



UK Government

By 2030 eThekweni will be Africa's most caring and liveable city



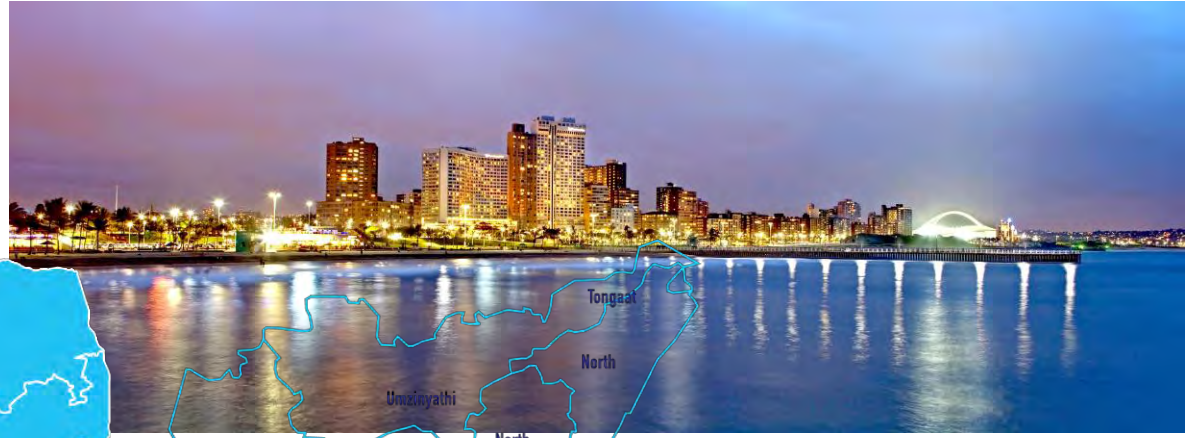
UK Prosperity Fund: Future Cities Programme: Durban -Project 1 : Improved Data Integration, Collection and Analysis to Facilitate Collaborative Informal Settlement Action in Durban

Sarah Watson, eThekweni Municipality

Case study: data management in the informal settlement upgrading programme in eThekweni

4 November 2021

Durban



ETHEKEWINI MUNICIPAL AREA

Informal Settlements and Data Challenge

- **Data (collection, analysis, integration and application)** is a major challenge in the eThekweni Municipality.
- This data challenge is reflected in **Durban's Resilience Strategy**, where it is highlighted as a key constraint in how the city makes strategic decisions within the context of informal settlements.

Existing data challenges within the informal settlements space compromise service delivery and strategic decision making:

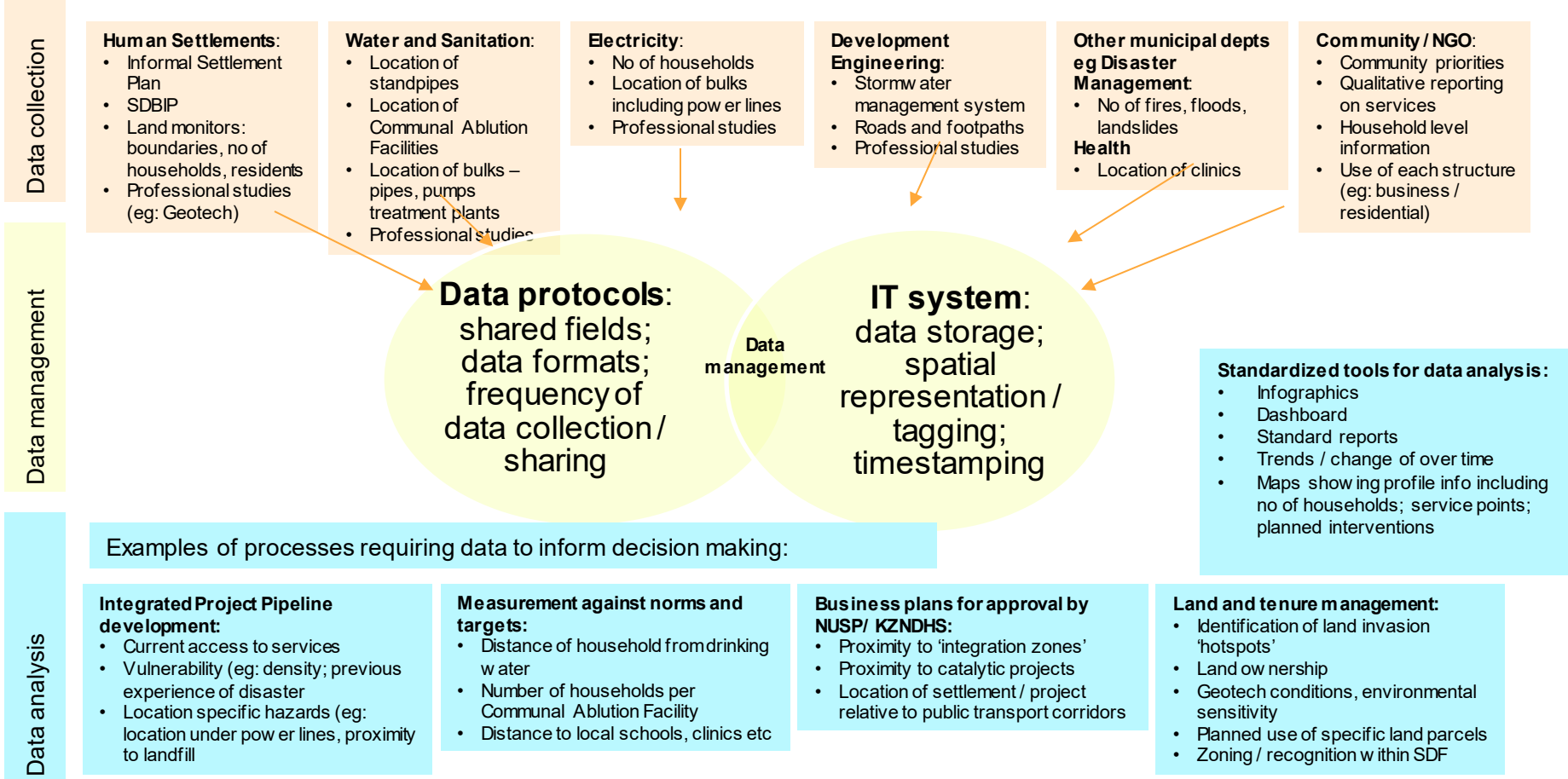
- No standards for data management - data in various formats, stored in different locations, being shared via flash drive;
- Data are out of date;
- Duplicated or conflicting data systems and data sets;
- Capacity to generate, capture and analyse data (eg: 15 land monitors to observe 581 informal settlements)
- Difficulty in obtaining access to municipal data across departments and then integrating this (no data sharing protocols or systems in place);
- Inadequate incorporation of community-collected data; and
- Poor data management and analysis to inform strategic decision-making.



Improved data in the informal settlements space is critical in order to:

- Inform informal settlement incremental upgrading programmes and National level reporting requirements on informal settlements;
- Building partnerships;
- Improving social and economic interventions in informal settlements; and
- Accommodate (and where necessary, regulate) informal settlements within the urban planning context for Durban

Informal Settlements data ecosystem



Project 1 : Improved Data Integration, Collection and Analysis to Facilitate Collaborative Informal Settlement Action in Durban

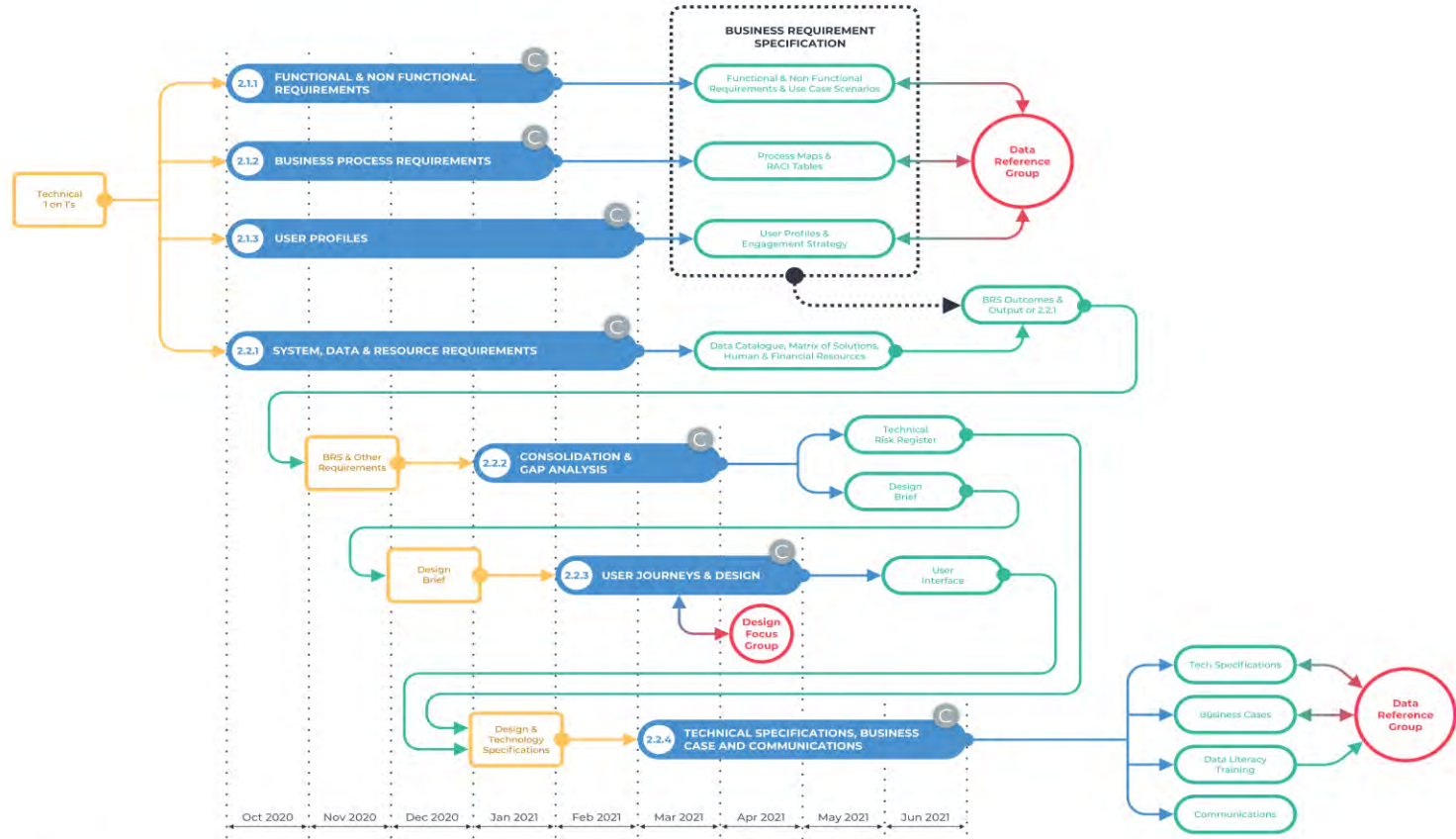
- The aim of Project 1 is to develop an **Informal Settlement Information Management Solution (ISIMS)** that “will facilitate improved collection, integration and analysis of city-level data” with the ultimate objective to “utilise this information management solution as a **planning tool**”

Objectives of the ISIMS project

- Develop **broad principles for data governance** in the city that can inform a city data strategy (Phase 1 - complete)
- Develop a **technical specification** for an informal settlement information management solution (Phase 2 – current)
- **Design and implement** the informal settlements information management solution (Phase 3)



The ISIMS project approach and process – Phase 2



LEGEND



Project Stage & Timeframe

Output

Advisory & Testing

Business Requirement Spec

Core Team Engagements

Challenges and Opportunities



CHALLENGES

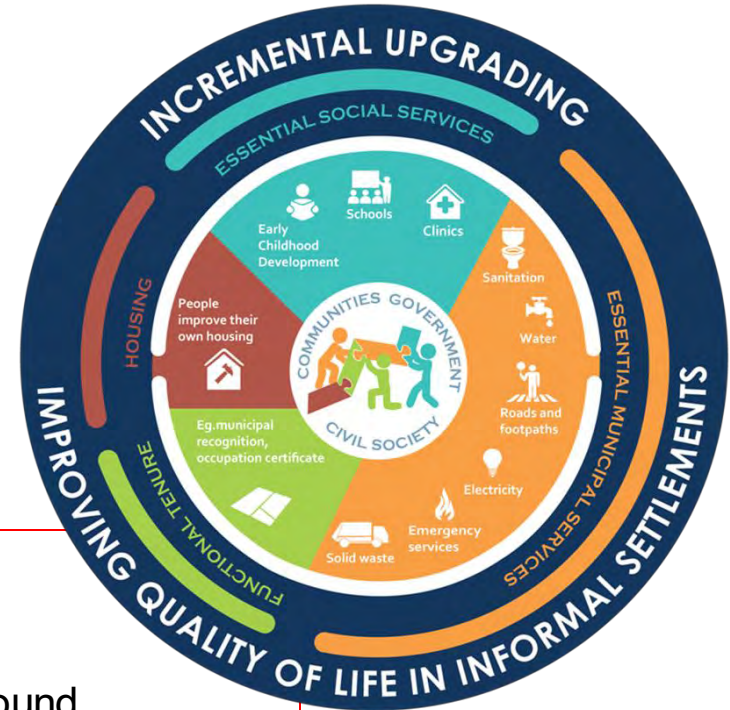
- Broad range of internal and external stakeholders – beyond the BIG 5 service delivery line departments
- Data “ownership” and accountability
- High level of complexity – multiple user types, specific business requirements

OPPORTUNITIES

- Eliminating inefficiencies and duplications
- Utilization of existing data sets
- Potential to expand system beyond informal settlements

Lessons learned

- Working across specialties (IT / informal settlement upgrading) requires a high level of unlearning and relearning
- Valuable insights can come from pilot projects / modular approach to solution development
- Set tolerance levels for risk, imperfect information, limited engagement



RISKS

- Resourcing and capacity for implementation
- Institutional inertia / change management (esp around organograms, job descriptions and Key Performance Areas)
- Policy issues - tolerance of informality, mandate for informal settlement action, paradigm shift in the face of expectations



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**Siyabonga
Baie dankie
Thank you**