

Infrastructure as a system

Delivering outcomes



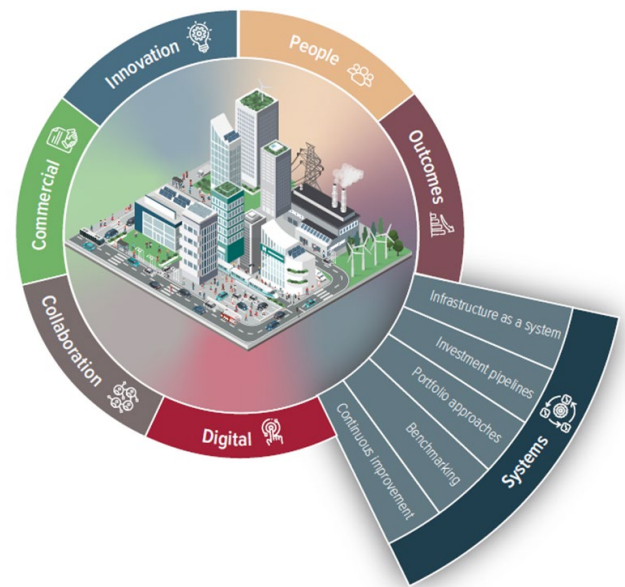
Managing and planning infrastructure as a system drives more informed decision-making leading to higher quality, faster and cheaper infrastructure solutions that better align to the needs of people and places.

Current state

The infrastructure underpinning the prosperity and liveability of our cities and regions is more connected, interdependent and complex than ever. Current planning and delivery processes do not enable a holistic approach to delivering outcomes. A whole of system approach will ensure the sector delivers the outcomes Australians need.

Where do we want to get to?

- Managing infrastructure as an integrated system.
- Reliable, transparent and consistent investment pipelines.
- Adoption of portfolio approaches to infrastructure planning.
- Implementation of robust benchmarking.
- A culture of continuous learning embedded across the sector.



'The nature of our projects and environment has changed dramatically - all projects impact each other and are literally or digitally interconnected.'

Industry stakeholder

What are the key principles that will guide how we get there?

- Infrastructure should be managed and developed as an integrated system
- Transparent investment pipelines should provide visibility of future demand.
- Owners should adopt portfolio approaches to infrastructure planning to drive investment in new technologies
- National and jurisdictional benchmarking frameworks should be in place to drive performance
- Continuous improvement should be driven through identifying, distilling and sharing best practice

Infrastructure as a system

Recommendations

2.1: Improve infrastructure value for money by ensuring solutions are developed as interventions within an infrastructure system

2.2: Enhance resource, skills, and capability planning across the infrastructure sector by developing reliable, transparent and consistent investment pipelines.

2.3: Progressively adopt portfolio approaches to infrastructure planning to drive investment in new technologies and solutions, and improve the consistency, quality and speed of delivery and value for money.

2.4: Improve visibility of project and asset performance and best practice and enhance infrastructure value for money by developing and implementing robust benchmarking frameworks

2.5: Embed a culture of continuous learning across the infrastructure sector to support better, faster and cheaper and more innovative infrastructure solutions and delivery

'We need a central function for cost benchmarking to develop a real understanding of cost, and dispassionate analysis of what goes wrong or right in infrastructure'

State government stakeholder