

National Climate Change Response Dialogue 2014



**Adaptation/Mitigation in South
African Cities and Provinces
12 November 2014**

Can local government be resilient to climate change?

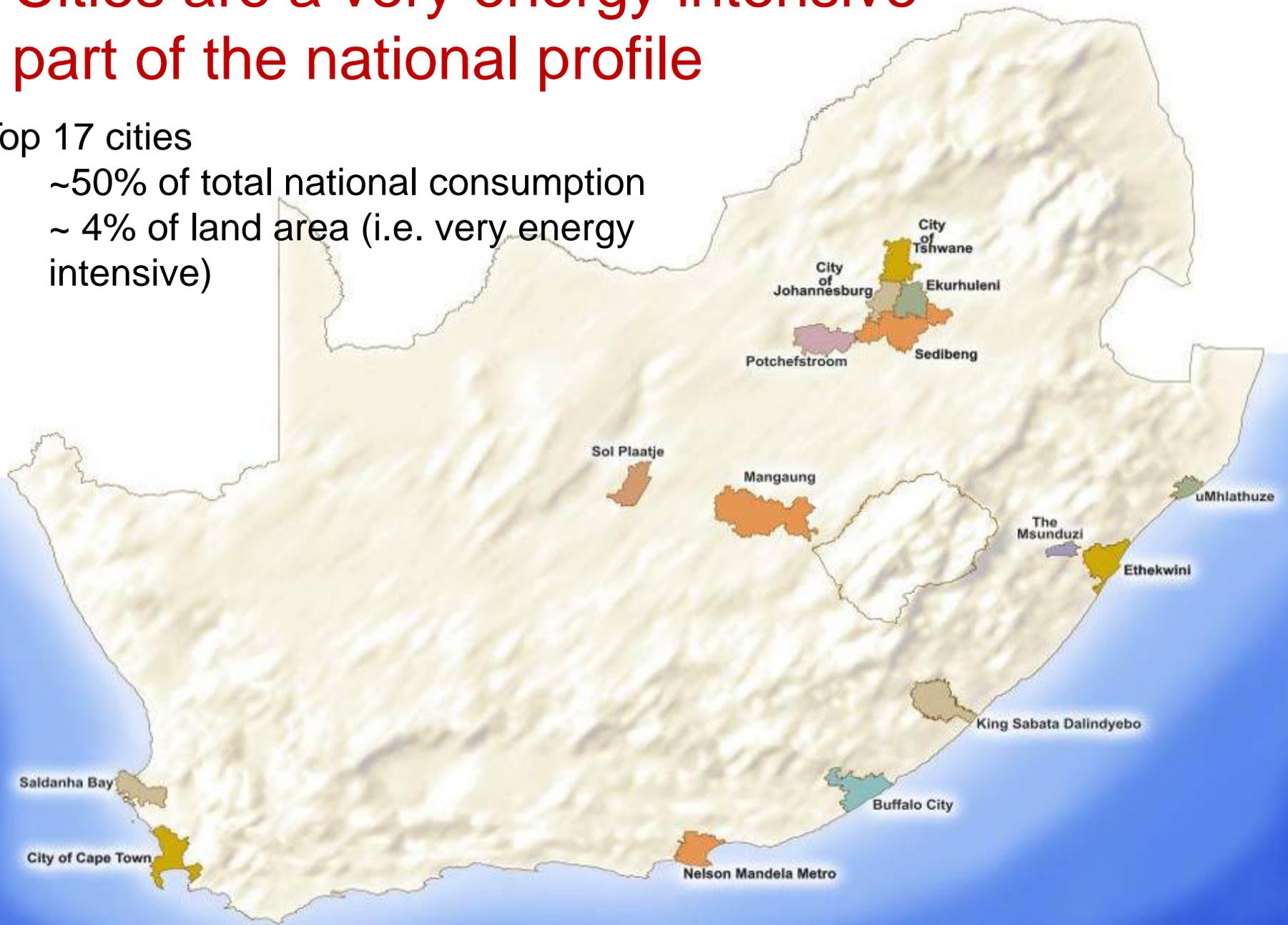


Cities are a very energy intensive part of the national profile

Top 17 cities

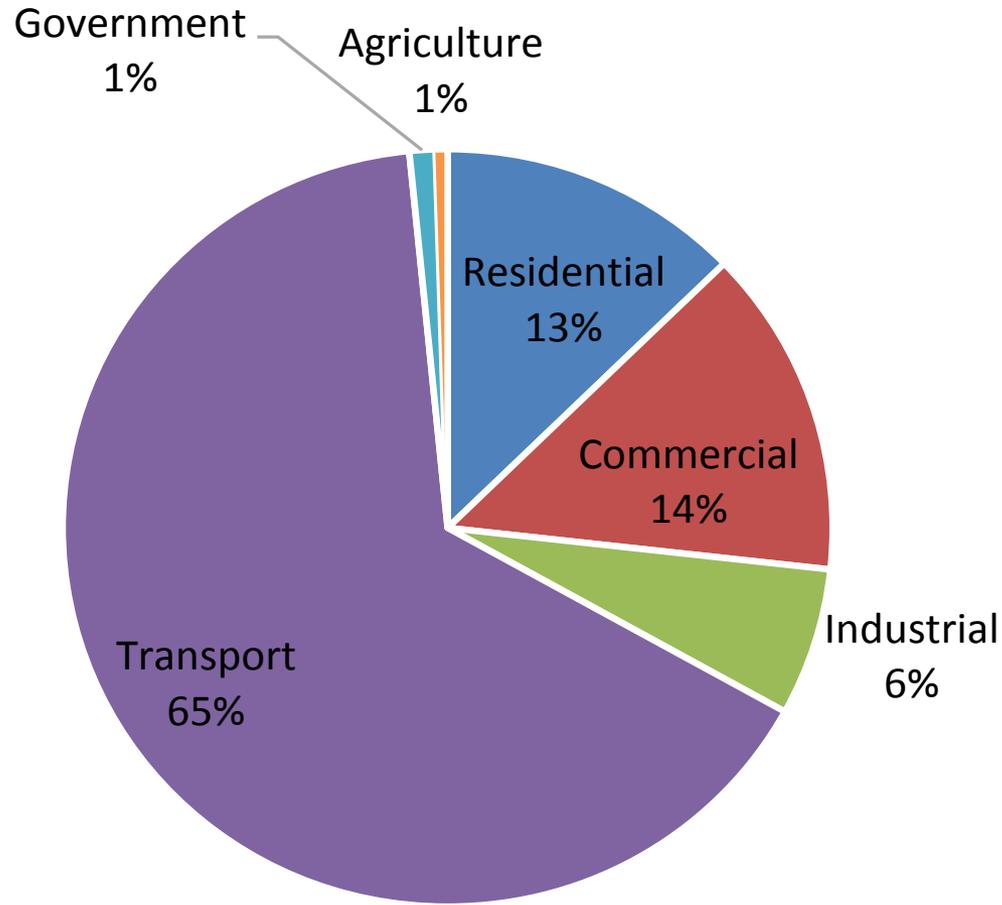
~50% of total national consumption

~ 4% of land area (i.e. very energy intensive)



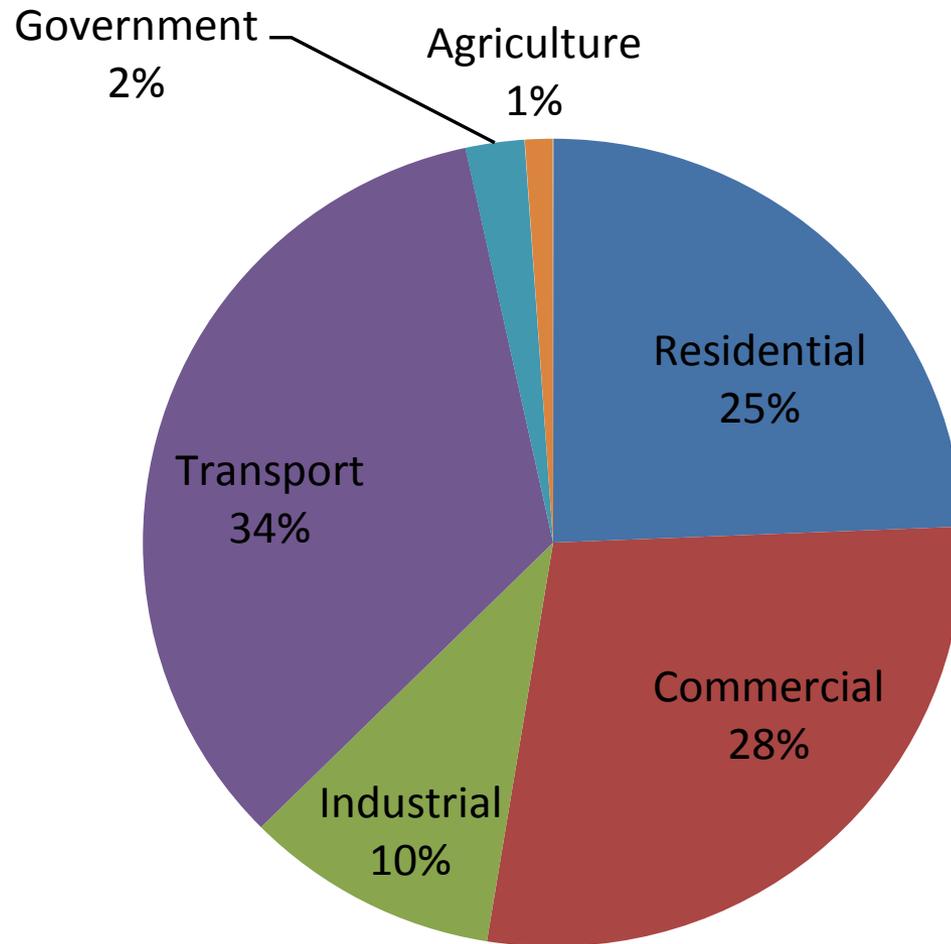
Energy consumption by sector (Cape Town)

Cape Town energy by sector 2012



Emissions by sector

Cape Town emissions by sector

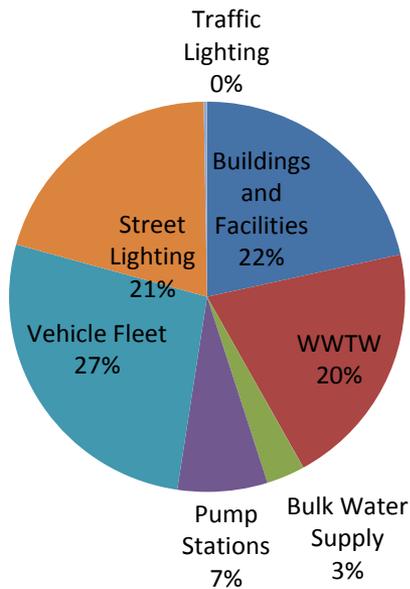


Sustainable Energy Interventions

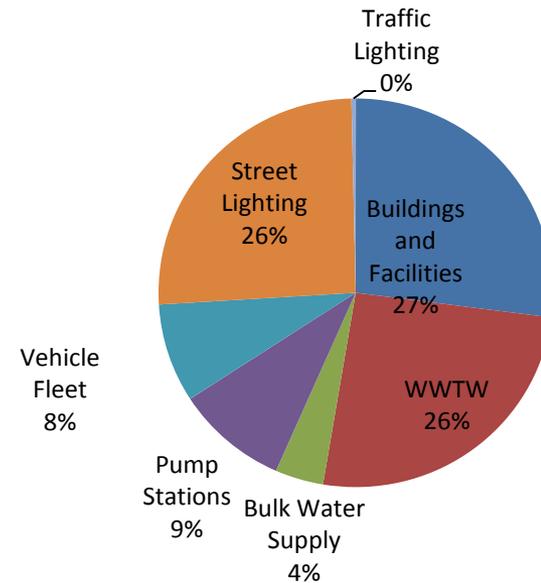


Local government internal energy consumption: 1-2% of total energy

Local government energy use



Local government emissions



Municipal Own Operations

- **Lighting**
- **Rooftop PV**
- **Waste water treatment**
- **Vehicle efficiency**
- **Public lighting**



Solar Water Heater Programme

- Business unusual – City partnership with sustainable energy businesses
- Open accreditation programme
- City's opinion highly valued by residents, so accreditation holds weight
- Accredited businesses benefit from City credibility, advertising and awareness raising
- <http://saveelectricity.org.za/index.php>

ACCREDITED
SOLAR WATER HEATER PROGRAMME
SERVICE PROVIDER
REGISTRATION NUMBER: 000/13



CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

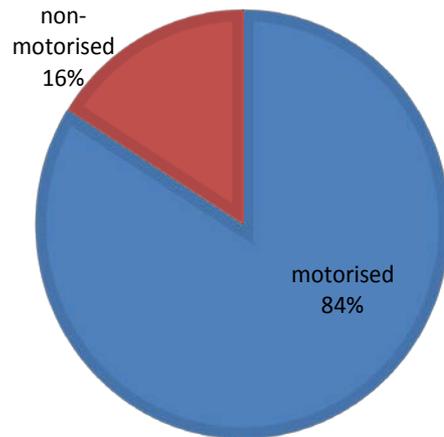
Making progress possible. Together.

Embedded Generation

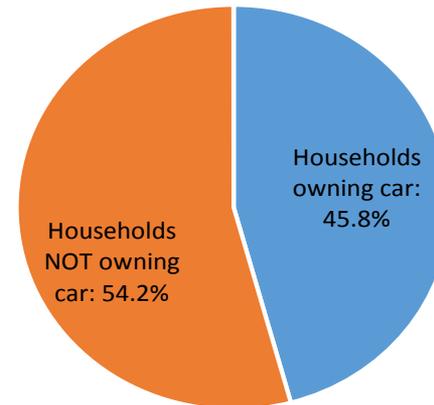


Transport and mobility

Motorised vs NMT Modal split Cape Town, 2012

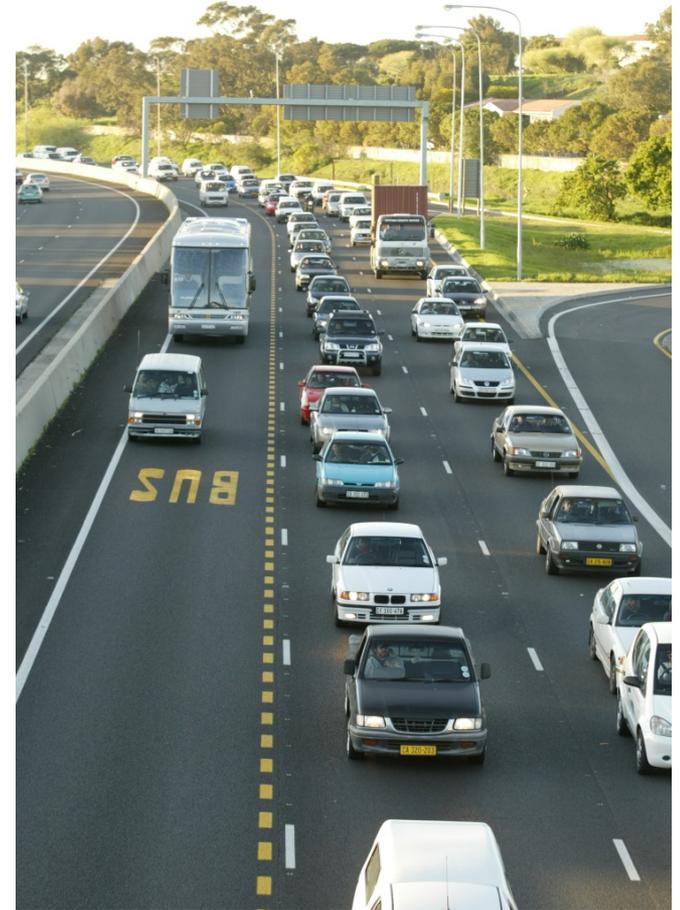


City of Cape Town Car Ownership 2011

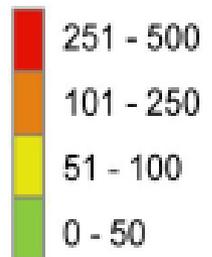




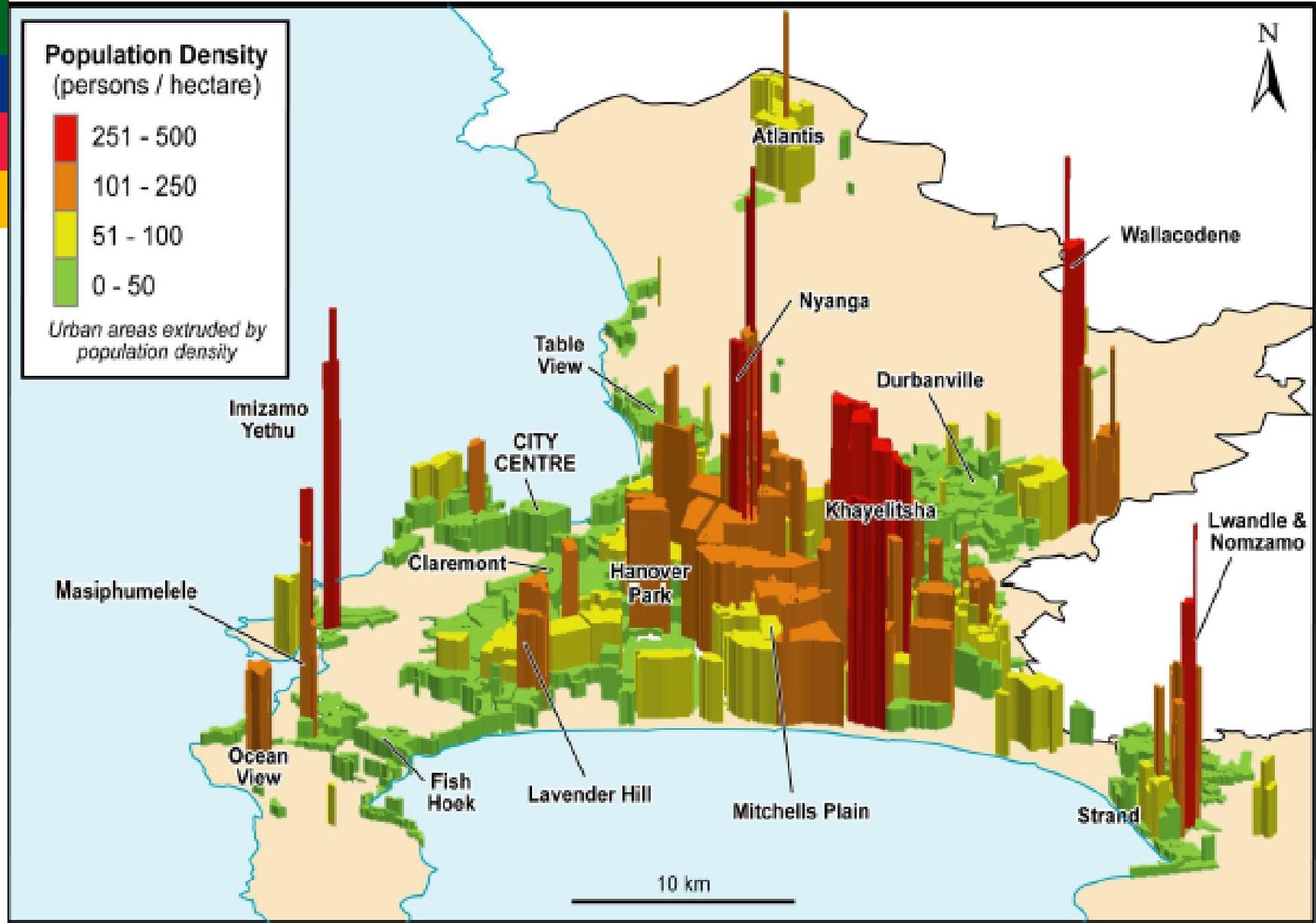
Who are we planning our cities for?



Population Density
(persons / hectare)

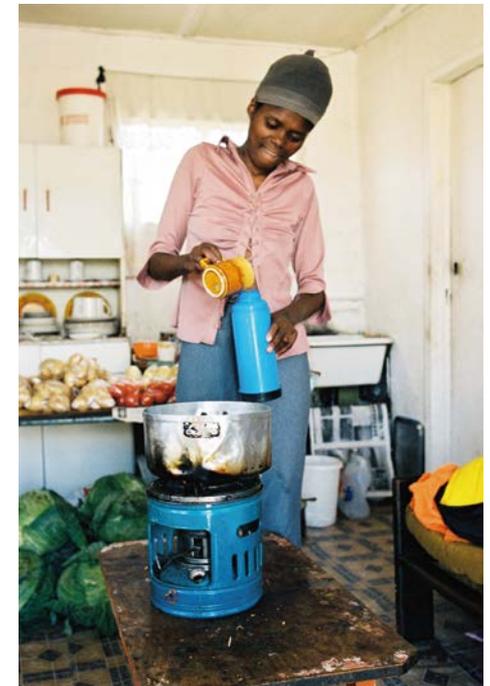


Urban areas extruded by population density



ENERGY POVERTY

- Jhb - low pressure SWH rollout
- NMB – solar home systems
- CT – low income energy services strategy
- CT - Joe Slovo



Conclusion

- South African cities and towns are responding to the impacts of climate change.
- Cities will continue to need support to reduce emissions and build equitable and resilient spaces.
- Emerging urban energy platform is an important space and partnership for that support to happen

Thank You

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