

IS v2.0
April 2018



Ainsley Simpson | Acting CEO

Overview

ABOUT ISCA

TRENDS AND TRACTION

IS RATING SCHEME

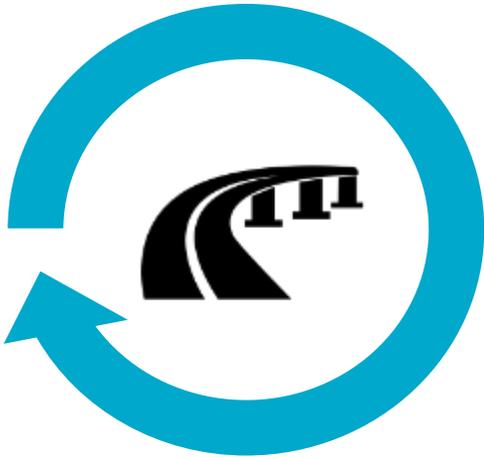
2018 IMPACT OUTCOMES

NEW DEVELOPMENTS



ISCA's Mandate

Improving the productivity and liveability of industry and communities



Assurance

- Ratings
- Support/ Advisory
- IS Supply



Capability

- Training / Workshops
- Professional Accreditation



Community

- Membership
- Awards
- Events

Asset Classes

Transport



Road



Rail



Port



Airport

Utilities



Water



Energy



Communication



Waste

Public Realm/ Open Space



Sports



Parks



Defence

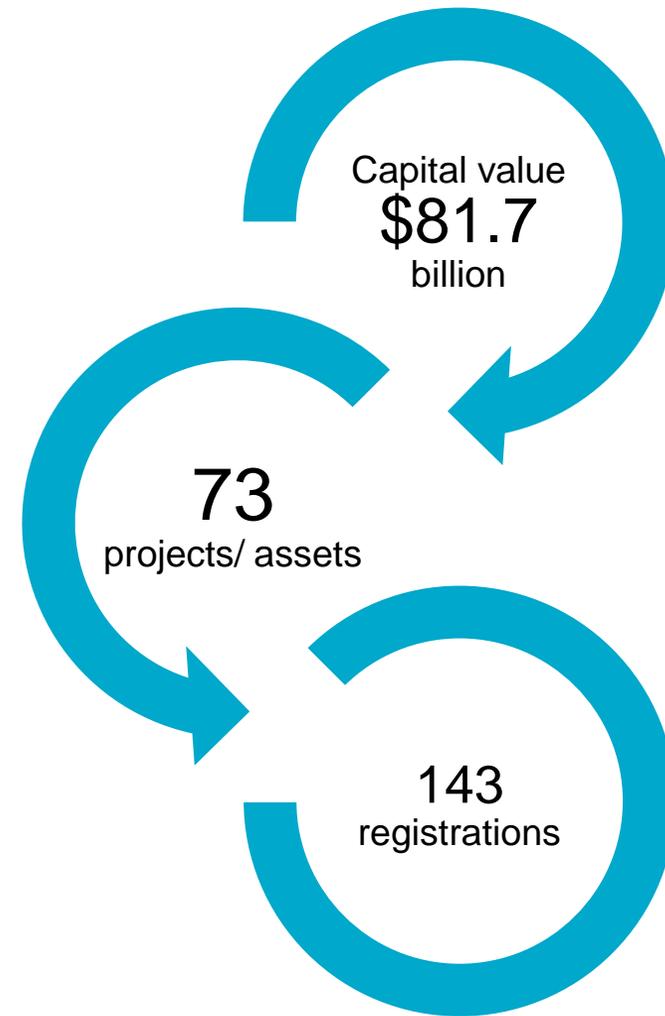


Detention

IS in ANZ

ADOPTION

*IS is deployed across ANZ to measure and report **sustainability performance** and drive **better infrastructure outcomes** benefiting communities and industry*



CERTIFIED/ COMPLETED

DELIVERING IMPACT
ACROSS ALL ASSET CLASSES
AND MAJOR STATES &
TERRITORIES



64

Certified ratings or completed
planning phase registrations



23
Road



22
Rail



5
Port



2
Airport



7
Water



1
Energy



4
Social



19
Planning



25
Design



15
As Built



5
Operation



11
WA



4
SA



6
Qld



21
NSW



3
ACT



13
Vic



6
NZ

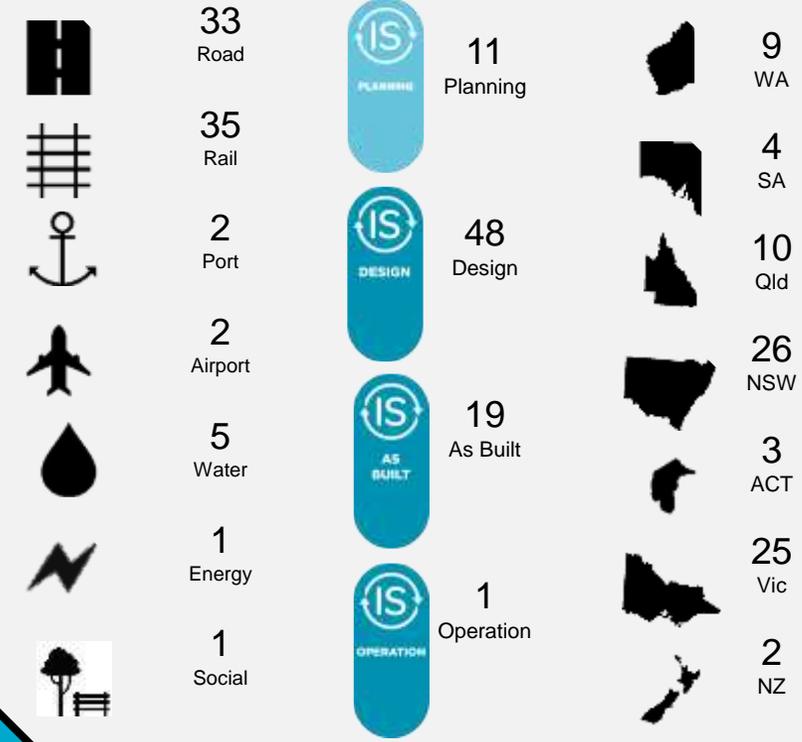
ACTIVE

INFLUENCING OUTCOMES
ACROSS ALL ASSET CLASSES
AND MAJOR STATES &
TERRITORIES



79

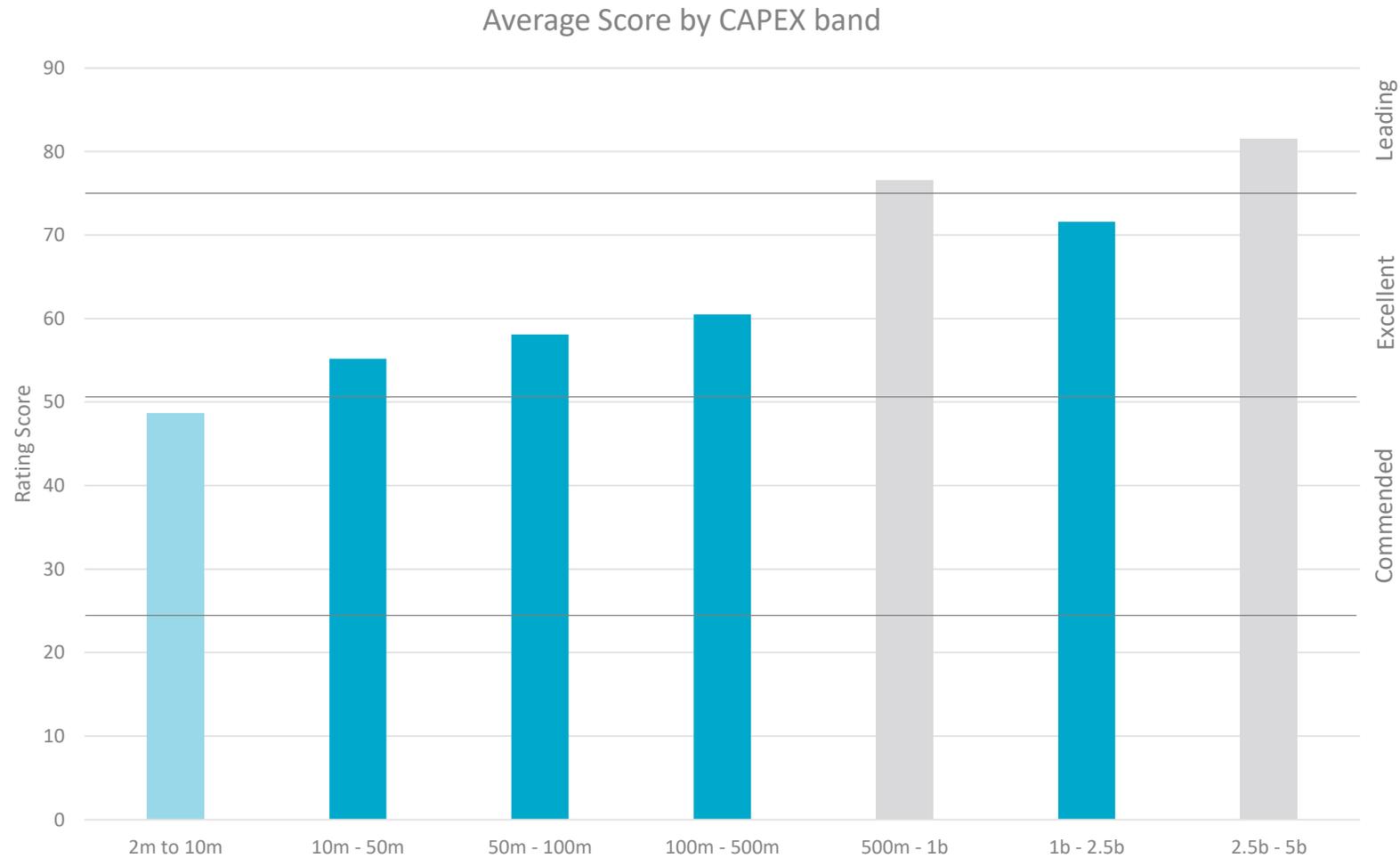
Active registrations



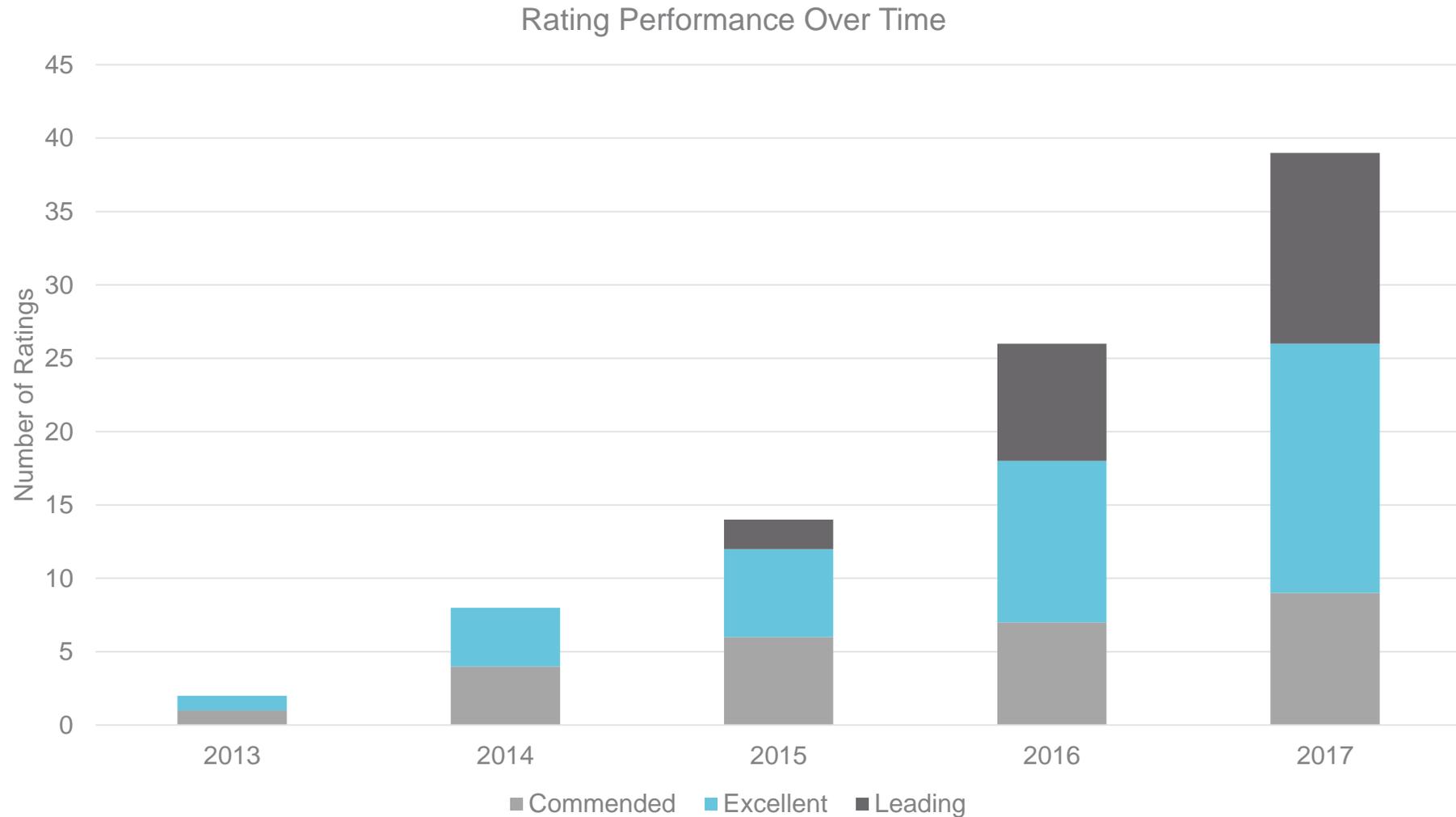
Mandating Practices

| State | Agency | Mandate |
|-------|--------------------------------------|--|
| NSW | Department of Planning | Critical state significant infrastructure |
| | Transport for NSW | ALL projects >\$50m, High risk projects <\$50m |
| | Sydney Metro | ALL project in program |
| | Queanbeyan Palerang regional Council | ALL projects >\$2m |
| QLD | Transport and Main Roads | ALL projects >\$100m |
| WA | Main Roads WA | ALL projects >\$100m |
| VIC | Vic Roads | ALL projects >\$100m |
| | Level Crossings Removal Authority | ALL projects in program |
| | Melbourne Metro | ALL projects in program |
| | City of Casey | Capital works projects |
| NZ | City Rail Link Ltd | ALL projects in program |

Advancing Outcomes: Great and Small



Advancing Impact & Outcomes



Advancing sustainability in infrastructure

BEST PRACTICE & IMPACT OUTCOMES

Sustainability Leadership in 2017/18



GOVERNANCE

Knowledge
Sharing beyond
project
boundary

Industry-wide [Supply Chain Sustainability Day](#) held by construction contractor to educate potential suppliers on sustainability requirements and expectations and pointer towards the Australian Supply Chain Sustainability School

Procurement
and purchasing

Procurement system included many social aspects reflecting the commitment of project to positively impact the [local employment market, including upskilling, capacity building and indigenous recruitment](#)

Decision
Making

Excellent use of materiality to determine significant issues - credits/categories with a materiality score (using the weightings assessment process), in particular, an [MCA decision making framework](#) was developed as a means to effectively appraise how various business and sustainability considerations [influenced significant decisions](#)



Supply Chain Sustainability Day

Sustainability Leadership in 2017/18



ENVIRONMENT

ENERGY

31%

Reduction in emissions reduction
1,957,142.1 tons of Co_{2-e} = avoidance of
780K tonnes of coal combustion

WATER

24%

Reduction in water use
1,330,086 kL = 503 Olympic swimming pools

MATERIALS

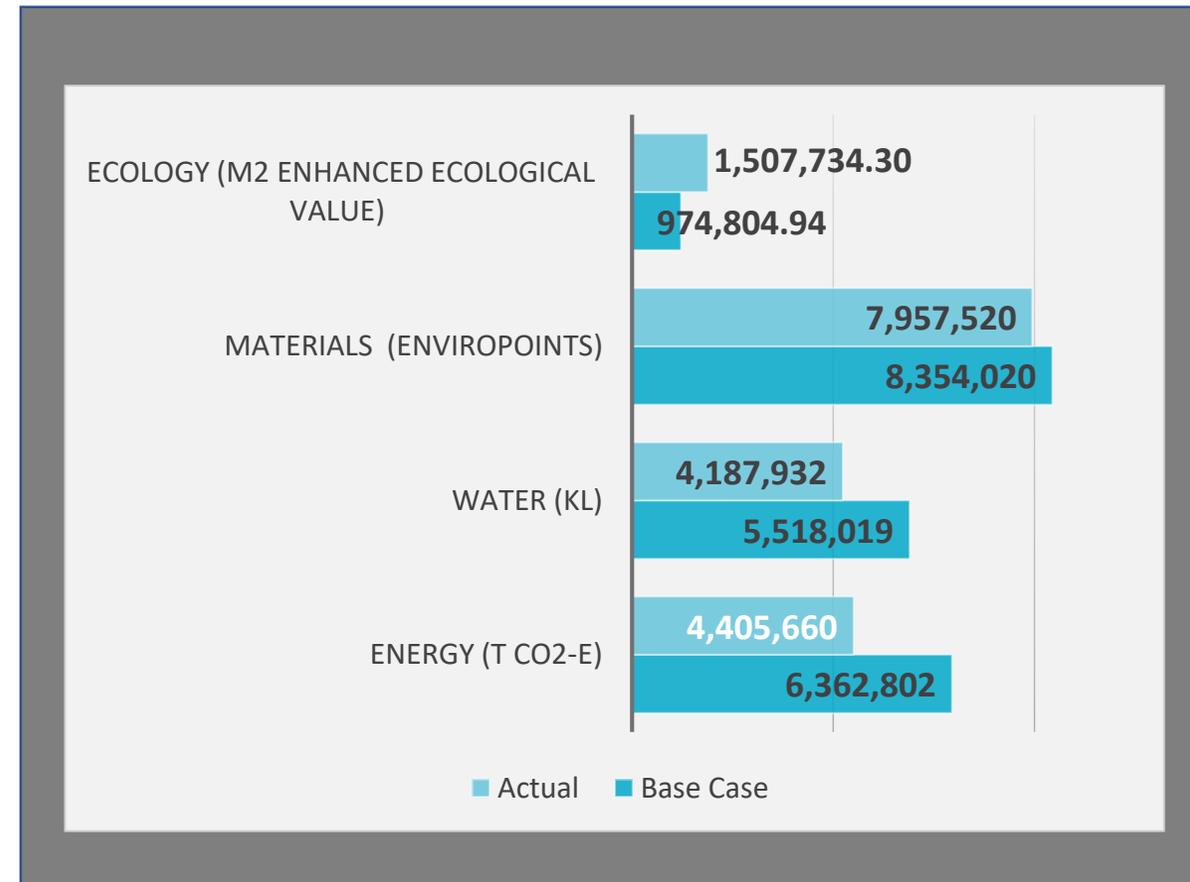
5%

Reduction in Enviropoints
396,500 Enviropoints ~ 305K tonnes of
waste diverted from landfill

ECOLOGY

54%

Enhanced ecological value
53 Ha net area gained including offsets



Sustainability Leadership in 2017/18



SOCIAL

Community Support

Project is supporting the **disadvantaged, disabled and low-income** to enable them to remain in the city

Community Education

Projects have partnered with **local high schools** to provide fee assistance and scholarships

Active Transport

Project implemented a **4 metre-wide Principle Shared Path** to provide better connectivity

Project economic impacts

Community Investment Fund (CIF) established to positively contribute to the communities in which Companies operate

Highlight: NorthLink WA Southern Section Pedestrian tunnel for local Primary School installed to minimise walking distance, and improved visibility by using a 3-pin arch structure instead of a conventional design.



Sustainability Leadership in 2017/18



INNOVATION

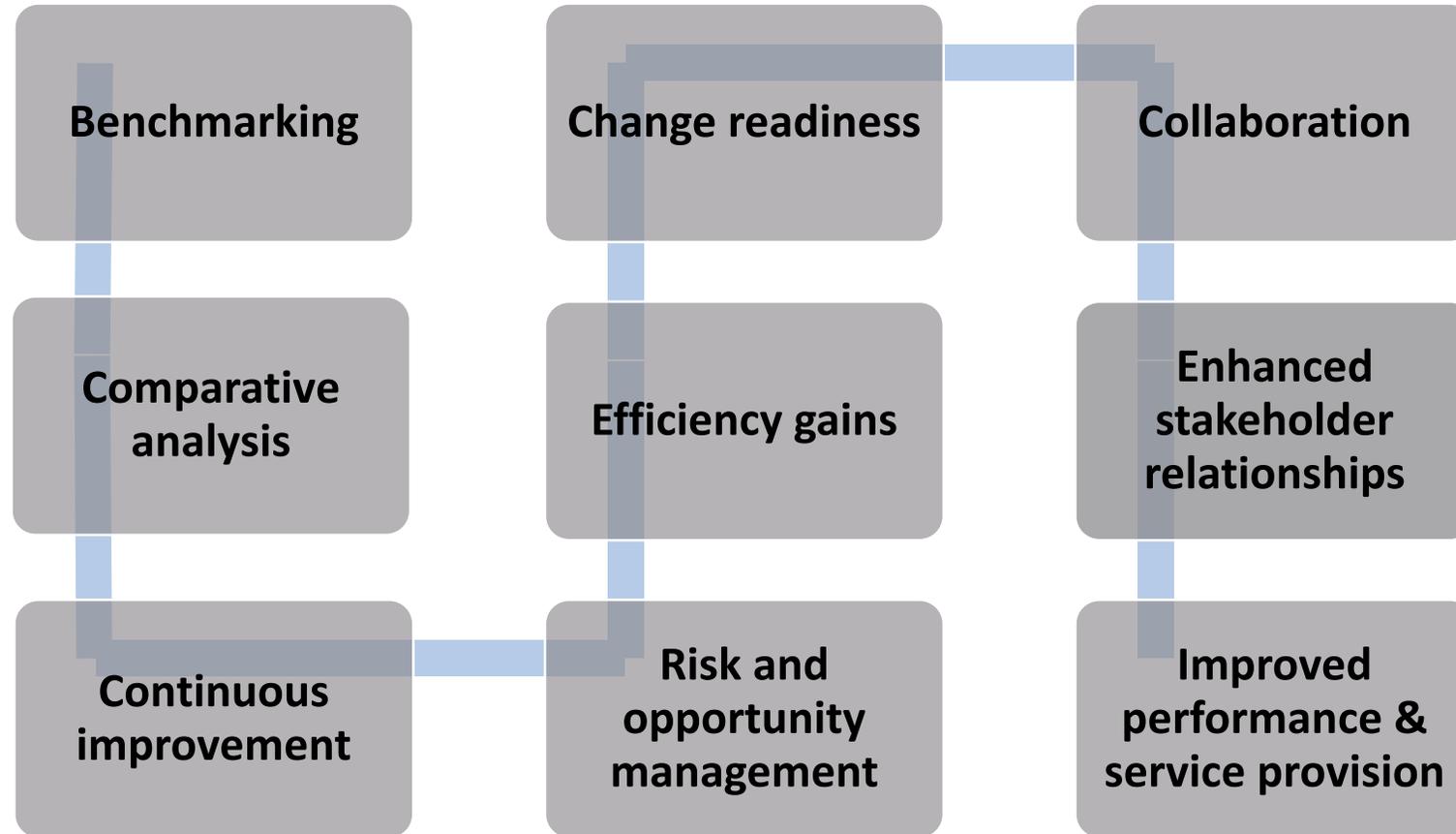
| World First | Australian First | State First |
|---------------|---|---|
| 1x Technology | 5x Material 1x Design 1x Technology | 3x Technology 5x Design 3x Material |

Highlight: NorthLink WA Southern Section achieved full 10 points with 11 innovations

World First: Automated Lashing Platform to bridge the automation gap between the ship to shore cranes and horizontal transport machines. Minimises exposure of stevedores to hazardous conditions and improves efficiency of wharfside movements.



Benefits

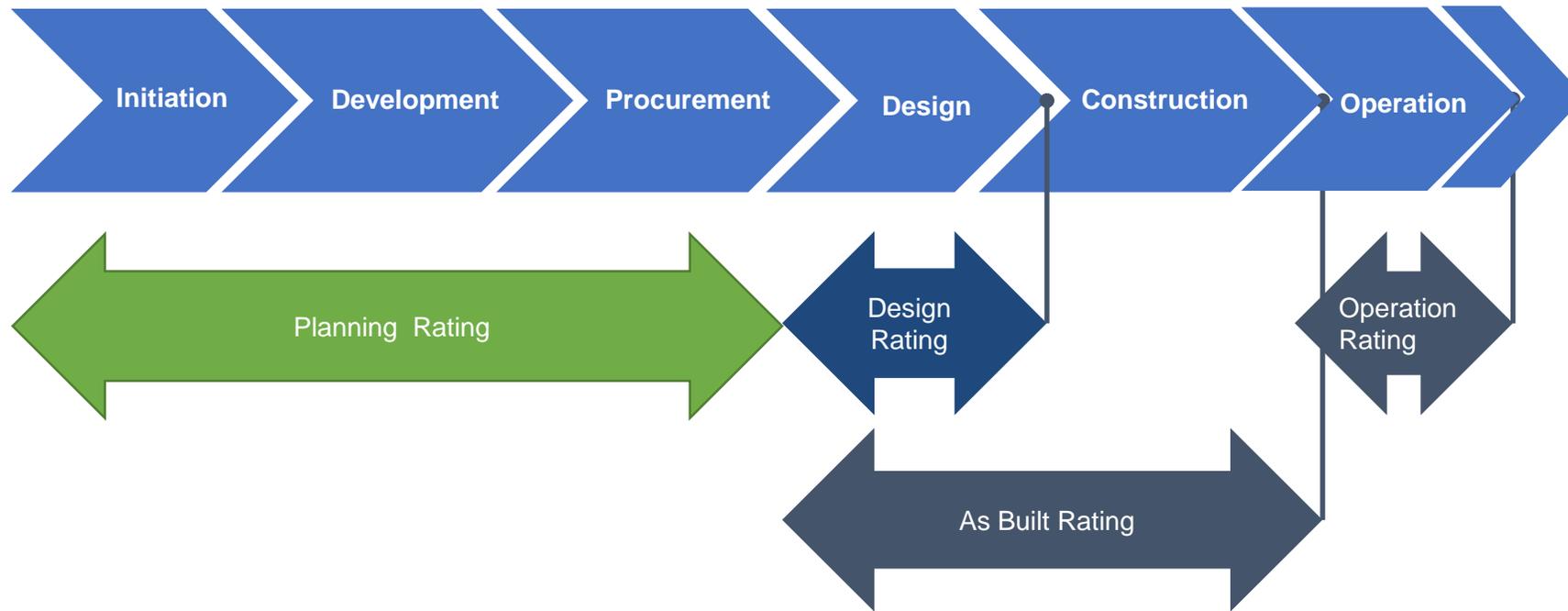


“Measuring sustainability is good business practice”

New Development

IS RATING SCHEME

V 2.0 Whole of Life



IS Version 2.0

Governance

- Culture & Context
- Leadership & Management
- Sustainable Procurement
- Resilience
- Innovation

Economic

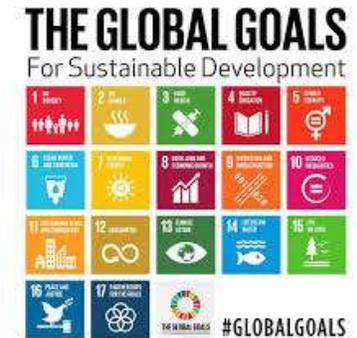
- Options Assessment & Business Case
- Benefits Realisation

Environment

- Energy & Carbon
- Green Infrastructure
- Environmental Values
- Resources
- Water
- Ecology

Social

- Stakeholder engagement
- Legacy
- Heritage
- Workforce



EFFICIENCY IN APPROACH

OPERATIONS:

CAPITAL MAINTENANCE PROGRAMS

MEMBERSHIP BUNDLING

SUSTAINABILITY LEADERSHIP PACKAGE

Capital Works Program Annual Budget: 2017/2018

| Project Code | Project Description | Budget Estimates | | |
|-------------------------------------|--------------------------------|------------------|------------|-----------|
| | | Expenditure | Income | Net |
| STREETSCAPES & PRECINCTS | | | | |
| | Draft Budget | 233,970 | 0 | 233,970 |
| | Long Term Financial Model 2017 | 794,400 | | 794,400 |
| | Difference | | | |
| PATHS | | | | |
| | Draft Budget | 1,113,591 | 0 | 1,113,591 |
| | Long Term Financial Model 2017 | 1,384,710 | | 1,384,710 |
| | Difference | | | |
| PLAYGROUNDS | | | | |
| | Draft Budget | 540,480 | 0 | 540,480 |
| | Long Term Financial Model 2017 | 715,080 | | 715,080 |
| | Difference | | | |
| ROADS | | | | |
| | Draft Budget | 9,056,901 | 1,711,267 | 7,345,634 |
| | Long Term Financial Model 2017 | 9,076,944 | -2,020,634 | 7,056,310 |
| | Difference | | | |
| DRAINAGE | | | | |
| | Draft Budget | 2,800,000 | 0 | 2,800,000 |
| | Long Term Financial Model 2017 | 2,500,000 | 0 | 2,500,000 |
| | Difference | | | |
| SUMMARY | | | | |
| | Draft Budget | 30,481,601 | -2,236,267 | ***** |
| | Long Term Financial Model 2017 | 30,814,014 | -2,020,634 | ***** |

DELIVERING GOVERNMENT STRATEGY

MEETING GOVERNMENT POLICY OBJECTIVES

- QUEENSLAND CLIMATE ADAPTATION STRATEGY
- QUEENSLAND CLIMATE TRANSITION STRATEGY
- QUEENSLAND STRATEGY FOR DISASTER RESILIENCE

2.1 Climate Change Strategies Introduced (by DES)
 Qld Climate Adaptation Strategy
 Qld Climate Transition Strategy
 Qld Strategy for Disaster Resilience
 QCA5 | QCTS | QSOR

Pathways to a climate resilient Queensland
 Queensland Climate Adaptation Strategy 2015-2018

ISCA Infrastructure Sustainability Council of Australia

2.2 IS, ISCA and the QLD Market Context (by ISCA)
 Significant Growth
 Over \$20.7B worth of Qld Infrastructure Assets using IS
 (out of national \$81.8B using IS)
 Current TMR mandate >\$100M

Pathways to a clean growth economy
 Queensland Climate Transition Strategy

Queensland IS Ra...

| Project | Rating |
|---|---------------------|
| Windsor Waste Water Treatment Plant | Design & As B |
| Gold Coast Light Rail | As B, Open Planning |
| Cross River Rail | Planning |
| Galilee Upgrade North (Hudges to Broken Ridge) | Design & As B |
| Qld's Water Wastewater Treatment Plants | Operations |
| Port Drive Upgrade | Design & As B |
| Island Rail | Planning |
| Sunshine Coast Solar Farm | As B & B |
| Lugan Enhancement Project | Design & As B |
| South Brisbane Upgrade (Brisbane to Daniel) | Design & As B |
| Paifu Waterway Upgrade - Mt/Mt/Caboolture Stage | Design & As B |
| Woolston Depot | Planning |
| Total | |

Our pathways

2.3 Joint Project - Strategy and Policy Mapping (by Studio Consult)
 Collaborative undertaking.
 Reflects State leadership in ANZ towards Climate Change
 Project Tasks and Method shared.
 Workshop is part of Task 1 (of 4)

- 52% of IS credits have relevance to the 3 strategies
- 86 possible next steps
- Core action outcomes:
 1. IS as a Reference
 2. Potential Valuable Data Source
 3. IS Projects progresses/delivers on Strategy Action
 4. Strategy Actions valuable to Projects

Upcoming Events



| | | |
|------------|--|---------------------|
| 22 May | Sustainable Materials In Roads Forum | (Brisbane) |
| 7 June | New Zealand Infrastructure Sustainability Summit | (Auckland) |
| May & June | IS Training for Professionals | (Brisbane & Sydney) |
| July | V2.0 Launch | (Across ANZ) |
| 18 July | Western Australia Conference | (Perth) |
| October | Annual Conference and Gala Awards | (Sydney) |