



**From Data Chaos to Strategic
Clarity: Advancing Data Maturity
for Smarter Governance**

**MBALENHLE KHAMBULE
DATE: 03 June 2025**

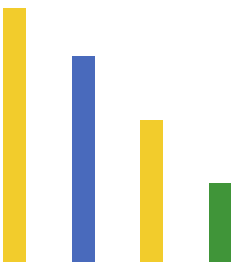


OPENING STATEMENT



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“From data to decisions – we lead with insight, not assumptions.”

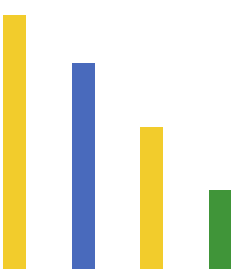




IDEAL GOVERNANCE



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WHAT IS DATA MATURITY?

- Data maturity is an organization's ability to effectively use its data.
- It's not just about collecting data — it's about using it to drive decisions and impact.



**DATA
COLLECTION**



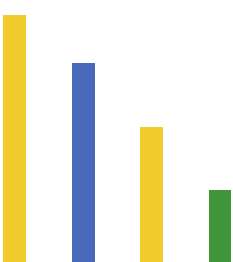
**DATA
PROFICIENCY**



**DATA
CONSUMPTION**



**DATA
AS A CULTURE**





DATA MATURITY MODEL STAGE



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Ad hoc



Foundational



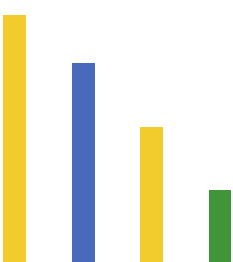
Standardised



Optimised



Strategic



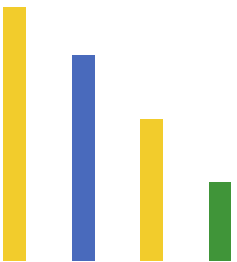


WHY DATA MATURITY MATTERS



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- Enables evidence-based budgeting
- Improves audit readiness
- Enhances transparency and accountability
- Supports innovation in service delivery
- Improves efficiency and reduces operational costs
- Strengthens data security and privacy compliance
- Promotes collaboration and innovation
- Enhances understanding of policy and legislation impact
- Fosters a data-literate workforce





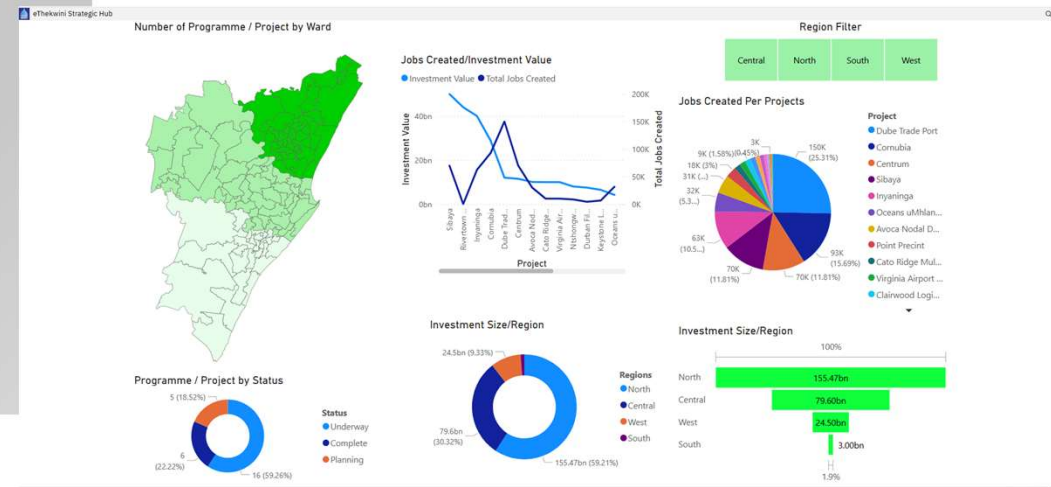
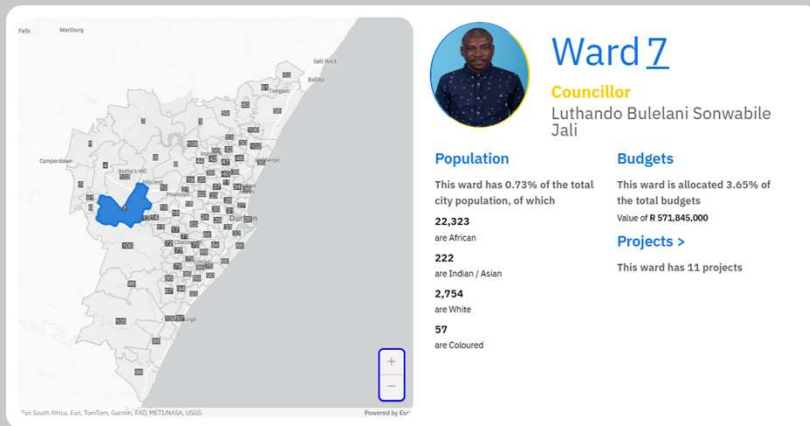
ETHEKWIN MUNICIPALITY: CASE STUDY



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- Centralised platform integrating spatial and non-spatial data
- Real-time dashboards used for decision support
- Public facing Platforms

eThekweni Ward Info

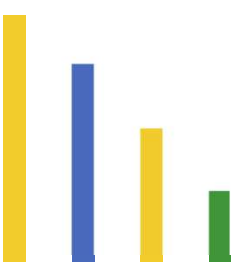
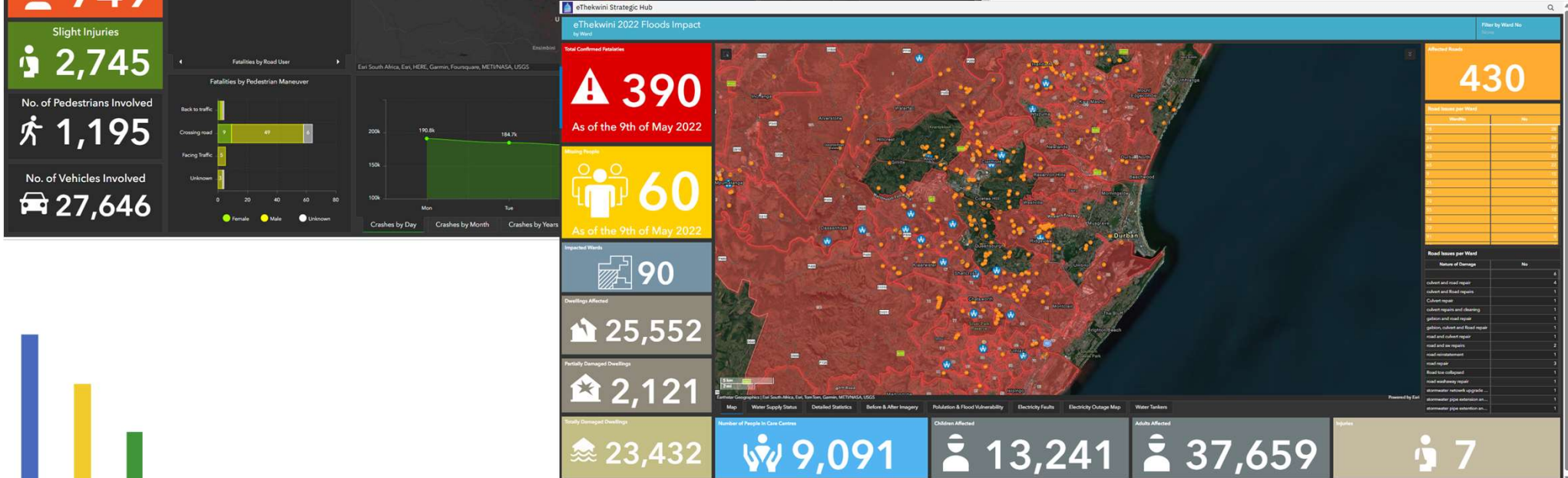
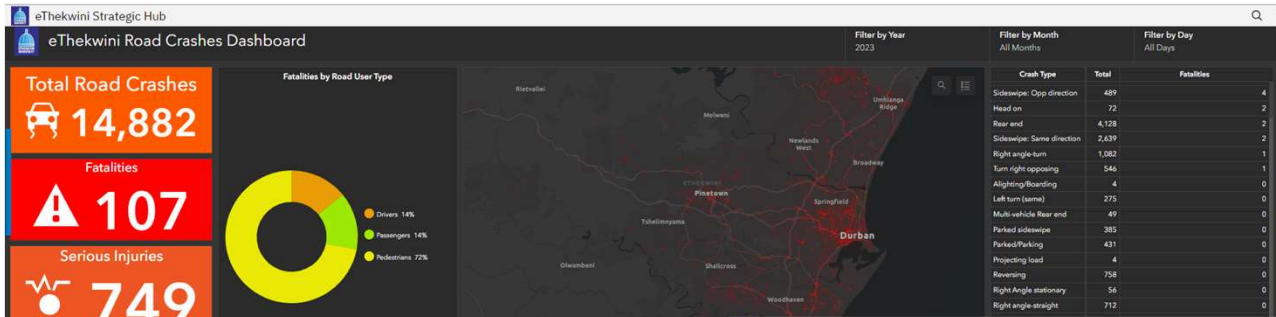




MANAGEMENT DASHBOARDS



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PLANNING DASHBOARD



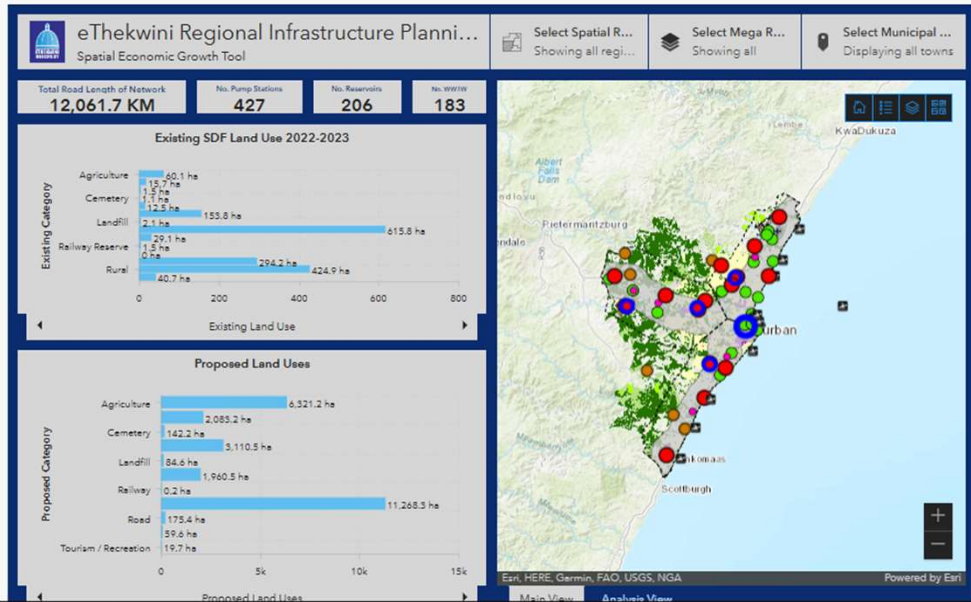
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Spatial Growth Model

THEME: SPATIAL GROWTH MODEL

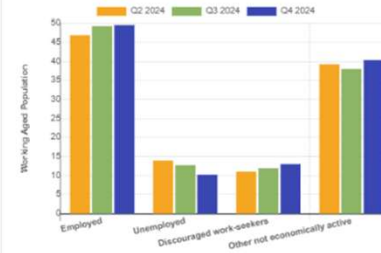
Purpose of the Spatial Model is to:-

1. Enhance Regional and Municipal Planning Alignment Our goal is to refine the integration between extensive regional planning initiatives, such as the Strategic Corridor Development Plans for N3 and N2, and eThekweni's core municipal strategies including the Spatial Development Framework (SDF), Integrated Development Plan (IDP), and various infrastructure projects.
2. Streamline eThekweni's Departmental Coordination By developing a spatial growth model, we aim to standardize departmental planning across eThekweni. This tool serves as a foundational benchmark for estimating and coordinating land use, transportation, and infrastructure development, ensuring a cohesive development approach.
3. Interactive Tool for Informed Decision Making We are providing a dynamic interactive tool that enables the overlay and examination of spatial development and infrastructure data across the municipality's planning regions and development corridors. This will facilitate more informed and strategic planning decisions.
4. Evolving Tool for Dynamic Data Integration The spatial model is designed to be a living tool, continuously updated as more precise and detailed data becomes available, ensuring that it remains an effective resource for current and future planning needs.



Durban Employment Profile

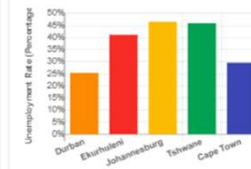
Quarterly Figures



SOURCE: StatsSA - Quarterly Labour Force Survey

Youth Unemployment Rate

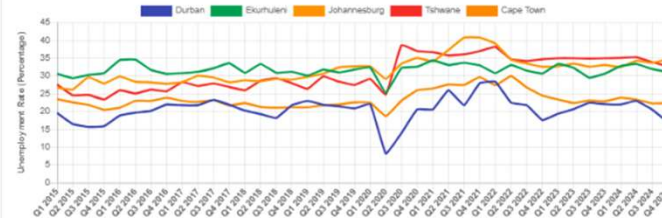
Durban and other Cities (Q4 2024)



SOURCE: StatsSA - Quarterly Labour Force Survey

Unemployment Rate of Durban and Major Cities

Quarterly



SOURCE: StatsSA - Quarterly Labour Force Survey



ENVIROMENTAL PRIORITES



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eThekweni Strategic Hub Dashboards Liveability Index Open SDGs Greenbook Metro View Open GIS Data Digital Forms Platform More-

GREENBOOK WARD 11 VIEW

CLIMATE RISK PROFILE

Go to eThekweni Climate Actions Tool

North - Ward 11

RISK | Ward 11

BASELINE 2050

VULNERABILITY RISK

Risk Category	Baseline	2050
HEAT EXTREMES	35,575 (POPULATION IN RISK ZONES)	68.22 (% POPULATION IN RISK ZONES)
COASTAL FLOOD	0 (POPULATION IN RISK ZONES)	0 (% POPULATION IN RISK ZONES)
FLOOD	21,083 (POPULATION IN RISK ZONES)	40.43 (% POPULATION IN RISK ZONES)

RISK

REGION: NORTH
WARD ID: 11

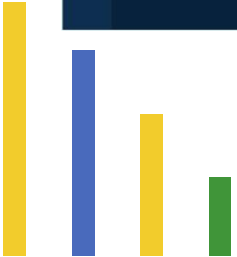
52,148 TOTAL POPULATION 2021
43 PEOPLE PER HA 2021
13,471 TOTAL HOUSEHOLDS 2021

90% FORMAL DWELLINGS
10% INFORMAL DWELLINGS
0% TRADITIONAL DWELLINGS

CSIR PROJECT PARTNERS absa

clmES REPORT PROGRAMME

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CONNECTING COMMUNITIES



17:53

Site for sale in Nazareth
R 220,000

Send seller a message
Hi Mlu Bha, is this still available? [Send](#)

Message in WhatsApp

Alert Message Share Save

Description

17:58

site for sale lovu 100k
R 100,000

Send seller a message
Hi Siyathanda, is this still available? [Send](#)

Alert Send Offer Share Save

Description
site for sale lovu 100k cash sale no bond 320sqm
For viewing can inbox me

17:57

Site in Clermont and Ntuzuma
R 180,000/month

Send seller a message
Hi Innocent Insephe, is this still available? [Send](#)

Message in WhatsApp

Alert Message Share Save

Description

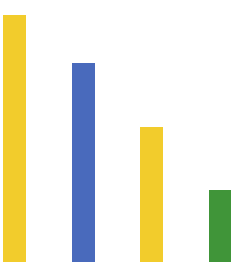
17:54

Land un Ilovo
R 110,000

Send seller a message
Hi Gwen, is this still available? [Send](#)

Alert Send Offer Share Save

Description
A very big site in iLovo in quiet area in C section. Call Gwen [hidden information]

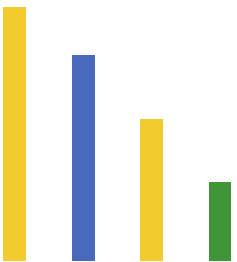




CURRENT MATURITY LEVEL ASSESSMENT



- Self-assessment: Between Level 2 (Foundational) and Level 3 (Standardised)
- Strengths:
 - Dedicated data team
 - Cross-departmental collaboration
 - Use of tools like ArcGIS Dashboards and Power BI
- Gaps:
 - Inconsistent data standards
 - Limited automation
 - Varying data literacy across departments





WISHLIST- REVENUE COLLECTION



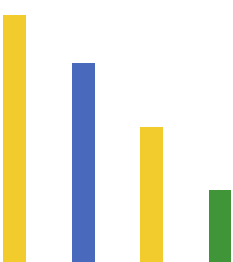
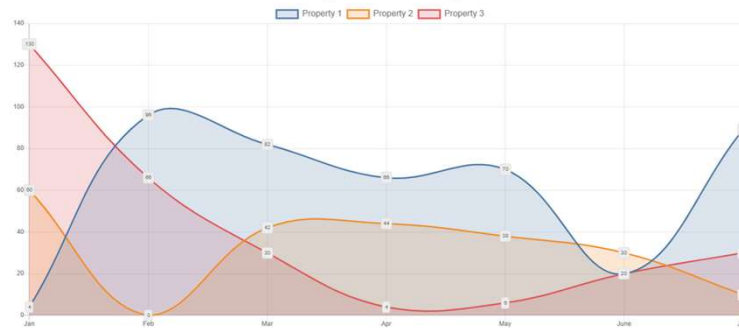
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GIS Valuation Roll RMS AI Detected

Property Key	Property Value	Rates	Swimming Pool	Water Cons	Elec Cons	Solar Panel
###	R4M	R2000	Yes	1000 KI	100 kWh	Yes
###	R3M	R1000	No	5000 KI	20 kWh	No
###	R7M	R5000	Yes	2000 KI	200 kWh	No

Monthly Water Consumption



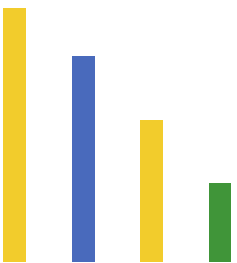


COMMON CHALLENGES TO ADVANCING MATURITY



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- Data silos
- Resistance to change
- Inadequate data governance
- Skills gap in analytics and interpretation
- Underuse of existing tools



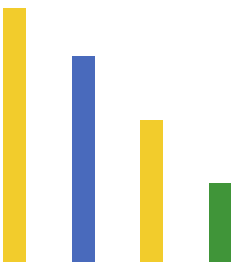


BUILDING BLOCKS OF A MATURE DATA ECOSYSTEM



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- Leadership - support and vision
- Clear data governance framework
- Investment in skills development
- Integrated system (e.g., linking finance system with spatial data)
- Culture of data use and innovation





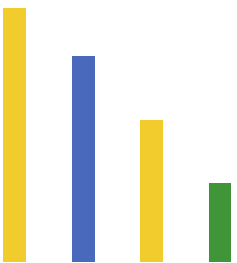
CALL TO ACTION



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- Start small but be strategic
- Use available tools before procuring new ones
- Make data part of the governance conversation
- Build cross-functional teams
- Invest in people

What one data practice can your municipality improve in the next quarter to move toward data maturity?





LET'S START A CONVERSTATION



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NGIYABONGA – THANK YOU – ENKOSI – DANKIE – NGIYATHOKOZA – KE A LEBOHA – KE A LEBOGA – NDITSHUKULA – NDO LIVHWA – ENKOSI

