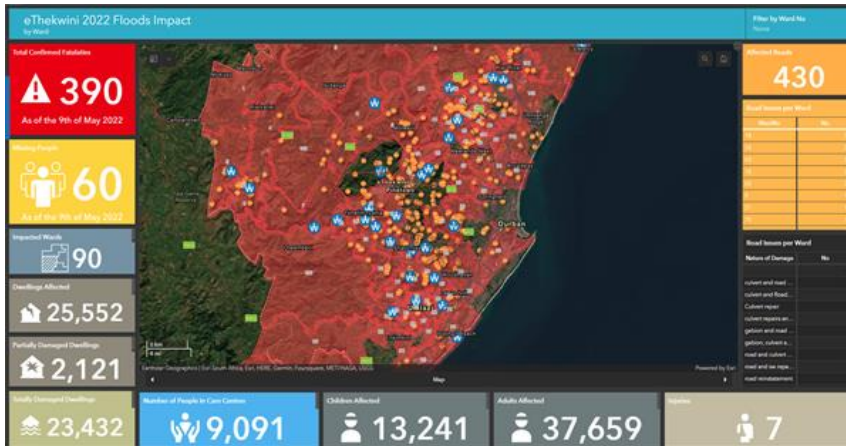
The map shows the likelihood of surface water flooding to occur across the landscape of the city. The current flood hazard likelihood map identifies areas which are more likely to generate floodwater during a high flow event, and considers a combination of slope gradient, the spatial pattern of rainfall, land cover, and soil properties.

The table indicates the number of people that are exposed within the different hazard likelihood categories. Toggle between population, buildings, and roads to see additional tables for the number of buildings and metres of roads exposed to potential flooding. When selecting a region on the main map in the top left corner, the data will update to reflect that of the selected region. Currently, about 75 000 people, 33 500 buildings, and 502 kilometres of roads are in areas with a very high likelihood of flooding to occur.

Surface water flooding occurs when the volume of rainwater falling does not soak into the ground or drains away through the existing drainage systems, but flows over or accumulates on the ground. This is primarily caused by heavy downpours of rain, thunderstorms, or storm surges, and are usually short-lived. The amount of river flow and potential flood hazard resulting from rainfall storm events is determined by both the generation of runoff at a point on the landscape and the hydrological connectivity of that generated runoff within the river channel network. These components can be explored in the panel on the left.

Answering the 'so what question?

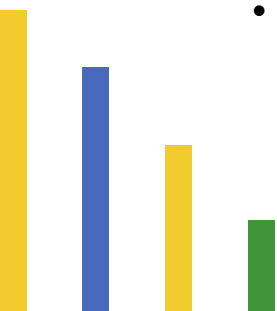
- Cultivating an insight driven decision-making culture
- Integrating city-level data for enhanced operational efficiencies
- Optimizing co-governance through providing data to our citizens and stakeholders



Challenges and lessons



- Poor data collection and capturing culture
- Poor data quality
 - Cities are generally bad at capturing data
 - Systems do not do enough data validation
- Without data strategy:
 - Poor data sharing principles
 - Poor data governance principles
 - Dependency on external parties for management and control of data
 - Lack of metadata
- Poor institutional data culture and attitude
- Lack of investment on data initiative





Ngiyabonga



Do Visit Us!

<http://strathub.durban.gov.za>

