

# Digital Transformation

## Delivering outcomes



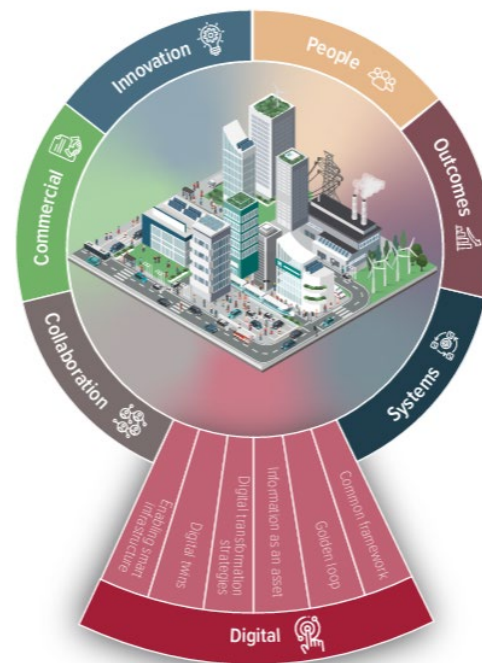
Digital transformation will drive productivity and innovation in infrastructure delivery.

### Current state

Digital has the potential to transform infrastructure and support enhanced productivity and innovation. Digital is a core enabler to achieving transformational change across the sector.

### Where do we want to get to?

- A common national information framework across all infrastructure assets to improve data interoperability and information.
- Data is treated as a valuable asset.
- Information handover is considered on equal importance with physical asset handover
- All major contributors to infrastructure delivery begin their digital journey with Digital Transformation Strategies.
- Digital twins are developed for all infrastructure projects.
- Procurement strategies and approaches enable smart infrastructure solutions to drive financially sustainable and efficient delivery of outcomes.



'Government is not aware of the wealth of data that it does actually sits on. There is need to better harvest the data it has access to'

State infrastructure department

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

- A common national approach to information frameworks and requirements applied across infrastructure assets
- All infrastructure programs should be founded on a visible 'golden loop' of high-quality digital information that flows through the end-to-end delivery process
- Projects and programs should recognise information as an asset, with provision of information an integral component of asset handover
- All major contributors to infrastructure delivery should have clear Digital Transformation Strategies
- All infrastructure projects and programs should adopt digital twins
- Programs should adopt development and procurement approaches that enable smart infrastructure solutions

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## Recommendations

- 3.1: Develop and implement a common national information framework across all infrastructure assets in all jurisdictions to drive better data interoperability and information sharing and better, more informed decision making.
- 3.2: Infrastructure programs should integrate digital information loops throughout the lifecycle of infrastructure assets to drive better decision making and improve the performance of existing assets.
- 3.3: All infrastructure projects should ensure there is timely handover of quality information to set operators up for success.
- 3.4: All major contributors to infrastructure delivery should have Digital Transformation Strategies to drive digital transformation in the infrastructure sector.
- 3.5: All infrastructure projects and programs should create digital twins of the physical asset to drive efficiency and productivity improvements.
- 3.6: Procurement and program development approaches should enable and encourage smart infrastructure solutions to drive more financially sustainable and efficient delivery of outcomes.

‘Interoperability is key to reducing friction in data sharing – you need to have data that can talk to one another to build the bigger picture’

Industry leader