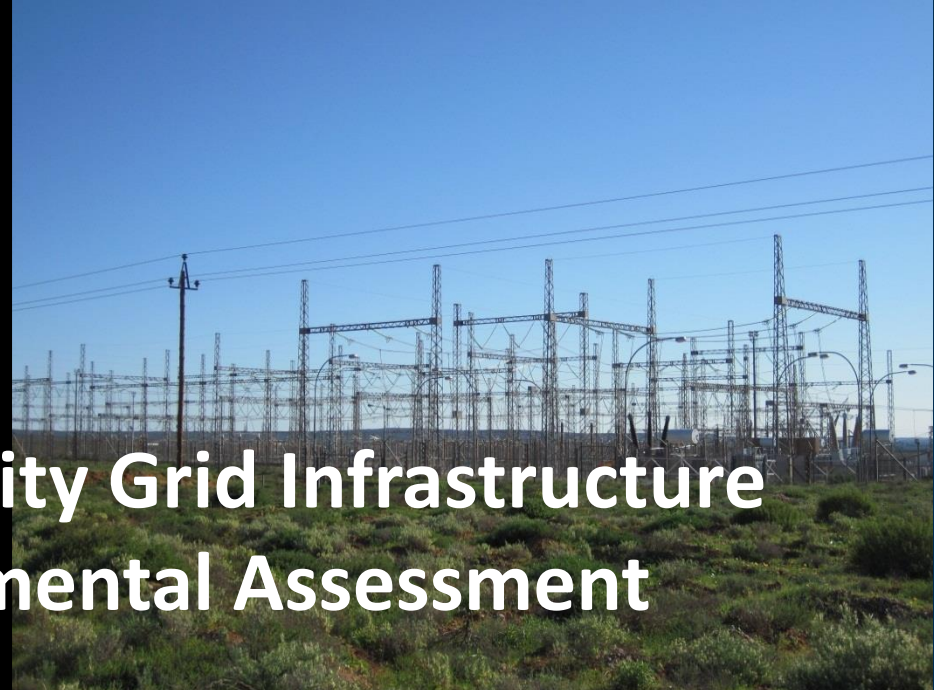




# DEA National Electricity Grid Infrastructure Strategic Environmental Assessment



## Corridor Refinement (Phase II)



environmental affairs  
Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

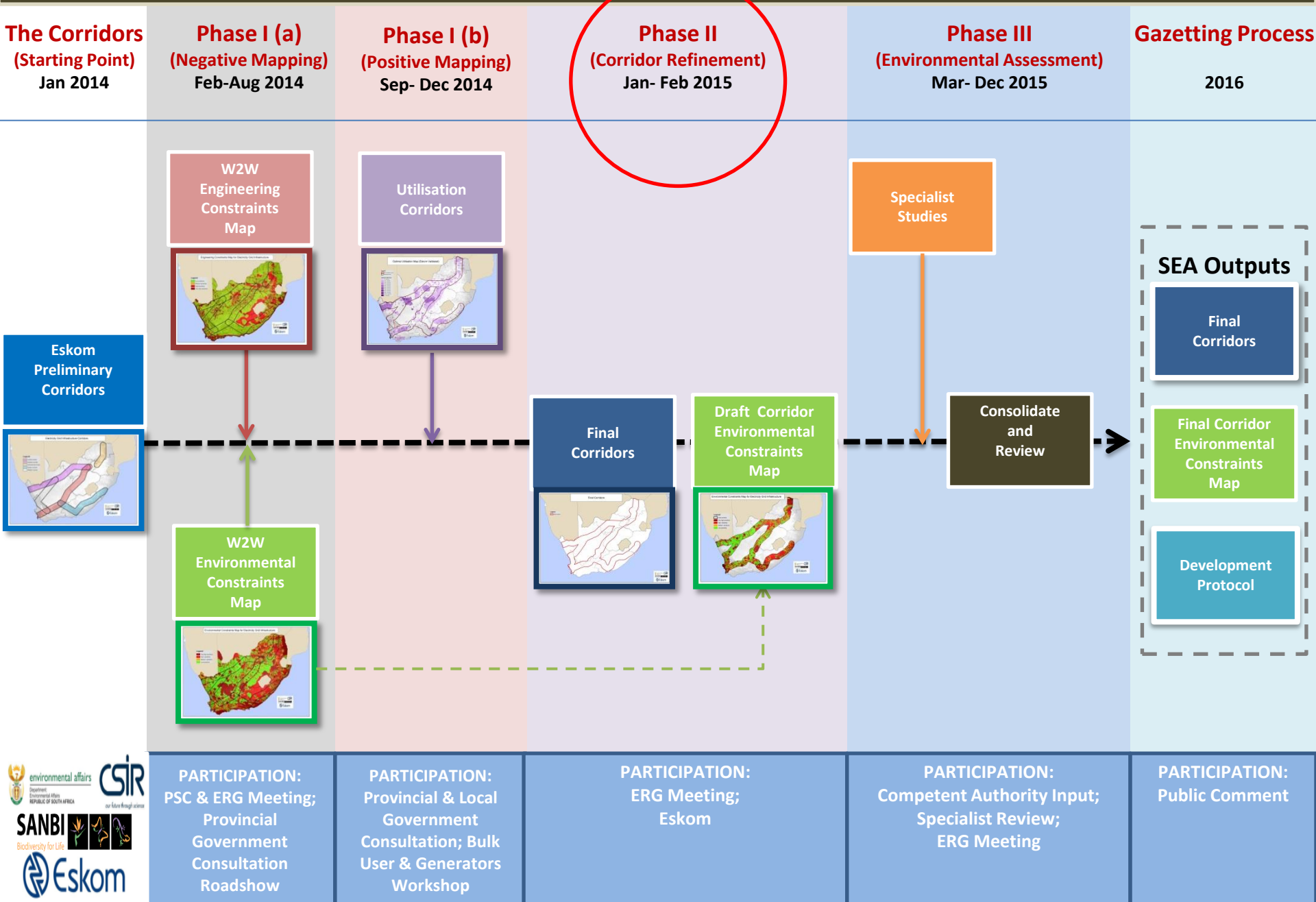
**CSIR**  
our future through science

**SANBI**  
Biodiversity for Life



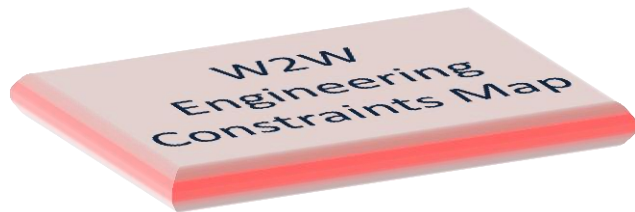
 **Eskom**

# EGI SEA PROCESS



# Phase II: Corridor Refinement Process (Pinch Point Analysis)

## Phase 1a: Overlays



## Phase 1b: Foundation

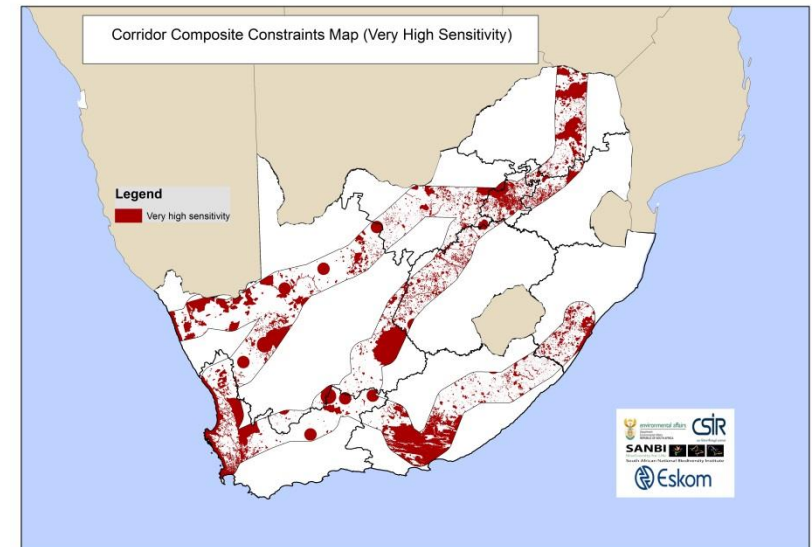
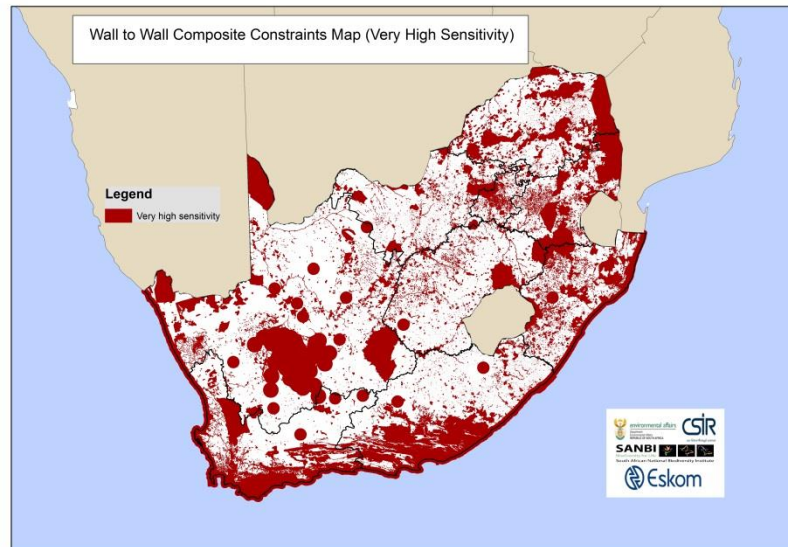
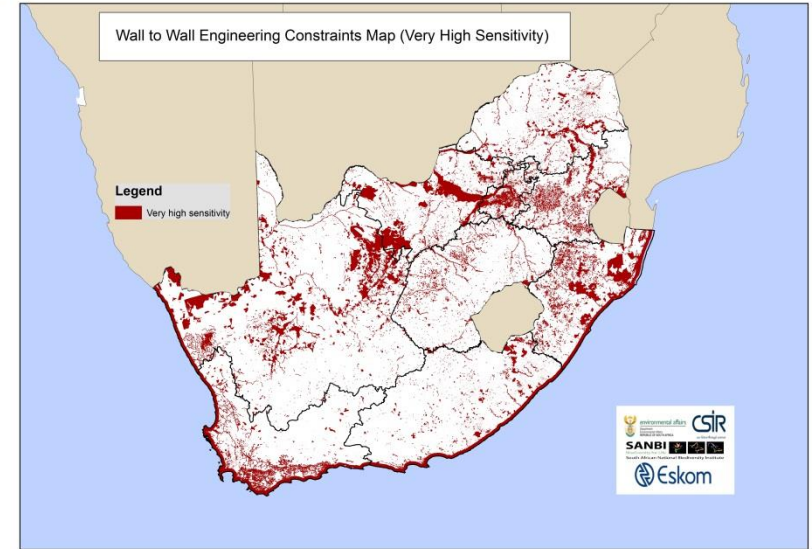
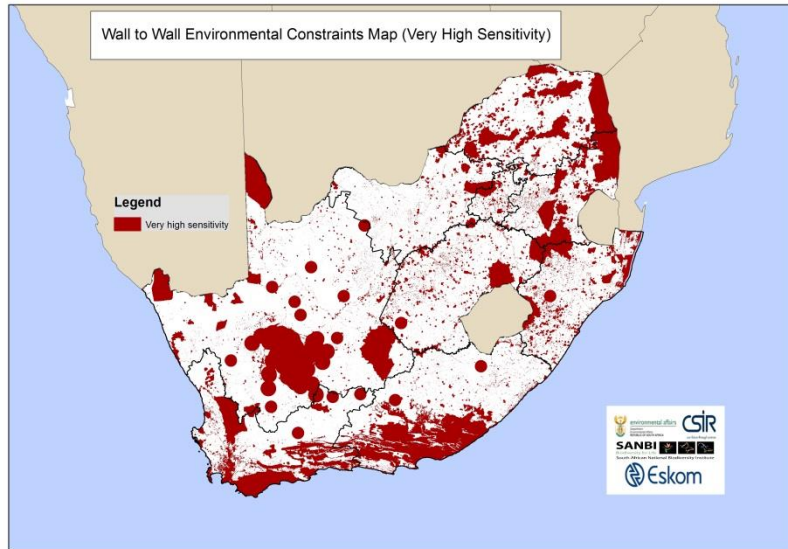
## Pinch Point Analysis

- Combine VH sensitivity areas
- Merge remaining routing area (compositions of H, M and L sensitivities);
- Overlay with land parcels dataset;
- Routing analysis
- Identify partial (<5 routing options) and complete (no routing options) pinch points for each corridor;
- Adjust corridor in direction of relief, where possible.

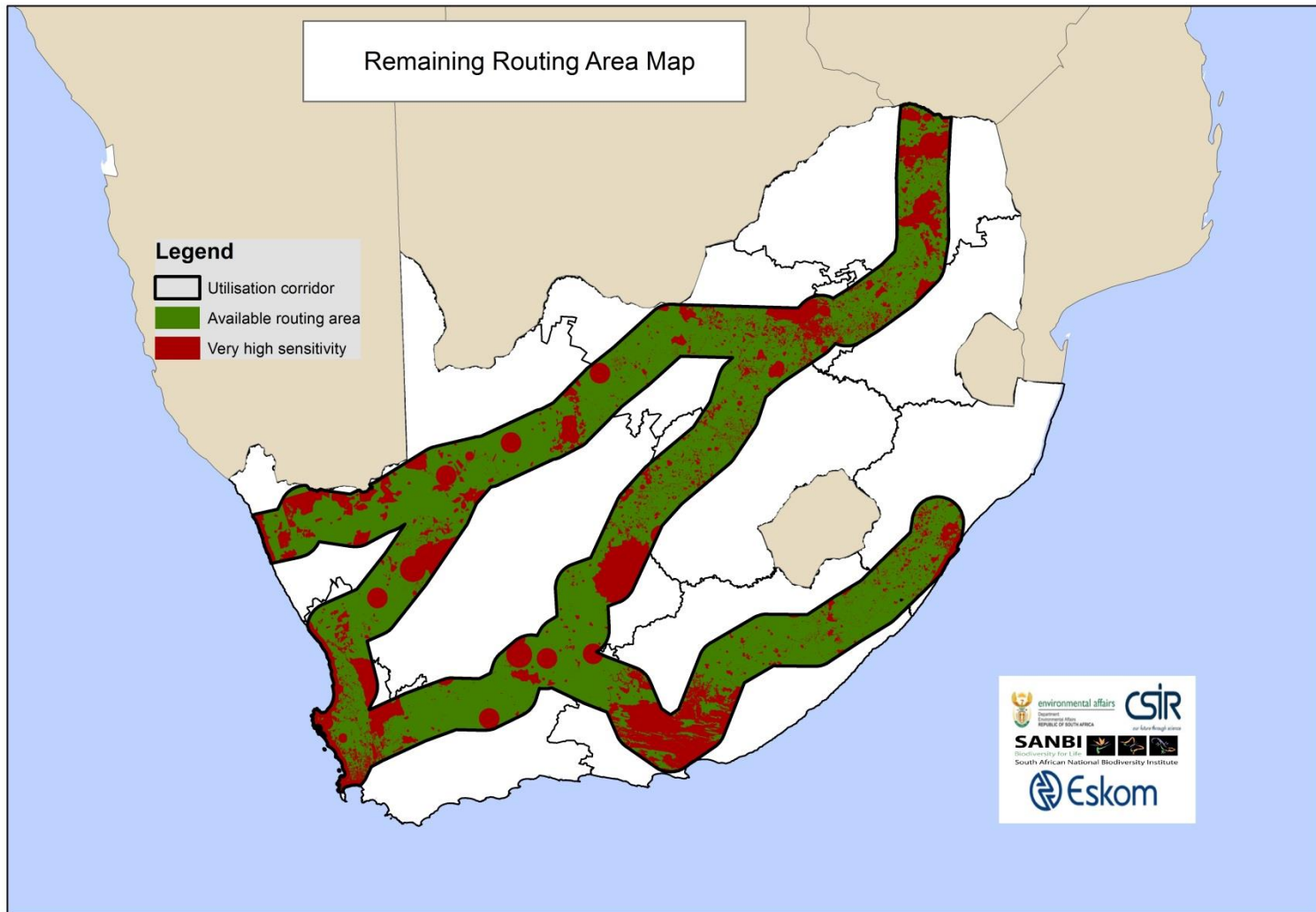




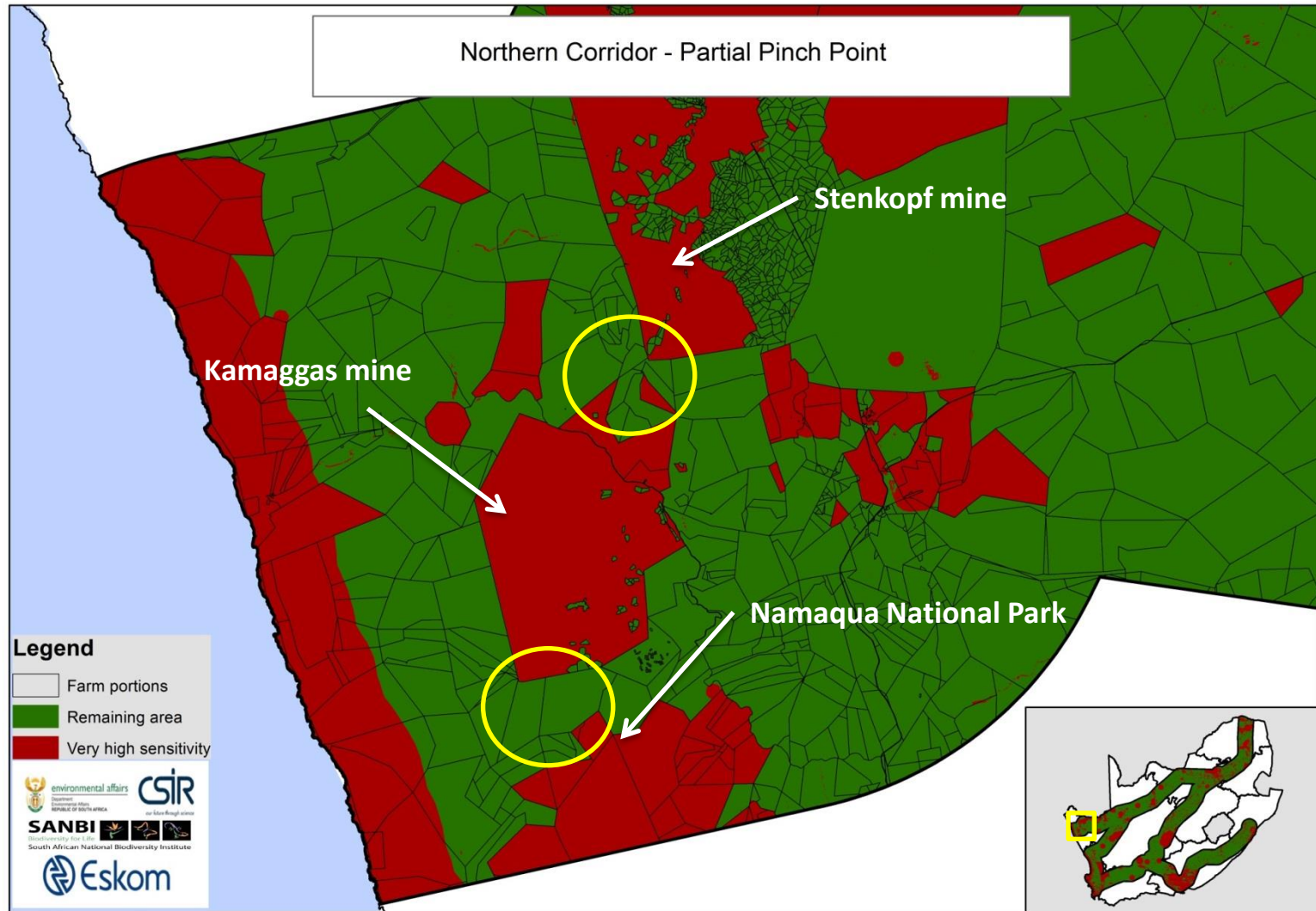
# Constraints Map Overlay (Very High Sensitivity)



# Remaining Routing Area

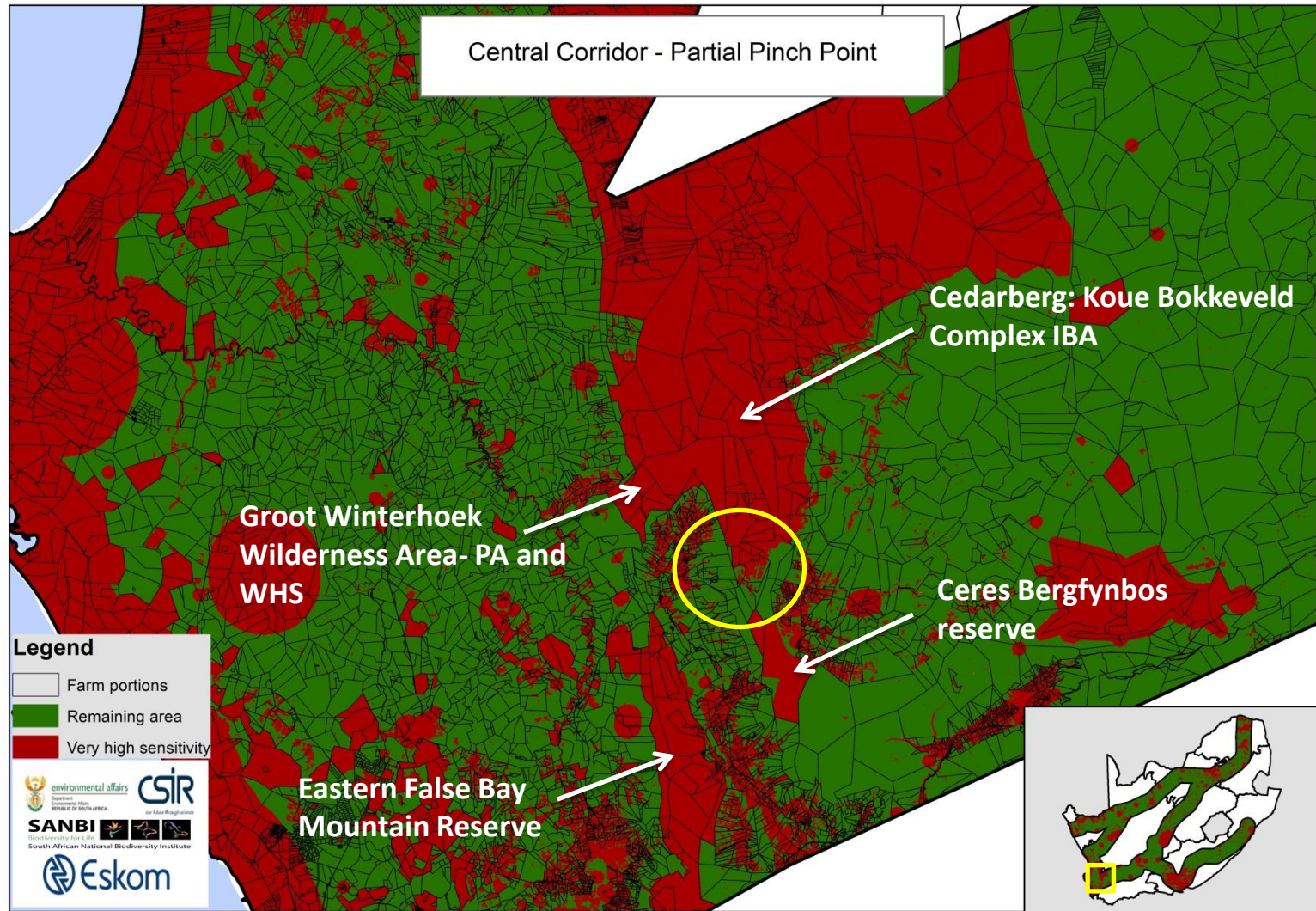


# Northern Corridor- Partial Pinch Point

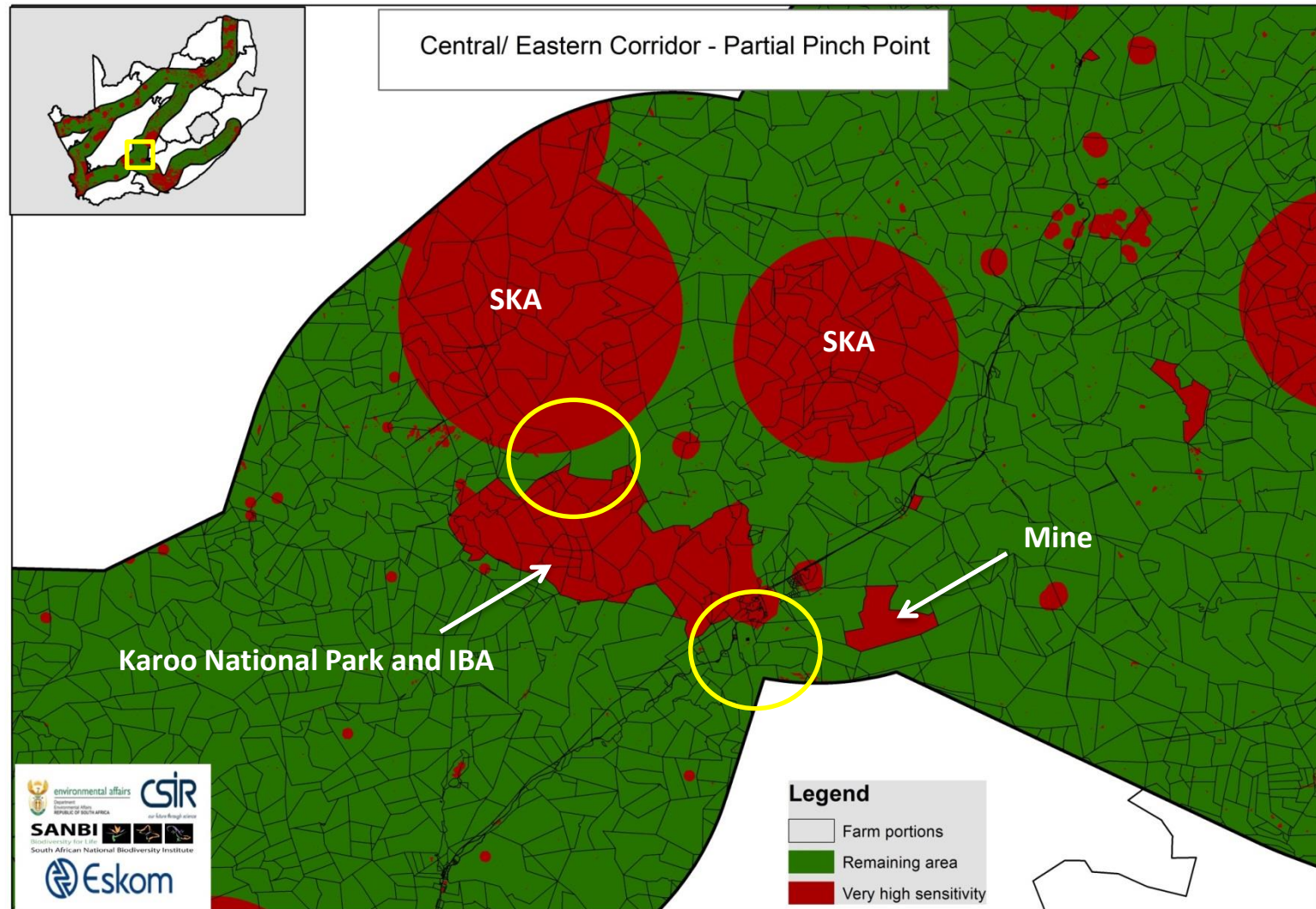




# Central Corridor- Partial Pinch Point

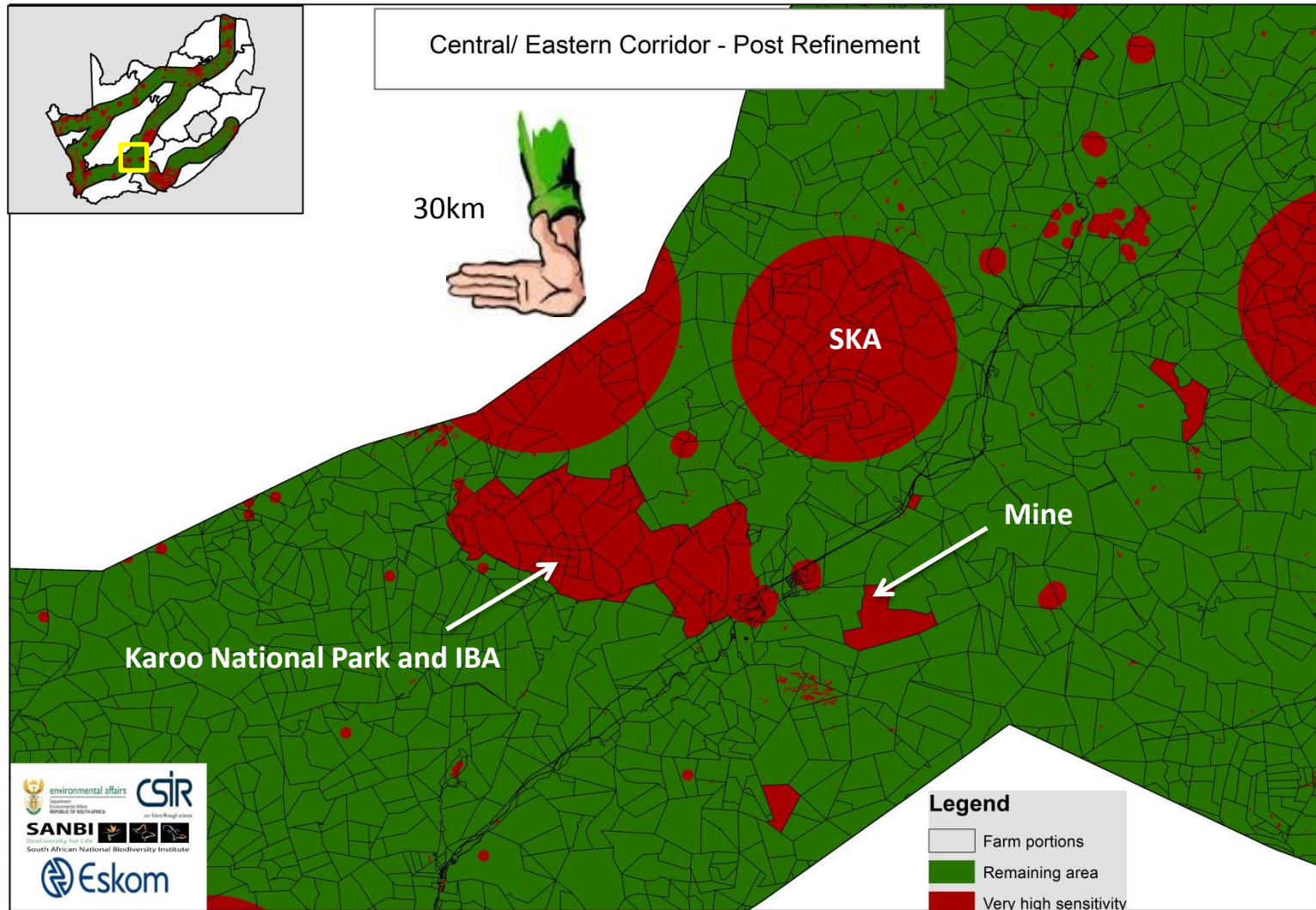


# Central/ Eastern Corridor- Partial Pinch Point

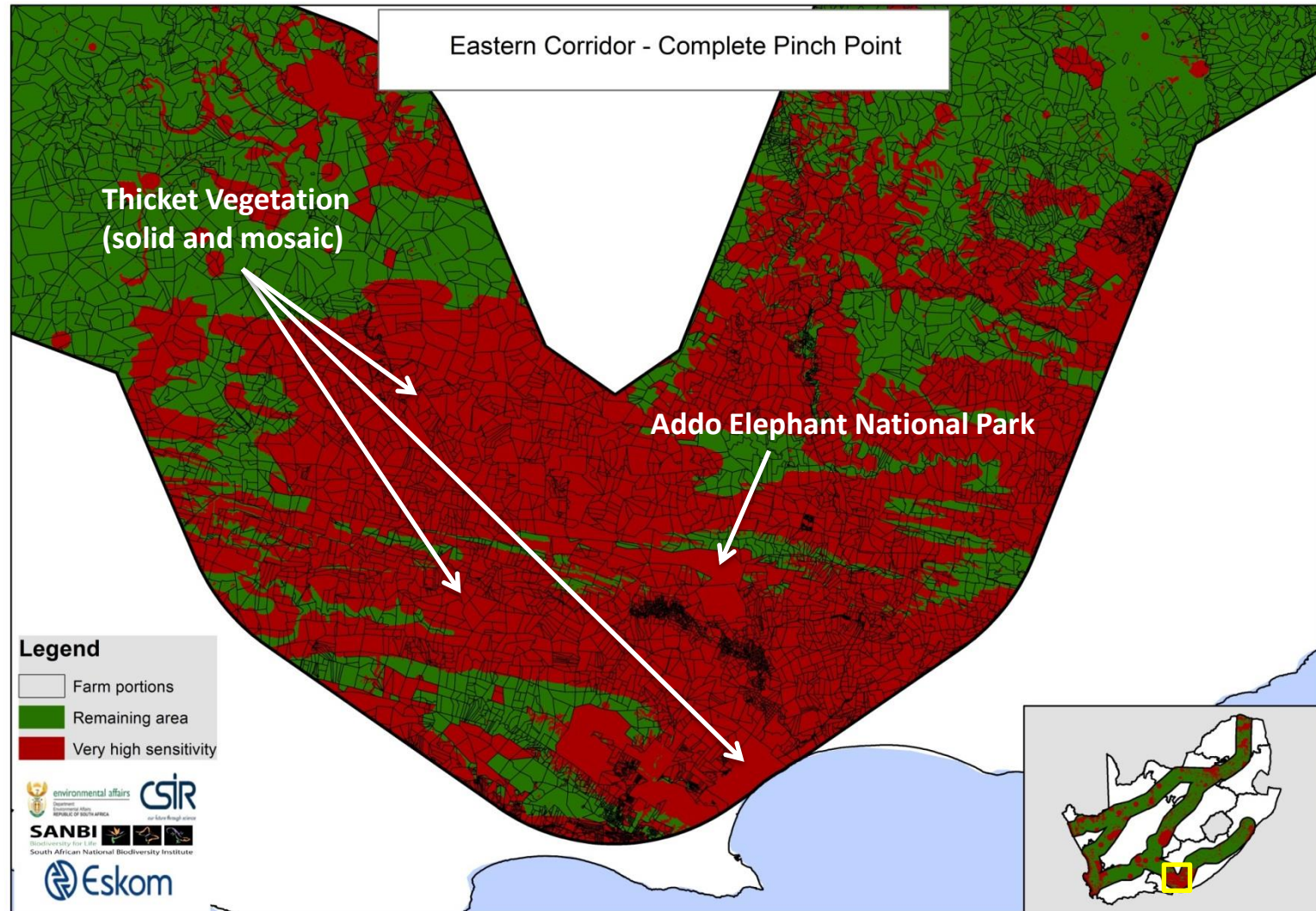




# Central/ Eastern Corridor- Post Refinement

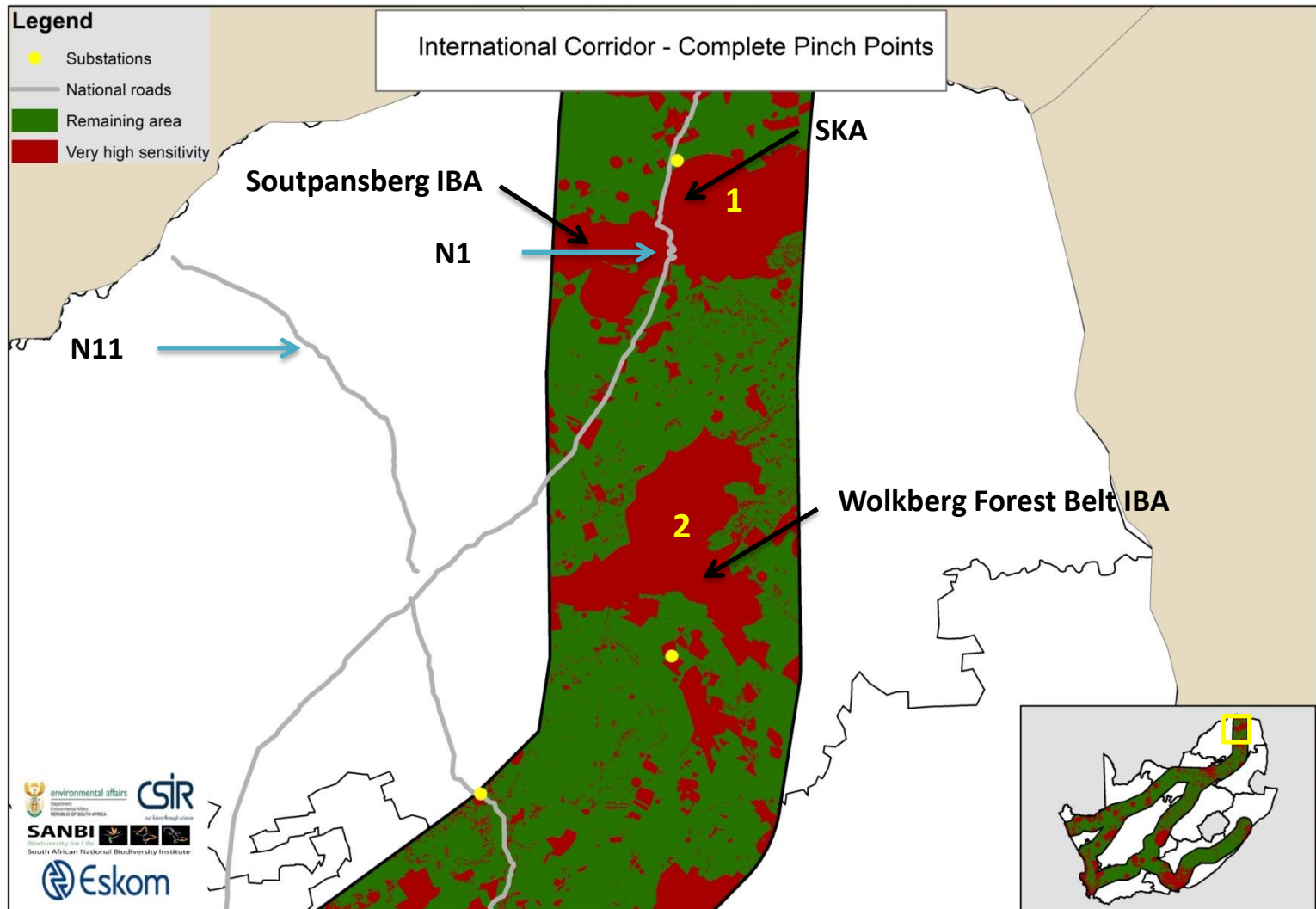


# Easter Corridor- Complete Pinch Point

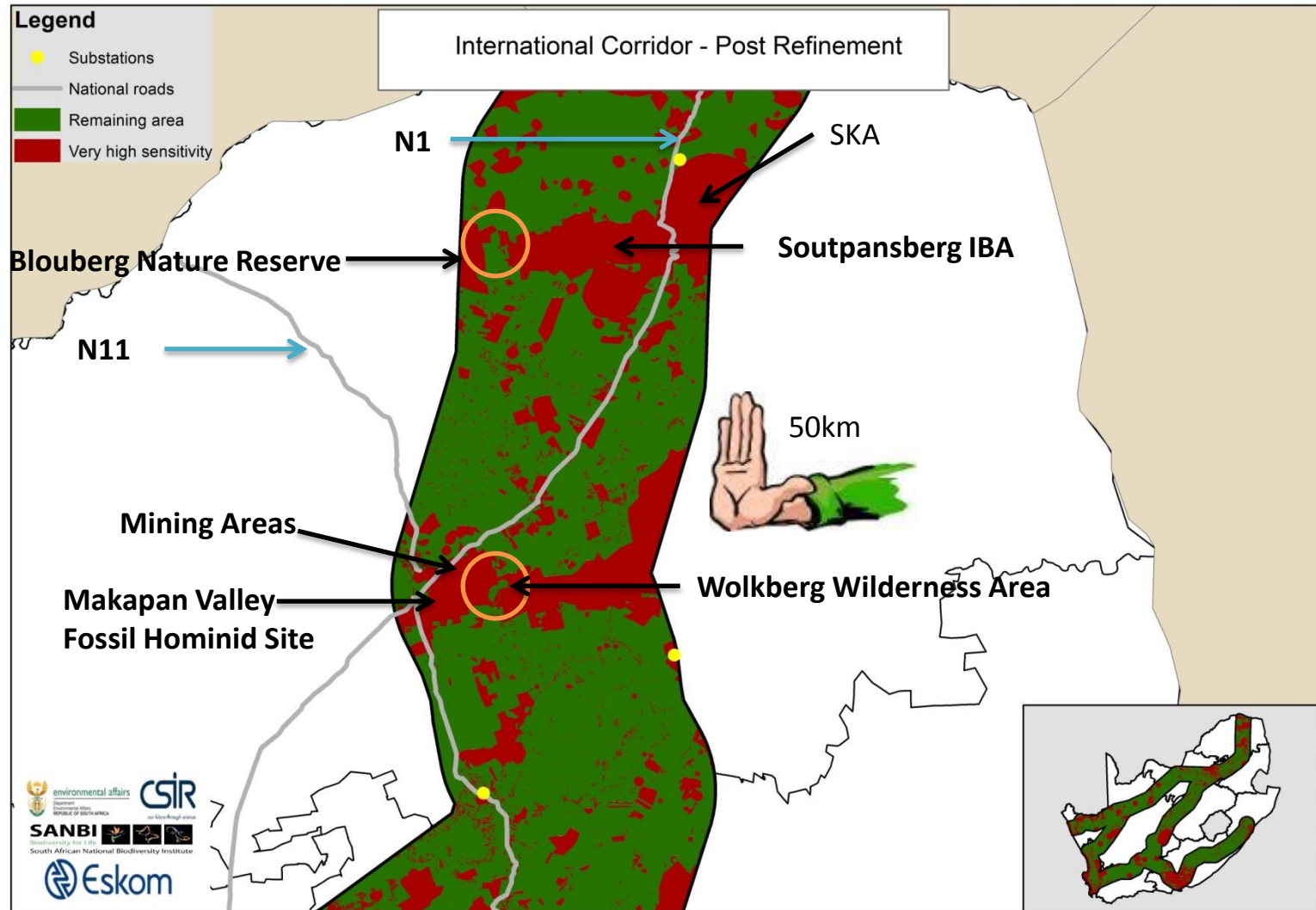




# International Corridor- Complete Pinch Points

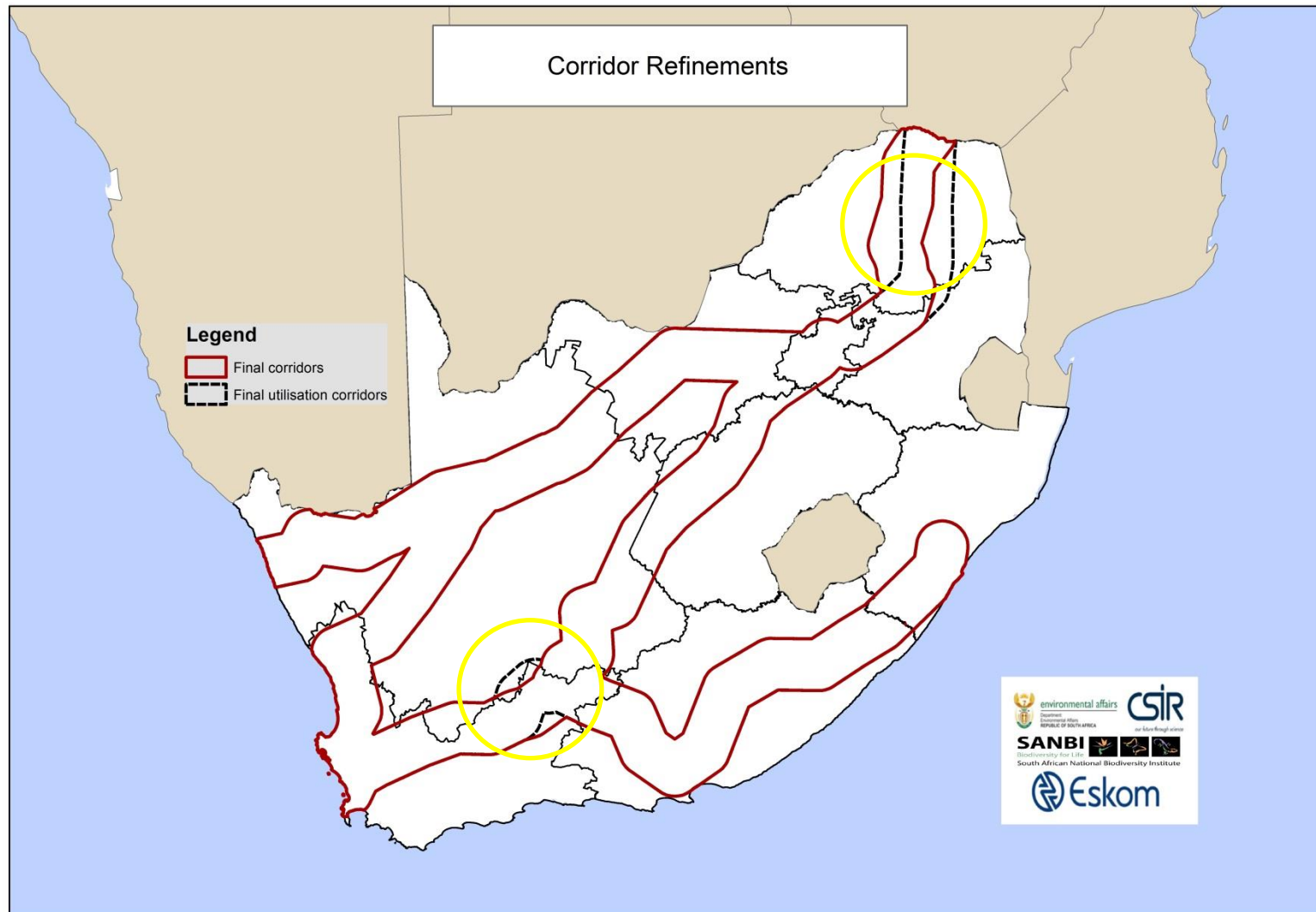


# International Corridor- Post Refinement



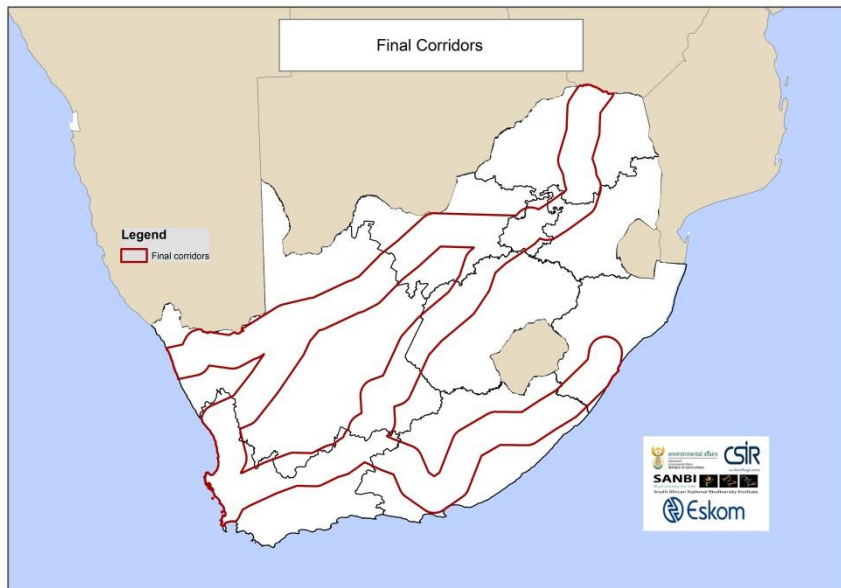


# Pinch Point Corridor Refinements

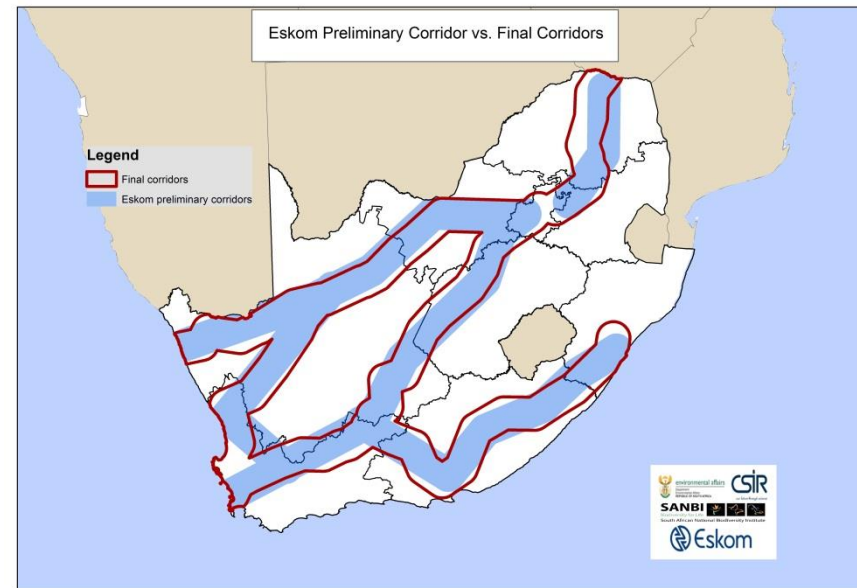


# Final Corridors

## Final Corridors

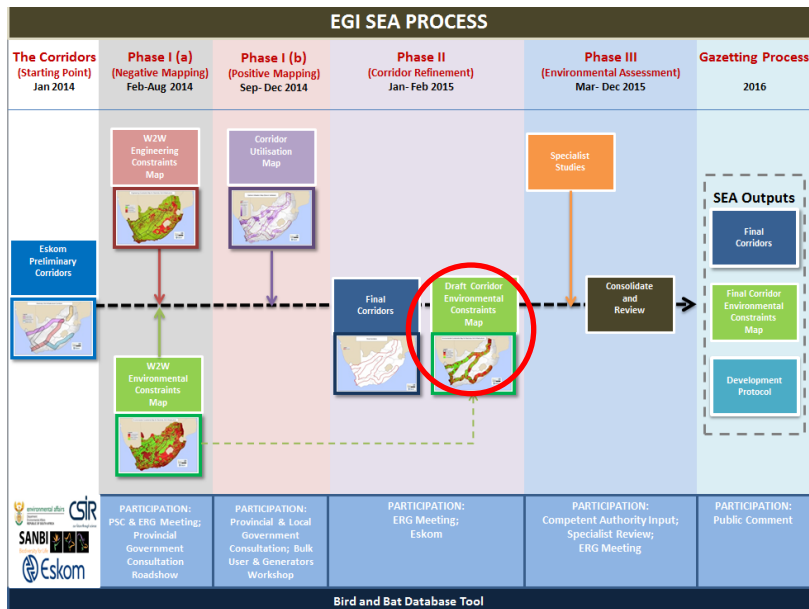


## Final Corridors vs Eskom Preliminary Corridors

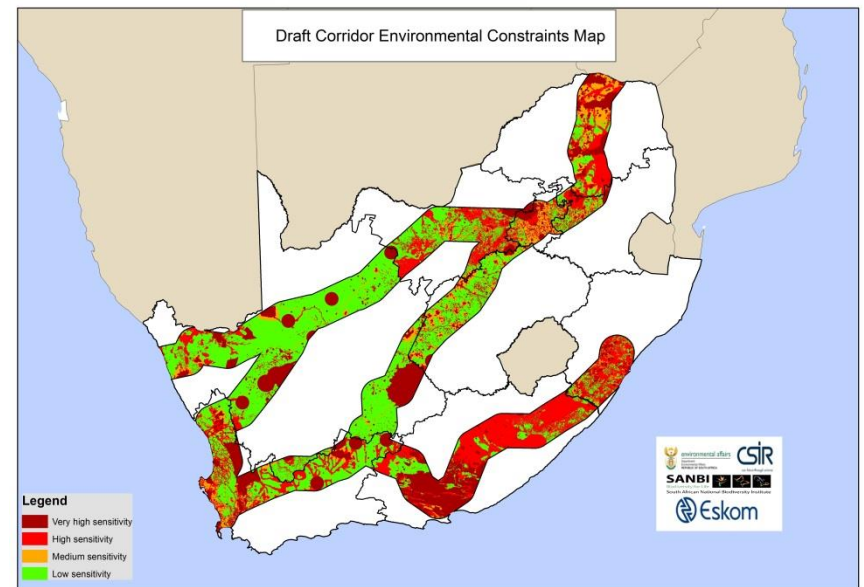




# Draft Corridor Environmental Constraints Map



## Draft Corridor Environmental Constraints Map



Phase III  
(Specialist Studies)

# Questions?

EGI SEA Webpage: <https://egi.csir.co.za/>

Marshall Mabin  
CSIR Environmental Management Services  
Tel: 021 888-2561 / Fax: 021 888-2693  
Email: [mmabin@csir.co.za](mailto:mmabin@csir.co.za)

