

Modernising the public lighting system: it's more than just lights!

John Kettle, Partner

Ren Niemann, Partner



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Need to understand the 'service' deficits



- Don't start with the options
 - ☐ define the service needs to be met?
 - □ what benefits are to be realised?
- Due diligence is required
 - □ audit of assets
 - ☐ red flags review legislative, regulatory, physical
- High level R&O

Example for public lighting network

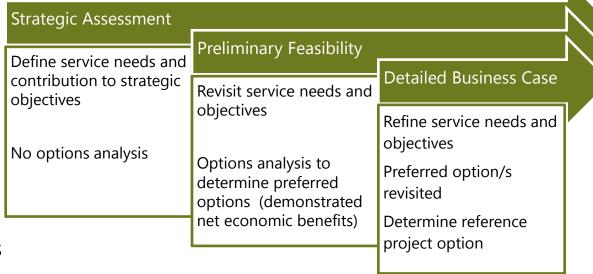


Service Need	Benefits	Risks	Opportunities
Improving region's energy performance	Reduced costs of electricityReduced O&M costs	 Uncertainty of age and condition of existing assets Regulatory barriers 	• Local employment
Responding to region's needs for improved liveability	 Improved safety for community Improved community services 	 Demand risk - unforseen demographic changes 	Diversification of regional attractionSmart cities
Generating productivity improvements for business and industry	Big data access and usageInternet of things	Technological obsolescenceTechnology disruption	 Diversification of regional businesses and economy
Reducing the region's carbon emissions	 Improved demand management 	 Adverse changes in law imposing unforseen cost 	 Funding for clean energy solutions

Gateway approach



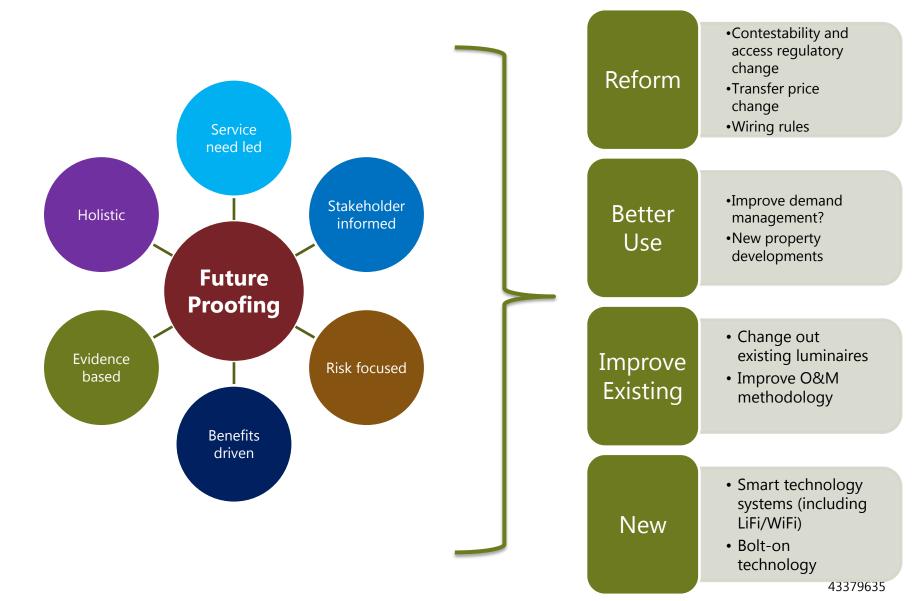
- Staged consideration
 - □ scale up due diligence in each stage
 - □ keep options analysis relevant to each stage provides better future proofing



- Health checks
 - ☐ re-test assumptions
 - ☐ market soundings
 - lessons learned

Future proofing¹





Any analogies?



- Past experiences from other towers industries very relevant
- Lights akin to towers
- In the 21st century, all about optimisation of real estate particularly 'vertical real estate'
- SLSC's citation of the EU's 'Lighting the Cities' Report (2013)' very apt
 - □ "The lamp post is typically a single purpose asset for light; however, that is not necessarily the only role it can play. New ICT technologies can help transform the role of the "humble lamp post..."

The aim is to have 30-50 cities and partners to collaborate and bundle demand to install up to 10m intelligent lamp posts, networked with LED lighting and other features such as WiFi, e-charging, sensors, etc. By joining forces, they would get a better understanding of value cases of the various features, future-proof the investments and most importantly, create a market which would reduce the cost"

Any analogies?



- Not about the light, about the entire infrastructure
- Think private car ownership and Uber
- Think private home ownership and Airbnb
- Think street lights ownership and IoT

Initial issues



- A mix of dated and new assets dating back to when there was no clear distinction on the relative importance of ownership
- Similar to issues experienced when dealing with broadcasting transmission assets and telco towers
- Grandfathering of assets
- Impacts on diligence and valuations (WYSIWYG!)

Regulatory



- Lack of market contestability in ownership and maintenance services
- Lack of formal regulation within NER regime
 - ☐ But is a formal price control process
- Will not be the last time we will see such asymmetry here

Regulatory



- Wiring Rules provide existing or grandfathered utility owners with an exemption but new owners/service providers must comply
- Asymmetry of relationships between Councils as responsible public agent and utilities as owners distorts market for ownership and maintenance services and has implications for assets and services' valuations
- Potential double whammy for Councils
 - ☐ Impact of Wiring Rules not factored into asset sales by utilities to Councils or third parties (higher asset price)

Regulatory



- Impacts on fair valuation of maintenance services (higher maintenance price due to extra remedial works required on aged assets no longer exempted)
 - ☐ (Wiring Rules and condition of aged assets a known unknown which can be too expensive to diligence comprehensively on a CBA)
- An arbitrage in current asset owner's favour with a guaranteed price control and a consequent lack of incentive to innovate

Commercial?



- Nature of utility licences over assets to Councils an issue
- Goes to heart of purpose and function of lamp post and luminaire in the 21st century
- Critical to anticipate future change and to have 'lighting rights plus' over the assets (easier said than done)
- Do not think Wi-Fi, think Li-Fi

Upshot?



- Councils' vision of the future needs to be reflected in diligence and commercial negotiations
- These assets will be core to future delivery and responsibilities
- They are core to Council, not core to utilities or how they deploy their resources
- And there are 2 million more to come

Contact





John Kettle
Partner
M 0419 646 379

E jkettle@mccullough.com.au



Ren Niemann
Partner
M 0414 904 962

E rniemann@mccullough.com.au