

#### Western Cape Government

Environmental Affairs and Development Planning

#### BETTER TOGETHER.

## WC ECOLOGICAL INFRASTRUCTURE INVESTMENT FRAMEWORK

DEDAT Green Economy Reference Group

Cape Town Lodge

F Balayer

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"Naturally functioning ecosystems that generate valuable services to people. It is the nature based equivalent of built infrastructure and is just as important for providing services and underpinning economic development" (SANBI, 2016)

Examples of EI:

healthy mountain catchments

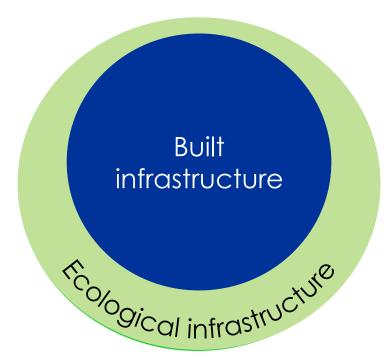
rivers

wetlands

Coastal dunes

nodes and corridors of natural habitat

...which together form a network of Interconnected structural elements in the landscape.





"An inclusive green economy is one that improves human well-being and builds social equity while reducing environmental risks and scarcities" (UN Environment)

#### Healthy intact El provides:

- Products (e.g. agricultural produce, medicines)
- Regulatory functions (e.g. flood reduction, clean air/water, stabilisation of soils)
- Life-fulfilling functions (e.g. identity based on a sense of place, recreational activities, psychological well-being)

Investment into El is a basic requirement to establish a Green Economy



## Threats to El in the Western Cape

- Unsustainable use
- Transformation
  - inappropriately sited and unlawful agriculture practices
  - Urban development and infrastructure
- Lack of coordination in management and investment within the landscape
- Land degradation
- Threats from fires
- Invasive alien species (AIS)





#### Purpose of the EIIF

- To guide decision-makers from the public and private sector in making choices around where – and how – to invest in order to promote the resilience of the Western Cape's El.
  - Provides a point of departure for further exploration and planning by investors in the context relevant to their proposal (e.g. time, spatial and institutional context of the investor, as well as the proposed investment).
- Analysed the following risks & vulnerabilities:
  - Water supply (surface & ground water)
  - Fire
  - Flooding
  - Erosion / Rangeland degradation



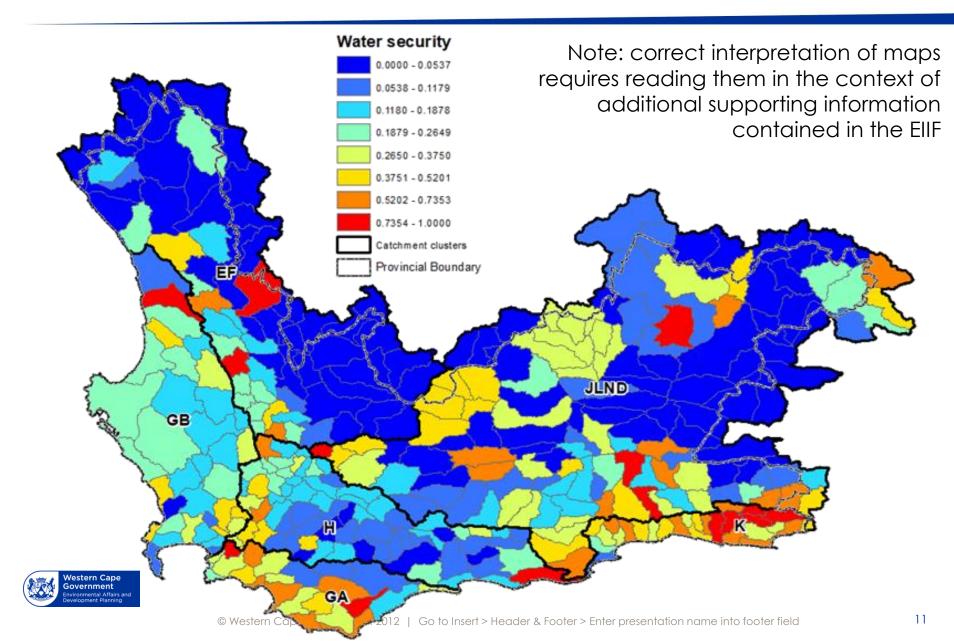
# Opportunities for El restoration through investment strategies which focus on collaborative funded interventions:

Control of AIS (Alien Invasive Species Strategy) & fuel load reduction

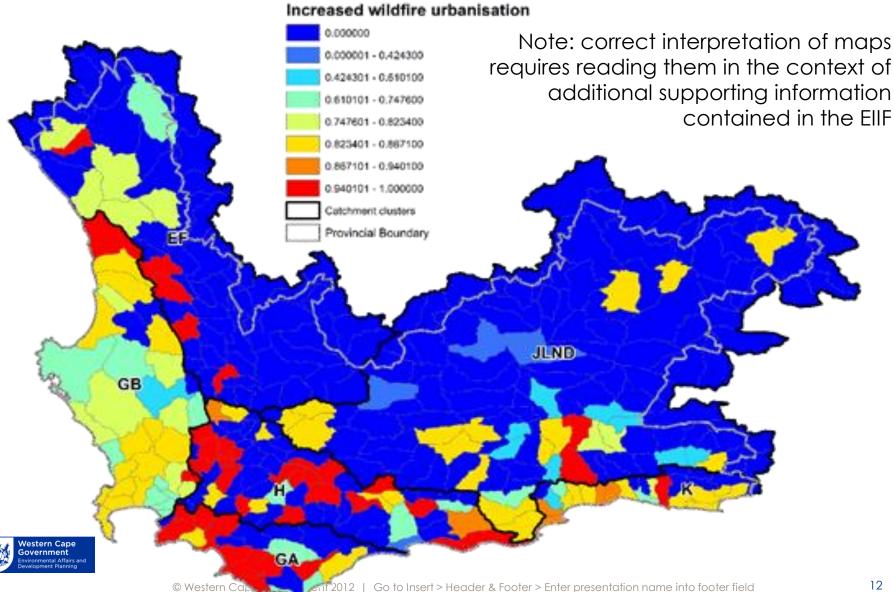
- Via Management Unit Control Plans (MUCPs)
- General ecosystem rehabilitation
- Protection and rehab of rivers, wetlands & estuaries
- Conservation Agriculture
- Integrated Fire management
- Indirect mechanisms:
  - Improved awareness; better M&E; better planning, etc.



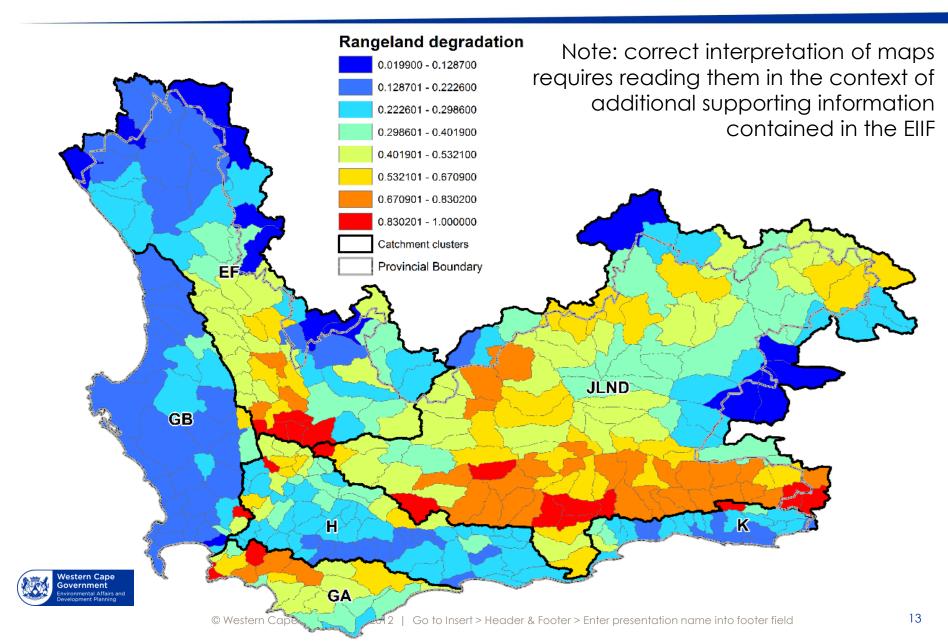
## Spatial catchment prioritisation – water security



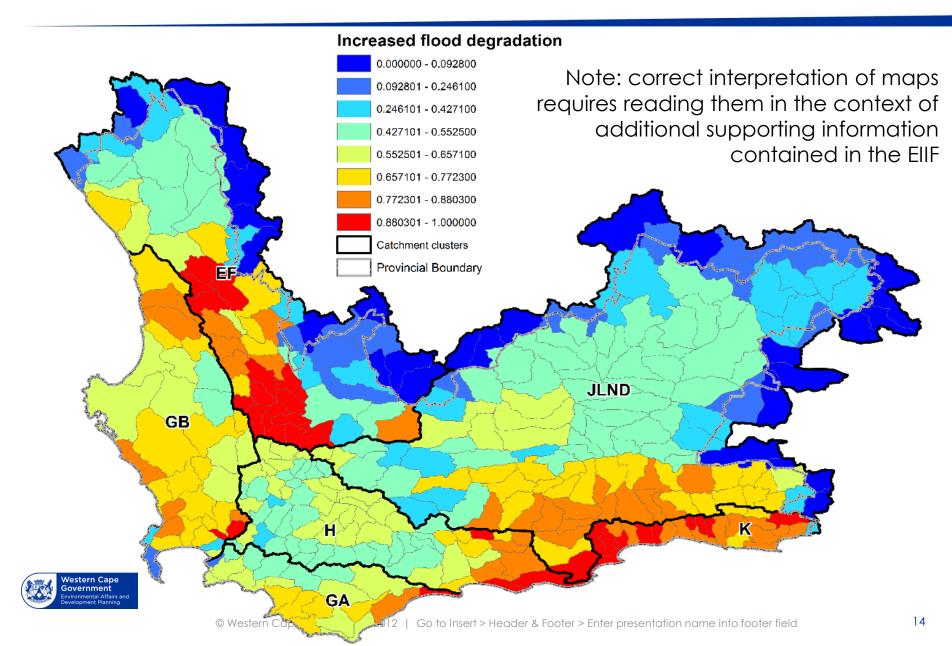
## Spatial catchment prioritisation-wildfire hazard



## Spatial catchment prioritisation-rangeland degradation



## Spatial catchment prioritisation-flood degradation



## **Financial mechanisms**

#### Government mechanisms

Government appropriation for Provincial El programme (e.g. LandCare)

- Water tariffs and charges
- Government Financial and Regulatory Incentives and Disincentives

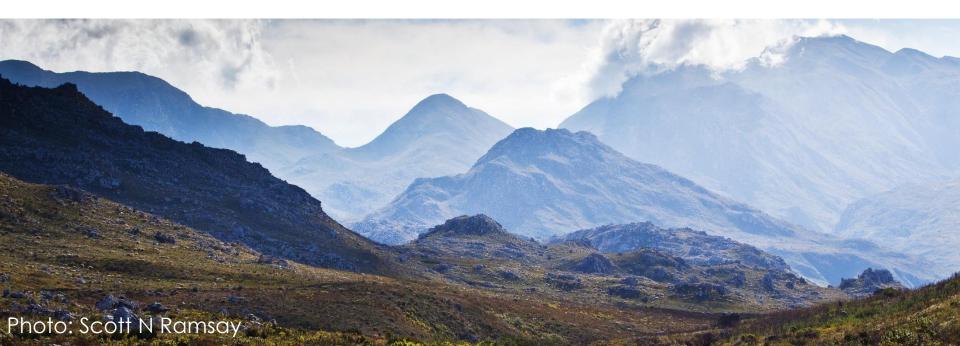
#### Supporting mechanisms

- Philanthropic and donor mechanisms for investment in El
- Encouraging markets for El
- Encouraging markets for products from El rehabilitation activities (e.g. biomass)



## Move to define El as part of the built environment and infrastructure asset class

- Municipal Infrastructure Grants and Urban Sustainable Development Grants could be used to restore/maintain El
- Green bonds [e.g. City of Johannesburg (R1.5b) & CoCT (R1b)]
  - Revenue generated by the El or disaster cost avoided used to service the debt



### Next steps

#### Currently developing:

- Alien Invasive Species Strategy
- Management Unit Clearing Plans for key catchments
- Investment Implementation & Monitoring Plan

#### Related project:

Keurbooms catchment Payment for Ecosystem Services arrangement

Link to EIIF overview video [06:23]: <a href="https://youtu.be/ivR7zKs1Jqk">https://youtu.be/ivR7zKs1Jqk</a>



Thank you

## Contact Us

