

MEETTHETEAN



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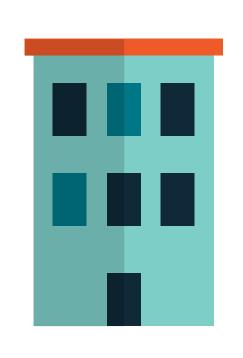
Will Joyce

PROBLEM OUTLINE



QUALITY OF LIFE

Increase the quality of life for residents



ECONOMIC ACTIVITY

Increase economic activity through smart city infrastructure

AGENDA

SMART CITY ECOSYSTEM



Ecosystem Map
Trends & Opportunities
Survey Findings
Recommendations

OPEN DATA



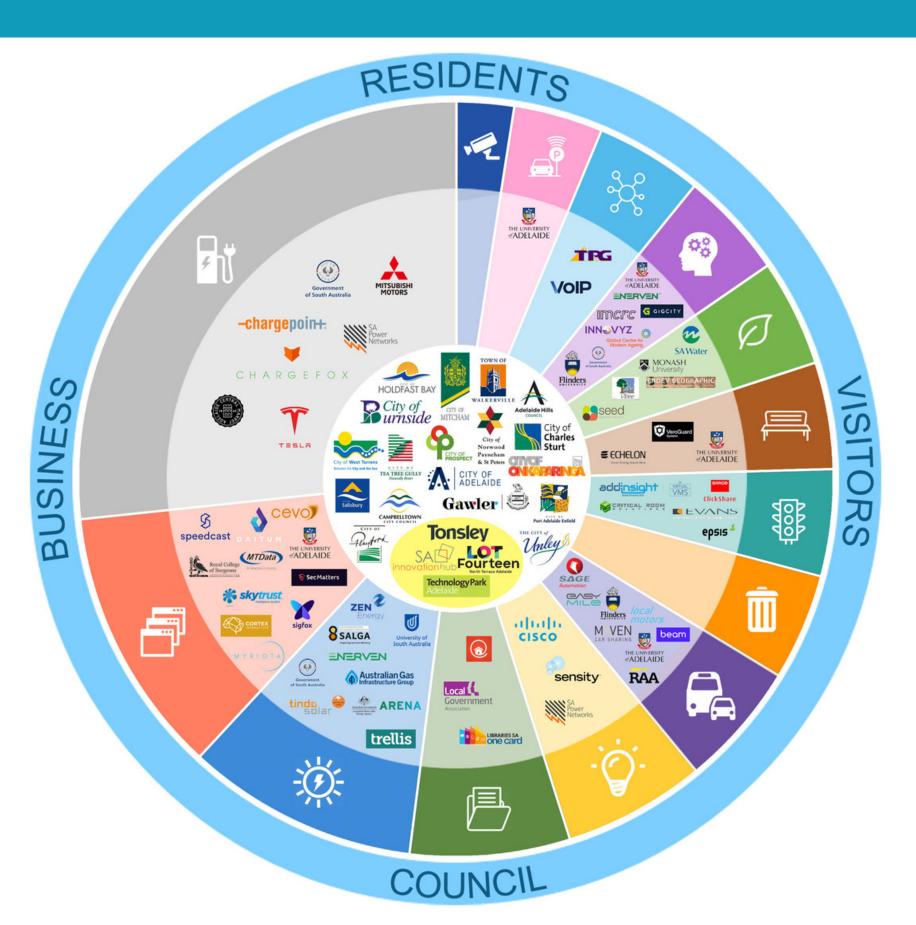
What is Open Data?

How do we manage it?

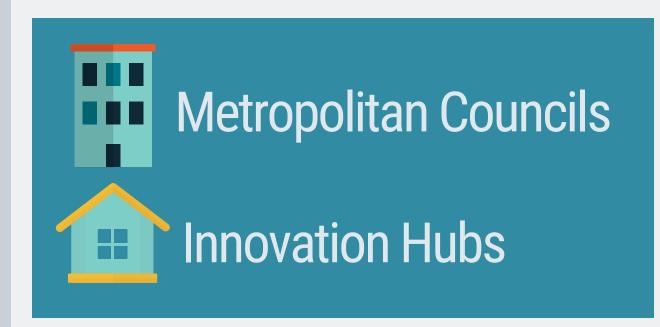
What should we open?

How do we engage?





DRIVERS



- Key decision-makers
- Plan & Implement a Smart
 City

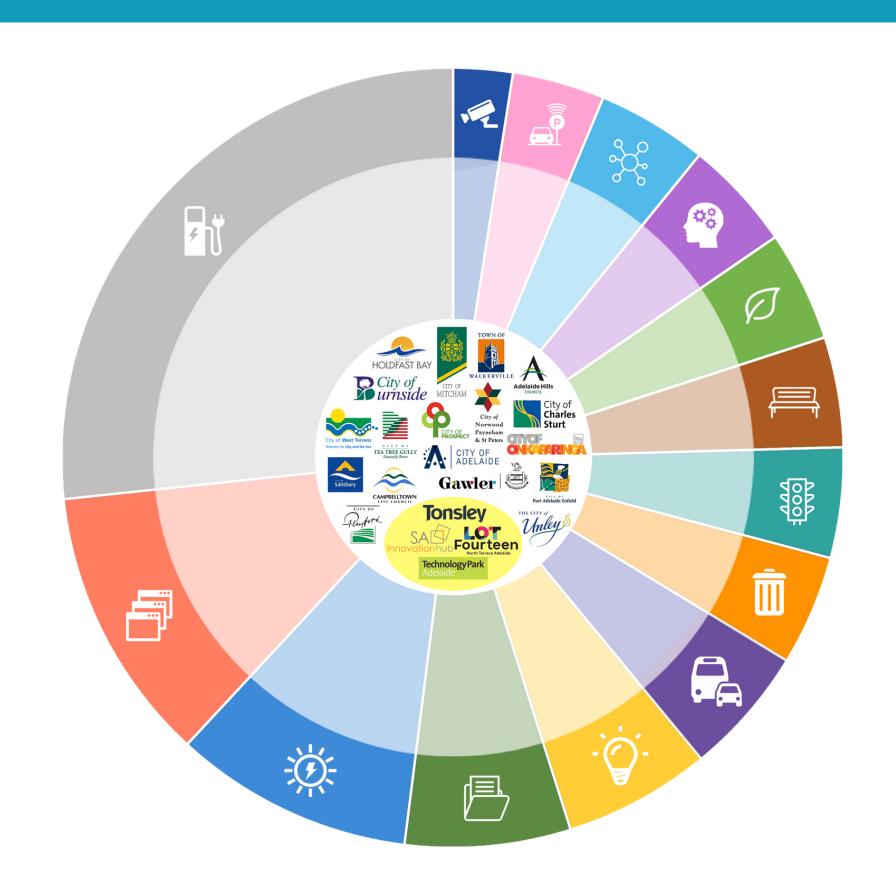


SMART CITY INNOVATIONS

129 Innovations

14. Smart City categories

- Ordered by prevalence in ecosystem
- Categories overlap & interrelate

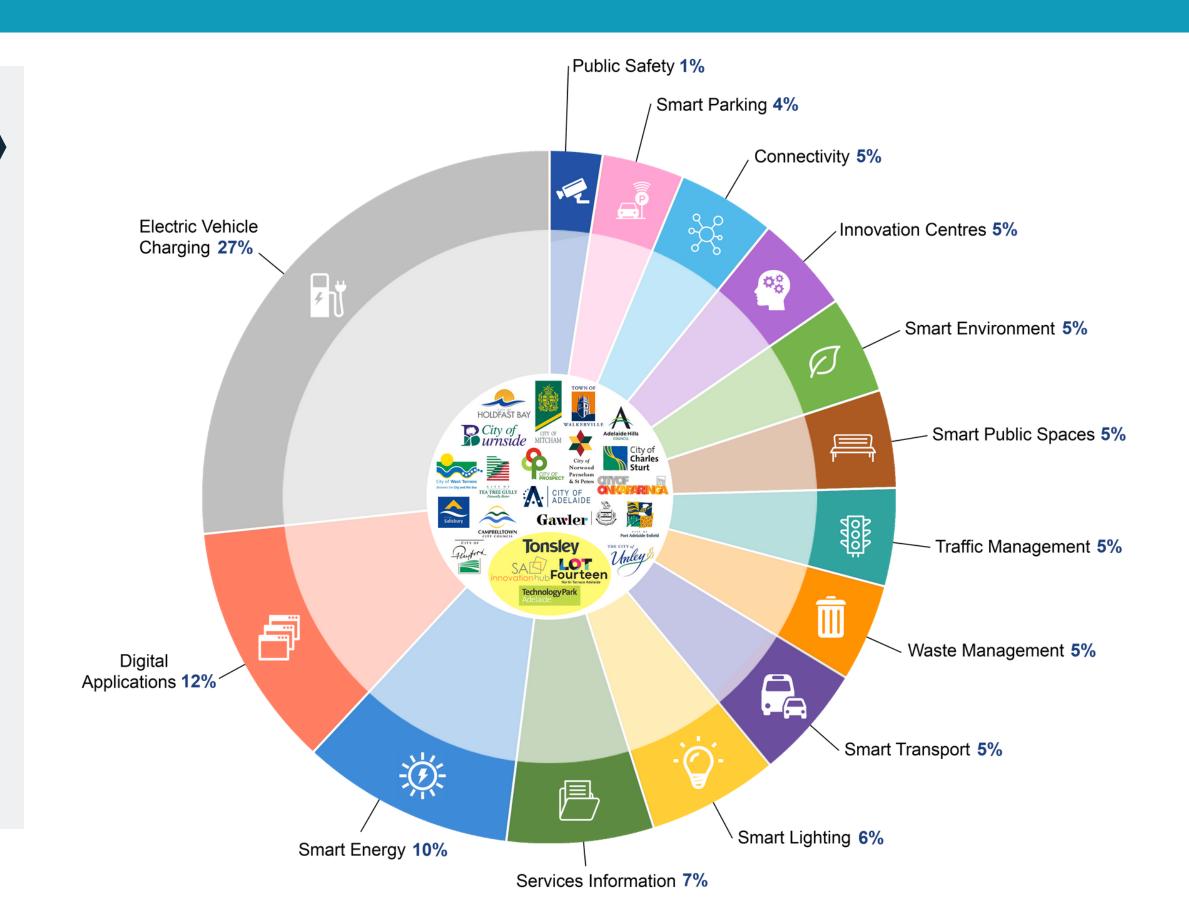


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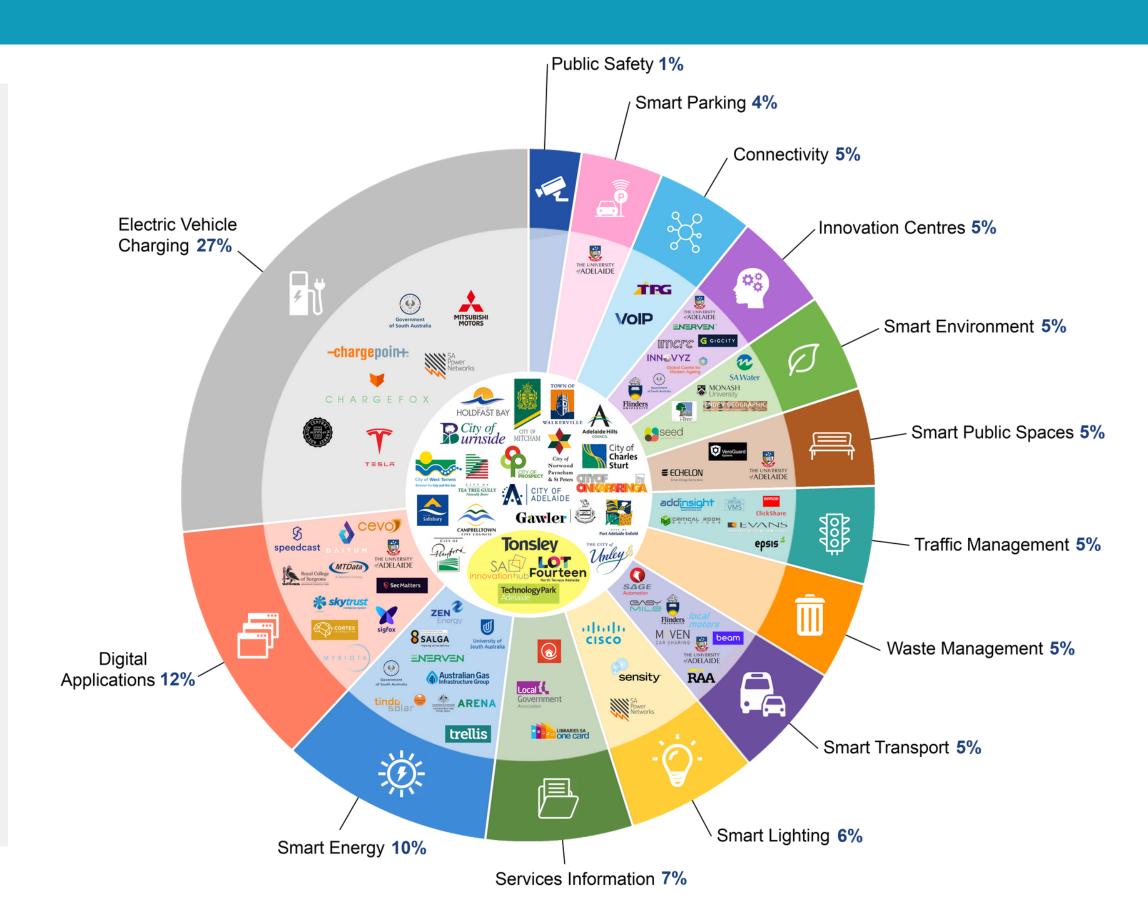
PARTNERS

Technology Providers

Research Providers

Council & Hub Partners

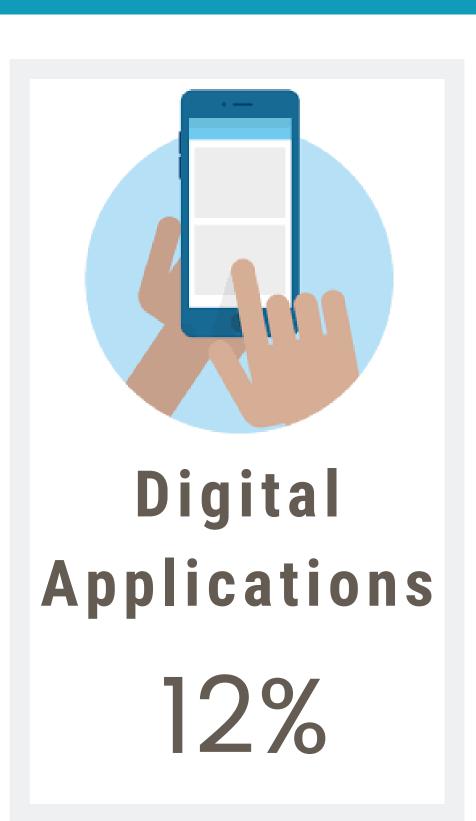
Ordered by relevance to Smart
 City Category

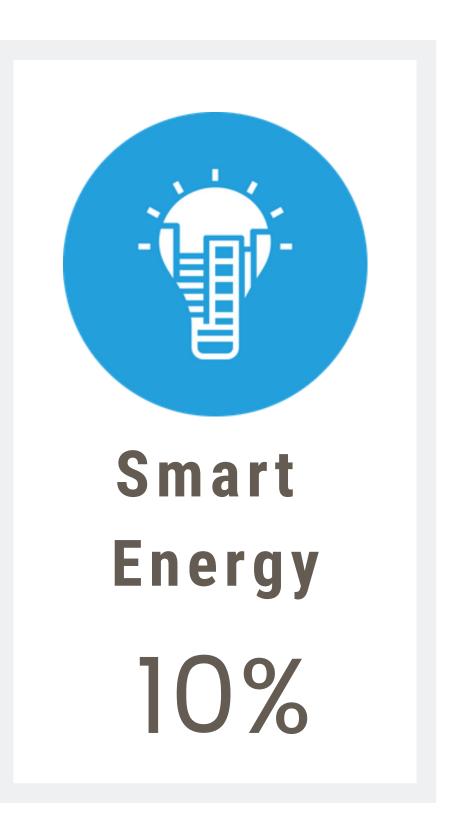


TRENDS



27%





TRENDS

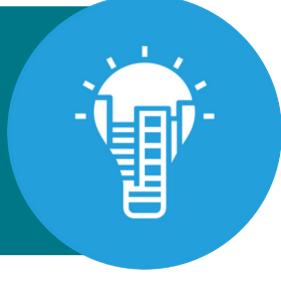
EV Charging



Smart Lighting



Smart Energy



43% Constitution of the second of the second

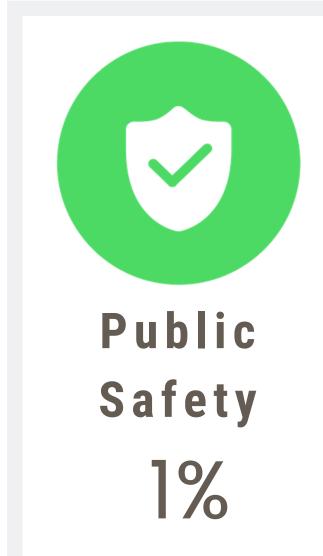


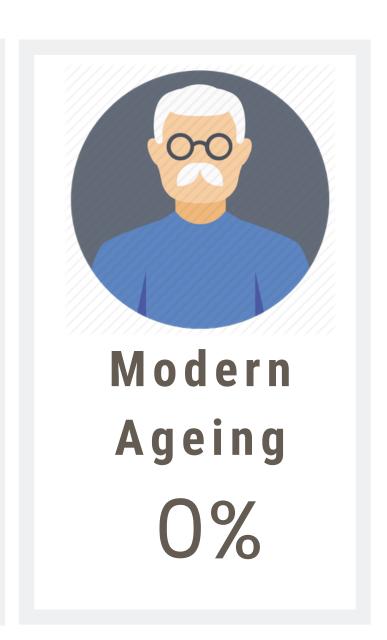
GAPS



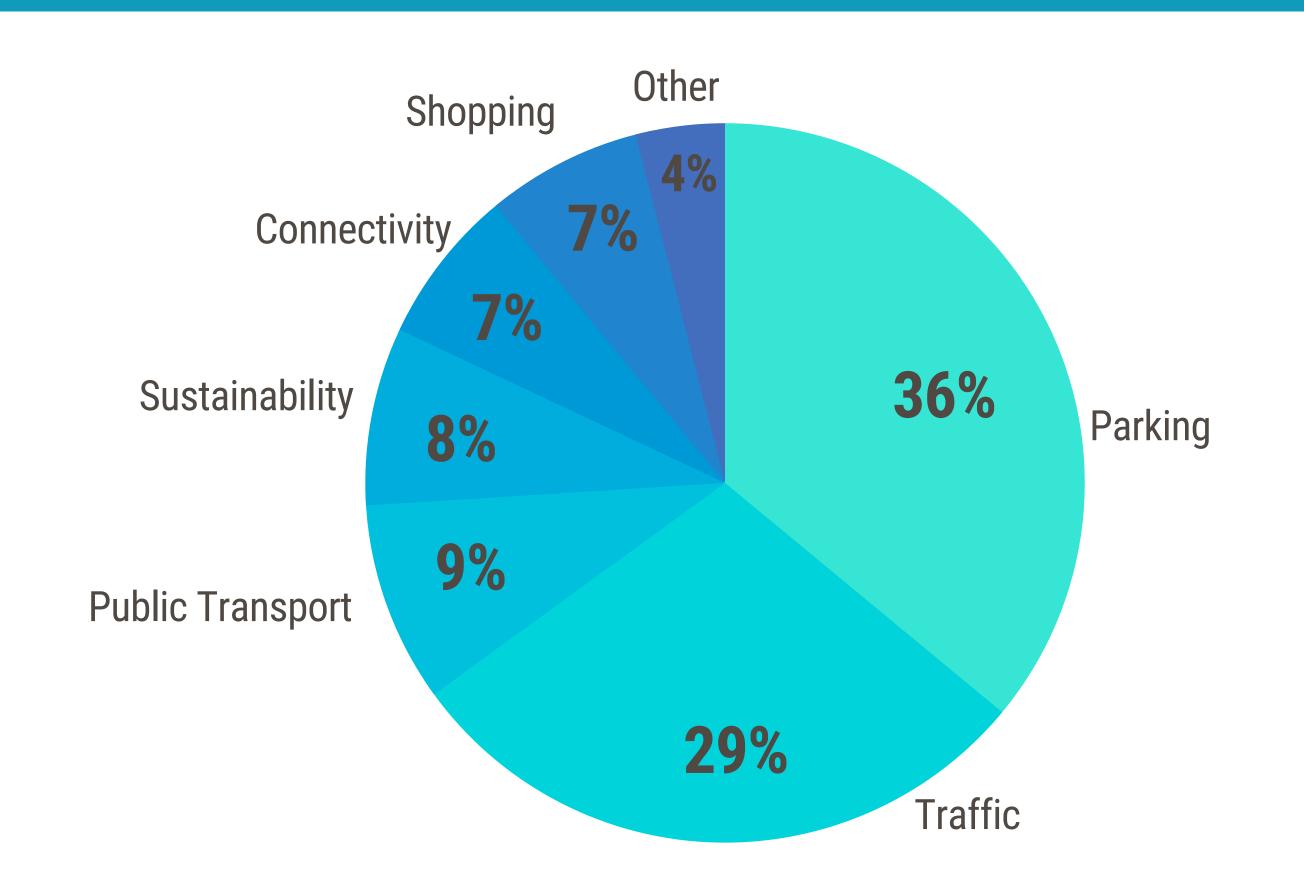








SURVEY FINDINGS



Which of the following is the biggest issue for the city of Marion (All Residents)

SURVEY FINDINGS



RESIDENTS	
Traffic	37%
Parking	37%
Public Transport	19%



VISITORS	
Traffic	35%
Parking	25%
Sustainability	13%

SURVEY FINDINGS

(Results through age profiles)



18-34	
Traffic	32%
Parking	32%
Connectivity	12%



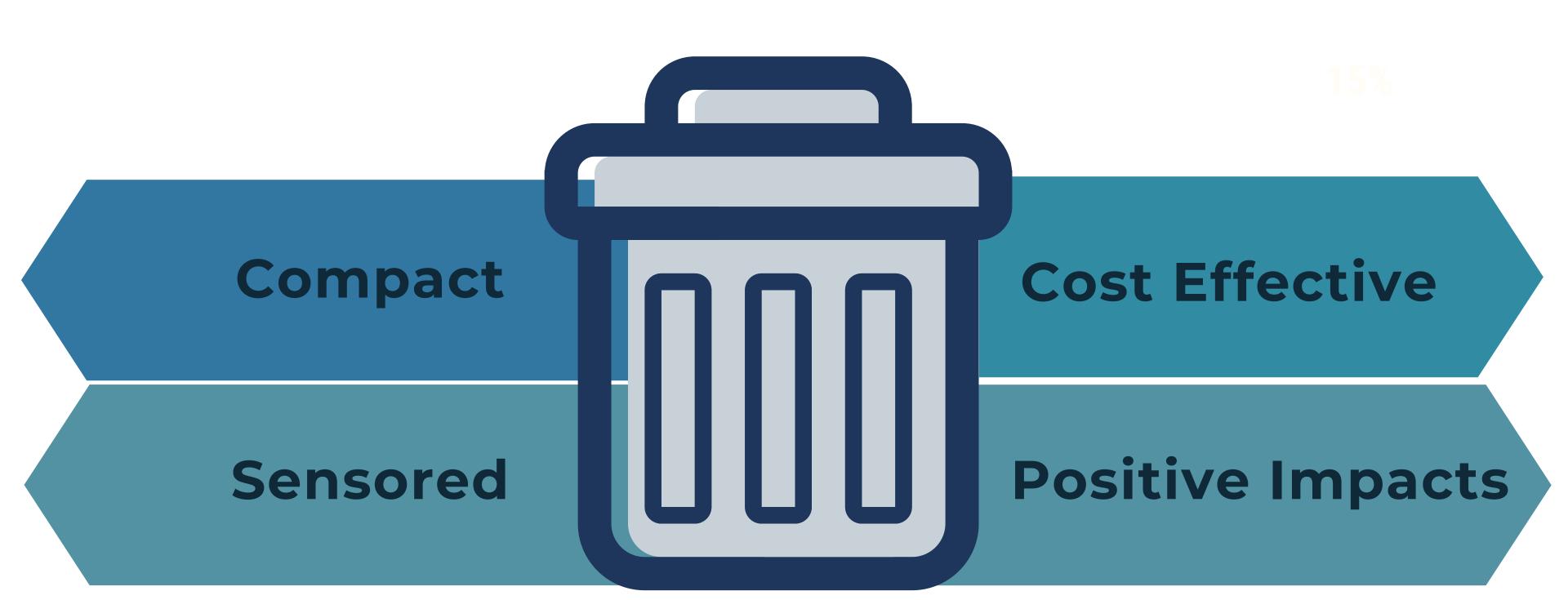
35-54	
Parking	40%
Traffic	23%
Sustainability	15%



55 and over		
Parking	36%	
Traffic	25%	
Public Transport	16%	

RECOMMENDATIONS

Waste Management



RECOMMENDATIONS

Smart Lighting & Public Safety



Current Trend

Replacing Mercury lights with LED

Reducing energy usage and maintainence

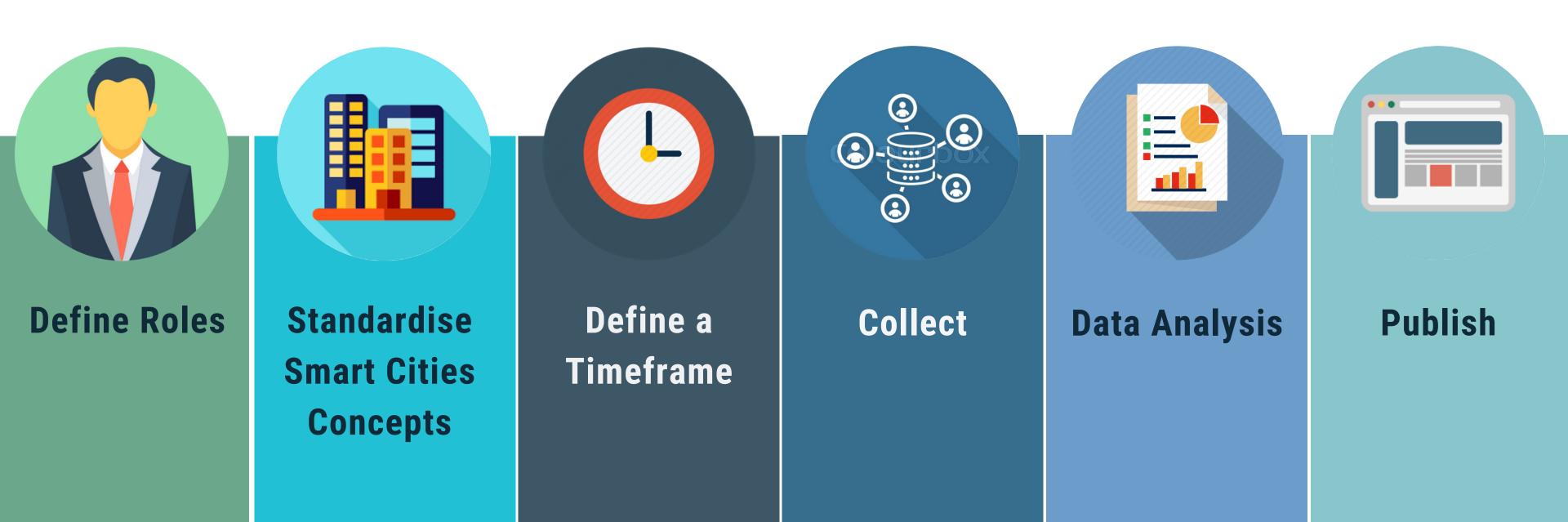
Opportunity

Data gathering ,monitoring and real time decision making

CISCO - Adelaide Trial

RECOMMENDATIONS

Ecosystem Management



WHATIS OPEN DATA?

66 If I had to express my views about the digital future – that of Europe or indeed, of the whole world - I could do it with one word: data." -Andrus Ansip

Open Data is information that is:

- Available, Free and Accessible
- Re-usable and Redistributable
- Driven by the Participation of People



HOW DO WE MANAGE IT



RESOURCES

Framework, Legislation, Licensing

OPEN DATA PORTAL

WHAT DATA IS MADE OPEN

Public bodies start by opening data that is already publicly available

Low Risk

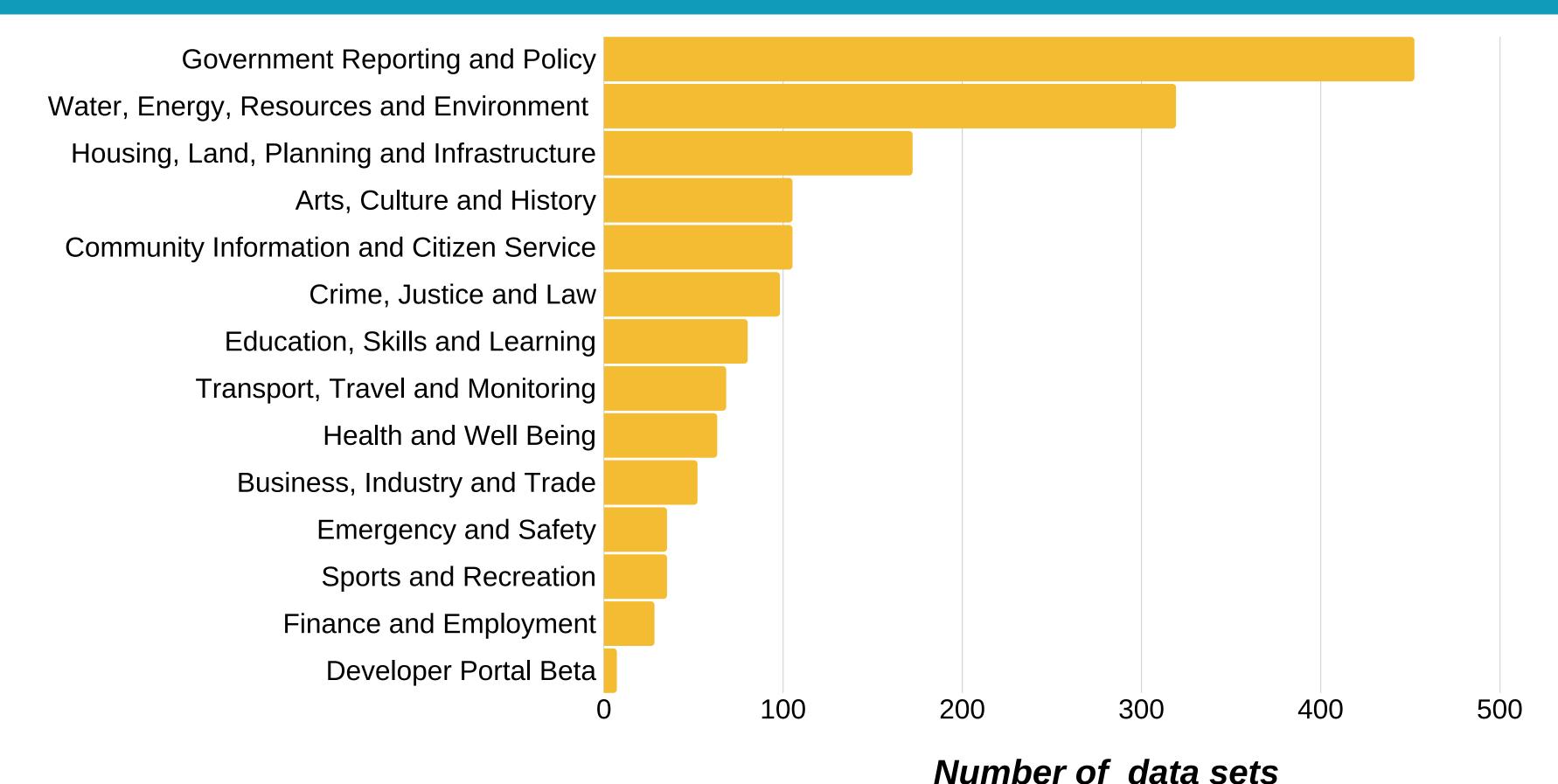
162/1577

data sets

11 Metropolitan councils

> 3 Country councils

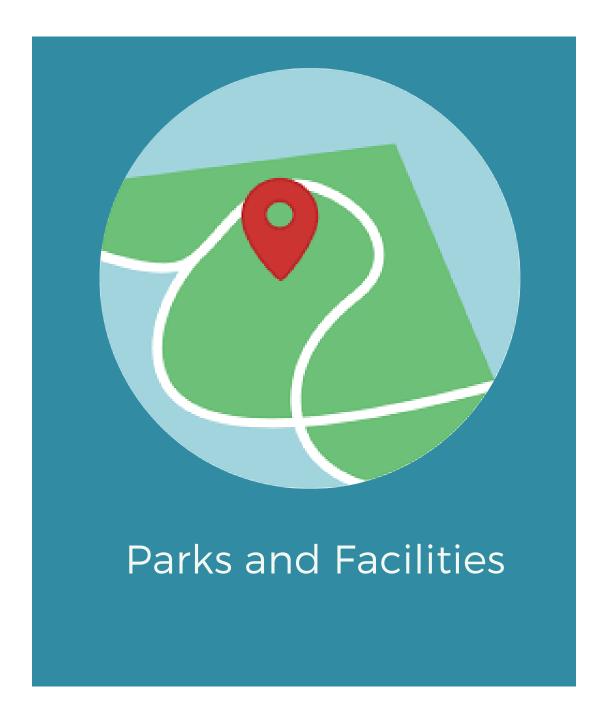
Location Driven



POPULAR DATASETS

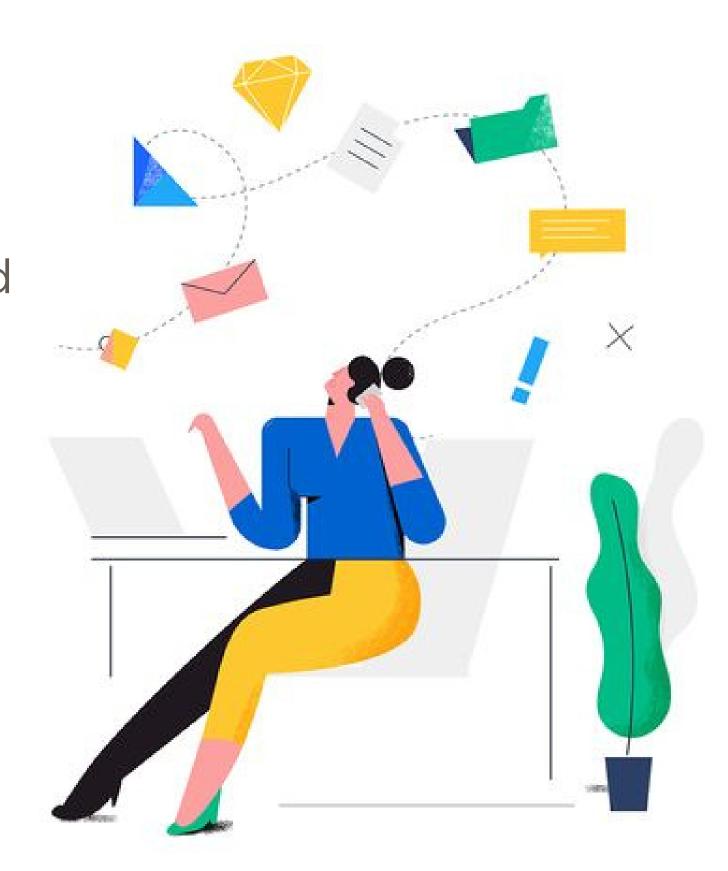






CREATING VALUE

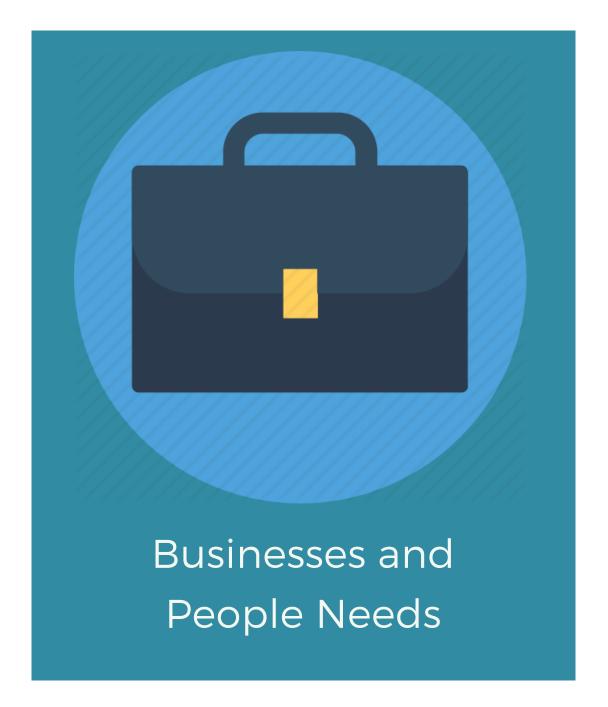
- High percentage of data is not used.
- Data in itself is not valuable, as data is seen and used by more and more people the more valuable it becomes.
- As more people are exposed to the data more potential valuable outcomes occur.



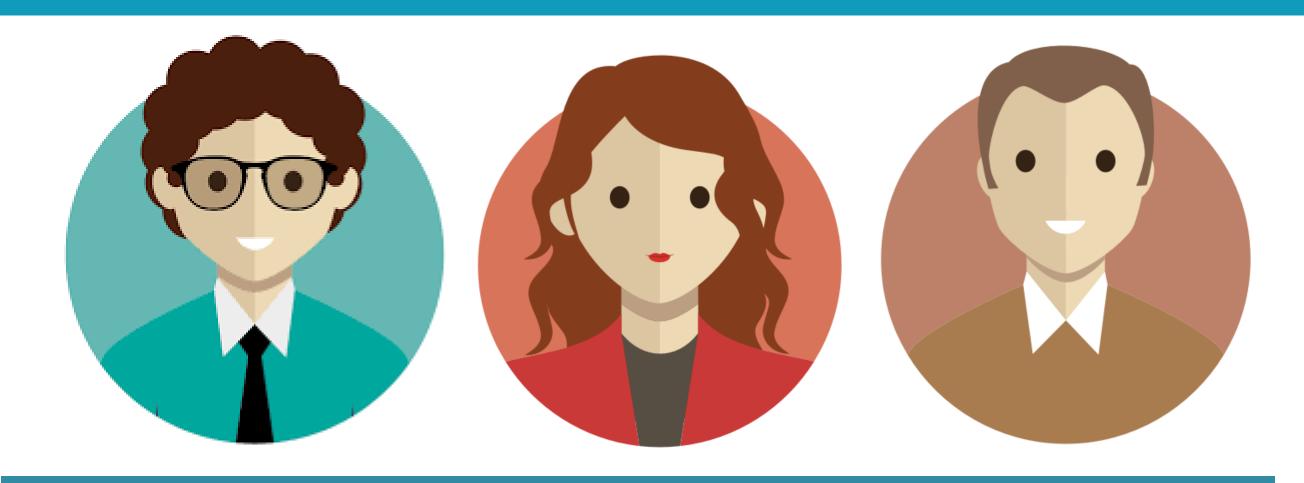
CREATING VALUE







DATA FOR PEOPLE



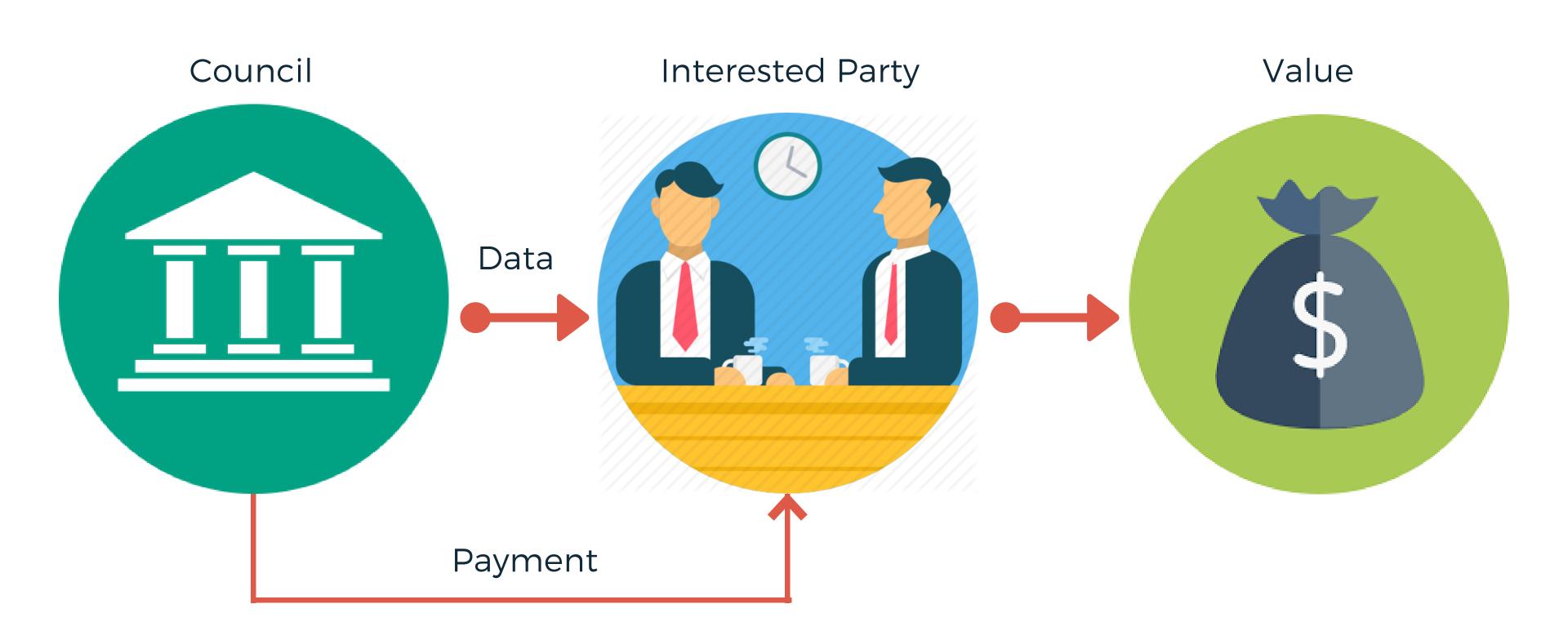
Council Demographics and Economics

Community History

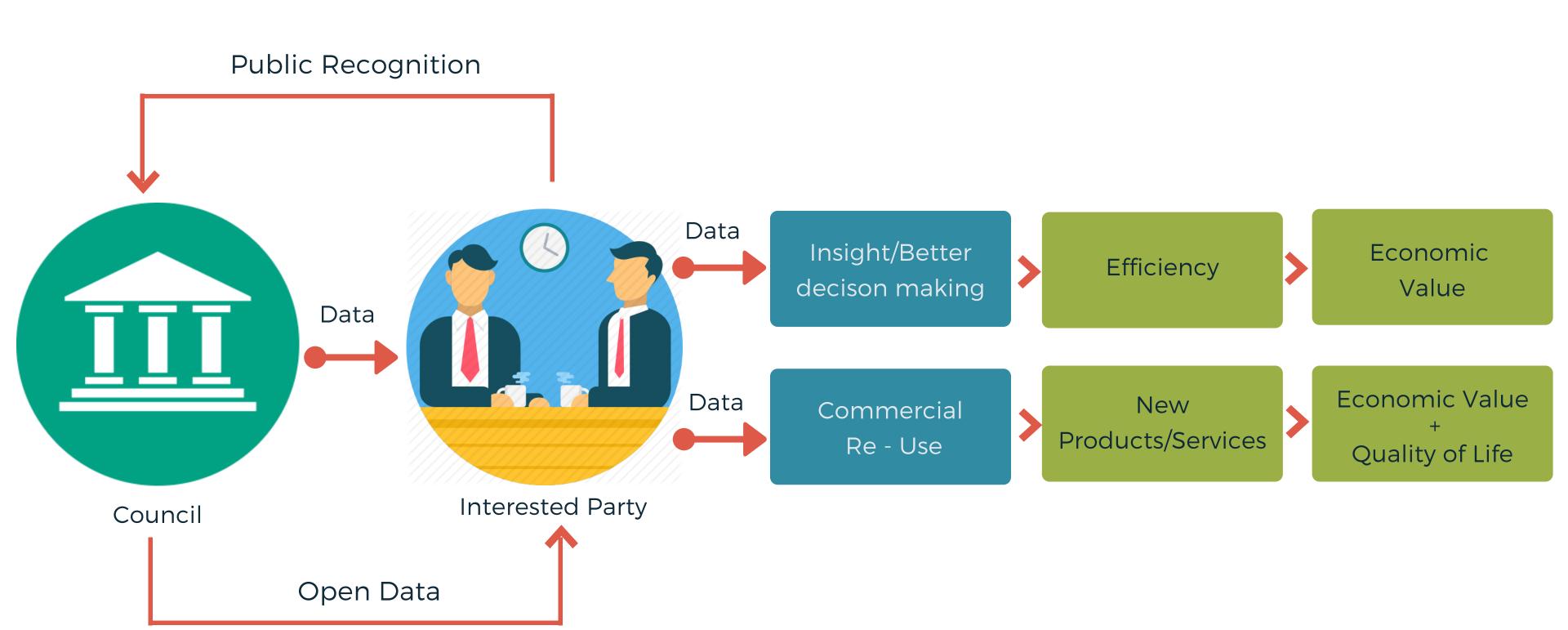
Local Government and Politics

Local Services, Facilities, Institutions and Groups

COMMERCIALISATION



COMMERCIALISATION



DATA FOR BUSINESS

Policy Information

Business & Economics

Council Demographics & Population Densities

Labour Market Characteristics

Real-Time Foot-Traffic

Data











Adherence and business policy development

Operate more confidently & effectively

Select target markets & locate customers

HR Management

Select target markets & locate customers

COMMERCIAL REUSE OF DATA

- 1. Geographic Information
- 2. Meteorological & Environmental Information
- 3. Economic & Business
- 4. Social
- 5. Traffic & Transport

HIGH POTENTIAL DATA SETS

COMMERCIAL REUSE OF DATA

CASE STUDY











#1 Gain Experience

Dog Registrations

Waste Management

Waste Collection Zones

Mapping Facilities

Parks and Reserves
Public Libraries
Sports & Leisure Facilities

#2 Service Needs

Both People & Business

Demographics & Economics

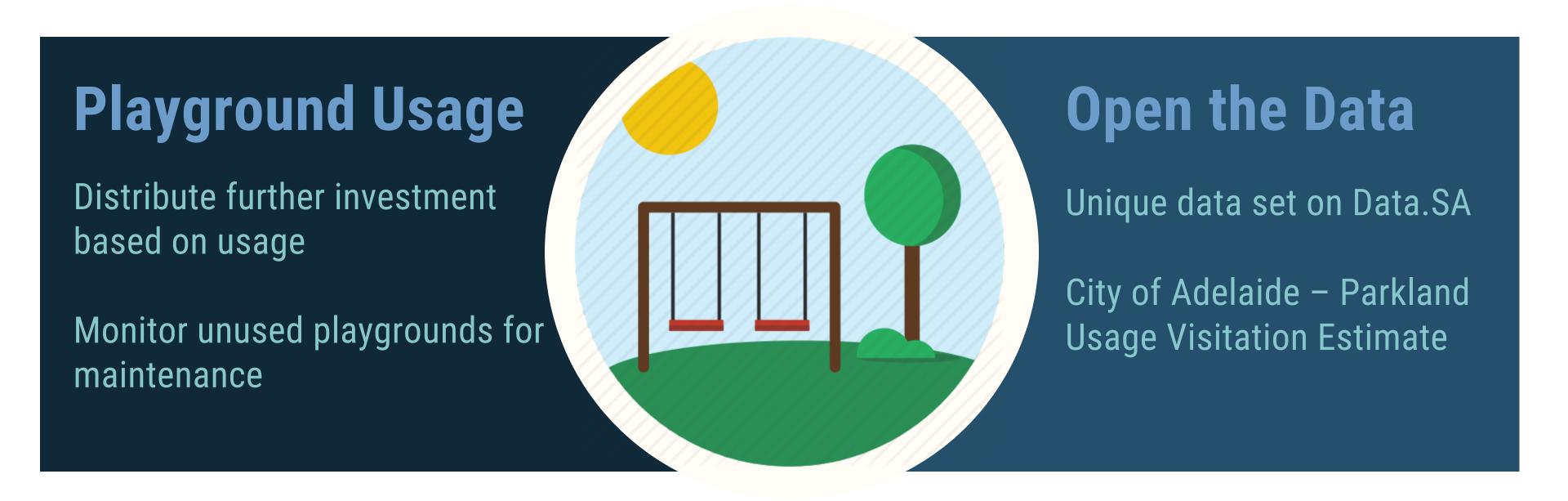
People Needs

Local Services & Community History

Business Needs

Policy Information & Labour Market

High Involvement and High Value Data Sets



High Involvement and High Value Data Sets



Compare before and after usage

Determine success of infrastructure & use in future



Open the Data

Successful Outcomes - Publicity

Attracts business engagement

High Involvement and High Value Data Sets

Traffic Intersection Volumes

Measuring hourly traffic volumes Sydney Coordinated Adaptive Traffic System (SCATS) Control and improve traffic flow - cost-effective and measurable

Open the Data

City of Adelaide currently publishes this data
Influences State Government decisions
Collaborate with Department of Planning, Transport and Infrastructure



High Involvement and High Value Data Sets

Thermal Imaging / Heat Mapping

Tree Management Framework 2018 - '…aims to establish a strong, diverse and clearly defined tree character with quality, functional and sustainable trees that are appropriately managed.'

Measuring heat in urban areas

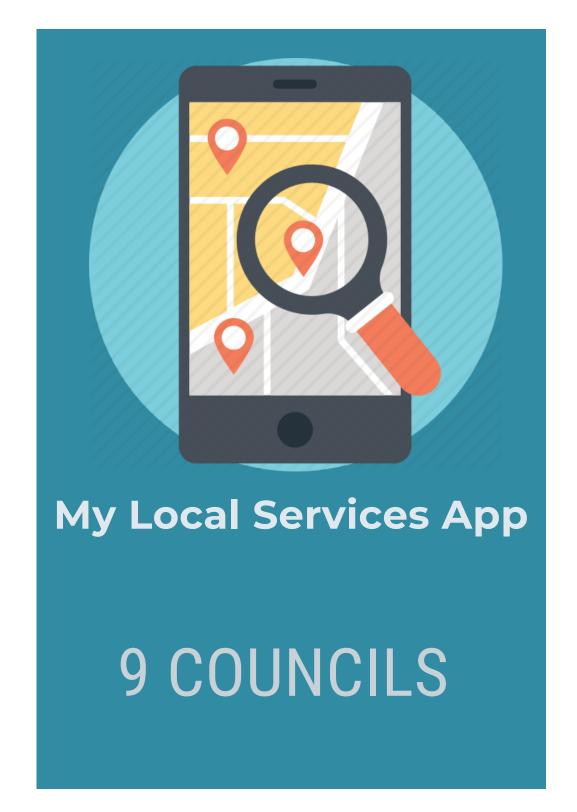
Identifying hottest parts = tree planting & greening programs

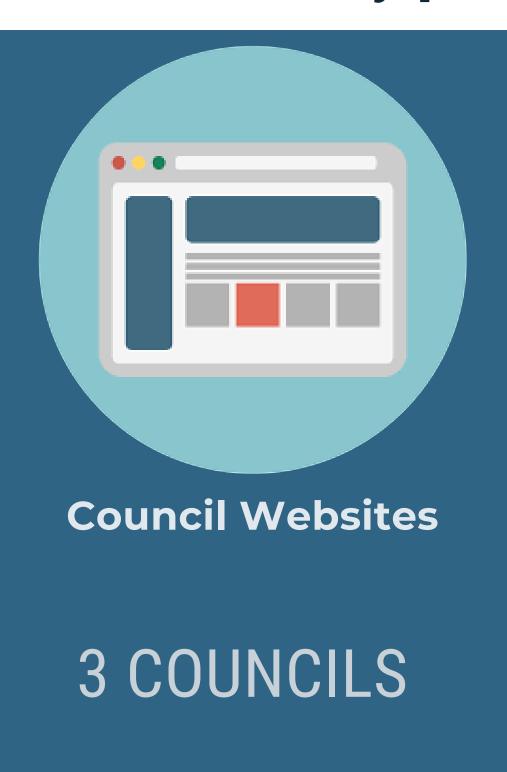
Access Current Open Data

9 Metropolitan Councils are currently involved Partners: Seed Consulting / Endev Geographic / Monash University

ENGAGEMENT-PUBLISHING

How data is currently published?







DATA.SA

What

Help people, businesses, entrepreneurs and industry to transform it to ideas, applications to benefit the community



Easily discoverable

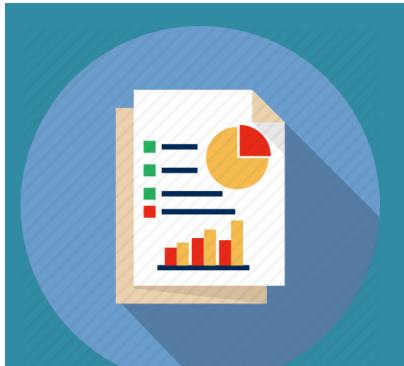
Built in analytics

Own assigned URL

Creative Commons

ENGAGEMENT-PUBLISHING

Most commonly used data formats



PDFs

Portable Document Format Reports or Articles

Cannot be edited



SHP & GEOJSON

Open standard formats

Geographical data

Interactive



EXCEL

Tabular data

Machines and Individuals

Own proprietary software



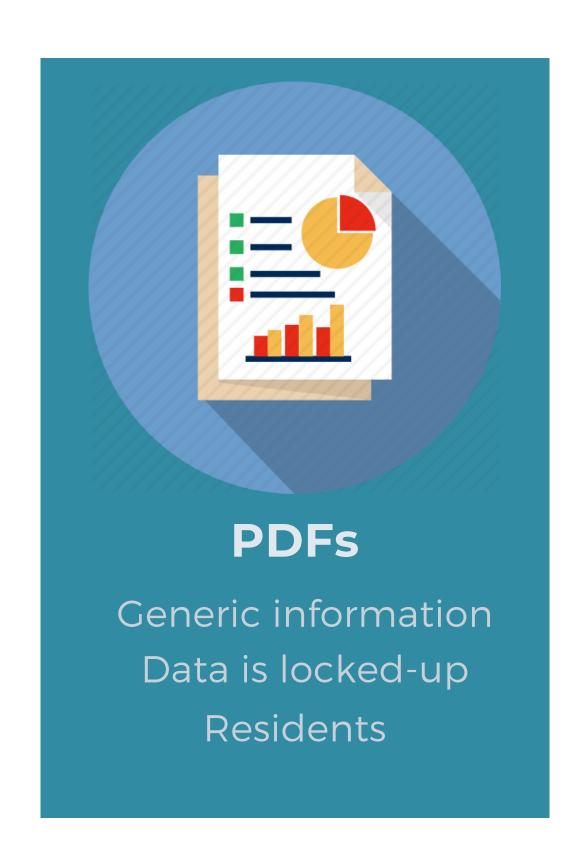
CSV

Comma Separated Values

Tabular data

Better than Excel

ENGAGEMENT-PUBLISHING







ENGAGEMENT-PROMOTION

PROVIDER

Capture information electronically Release data publicly and regularly Identify ways to improve data quality

CATALYST

Build an Open Data Culture
Convene Stakeholders
Champion the movement

USER

Apply sophisticated analytics to improve decison making, offerings and accountability.

Invest on people, tools and systems

POLICY MAKER

Makes rules for internal and external use Establish standards for data quality and format

Thank You

