# Review of the Energy Demand Mapping for EGI

**Provincial consultation: Free State Province** 

4 November – 28 November 2014













#### Rationale for the demand mapping exercise

- To identify future development plans and energy requirement by intensive energy users
- Strengthen and highlight the location of key proposed development areas
- To identify key economic development priorities across local, provincial and national scales
- To conduct an extensive review of municipal (local & district) and provincial planning document (SDFs and IDPs)

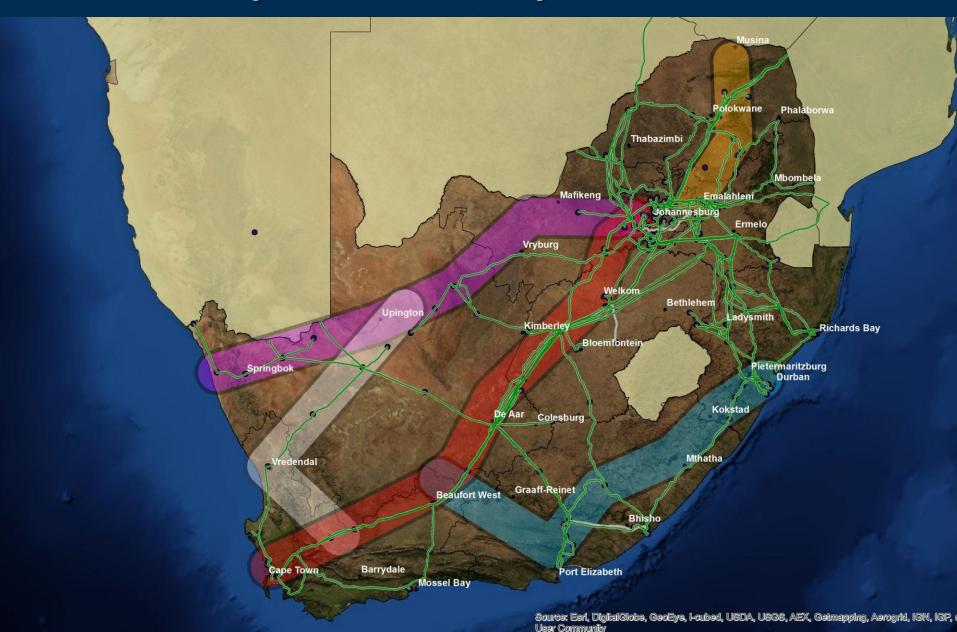




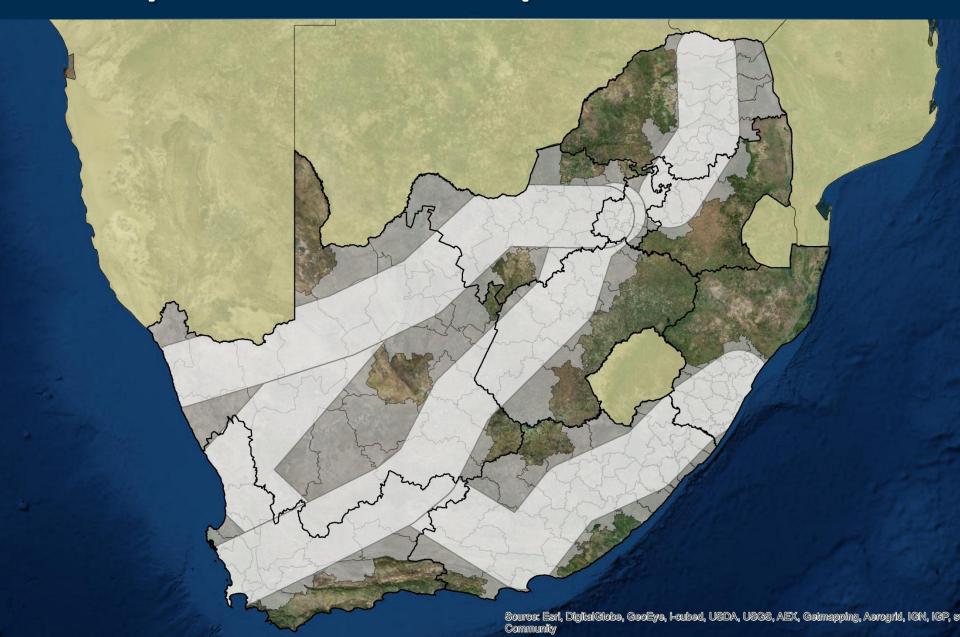




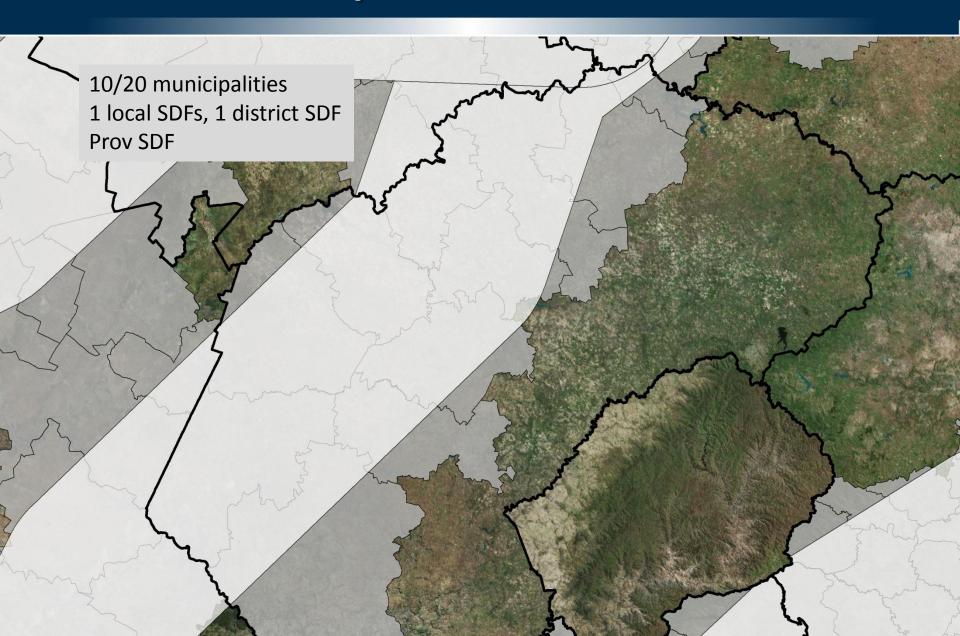
#### **Current footprint and study area**



### Municipalities that overlap with the corridor



# **Provincial Municipalities**

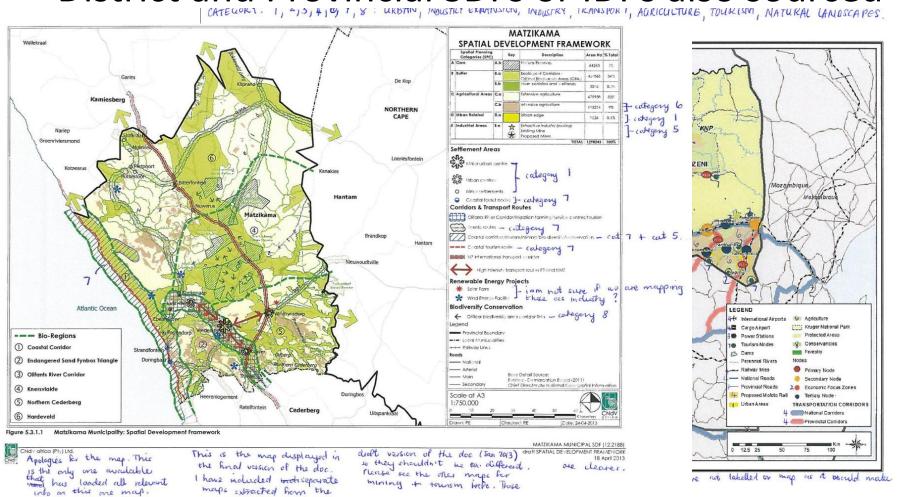


# Demand mapping SDF categories

Number	Planning category	Example in SDFs	Push/Pull
1	Industrial expansion	Industrial areas-within urban edge	Pull
2	zones and industrial	Areas outside the urban edge demarcated for special/strategic economic developments	Pull
3	Priority mining areas	Existing mining activity, proposed/potential mining activity	Pull

#### **SDF Mapping process**

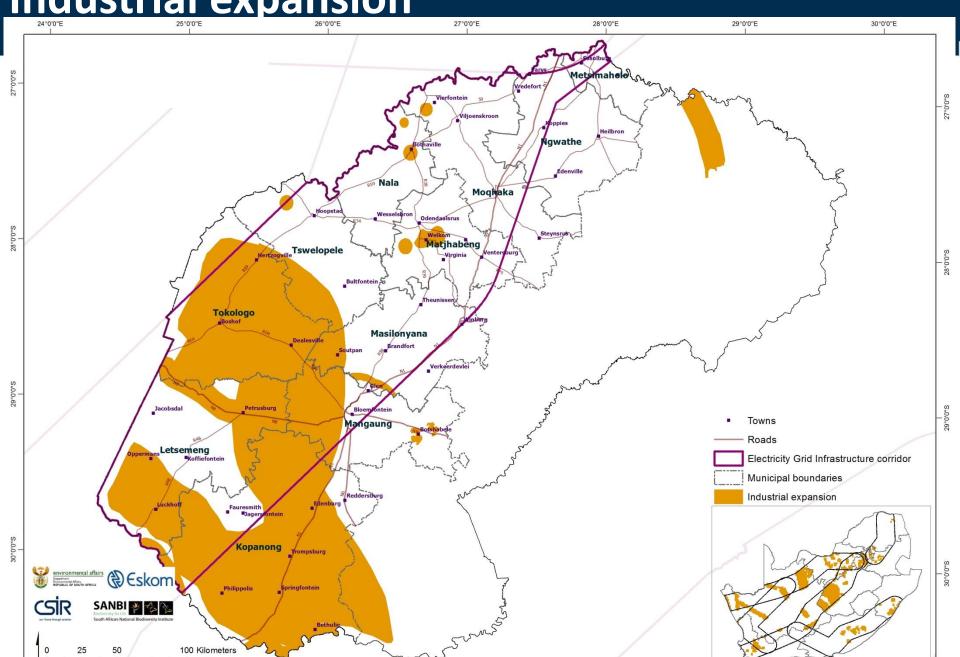
- Latest SDFs sourced where available
- District and Provincial SDFs or IDPs also sourced



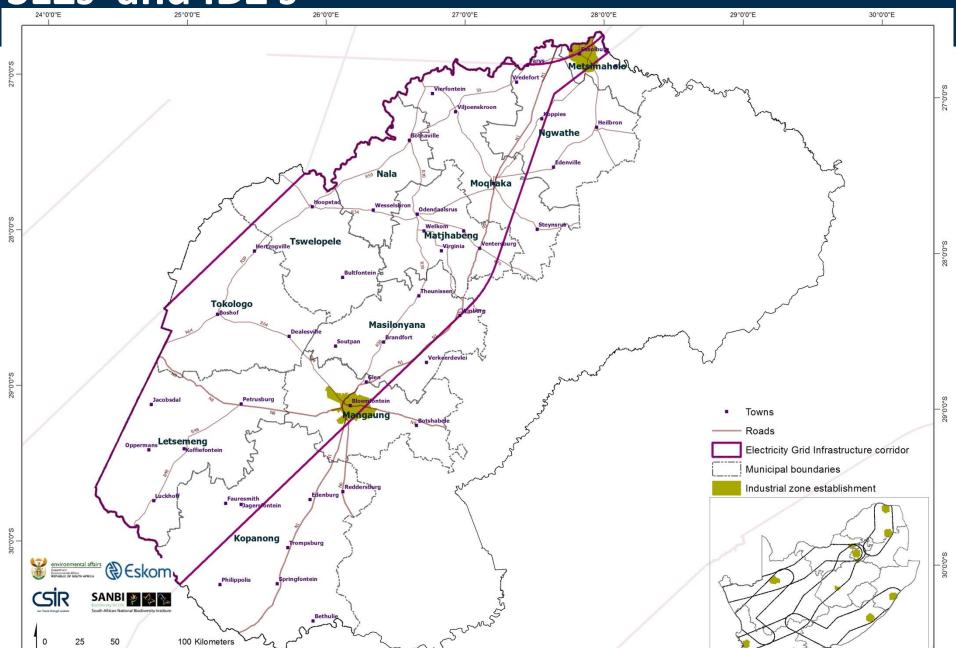
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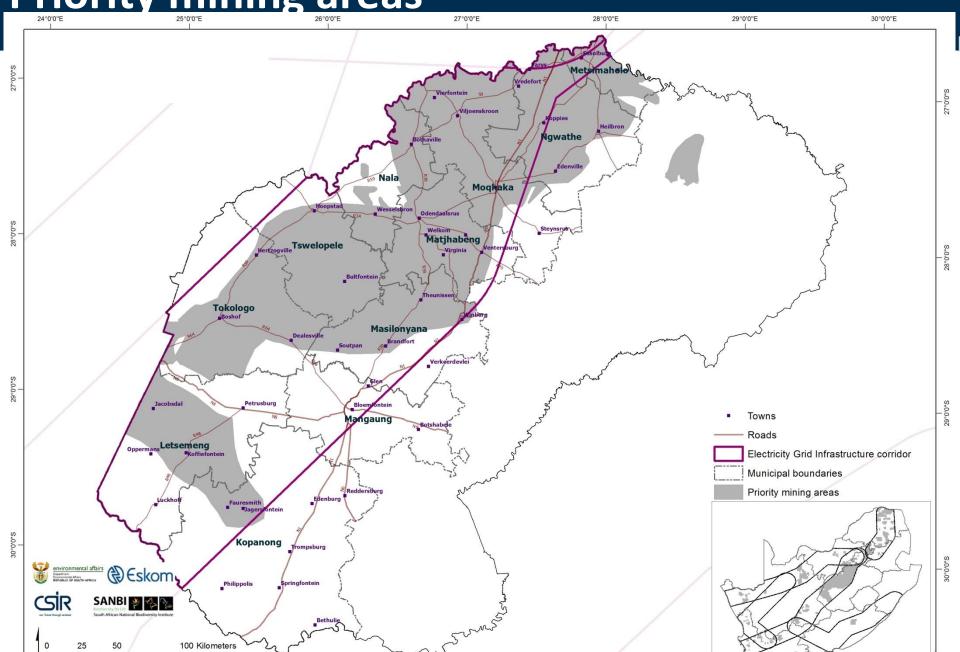
Industrial expansion



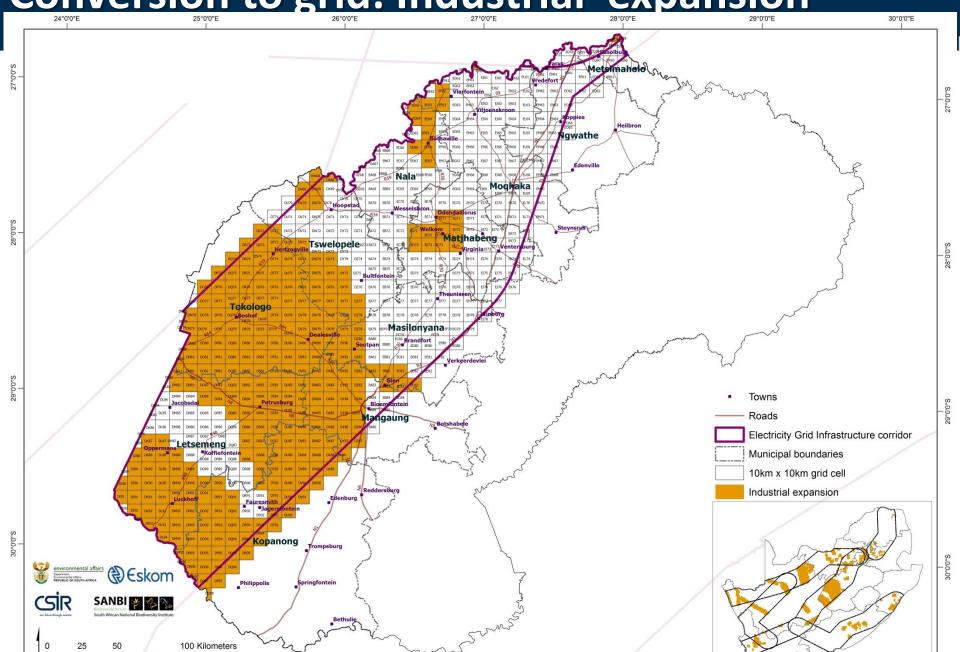
#### SEZs and IDZ's



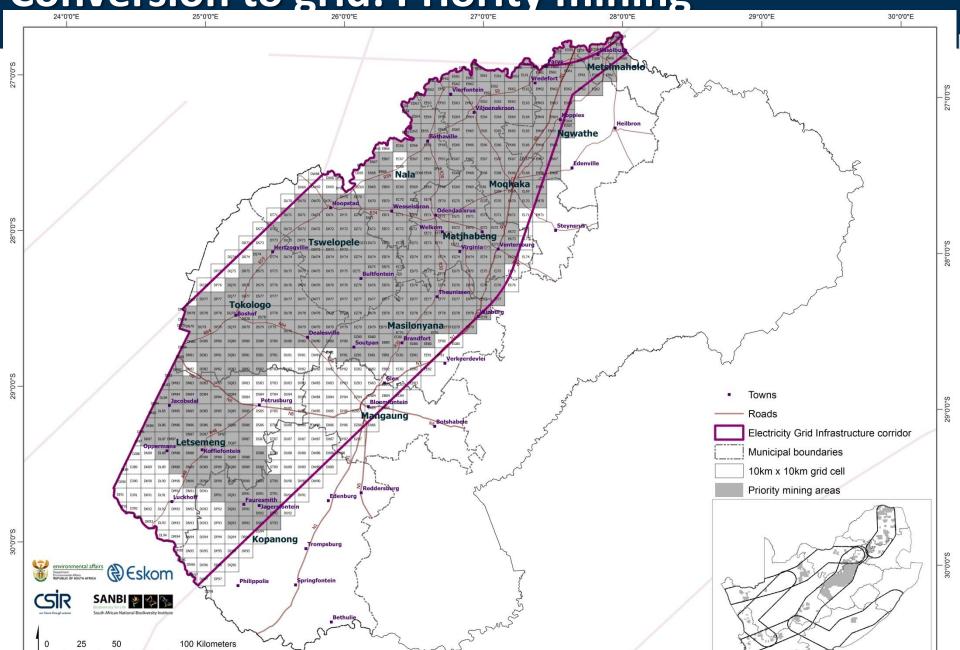
Priority mining areas



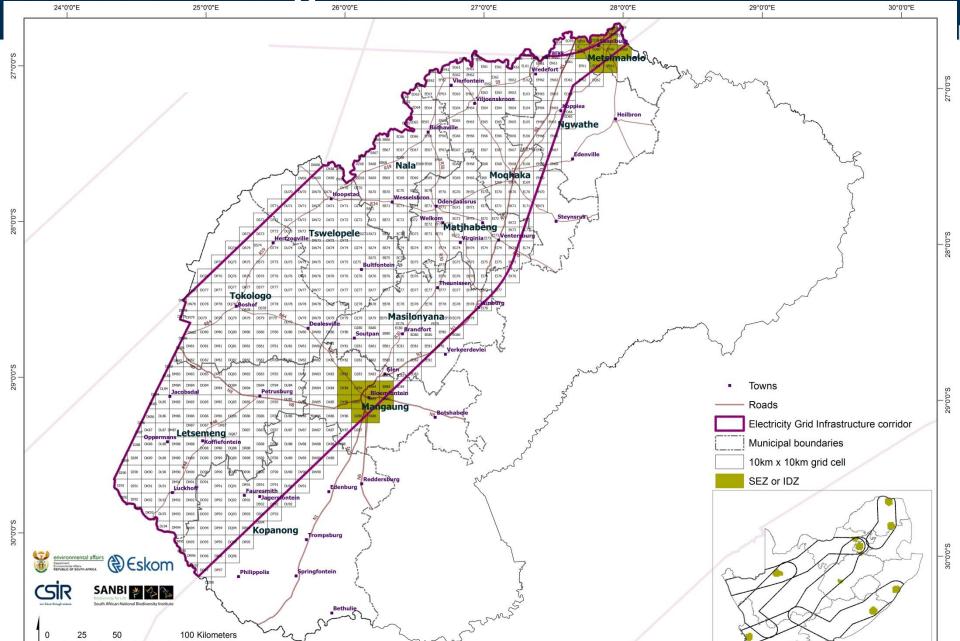
Conversion to grid: Industrial expansion



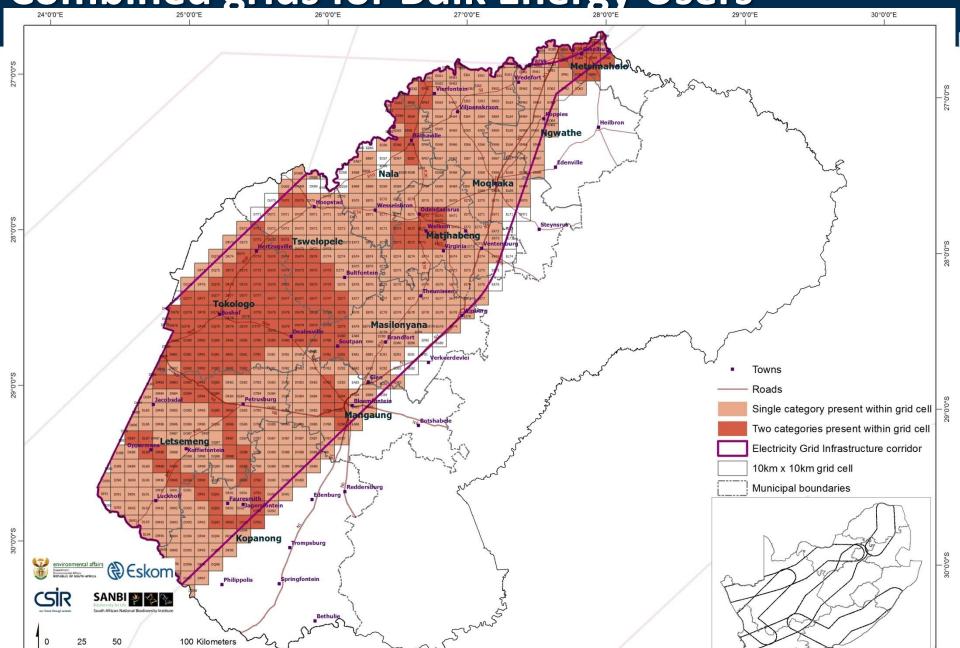
# Conversion to grid: Priority mining



# Conversion to grid: SEZs or IDZs



#### **Combined grids for Bulk Energy Users**



#### **Additional Data Collected**

Priority agriculture areas

Priority tourism nodes &

landscapes

open spaces

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Additional Data Collected							
No.	Planning category	Example in SDFs	Push/Pull				
1	Urban expansion	New housing development, new shopping areas, new markets, new suburbs, existing/proposed mixed use areas	Push				
2	Industrial expansion	Light industrial areas, heavy industrial areas- within urban edge	Pull				
3	Industrial zone establishment	Areas outside the urban edge demarcated for special/strategic economic developments	Pull				
4	Planned transportation routes	Proposed linkages; roads, taxi/train/bus stations; activity corridors	Push				
5	Priority mining areas	Existing mining activity, proposed/potential mining activity	Pull				

High potential agricultural areas;

intensive/extensive agricultural areas;

existing/proposed agricultural nodes;

Priority natural areas & Municipal/Urban Open Space; Conservation Area; Push/pull

Existing/proposed game farms; conservancies;

scenic routes, heritage areas; botanical gardens

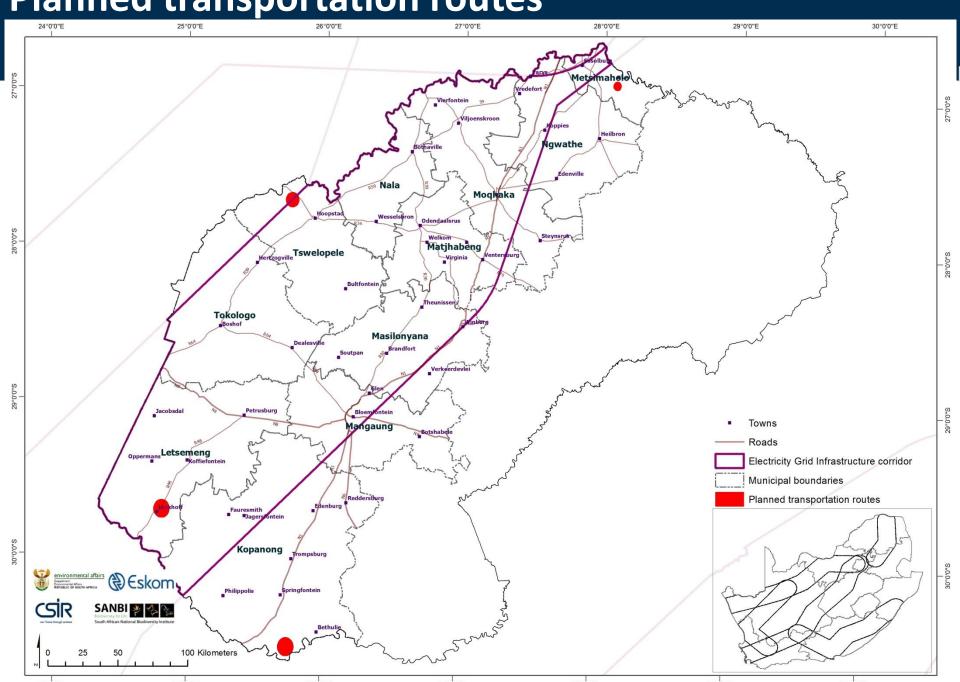
Parks, Recreation; CBA; ESA rivers; wetlands

Pull

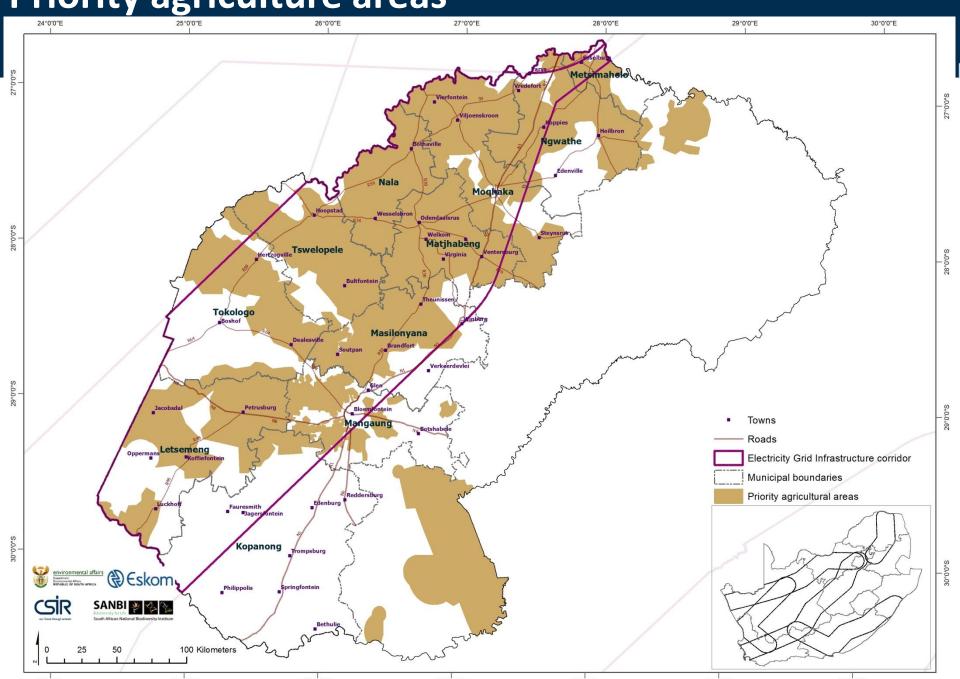
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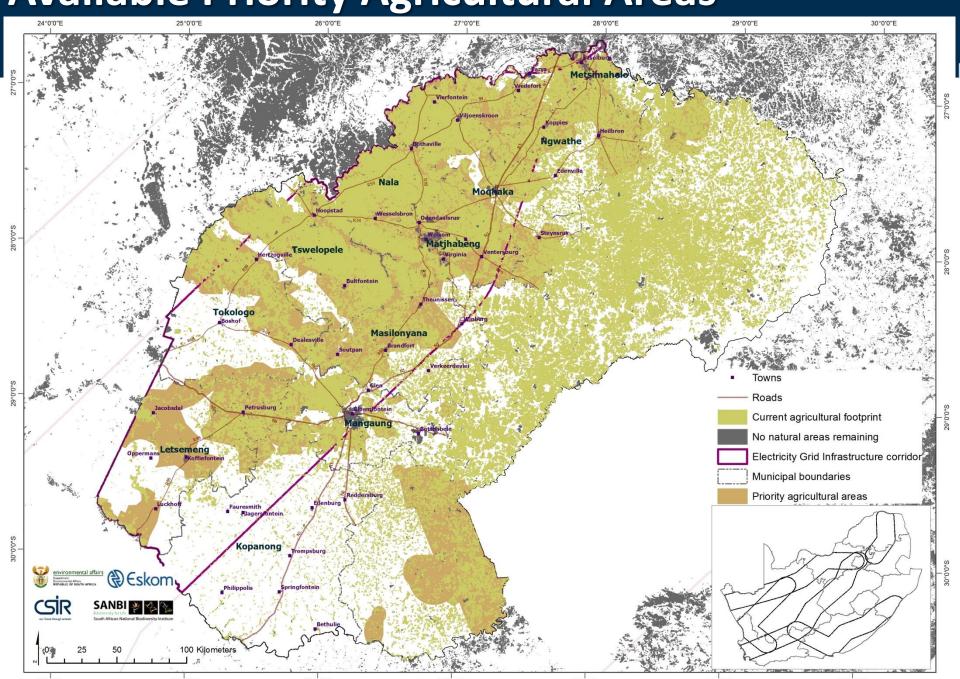
Planned transportation routes



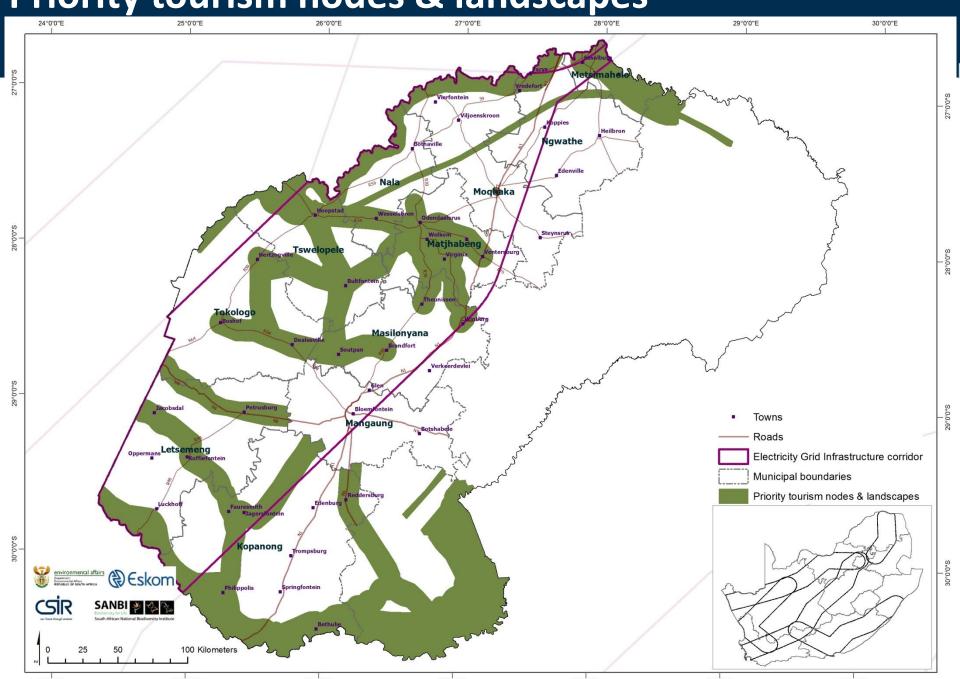
**Priority agriculture areas** 



# **Available Priority Agricultural Areas**



Priority tourism nodes & landscapes



Priority natural areas & open spaces 29°0'0"E Ngwathe Moglitaka Matjhabeng Hertzogville Tswelopele Tokologo Masilonyana Mangaung Towns Oppermans Letsemeng Roads Electricity Grid Infrastructure corridor Municipal boundaries Kopanong environmental affairs

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#### **Conclusions and way forward**

The information we were able to extract was useful for refining future demand

Ultimate use depends on feedback gathered during the consultation for refinement of the data









#### **Questions and Discussion**

