

Smart city policy

Policy No. 6220.100.E.R

1 Purpose

The purpose of this policy is to establish the principles for the design, development and deployment of our smart city future and to ensure that Smart City initiatives are ethical, responsible and transparent.

2 Scope

This policy applies to the design, delivery, and implementation of all new and existing smart city initiatives undertaken by City of Darwin. Smart city initiatives integrate data and technology into projects, services and processes and could include:

- installing smart city or connectivity infrastructure such as smart poles, sensors and smart furniture
- integrating data, technology or automation in City of Darwin services, including parking and irrigation
- digitalising City of Darwin processes or services such as real-time data insights and using economic development portals
- optimising planning and decision-making with data or real-time information such as data dashboard, virtual twin or data-informed master planning
- promoting digital innovation through presentations, pilot projects and data sharing.

3 Policy statement

City of Darwin is taking steps to become a smarter city by using solutions and technology to, among other priorities, enhance urban planning, improve environmental measurement, activate public spaces, support traffic analysis, and encourage active transport.

City of Darwin’s objective is to ensure that smart initiatives and technologies, such as sensors and counters, provide real benefits for the Darwin community by responding to the priorities of the people, including their diversity, equity, and inclusion needs.

City of Darwin believes that smart city initiatives are key to building resilience, efficiency and liveability, and aims to prevent and mitigate associated risks related to privacy, security, and sustainability.

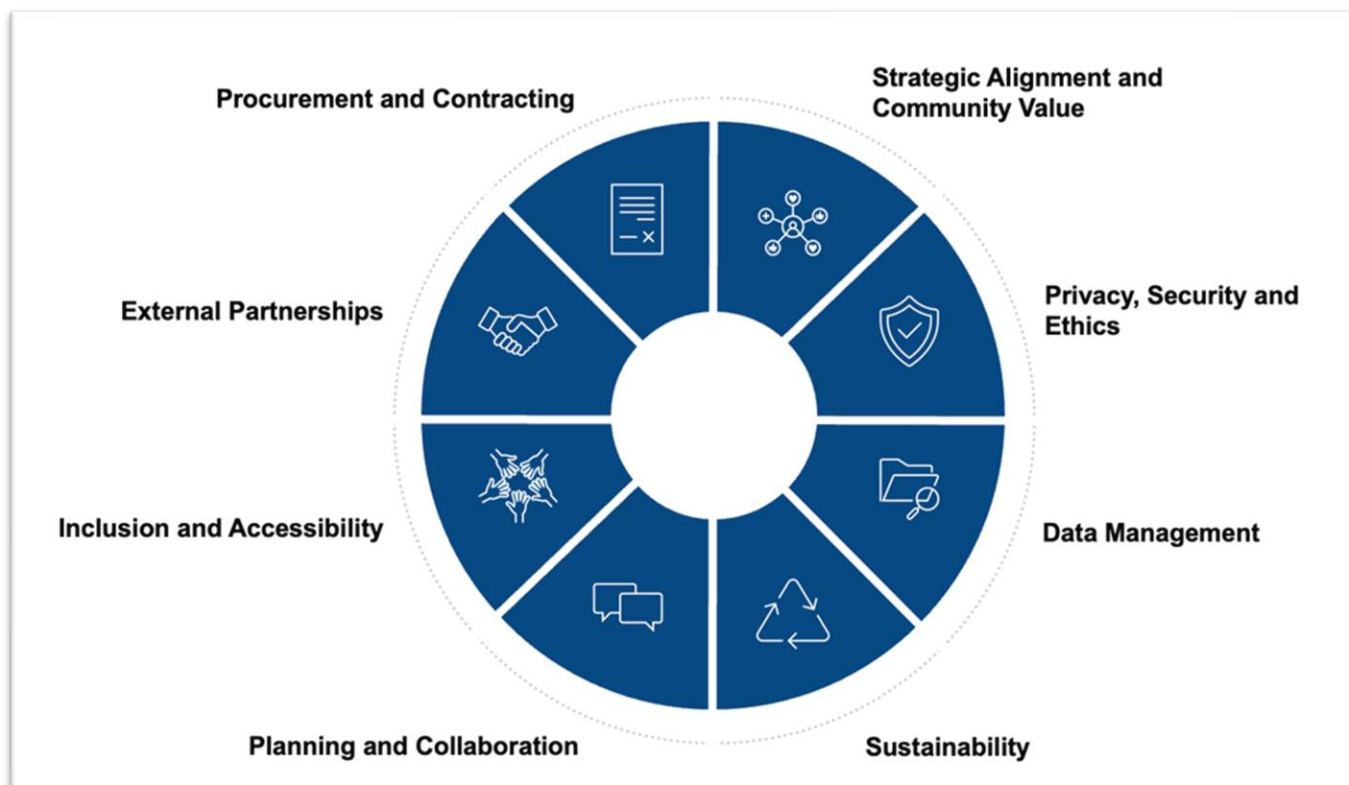
There are eight key building blocks of this policy, including:

- strategic alignment and community value
- privacy, security and ethics
- data management
- planning and collaboration
- inclusion and accessibility
- external partnerships
- procurement and contracting.

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Responsible Officer: General Manager Innovation

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3.1 Strategic alignment and community value

All smart city initiatives must align with key City of Darwin strategies and priorities, especially the 2030 Smart City Framework and Management Plan. Smart initiatives or technology should:

- detail the purpose or challenge it is aiming to address
- describe the value it delivers for residents, staff, and other stakeholders.

3.2 Privacy, security and ethics

City of Darwin adheres to strong ethical, privacy and security standards to foster community trust and confidence in Smart City initiatives and technology.

When planning, designing, procuring, operating and integrating smart city initiatives and technology, City of Darwin officers should carefully consider and reflect the principles and requirements of key policies and procedures, such as:

- 4000.010.I.R City of Darwin Code of Conduct
- 6150.001.I.N Information Communication Technology Disaster Recovery Plan
- 2510.010.I.R Privacy Management Framework.

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3.3 Data management

Deliberate and effective data management is a base requirement for all City of Darwin activity, and is most relevant in the smart city context, given the breadth and depth of data collection enabled by smart technology.

All smart city initiatives should be designed with reference to City of Darwin’s Data Policy. Data management practices should then be detailed in relevant project initiation briefs, procurement documents, contracts, and project plans.

3.4 Sustainability

City of Darwin is committed to leveraging smart city technology to support sustainability outcomes, while being conscious of the sustainability impacts of the technology itself such as embedded carbon and waste management.

3.5 Planning and collaboration

City of Darwin officers should consult with the Digital Innovation team to explore any relevant, high-value smart city opportunities when planning and conducting projects, including when preparing budgets or grant applications.

3.6 Inclusion and accessibility

City of Darwin is committed to inclusion and accessibility across all services and activities, and this extends to digital/technology inclusion and access.

All workplace participants delivering smart city projects and programs should consider the Access and Inclusion Plan and consult with relevant stakeholders as required.

3.7 External partnerships

To promote innovation, collaboration, knowledge sharing, risk management, investment and impact, City of Darwin encourages smart city partnerships with stakeholders such as:

- universities
- industry associations
- other governments
- sister cities
- community groups
- researchers.

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3.8 Procurement and contracting

All procurement documents and contracts relating to smart city initiatives and technologies should refer to, consider and promote the objectives and requirements of this policy.

4 Definitions

Smart City means one that uses technology and data to enhance its liveability, workability, and sustainability.

Smart city infrastructure means a physical device, tool or item enabled by power and a connectivity network that enables data collection and/or the delivery of identified outcomes.

Connectivity infrastructure including fibre, telecommunications, Internet of Things, and other wireless networks supports the communication of information between smart city infrastructure and City of Darwin.

Data means information, especially facts or numbers, collected to be examined and considered and used to help decision-making, or information in an electronic or digital form that can be stored and used by a computer or some other interface.

Digitalisation means the adaptation of systems, processes and services to be supported by technology and data.

Pilot projects means initiatives that aim to co-create trial solutions to local urban challenges, maximising opportunities for innovation and learning, and growing tropical city knowledge and expertise.

Privacy means a basic right or freedom that a person should be able to enjoy, such as the right to be left alone or to be free from unnecessary intrusion into one’s personal life.

Virtual twin means data-driven three-dimensional model of Darwin above and below ground that creates a virtual representation of the physical world.

Workplace participants means employees, volunteers, work experience placements, contractors, consultants, and labour-hire staff of City of Darwin.

5 Legislative references

Privacy Act 1988 (CTH)

Information Act 2002 (NT)

Local Government Act 2019 (NT)

6 Procedures / related documents

ISO 37166:2022: Smart community infrastructures - Urban data integration framework for smart city planning (SCP)

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ISO 37106:2021: Sustainable cities and communities - Guidance on establishing smart city operating models for sustainable communities

0086.100.E.R. Open Data Policy

2005.100.I.R Records Management Policy

2501.100.E.R. Privacy Policy

6130.100.E.R. CCTV Management Policy

6230.100.E.R Data Policy

2510.010.I.R Privacy Management Framework

4000.010.I.R City of Darwin Code of Conduct

6150.001.I.N Information and Communications Technology Disaster Recovery Plan

City of Darwin Retention and Disposal Schedule 2010

ICT Strategy

7 Responsibility / application

This policy will be reviewed every four years, or as required.

All City of Darwin workplace participants are responsible for ensuring that they understand and adhere to this policy.

The implementation, maintenance and compliance with this policy is the responsibility of the General Manager Innovation.

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