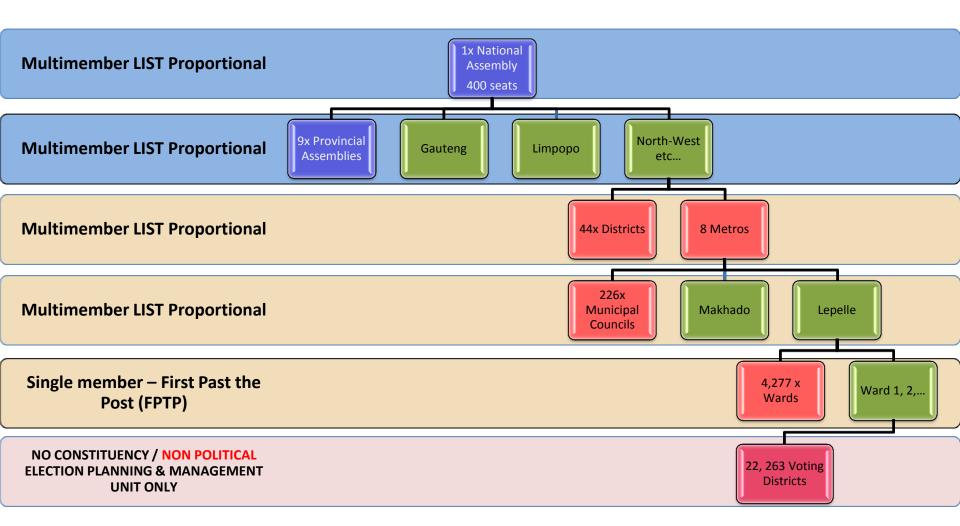
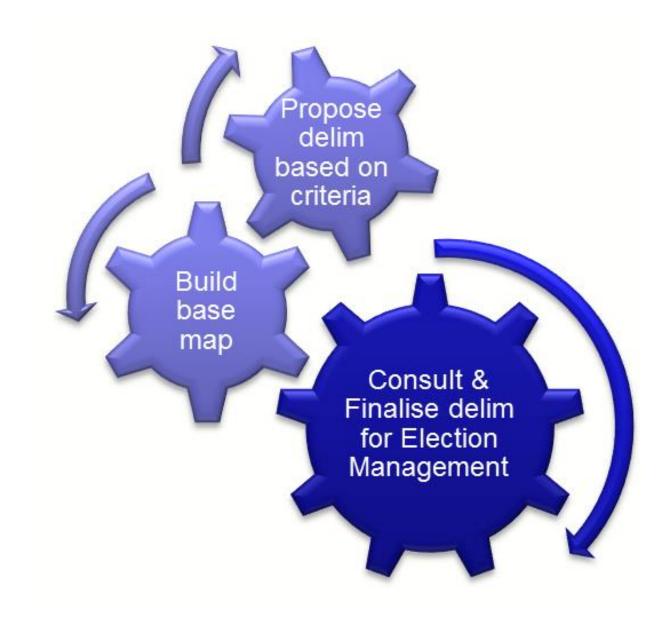
SPOT 5 AT IEC

QUALITY ENHANCEMENT TOOL FOR ELECTION MANAGEMENT

South Africa – electoral systems and boundaries



Major GIS roles at the IEC

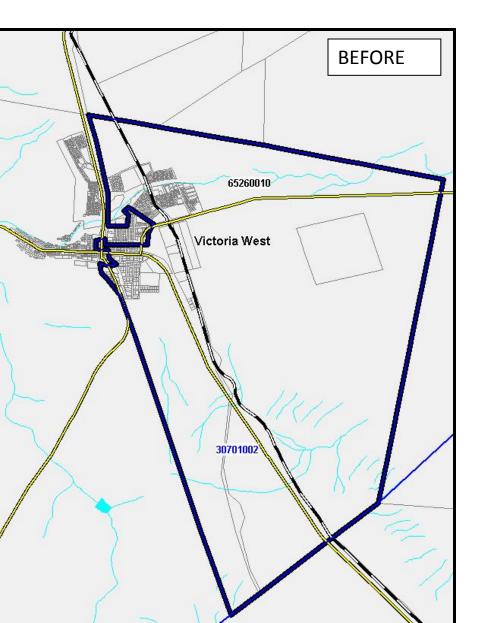


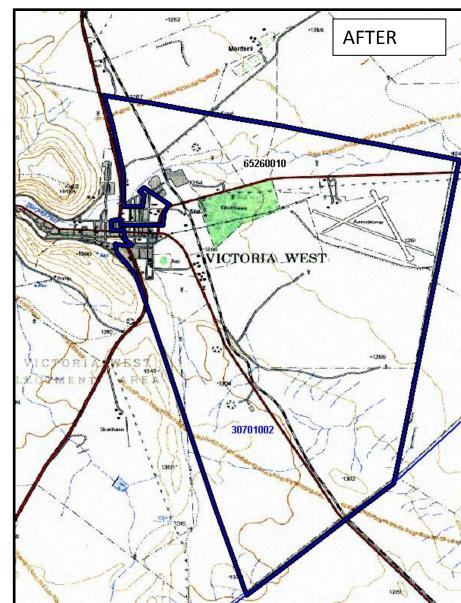
NO GIS: Limited geospatial data for election management



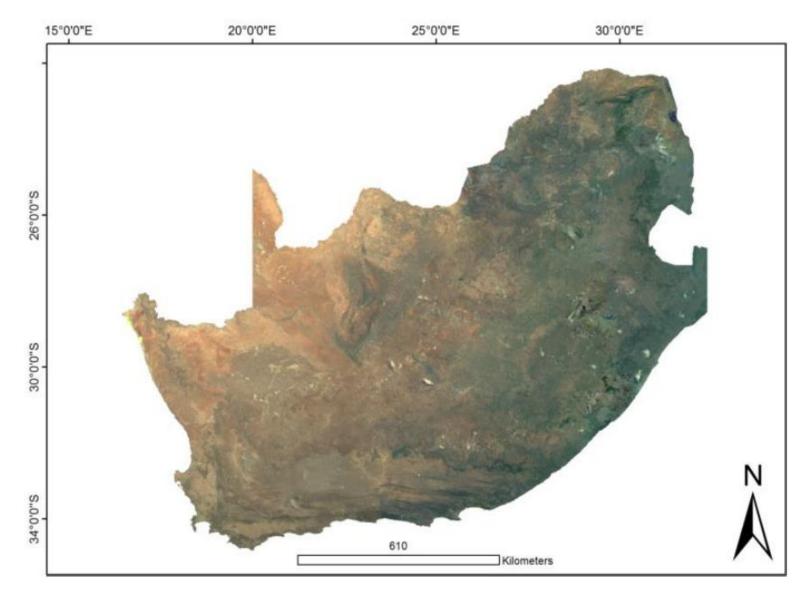
Lack of an effective, coordinated, and integrated geographic information led to challenges in the 1994 Election.

From less comprehensive vector, to toposheets, to patchy b/w/colour imagery to full coverage SPOT 5 mosaic



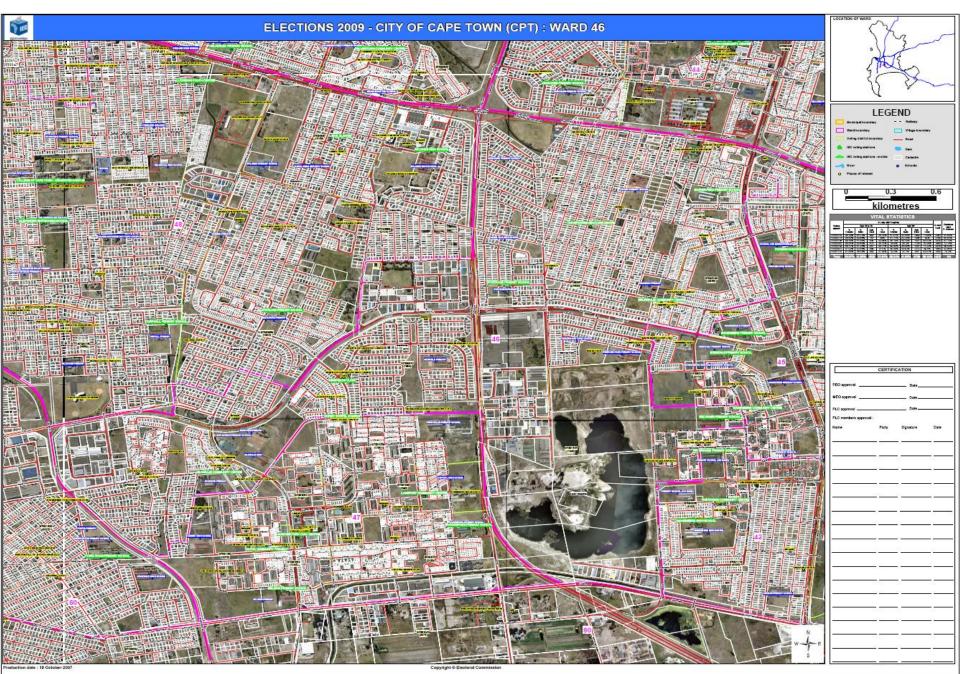


From less comprehensive vector, to toposheets, to patchy b/w/colour imagery to full coverage SPOT 5 mosaic





Enhance geographic context on working maps

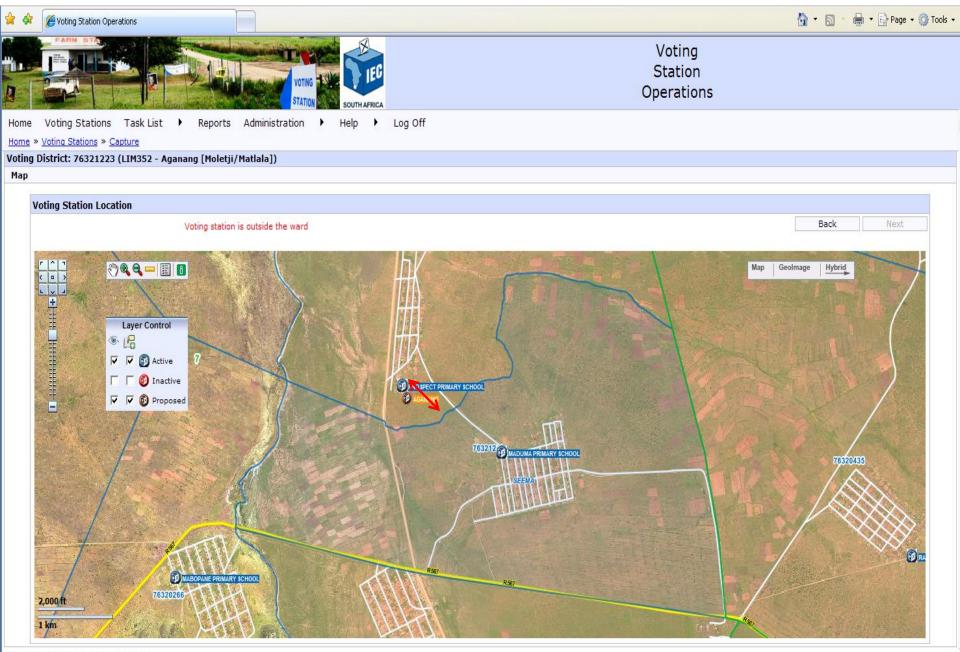


Verify location of VS during delim

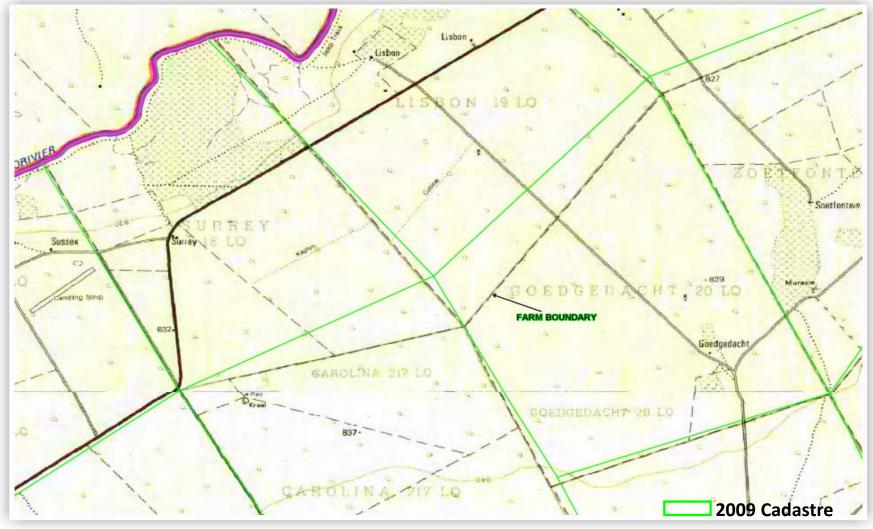
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© Independent Electoral Commission

Verify location of VS during delim



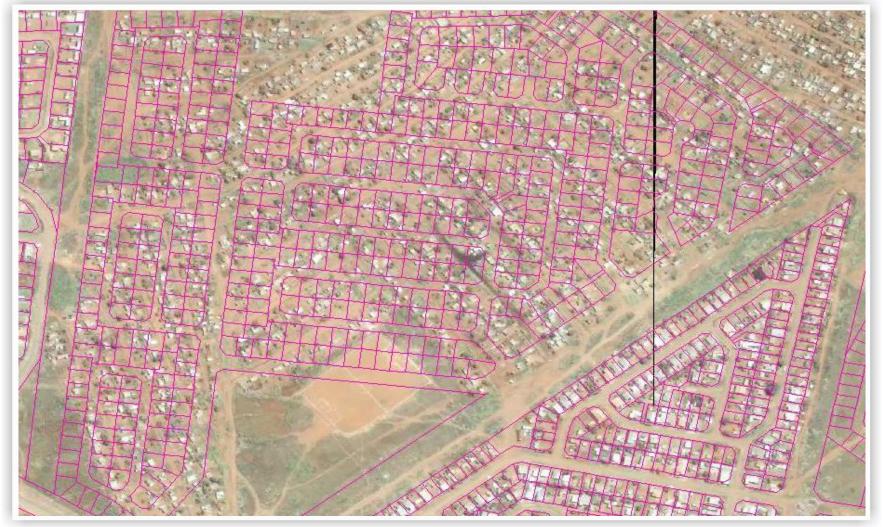
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Accuracy Issues – Farm Cadastre previously used is misaligned



Conclusion

- The call for an effective, coordinated, and integrated geographic information in preparation for the 1999 Elections led to a collaboration by the IEC, DLA and StatsSA to create the first continuous digital geographic database for the entire country;
- Subsequently new datasets such as the National Address Dictionary (NAD) were created and used to geocode voters or any other customers/topic of interest;
- Increasing availability of imagery at higher resolution (satellite and aerial) and the use of GPS technology gave us "a new set of eyes" or tools with which to examine and then enhance the quality of our datasets; and
- Finally, among others, today's successful GIS operation requires quality geographic data.
- We thank SANSA and other entities such as the NGI for giving us the datasets needed to building a comprehensive and up to date basemap that facilitates effective election management. 18