



Resilience thinking in unlocking the complexity of cities

Adam Fennessy PSM, Partner EY



4th water sensitive cities conference

Accelerating the transition

Brisbane — 26 to 28 March 2019



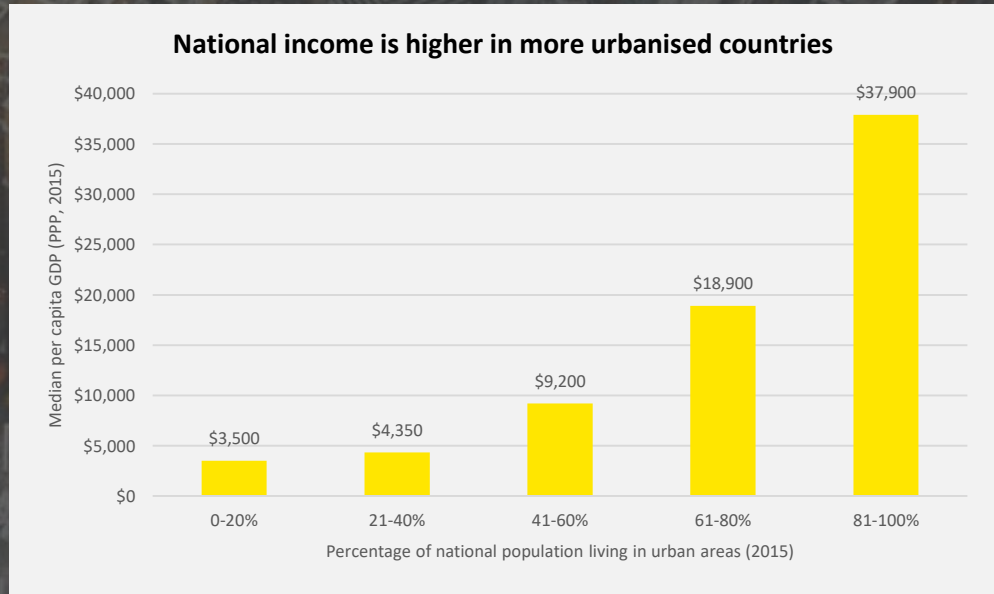
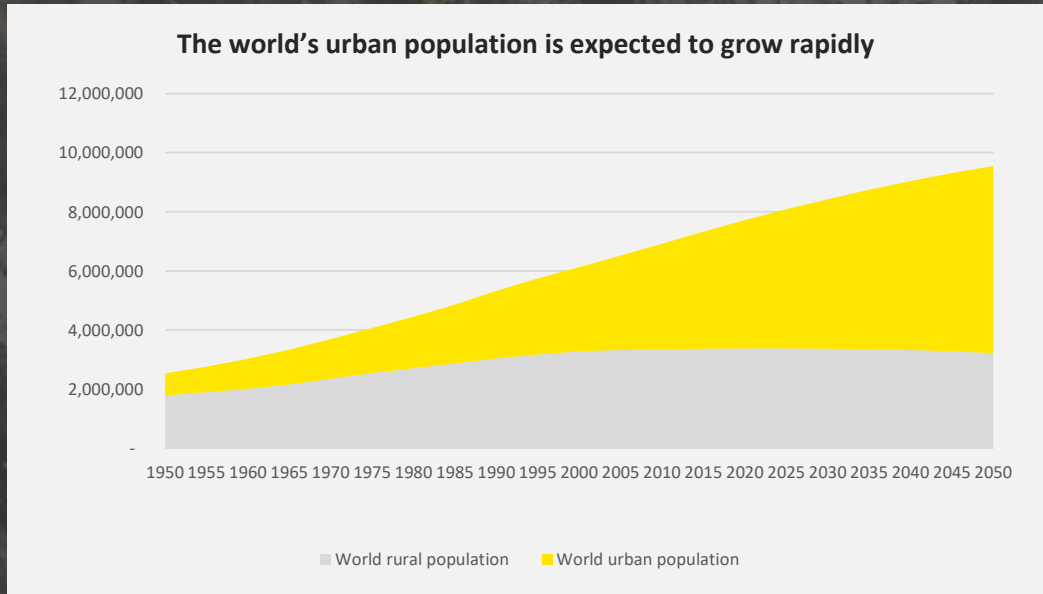
Building a better
working world

Cities face challenges on an unprecedented scale

Within 10 years there will be close to **500 cities** with a population of more than **1 million**

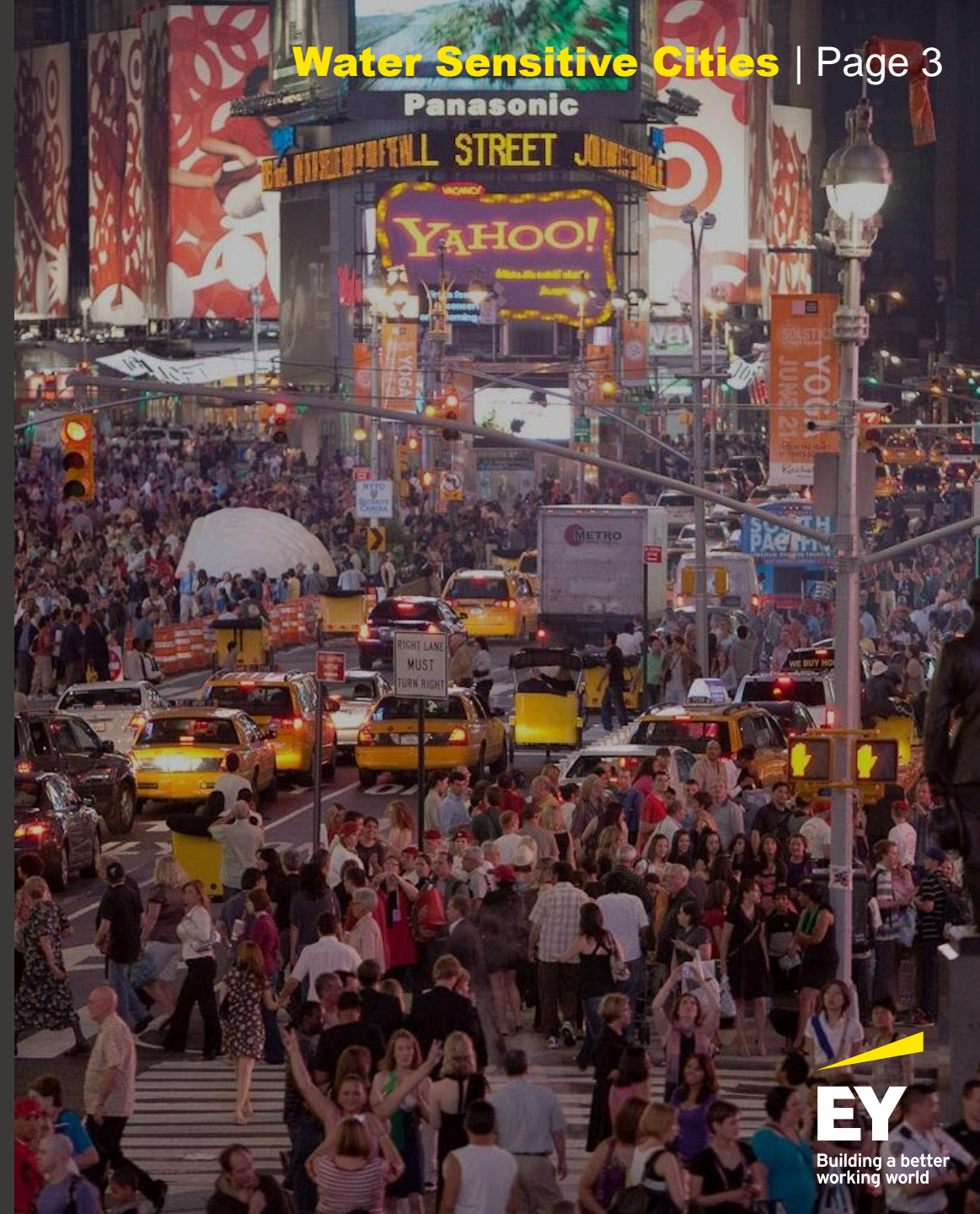
Cities will soon account for **90%** of the world's population growth and **75%** of its energy consumption

Based on current trends the global infrastructure gap is estimated at a **US\$15 trillion** between 2017 and 2040



These challenges are complex and require new ways of thinking and working together

- Addressing asymmetry of growth and opportunity within and between cities and regions
- Capitalising on disruptive innovations that are transforming urban economies and market boundaries
- Leveraging data and technology to optimise and improve infrastructure and services
- Governing effectively as the public's confidence in major institutions erodes
- Managing risks and adapting to chronic stresses and acute shocks



We believe there are better ways to address the many challenges that cities face...



Applying
resilience &
systems
thinking



Integrating
knowledge
and methods



Leveraging
the power of
data



Pursuing new
forms of
collaboration



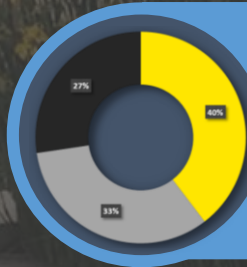
Empowering
citizens and
communities

...strongly aligned to the CRC WSC approach

EY has been working with CRC WSC to better understand its impact to date and future potential



CRCWSC and partners support government, business, academia and communities in creating resilient, productive and liveable cities and towns



CRCWSC has proven its worth by helping partners leverage over 6:1 return on investment in economic, social and environmental value



Exponential cities growth, rapid technology and business disruption give opportunity to extend CRCWSC role & unlock significant cities investments



CRCWSC can play crucial role along with partners in unlocking the massive potential value from taking a coordinated, system-wide approach to tackling challenges of this scale...

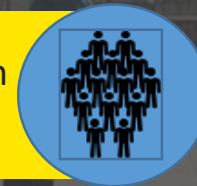


Economic cost p/a of unmitigated climate change in Australia

\$128b

\$8.6b

Obesity cost to Australian economy in 2011/2012

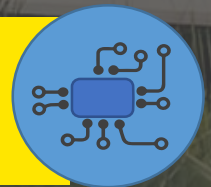


Economic cost p/a of premature death related to mental illness in Aust & NZ

\$56.7b

\$53.3b

Without action – projected increased cost of congestion in our biggest cities



...by working collaboratively across multiple disciplines, industry, government and communities

Future Water Sensitive Cities opportunities are extensive...



Future CRCWSC research and adoption activities could focus on:

- mainstreaming existing outputs to step up the impact of previous success
- achieving the next step-change by contributing to the planning, delivery and operations of truly integrated and innovative city systems



Public and private investment opportunities are significant:

- Urban and precinct redevelopments (Aquarevo, Fishermans Bend, The Spit)
- Australian Government City Deals (Townsville, Western Sydney, Darwin, SEQ)
- International: China (Kunshan), India, ASEAN (Singapore), Africa; Europe, Americas (growth and consolidation)

... and exciting!

Thank you & questions



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