

# Socio-Economic Impact of the Outcomes Relating to the uMkhomazi-Mgeni Augmentation Scheme

SSC Meeting  
9th September 2015

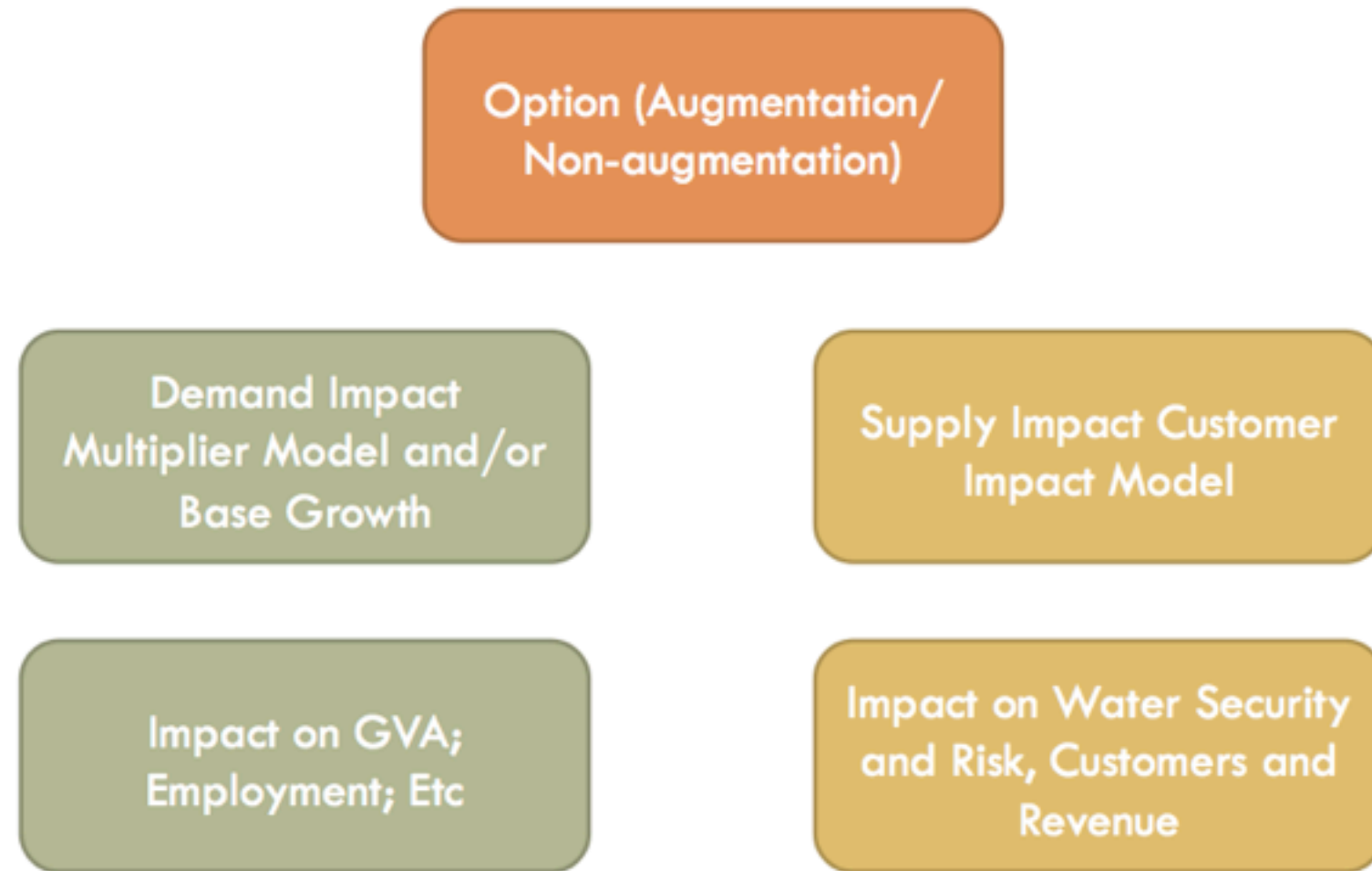
Richard Gevers



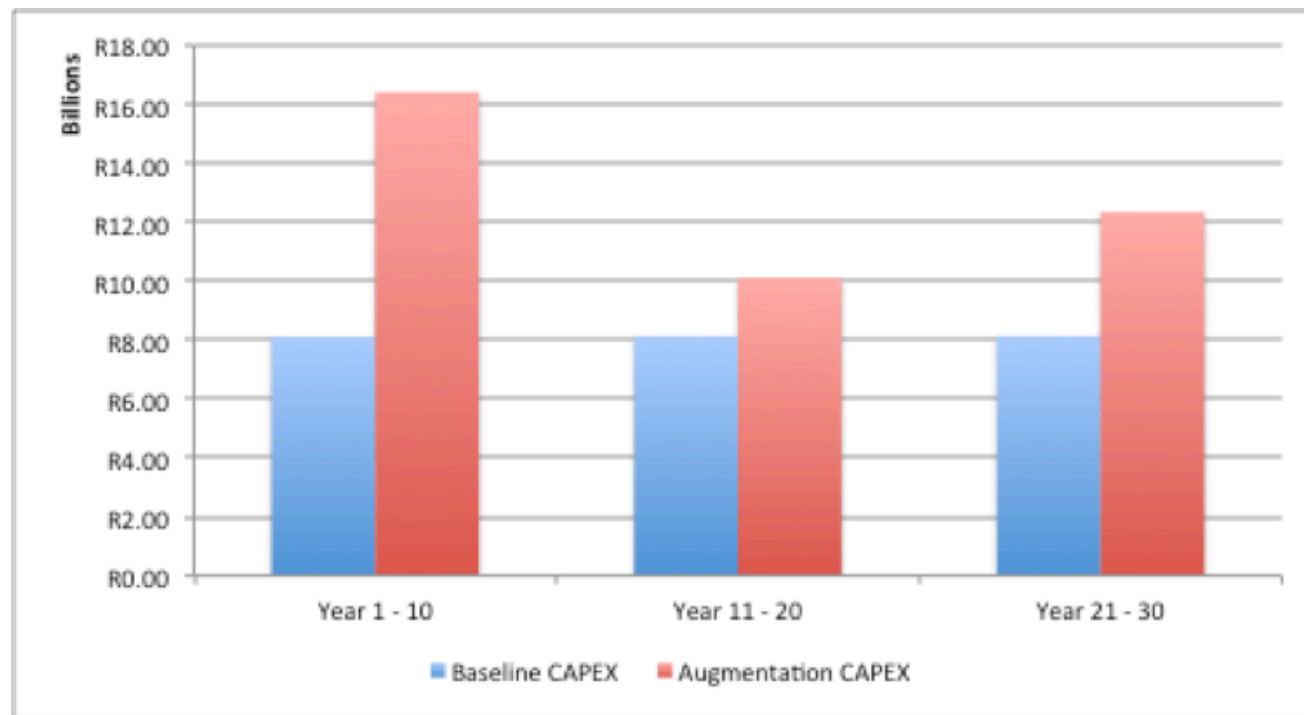
# The scope of the study

- Assesses the **impact of augmentation** and the impact of non-augmentation in the Umgeni System over the next 30 years.
- It serves to **update** previous studies and has strong links with various studies that consider the uMWP and that have taken place over the past 15 years
- Study Area: UW water supply in **eThekweni, Ugu, and Msunduzi**

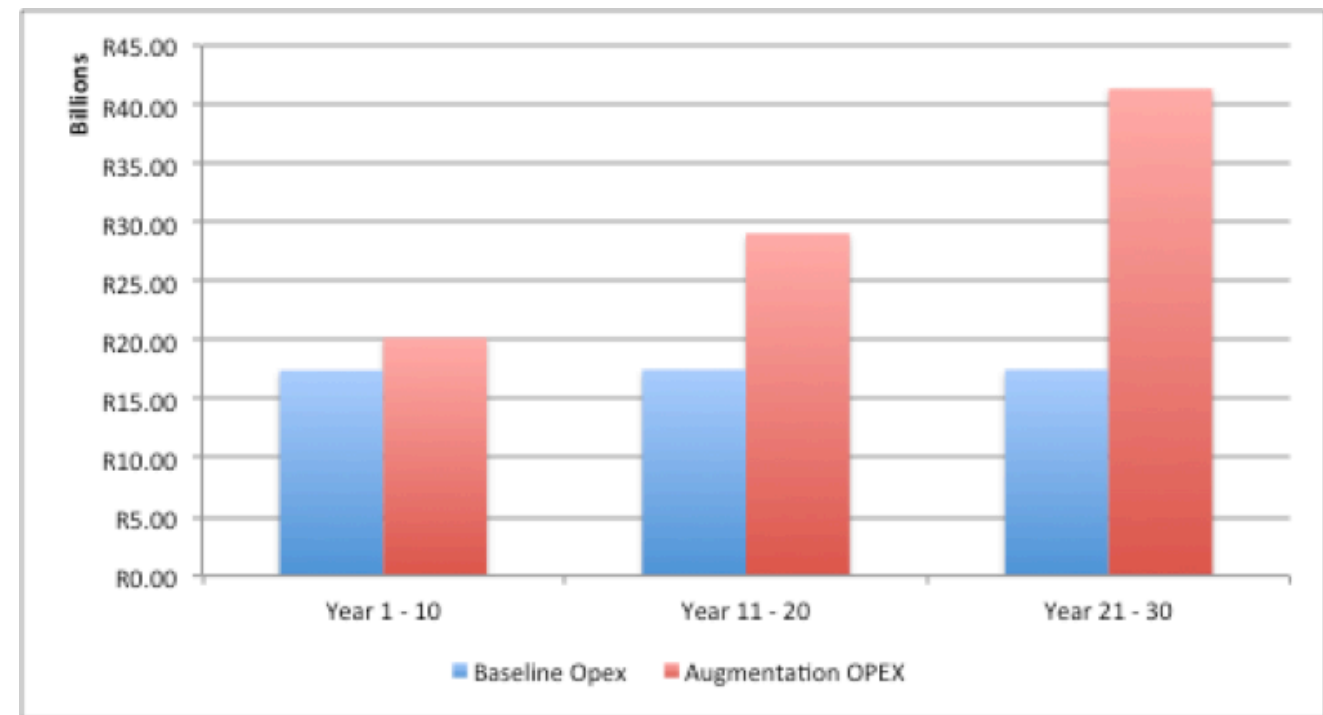
# Economic model framework



# Impact of non-augmentation



CAPEX



OPEX

# Impact on employment

- The GAP amounts to:
  - 4 341 jobs from CAPEX and 401 jobs from OPEX to the economy over the first ten years,
  - 1 117 jobs from CAPEX and 1 663 jobs from OPEX to the economy over the second ten years, and
  - 2 366 jobs from CAPEX and 3 431 jobs from OPEX to the economy over the third ten years.

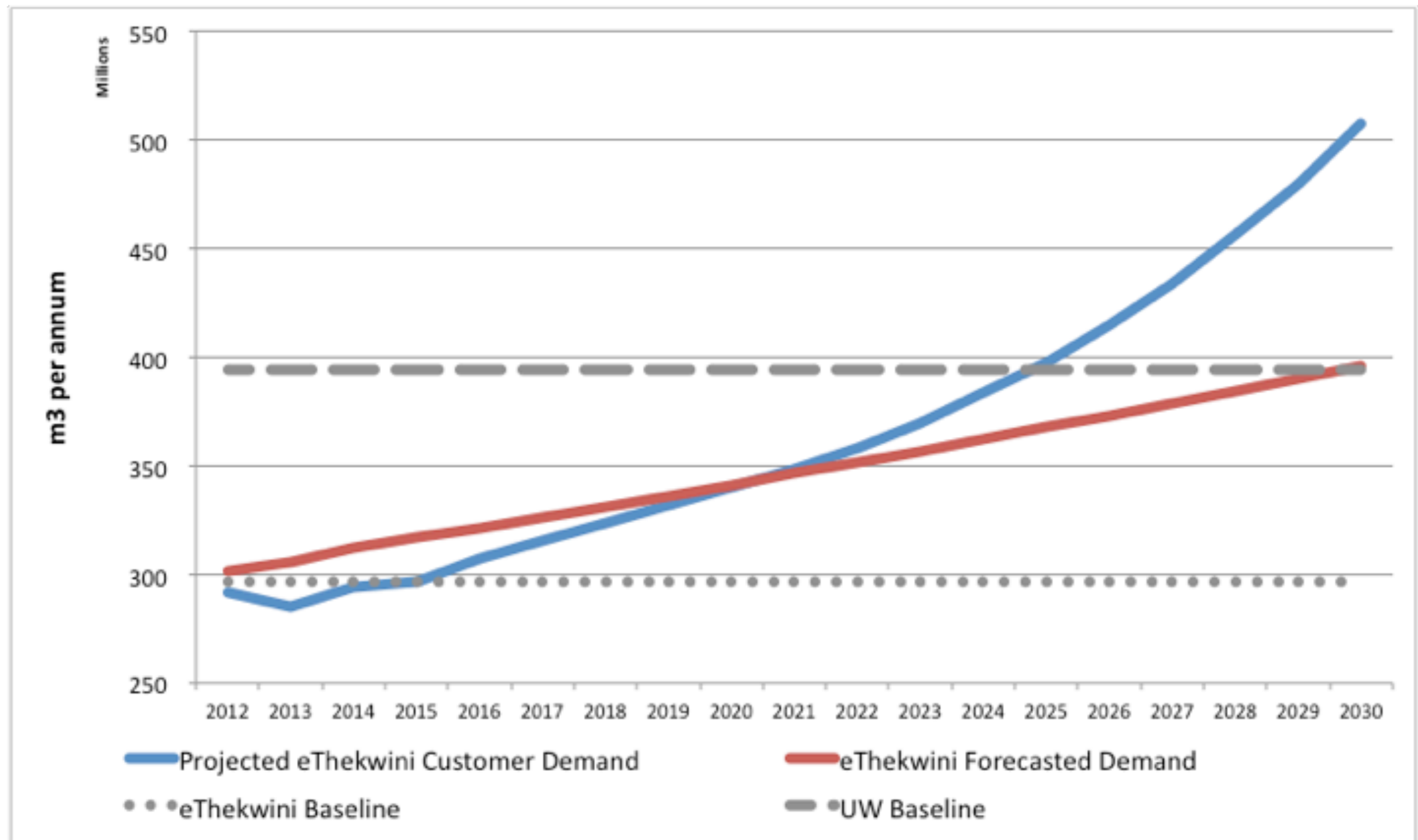
# Summary

The economic cost of non-augmentation, apart from the direct uMWP Impact, will be to “lose” approximately 420 jobs and R3.7 billion (2014 Rands) of gross value added to the South African economy every year for 30 years

# Supply analysis

- Daily snapshot data (in kilolitres per day), which describes the total consumption in a day **per individual site or household**
- **e**Thekwini municipality (75% of sales volume), extending study to Ugu and Msunduzi customer usage data
- Dataset consists of **twenty-six total consumption snapshots**, starting from October 2011 and ending with the final dataset being September 2014

# Projected eThekwinini customer demand





# Extension of study

- Expand revenue and **infrastructure** analysis to **whole supply chain** (DWS, UW, eThekweni, Ugu, Msunduzi)
- Expand **consumption analysis** to full Umgeni Supply Area (Ugu and Msunduzi)
- Granular and spatial insight into whole supply network
- More visualisation and case studies of big industrial/commercial **relocation**/un-development

# Thanks!

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