

Smart lighting for efficiency and dark skies in Hobart

Team EconData stories

Objectives



How can we empower policy analysts with the right data and tools to make decisions about street light investments



How can we combine public and corporate data to support conceptual ideas about lighting policy tradeoffs



How can we best visualise the short term and long term financial benefits of various policy options

Policy trade-offs examined



Budget vs Safety

- Use 'pedestrian traffic' volume as a gauge for where lighting is more essential.
 - Bus stops nearby from Google Maps API is best proxy for pedestrian traffic.
- Other proxies include tourist attractions and parks nearby



Budget vs Environment

-Costs consider initial investment costs of pole installation (solar) and light replacement (LED) vs electricity saved (40 kWh / lamp)

Budget vs. safety vs. environment

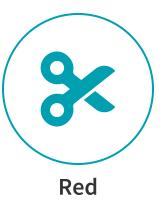
Our tiering strategy makes it clear where safety / budget / environment considerations are most important. We consider tiering regions into 3 zones, green / amber and red.



Characterised by heavy foot traffic. High importance of 'safety', and policy should consider long term benefits



Amber policy should be less efficiency and cost saving driven than the red tier



Red tiers have the least trade off to public safety because there's not much foot traffic, costs should be minimised

App overview