

Empowering Communities through Citizen-Centric Service Delivery and Engagement
How the ArcGIS platform enables government to deliver services that are responsive to citizen needs.

DEVELOPING ILIS: KEY CONSIDERATIONS AND IT'S FUTURE ROLE IN LOCAL LAND OFFICES

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October 2025

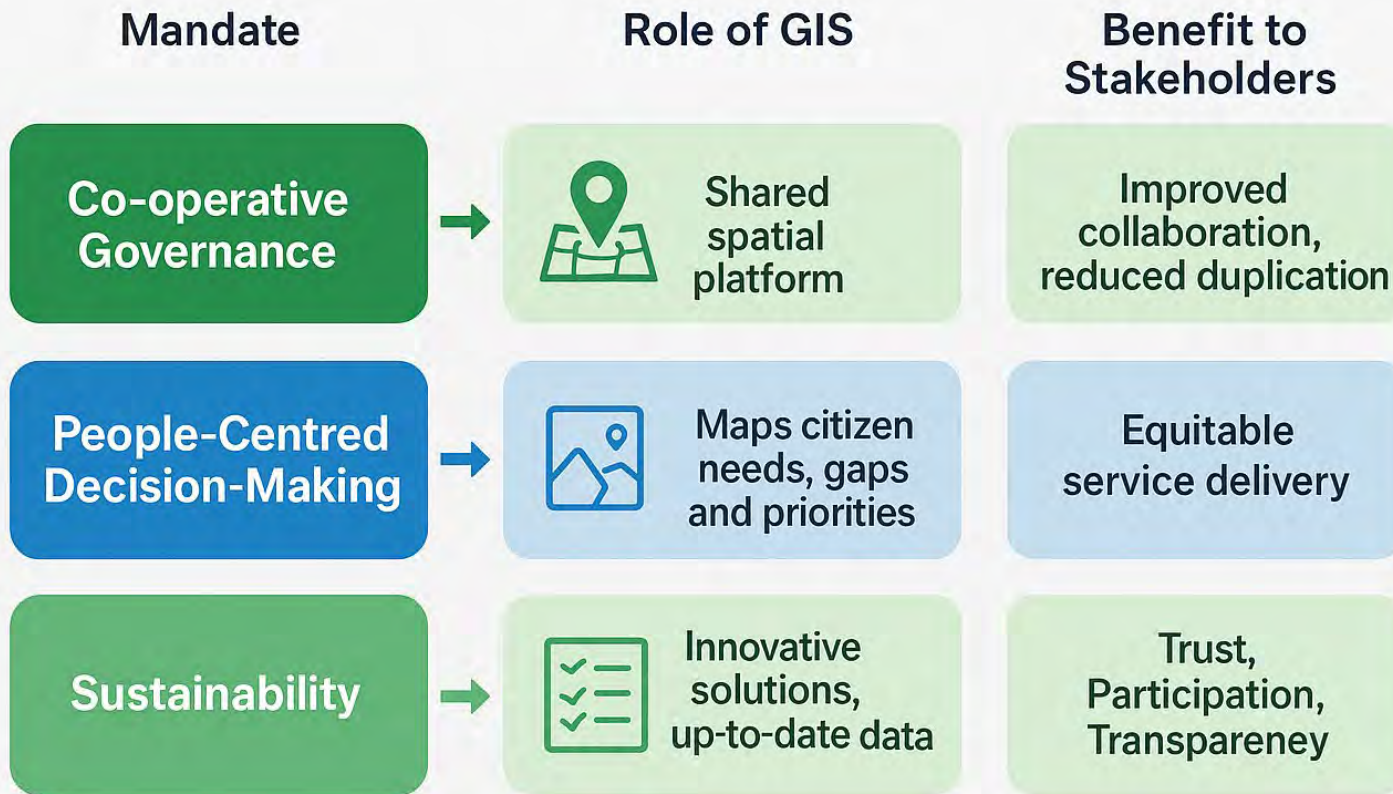
Table of Contents

- 1. KZN COGTA's Mandate**
- 2. COGTA's GIS: Enabling the Mandate**
- 3. KZN Integrated Land Information System (ILIS)**
 - ❖ Need
 - ❖ Fundamental Requirements for Development
 - ❖ Embracing Stakeholder Needs
- 4. Future of ILIS implementation**
 - ❖ Citizen-Centric Local Land Offices
 - ❖ Benefits
- 5. Building ILIS using ArcGIS :**
 - ❖ Benefits
 - ❖ Challenges for a Truly Citizen-Friendly ILIS
- 6. Enhancing ILIS for a More Citizen-Centric Experience**

People-Centred Sustainable Co-operative Governance

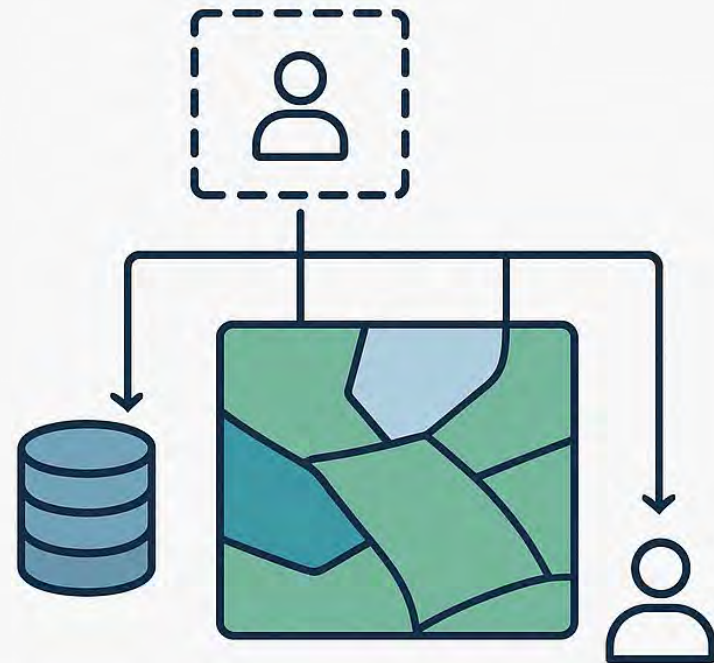


COGTA's GIS: Enabling the Mandate



Why does KZN need an Integrated Land Information System?

- Fragmented Land Information Systems
- Difficult to obtain single, authoritative view of land parcels
- Stakeholders struggle with data duplication, outdated records and inconsistencies between systems

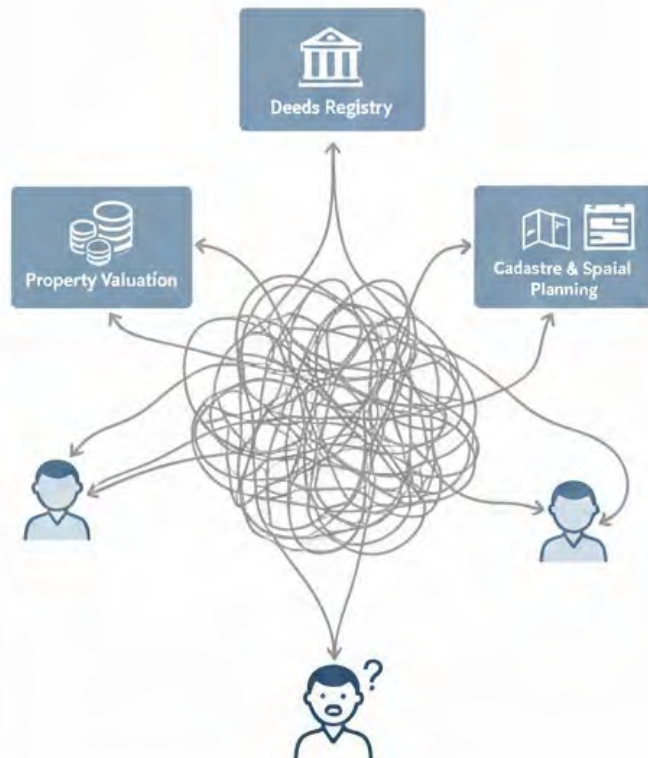




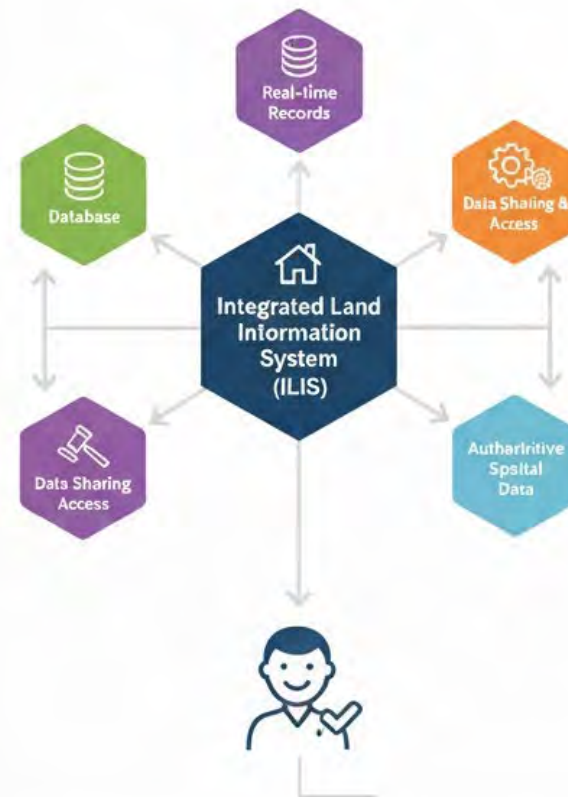
Why does KZN need an Integrated Information System?



Problems with Fragmented Systems



Solution: Integrated ILIS



Provincial ILIS Development: Fundamental Requirements



Data quality

Accuracy, completeness,
and currency



Partnerships

Collaborations
with stakeholders



Usability

User-friendly for
officials and citizens



Legislative compliance

Adherence to legal
and regulatory
frameworks



Relevance

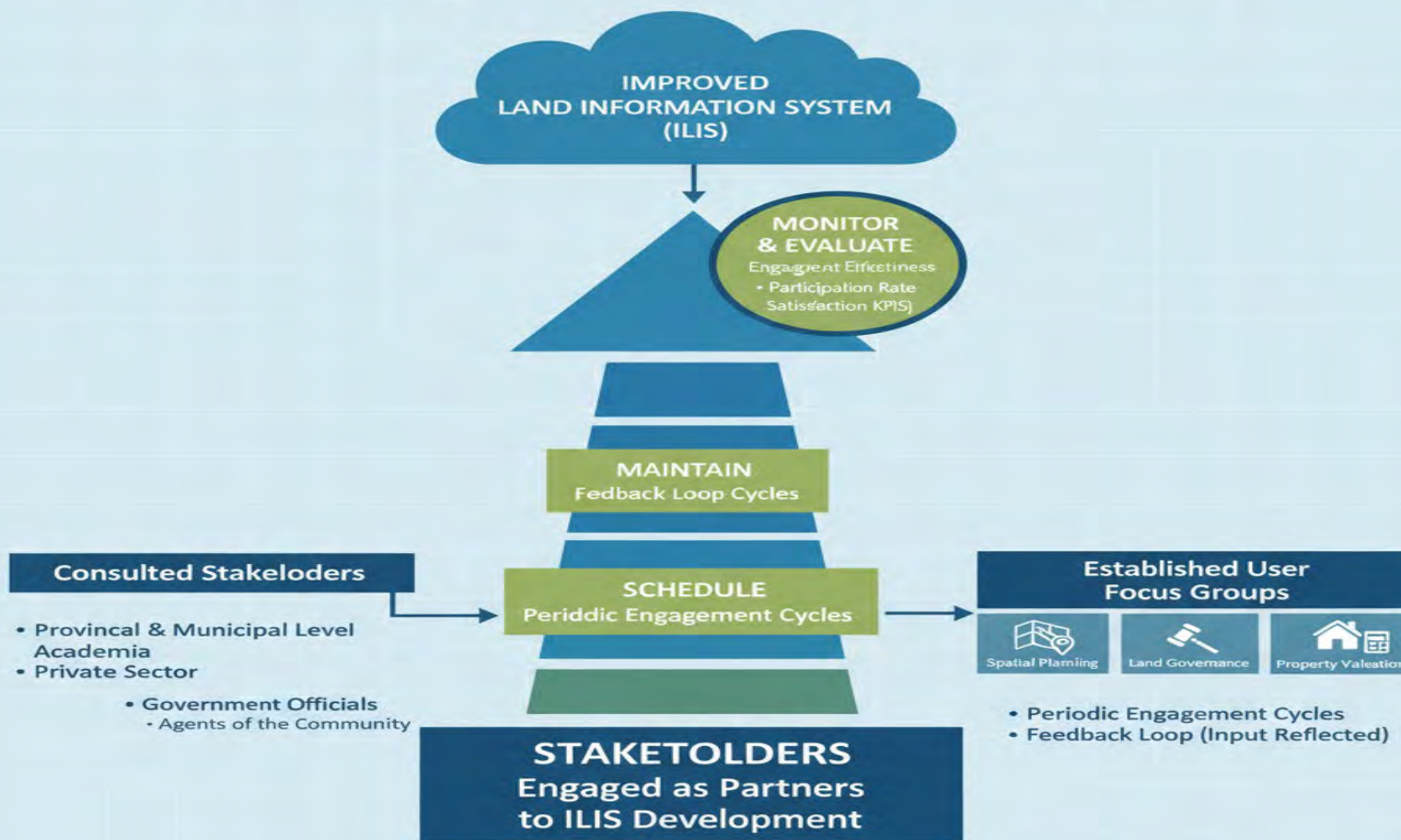
GIS data supports
access, engagement
and empowerment



Accessibility

Web-based, open
access with minimal
hardware dependencies

Elevating the Needs of Stakeholders





KZN COGTA INTEGRATED LAND INFORMATION SYSTEM (ILIS)



The Integrated Land Information System (ILIS) is a platform developed to enhance data-driven decision making on land related issues by providing requisite geospatial data layers. The main datasets housed in ILIS include:

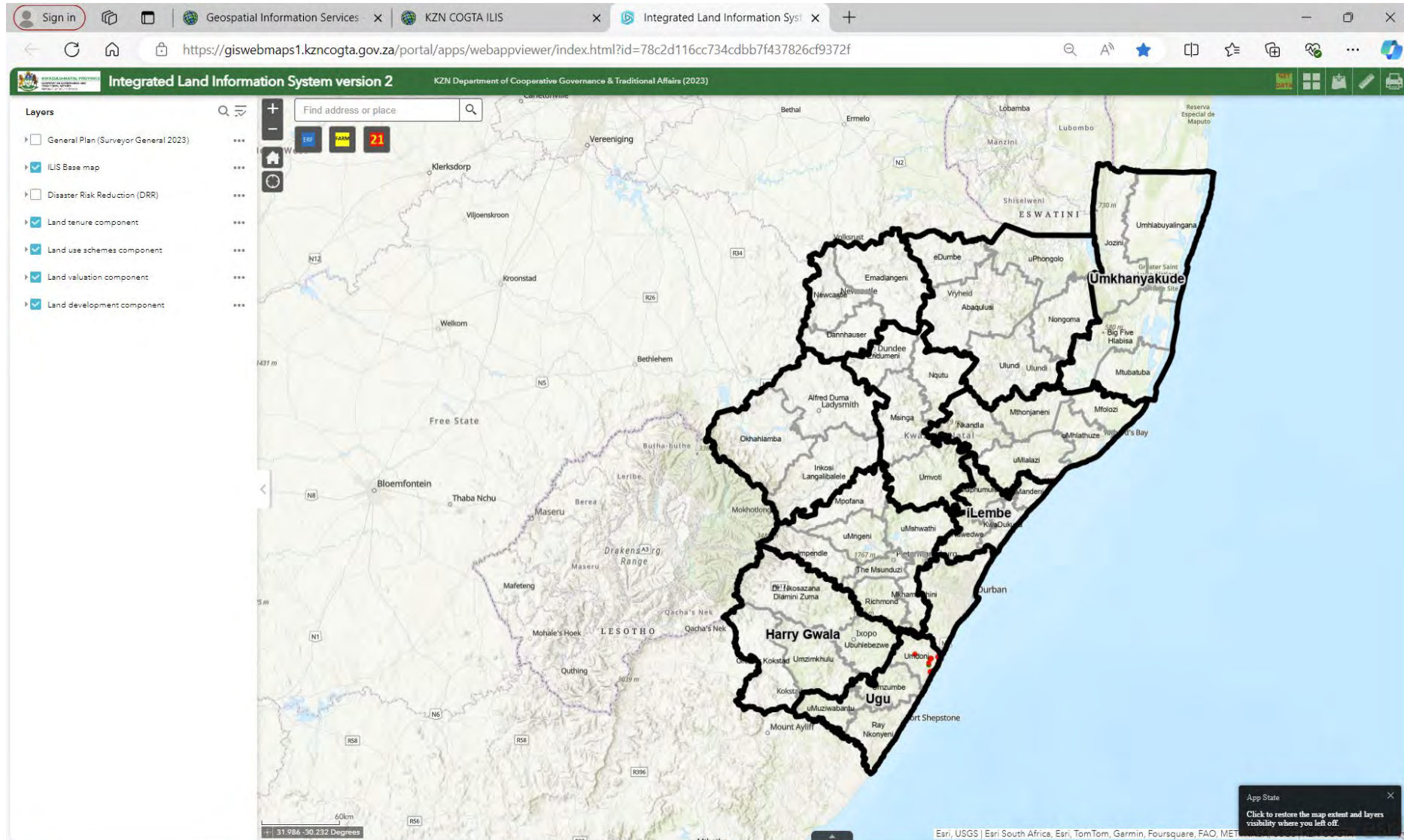
- **Land tenure information:** different land tenure types for example, Communal property association (CPA); Ingonyama Trust owned; municipal owned. This includes the base cadastral & deed ownership information.
- **Land valuation information:** the value of land determined in line with the Municipal Property Rates Act (MPRA). This includes municipal property register collected from municipalities.
- **Land use control information:** this includes adopted land use schemes; critical biodiversity areas; wetlands; disaster prone areas.
- **Spatial development plans:** this include National Spatial development framework (SDF); Provincial SDF; Municipal SDFs; Regional SDFs; Nodal Plans; Corridor plans; precinct plans and others.
- **Base datasets:** ward and municipal boundaries.
- [Click here](#) to download a list of all datasets contained in ILIS

DISCLAIMER

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PROPERTY SEARCH RESULTS



Geospatial Information Services | KZN COGTA ILIS | Integrated Land Information System

https://giswebmaps1.kzncogta.gov.za/portal/apps/webappviewer/index.html?id=78c2d116cc734cdbb7f437826cf9372f

Integrated Land Information System version 2 KZN Department of Cooperative Governance & Traditional Affairs (2023)

Layers

- ☒ Surveyor General cadastral (March 2024) _Query result
- ☐ General Plan (Surveyor General 2023)
- ☒ ILIS Base map
- ☐ Disaster Risk Reduction (DRR)
- ☒ Land tenure component
- ☒ Land use schemes component
- ☒ Land valuation component
- ☒ Land development component

Find address or place

Erf search

Tasks	Results
Surveyor General cadastral (March 2024) _Query result	
Displayed features: 1/1	
SGKEY	N0FTG4000000081000000
SGNO	2559/2006
ERF	810
PORTION	0
LOCAL MUNICIPALITY	The Mauduzi
DISTRICT MUNICIPALITY	Umgungundlovu
WARD	35
TOWN OR FARM NAME	NEW ENGLAND
OWNER	MKAMBA GARDENS CC
REGISTERED EXTENT	639.05QM
ZONE	Special Residential 3
OWNER CATEGORY 1	PRIVATELY OWNED
PROPERTY VALUE	0.000000
Click on link to open zoning document	More info
Click link to view Surveyor General diagram	More info

3m

30 447 -29.615 Degrees

Esri Community Maps Contributors, Esri South Africa, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS | KZN COGTA



PROPERTY SEARCH RESULT WINDOW

Erf search	
Tasks	Results
Surveyor General cadastral (March 2024) _Query result	
Displayed features: 1/1	
SGKEY	N0FT04000000081000000
SGNO	2559/2006
ERF	810
PORTION	0
LOCAL MUNICIPALITY	The Msunduzi
DISTRICT MUNICIPALITY	Umgungundlovu
WARD	35
TOWN OR FARM NAME	NEW ENGLAND
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REGISTERED EXTENT	639.0SQM
ZONE	Special Residential 3
OWNER CATEGORY 1	PRIVATELY OWNED
PROPERTY VALUE	0.000000
Click on link to open zoning document	More info
Click link to view Surveyor General diagram	More info

Integrated Information

1. Zoning information including link to scheme document (in progress)
 2. Surveyor General diagram (in progress)
 3. Valuation information where available
 4. Property extent
 5. Ward number
 6. Owner
- **Aim to enrich the search result further with as much information as possible**

INTEGRATED LAND INFORMATION SYSTEM (ILIS)

MAKING GOVERNMENT LAND DATA MORE OPEN AND TRANSPARENT



Quick Response (QR) code






Future of ILIS – Citizen Centric Local Land Offices.



The Future of ILIS: Citizen-Centric Local Land Offices



Benefits of ILIS for Local Land Offices

Efficiency	Accessibility	Transparency	Collaboration	Inclusivity
				
<p>Less paperwork Streamlined land records management</p> <p>Faster processing Quick approvals & registrations</p> <p>Digital storage Reduced physical archives</p>	<p>Interactive maps Citizens access land info online</p> <p>Mobile-friendly Access via smartphones</p> <p>Kiosk & office access For those offline</p>	<p>Open data Clear, auditable land records</p> <p>Real-time updates Data always current</p> <p>Audit trails Tracks all system changes</p> <p>Data integration Connects with other government databases</p>	<p>Feedback tools Citizens submit queries & disputes</p> <p>Engagement loops Communities involved in planning</p> <p>Citizen-focused services Queries directly addressed</p>	<p>Equitable access Supports rural & urban users</p> <p>Accessible UI Easy-to-use interfaces for all literacy levels</p> <p>Inclusive services Minority and vulnerable groups</p>

Building ILIS with ArcGIS: Benefits

ArcGIS Offers



Open
Data



Real-Time
Updates



Analytics
& Insights



User-Friendly
Maps

ILIS Provides



Integrated
Spatial
Platform



Accurate
Land
Records



Evidence-
Based
Decisions



Reliable
Land
Administration

Citizens Enjoy



Transparent
Planning



Faster
Service
Delivery

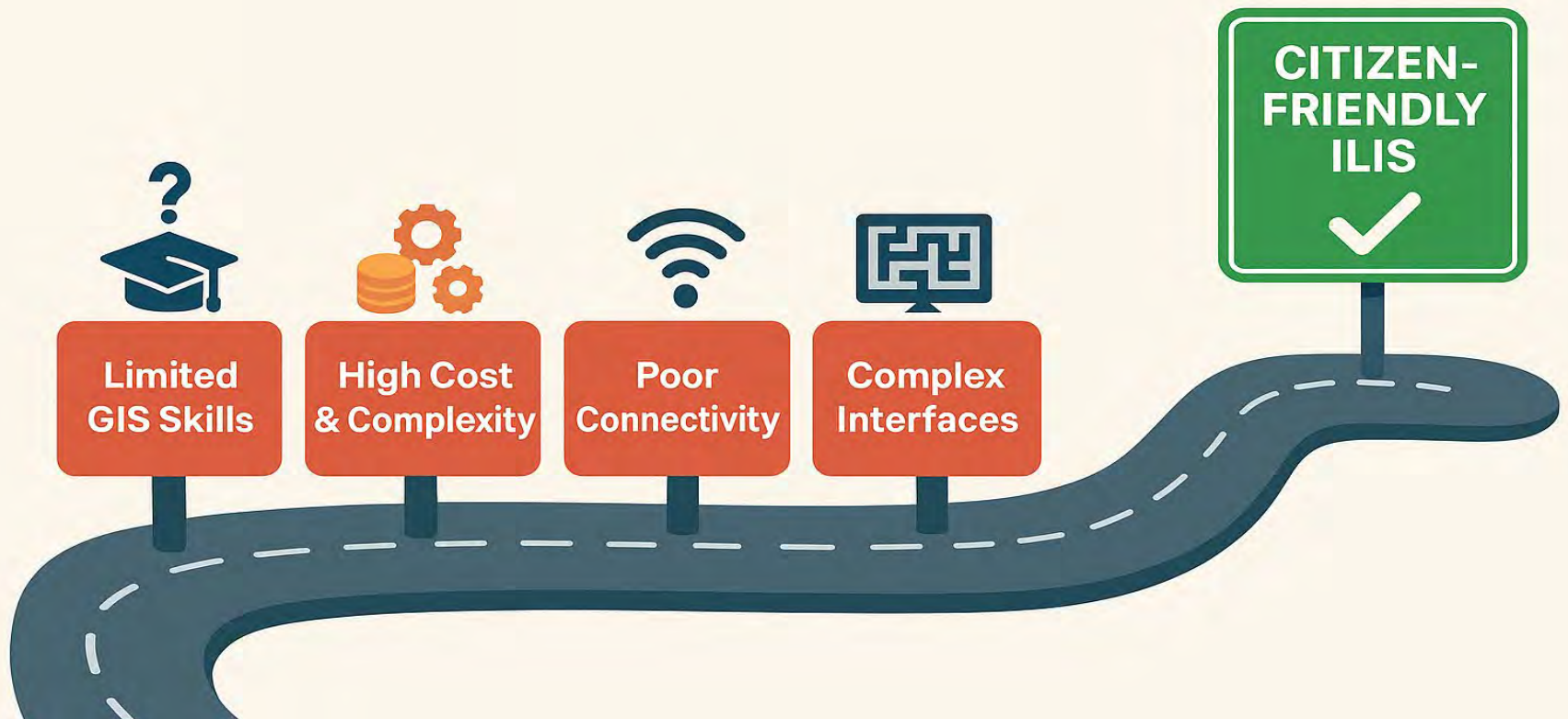


Better
Governance



Easy Access
to Information

Challenges in Making ArcGIS-Based ILIS Citizen-Friendly



Enhancing ILIS for a More Citizen-Centric Experience

INNOVATION ROADMAP

**Mobile-Friendly
Apps**



**Platform
Integration**



**Simplified
Interfaces**



**Citizen
Data Capture
Tools**

**AI for
Queries**

THANK YOU



**GROWING
KWAZULU-NATAL
TOGETHER**