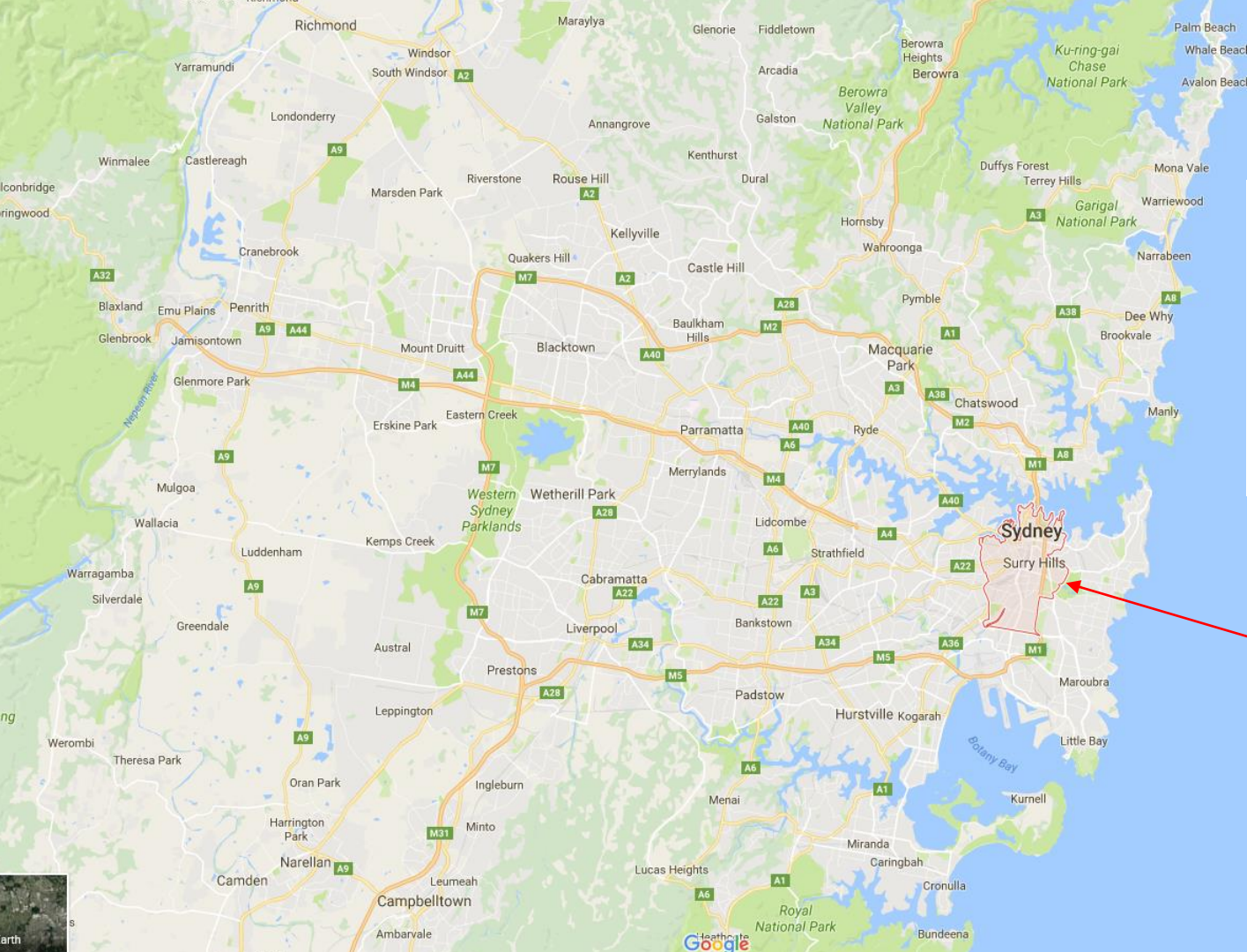




Decentralised Water

City of Sydney



Metropolitan Sydney

Population 4.6
million

12,367 square km

City of
Sydney

- Greater Sydney Commission
- Department of Planning
- Metro Water Directorate
- Sydney Water
- IPART

200,000 residents
1 million workers/visitors daily

25% of NSW GDP
8% of AUS GDP

26 square km



Sustainable Sydney 2030

Our vision: green global and connected



A globally competitive and innovative city



A leading environmental performer



Integrated transport for a connected city



Housing for a diverse population



A lively, engaging city centre



A cultural and creative city



Vibrant local communities and economies



Sustainable development, renewal and design



A city for walking and cycling



Implementation through effective governance and partnership

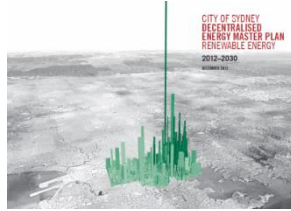
Background

**Sustainable
Sydney 2030**
2008

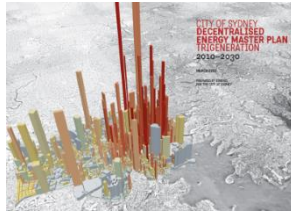


city of villages

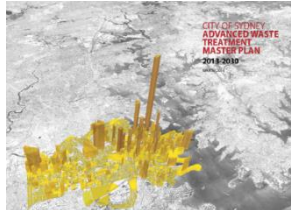
Renewable Energy
Dec 2013



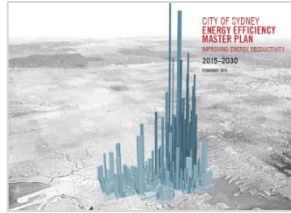
Trigeneration
Mar 2013



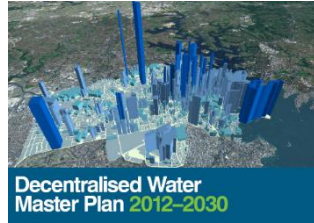
**Advanced Waste
Treatment**
Mar 2014



Energy Efficiency
Feb 2015



Decentralised Water
February 2013



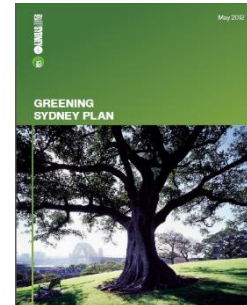
Connecting our City
2012



**Climate Adaptation
Strategy**
December 2015

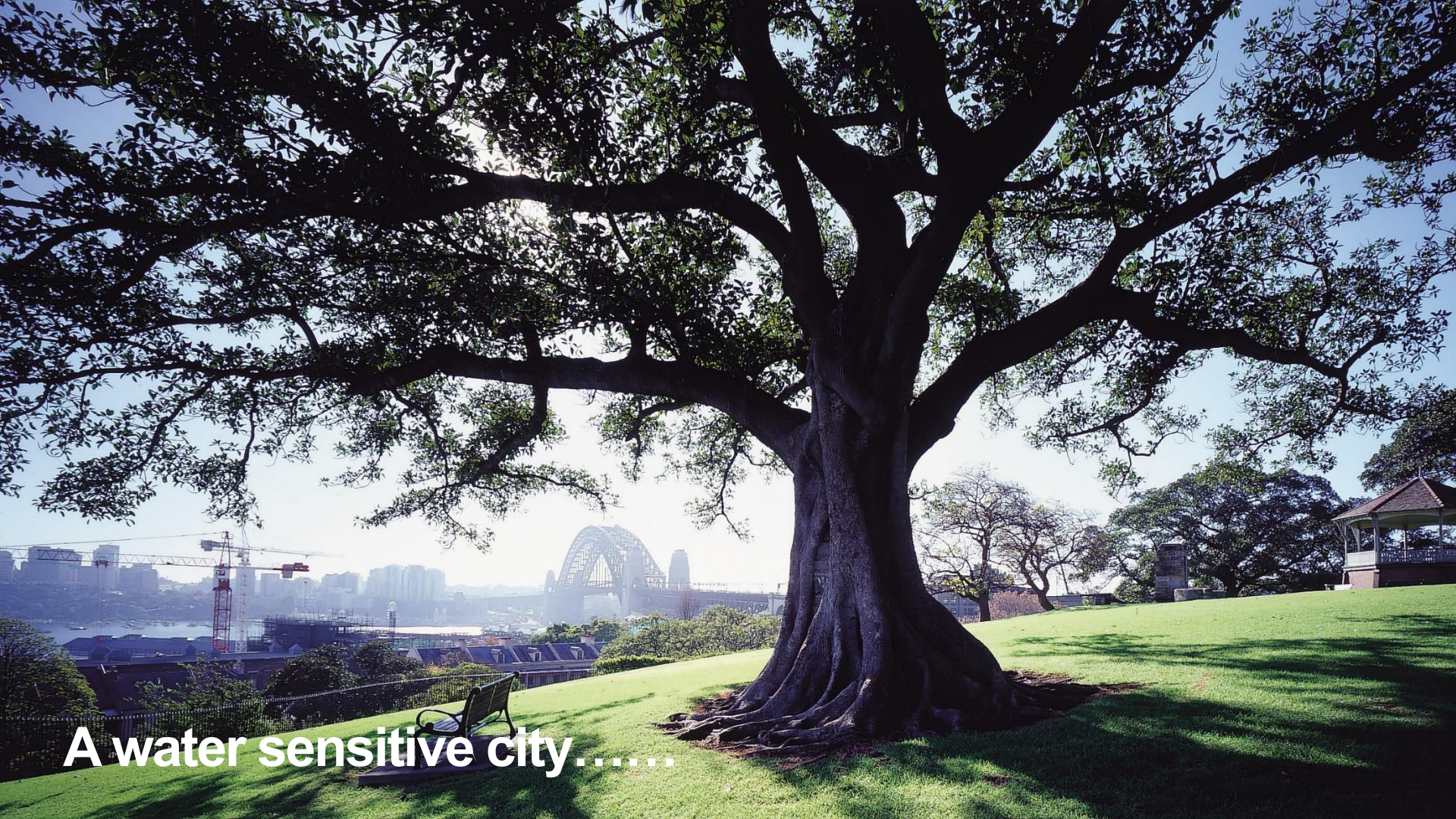


**Greening Sydney
Plan**
May 2012



**Environmental Action
2016-2021 Strategy &
Action Plan**
June 2016





A water sensitive city.....



Water vision for Greater Sydney

CRCWSC Opportunities for a Water Sensitive Greater Sydney 2016



**Sydney will transform to
a Water Sensitive City to
ensure a resilient, liveable
and sustainable future**



Opportunities for a Water Sensitive Greater Sydney
The importance of water in our city's future

- Access to high quality landscapes, safe water and healthy waterways
- Collect and recycle all sources of water
- Incorporate a green grid of parks and vegetated areas to cool, clean and beautify urban spaces
- Empower communities about water, create social connections around urban waterways and water features

<http://bit.ly/2dxmW5m>

Water sensitive city

City operations

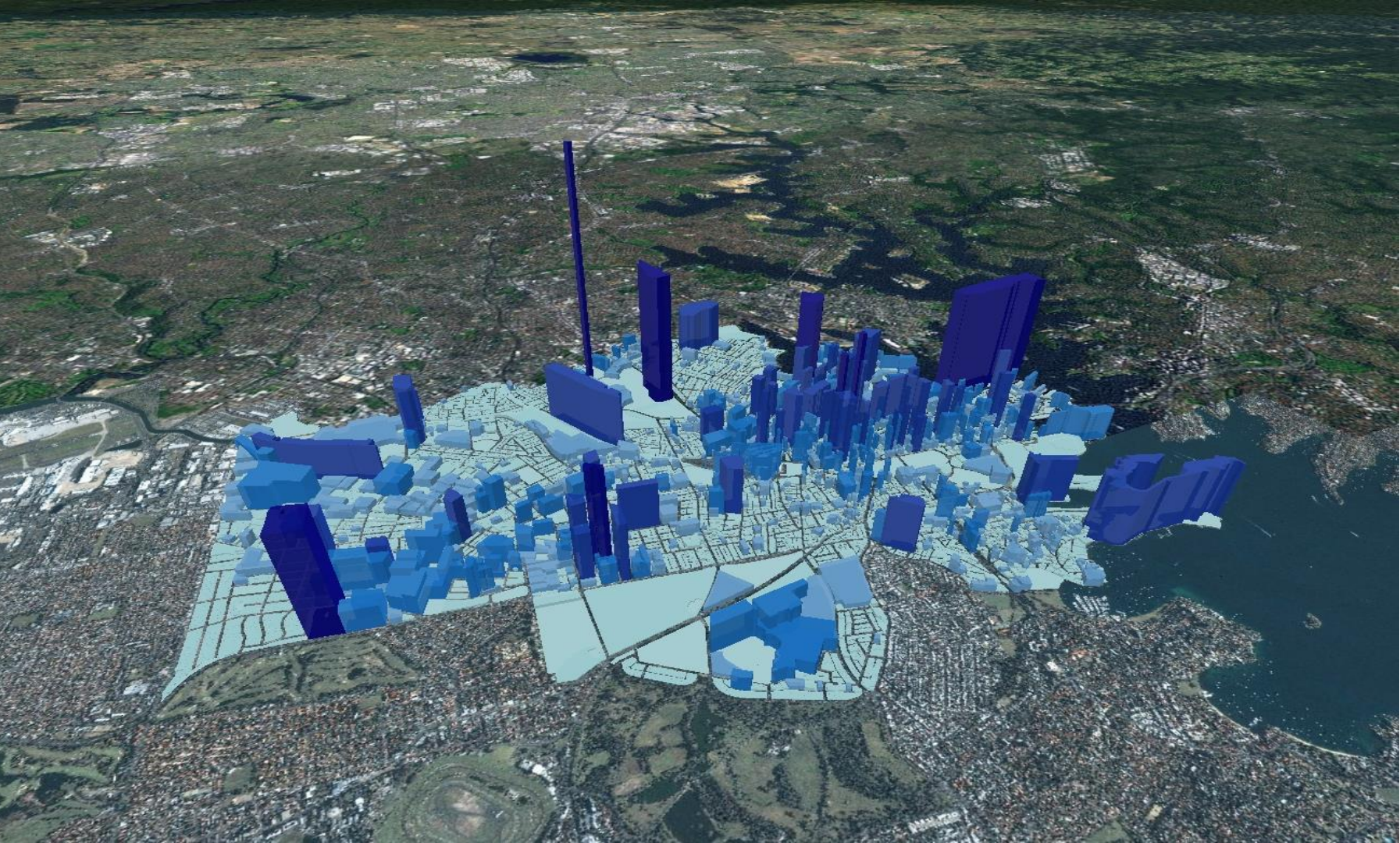
Zero increase in potable water by 2021, from 2006 baseline

Irrigation intensity target 180L/m²

Local Area

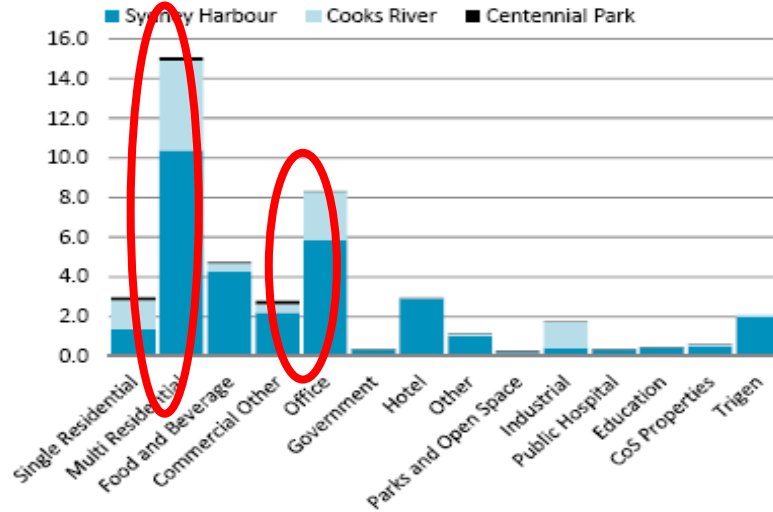
Zero increase in potable water by 2030, from 2006 baseline

Stormwater quality targets



2030 BAU Water Use Demand

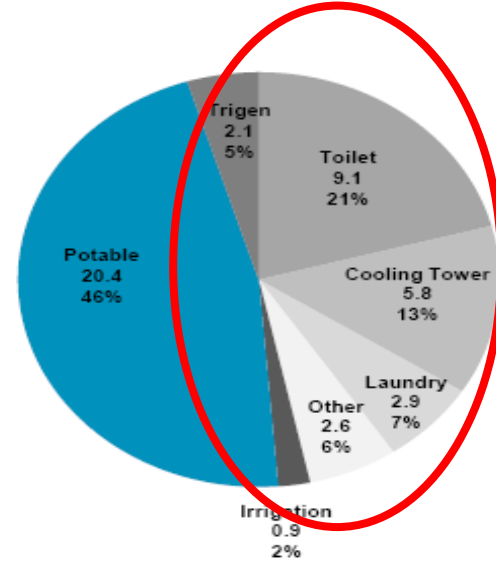
2030 Water Consumption by Sector (GL/y)



Total increase in demand 10.1 GL

- Multi-residential – 2.2 GL
- Office – 3.5 GL
- Trigen – 2.1 GL

2030 End Use - Potable & Non-potable



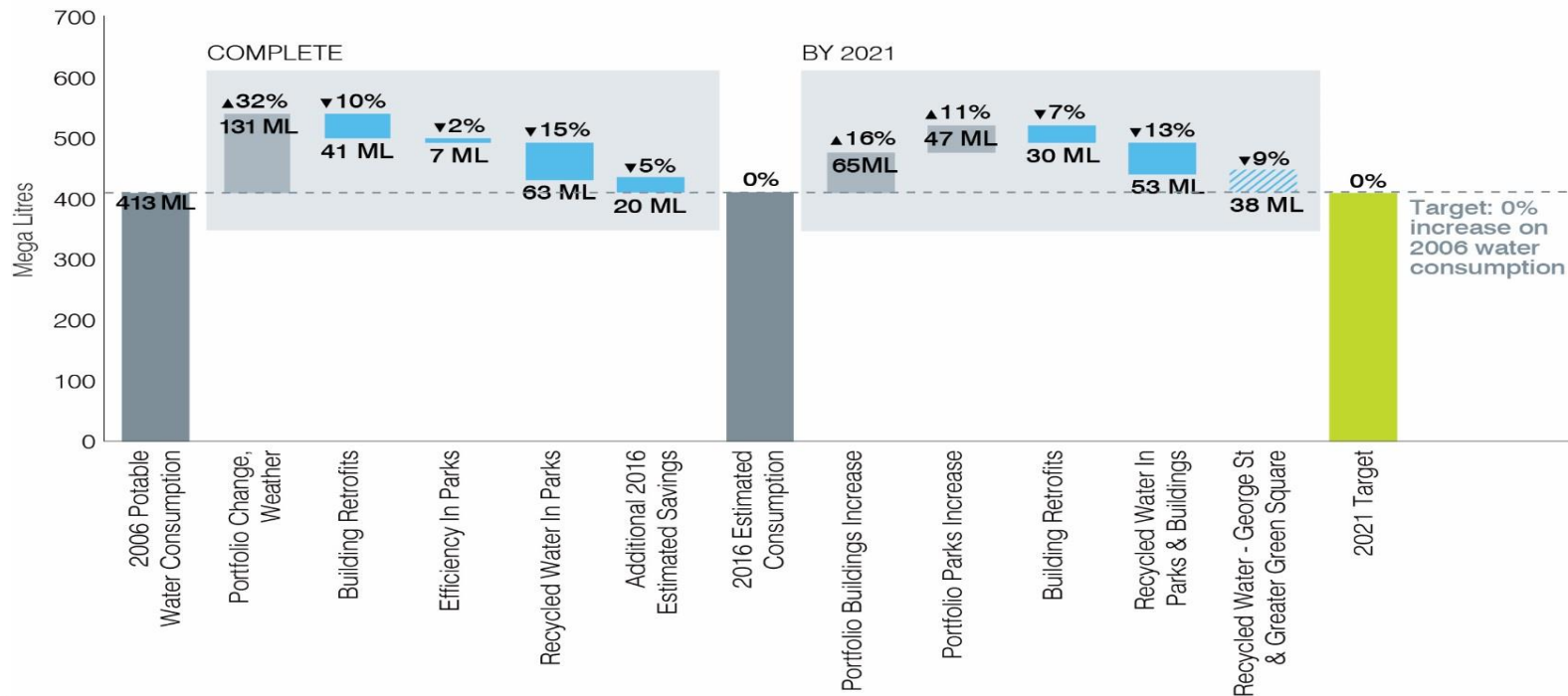
- Total potable consumption = 16.7 GL/y
- Potential non-potable consumption = 17.0 GL/y

30% increase in water demand

Water sensitive city

City operations 2021 targets and actions

City of Sydney operations potable water use target
Estimated contribution of initiatives



2021 water target

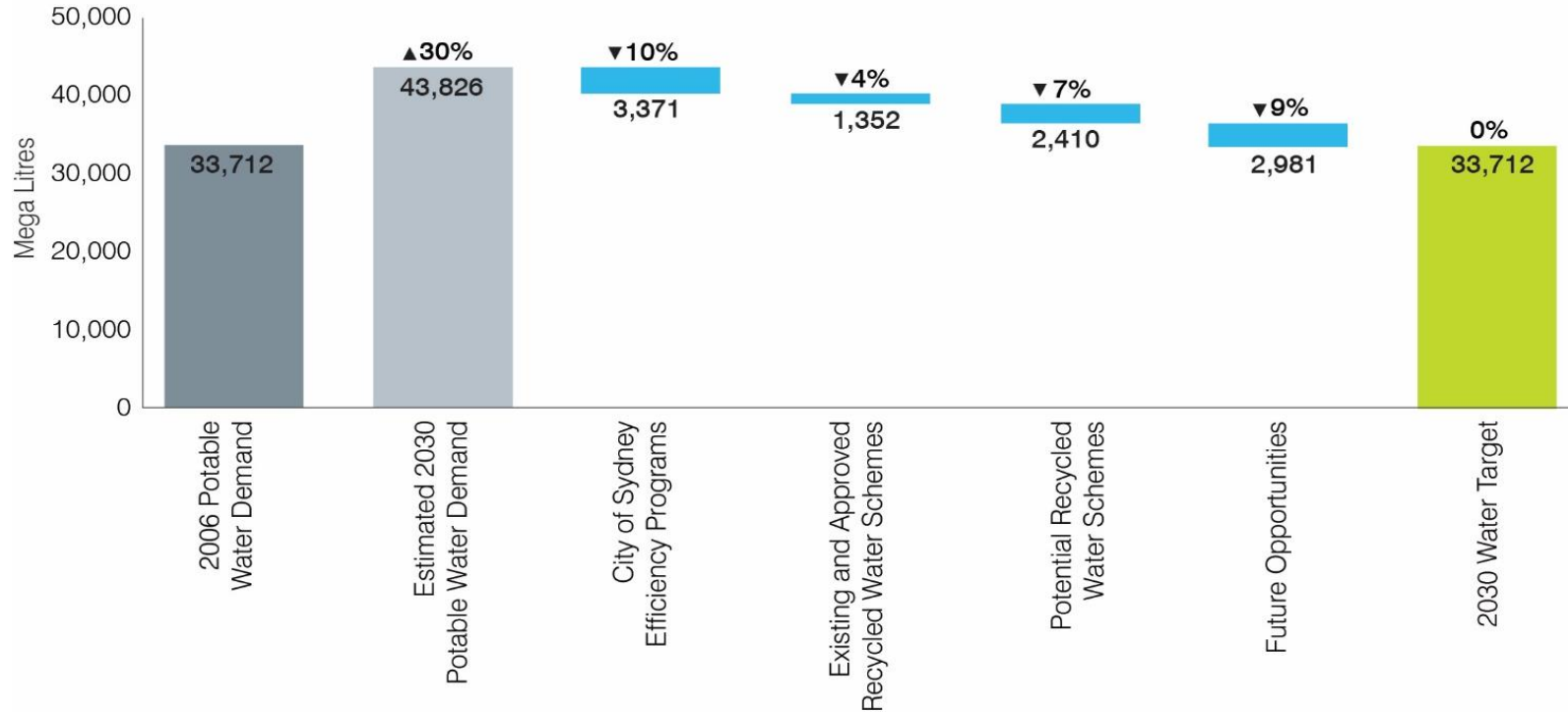
Major projects:

- Properties retrofit
- Parks water re-use
- Synthetic playing surfaces
- George St recycled water
- Sydney Park recycled water utilisation



Water sensitive city

LGA potential pathway to 2030



Water sensitive city

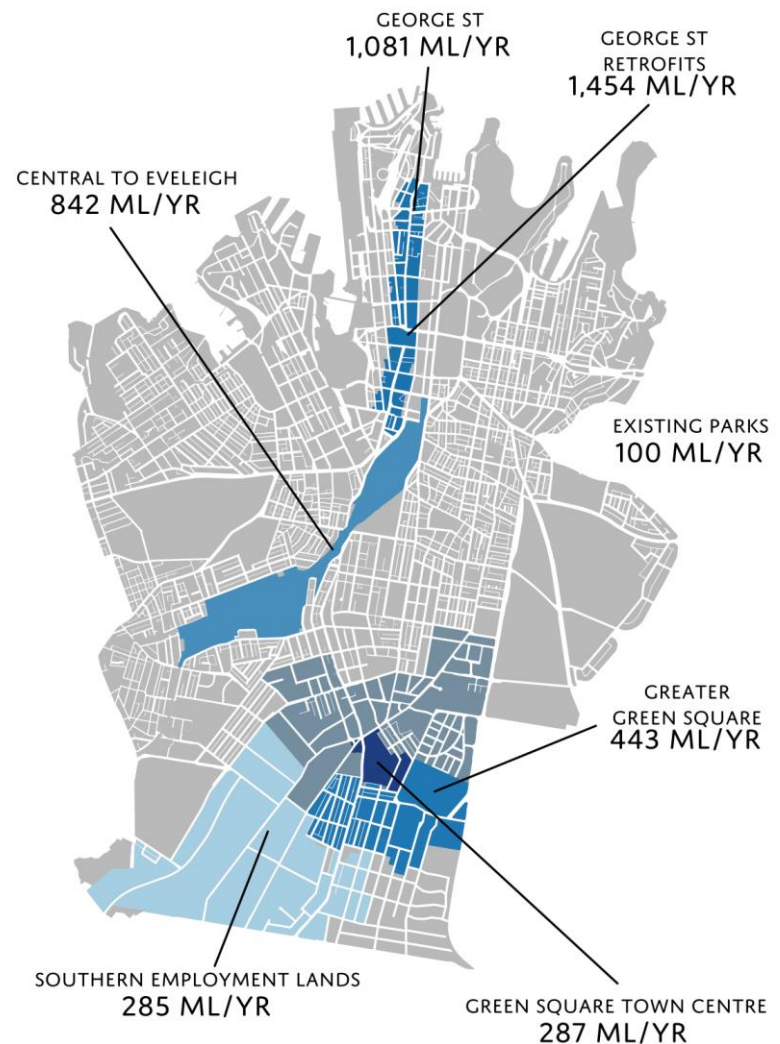
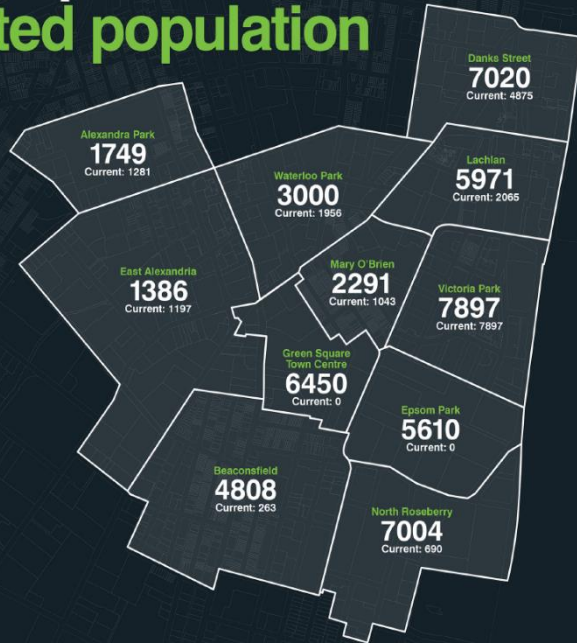
The background image is a collage. The top half features a clear blue sky with several modern high-rise buildings. On the left, a brick building with 'UTS' signage is visible. In the center, a tall, modern building with a unique, stepped facade. On the right, a glass-fronted skyscraper. The bottom half shows a green square with people sitting on a bench, and a tree with green and yellow leaves in the foreground.

**620 Smart Green Businesses
Better Buildings Partnership
Green Square water reuse
Precinct recycling**

Potential demand in urban renewal areas

Green Square Urban Renewal Area Projected population

The projected population for the entire Green Square urban renewal area is 53,000 by 2030. This map shows the future residential population of each precinct in Green Square.



Challenges & Opportunities

A photograph of a tree-lined street with several cyclists riding away from the camera. On the left, there is a two-story residential building with a balcony. The foreground is filled with lush green plants. The scene is bright and sunny, with dappled light from the trees.

**Need for Metro Vision
Control vs Influence
Joint approach with State
Pricing regulation to
reflect vision**