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#### **Acknowledgement of Country**

Council is proud to represent a municipality filled with important and significant Aboriginal history. It acknowledges the Traditional Custodians of this land, the Wurundjeri Woi Wurrung and Boon Wurrung peoples of the Kulin nation, and acknowledges the rich culture and considerable contributions Aboriginal and Torres Strait Islander peoples have made and continue to make to this City.



### **Foreword**

A city of activity, innovation and inspiration delivering a bright future for Maribyrnong.

We are living in an exciting time of change, with a rapid acceleration of new technologies worldwide over the last few years.

To keep pace, Maribyrnong is committed to using innovation and technology to support a green, liveable and sustainable environment for our community to enjoy well into the future.

Together, with our residents, businesses, industries and partners, we intend to make the most of the opportunities and benefits of digital technologies, data and innovation to keep our community healthy and safe through effective and efficient management of our systems and urban landscapes.

This Smart City Strategic Framework sets out Council's intentions, plans and initiatives to address local challenges with community focused and technology-driven action.

The Strategic Framework connects with existing strategies and plans across Council to help enhance their delivery through smart city ideas and innovations.

It was developed with valuable feedback and ideas gathered during discussions with our community and aligns with the direction outlined in the 2040 Community Plan. It includes plans for the future of transport, our environmental focus and how the City will continue to adopt new and emerging technologies in a wide range of projects.

The Framework sets a course for us to continue to improve energy efficiency, keep our streets clean, decrease traffic congestion and support the smooth delivery of essential services and will guide Council to better support and respond to the needs of the community with leading technology, skills, infrastructure, and systems.

We look forward to the many benefits and opportunities new technologies will deliver, for a bright and prosperous Maribyrnong of the future.

**Anthony Tran** *Mayor*City of Maribyrnong



Vibrant, diverse, creative, innovative – our community has a unique identity with unique needs and expectations of Council. More and more, digital technologies are influencing these needs and expectations and the way in which we respond, connect and engage.

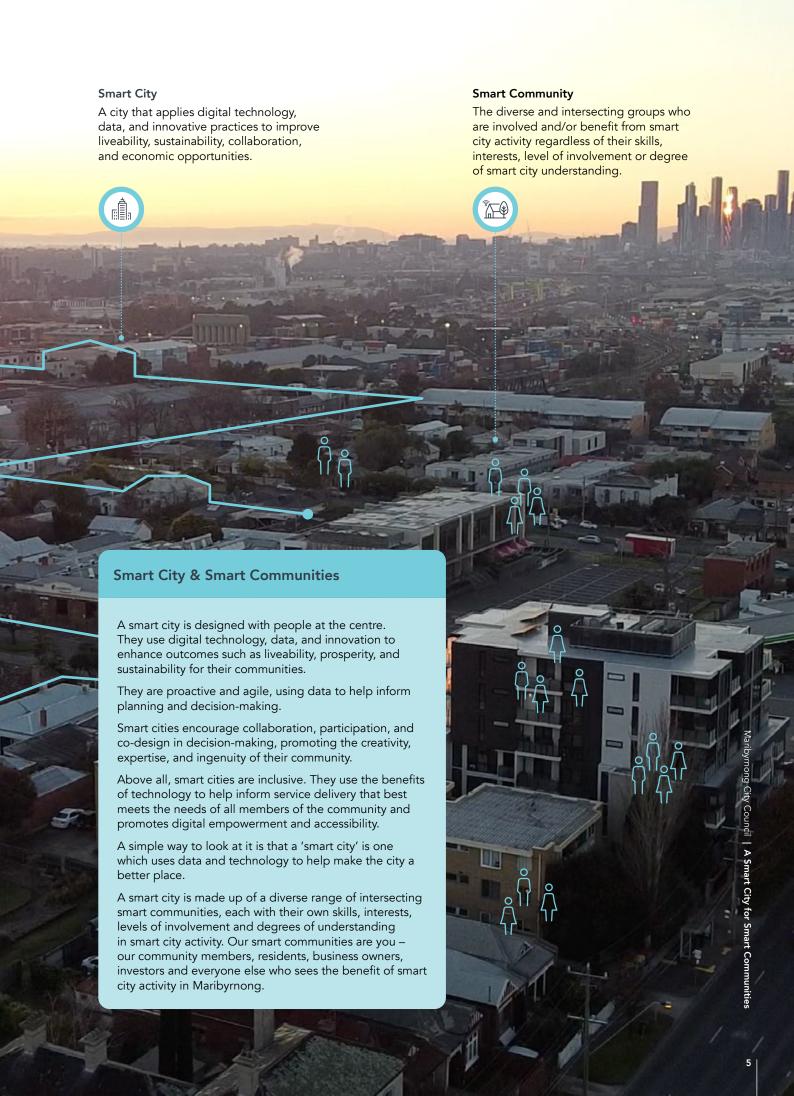
Led by the direction set by our 2040 Community and Council Plans the City of Maribyrnong, in consultation with our community, has developed this Smart City for Smart Communities Strategic Framework (the Framework).

This Framework will guide our approach to integrating smart technology, data and innovation within our places and spaces, community services, decision-making and operations to deliver real benefits to Maribyrnong.

We are taking a proactive approach to technology, embracing data-based decision-making for better community outcomes, and modernising regulations and policies to mitigate emerging technological risks.

We are building on the success of our smart city foundations, and the ingenuity and creativity of our community to drive our forward aspirations.





# Vision

This Framework is founded on the Vision from the 2021-2025 Council Plan:

An inclusive, flourishing, progressive city that cares for both its residents and its environment.

Building on this long-term Vision, and based on consultation with the community, the Smart City Vison for this Framework is:

A community that is empowered to embrace the benefits of smart technology to support...

Inclusion

Creativity

Innovation

Transparency

Leadership

Connection



# Maribyrnong City Council | A Smart City for Smart Communities

# **Smart City Environment**

Smart cities build on the established environment of a city and leverage its key strengths, opportunities, and priorities. This environment includes demographic factors, all existing smart city projects, partnerships, policies and plans, and the broader state and federal government priorities.

#### The City of Maribyrnong

Our demographic, social, economic, and environmental context lends itself to a strong foundation for smart city activity. Additionally, our growing and diverse population and high commuter base will benefit from smart city opportunities.



City of Maribyrnong

City of Maribyrnong

Education\*

City of Maribyrnong

City of Maribyrnong

<sup>~</sup> National Institute of Economic and Industry Research 2020 + Unemployment Rate March 2021 by .id (informed decision) # Australian Business Register July 2021 † City of Maribyrnong Council Plan 2021–25



LOCAL BUSINESSES (2021)#

LOCAL JOBS (2020)~

9,796

45,911

LOCAL INDUSTRIES (2020)~

17%

15% Retail Trade 10%

Healthcare & Social Assistance

Education & Training

**UNEMPLOYMENT RATE (2021)+** 

7.6%

7.1%

City of Maribyrnong

Greater Melbourne



> Location

> Innovation

> Arts & Culture

> Open Spaces & Environment

> Retail

> Public Transport

> Education



Residents' Commute (2016)\*

19%

**78**%

Live & work in the area

Live in the area but work outside



Internet Connectivity (2016)\*

**79**%

11%

Internet Connection

No Internet Connection



# **Strategic Context**

With strong local strategic documents, successful neighbouring council smart city strategies, and supportive legislation leadership, Maribyrnong is well positioned to leverage its policy context for smart city success.

This diagram provides a snapshot of Council's key strategic plans and policies mapped across the smart city directions outlined in this Framework. Smart city aspirations do not work in isolation. In reality, smart city activity can reach and be incorporated right across Council's functions, services and plans.

In addition to these plans and strategies, this Framework also takes into account:

#### Tourism Strategy

This Strategy sets a framework for decision-making and investment in tourism and visitor experience from 2017-2021.

Community Infrastructure Plan
 Under development but will align to smart city infrastructure needs.

#### Smart Cities in context

Smart cities are a strategic priority for Council, and included in the Council Plan 2021-25.

STR	ATEGY	ACTION	
4.2	Advocate and deliver projects that support a growing community now and into the future.	Develop and implement a Smart Cities Framework to make the best use of technologies for our community.	

The Council Plan This document maps outlines Council's out the City's strategic priorities, aspirations, vision, guiding other key and objectives over four strategies, plans and years. It provides both the projects with overarching organisational direction community aspirations. and implementation plan for this period. This document was Council has prioritised developed with extensive community consultation being future focused and acts to represent the a smart innovative city that community's vision for the encourages and supports next 20 years. new generations to thrive. Council Plan Maribyrnong 2040: Community Plan 2021-25 A Place of A Resilient & Vibrancy & Activity Sustainable Future Exploring smart Leveraging smart technologies, we will technologies and innovative planning the expand on our

City of Maribyrnong will focus on creating active,

inclusive and connected

spaces that understand

the needs of our

community.

understanding of the local

environment, planning

for climate resilience

and mitigation, and

sustainable resource

management.



Incorporated into the Council Plan, this Plan outlines Council's role and commitment to fostering community wellbeing.

Council's health and wellbeing actions focus on improving the physical, social, natural, cultural, and economic environments that promote health and wellbeing in Maribyrnong.

Municipal Public Health & Wellbeing Plan 2021-25

This plan outlines detailed programs, projects and actions that have been set out to meet the goal and visions set out in the Climate Emergency Strategy.

The Action Plan is guided by three key objectives: ceasing emissions of greenhouse gasses, drawing down existing emissions, empowering, and mobilising community action and building community resilience. The Climate Emergency Strategy will be reviewed

This Strategy provides direction for future planning, provision, design, and management of open space in the City of Maribyrnong from 2013 to 2031.

The strategy is amended every five years to assess what has been completed, what is currently in progress and what remains to be completed.

Council's Privacy Policy outlines responsible management, collection, storage, access, disclosure, and destruction of private information collected by Council.

This policy has been informed by the Privacy and Data Protection Act 2014 and the Health Records Act 2001.

**Climate Emergency Action Plan** 

**Open Space** Strategy

Maribyrnong City Council **Privacy Policy 2018** 

#### An Economy for the Digital Age

Growing our digital capability and economy we will help create jobs, attract businesses and drive investment.

#### An Empowered & **Connected Community**

Focussing on smart mobility, digital infrastructure, and digital skill building we will connect our community in the physical and online world.

#### A Celebration of Culture & Creativity

Enhancing our vibrant, creative and diverse identity, we will leverage digital technology to showcase our cultural heritage, celebrate our creativity and encourage innovation.

#### A Future-Ready Council

Council will support our smart city aspirations from the inside out, developing the skills, processes, systems and information to drive transparency, accountability, informed decision-making and benefit to our community.

# **Smart City Showcase**

This Framework provides a coordinated approach, and clear vision for smart city activity. It will enable Council to build on the strong foundations set by current and existing smart city projects.

Highlights of successful and new projects are detailed in this diagram.







#### Building our foundation: Smart Cities for Social Cohesion

The Smart City for Social Cohesion (SC²) Project has created a strong foundation for future smart city initiatives in Maribyrnong. Partly funded through the Australian Government's Smart Cities and Suburbs Program, the SC² project has provided Council with the foundational smart city infrastructure to build upon, and the experience and reputation to support investment and talent attraction.

In partnership with Victoria University, the SC<sup>2</sup> was designed to test the potential of smart technology in helping Council respond to the influx of new residents, visitors, students, and businesses in Footscray.

Within the confined geographic area, the project aimed to build social cohesion by improving city activation, amenity, and safety through the implementation of interactive kiosks, free public Wi-Fi, smart lighting, and environmental sensors.

Additionally, the technology allows Council to monitor how people move through the area with pedestrian, people, and cyclist counters. This information has been particularly useful in understanding the impact of COVID-19 on businesses in the area and will continue to inform Council planning and decision-making in the area.



COUNTER







#### INTERACTIVE KIOSKS

Interactive kiosks at key locations promote the City's history, tourist destinations, public transport options and other information.



#### **SMART LIGHTING**

Energy efficient smart lighting provides reduced public lighting maintenance needs and costs, contributing to Council's commitment to an improved Climate Emergency response.



### INTEGRATED SMART CITY DATA PLATFORM

In collaboration with Victoria University an integrated Smart City Data Platform was developed. This Platform makes information gathered from the sensor network readily available for the community, including real-time parking availability, pedestrian, cyclist and vehicle movement counters, air quality readings, and free public Wi-Fi network information.



#### **EXPANDED FREE PUBLIC WIFI**

SMART ENVIRONMENTAL

Sensors measure the air quality

in and around Footscray to help

Council advocate for improved

health outcomes for the City.

**MONITORING SENSORS** 

Free public WiFi in Footscray's business district and Footscray Park, enabling better access to educational, tourism and business information at no cost.



#### **FOOTSCRAY PARK APP**

An app featuring environmental education functions listing flora and fauna found in the Park and the Edwardian gardens, giving users the opportunity to learn more about the Park's history and habitats.



### PEDESTRIAN, CYCLIST, AND VEHICLE COUNTERS

Counting technology, and the non-identifiable data it produces, improves mobility and transport connections across Footscray's business district and other areas.



#### **LoRAWAN NETWORK**

A gateway to connecting Internet of Things (IoT) devices and the sharing of data.

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SMART CITY OPPORTUNITIES

# **Key Transformative Projects & Opportunities**

The City of Maribyrnong, and in particular the Footscray CBD area is set to have a number of significant infrastructure projects delivered over the next decade.

These projects are an opportunity to integrate smart city technologies, introduce new innovations that align with the Smart City Vision, and leverage existing partnerships as part of our Smart City Program.

These projects highlight how technology is improving the liveability, functionality, and resilience of our city. This Framework will guide us as we continue to build, innovate, and improve our City into the future.



Footscray Town Hall and Civic Centre Redevelopment Project

The planned redevelopment of the Footscray Town Hall – Civic Centre will see the addition of a number of new community spaces, including a 200 seat multi-use space and an environmentally friendly public park/plaza.

It will have minimum five-star green start standards, EV charging, LED lighting, solar and rainwater harvesting. Work on this project is due to commence in 2022 with construction expected to take 18 months.



- Embedding technologies into the broader precinct and establishing a site for testing and trailing innovative technologies in the public realm.
- Experimenting with innovative working practices, to support increased collaboration and productivity.



**NeXT Project** 

NeXT is an ambitious \$129 million project being led by Council to create a Library, Community and Cultural Arts Space that will provide our growing and diverse community with:

- a library of the future
- flexible community meeting rooms and spaces
- a large, purpose-built, flexible performing arts space
- exhibition and gallery spaces
- office and commercial/not-forprofit opportunities
- open green space.



Footscray University Town

Footscray University Town (FUT) is a joint initiative between Maribyrnong City Council and Victoria University. This partnership aims to open new opportunities for employment, enterprise and investment throughout the West by harnessing of the knowledge, networks and resources of the University, Council and the community.

- Incorporating a Smart City Innovation Lab in the NeXT facility.
- Creating opportunities for all community members to upskill their digital literacy.
- Providing spaces that support the start-up and entrepreneur ecosystem.
- Establishing synergies for the NeXT project & Footscray Learning Precinct & Footscray University Town.
- Using NeXT as a physical manifestation of the Smart City Vision.

- Exploring the development of a 'Smart City Testbed' for VU students to gain practical skills and knowledge about the application of Smart City principles.
- Sharing smart city data to support the development of new courses and study projects at VU.
- Investigating the expansion of existing 'Smart City' MOU.

#### Electric Vehicles Charging Infrastructure Policy 2020

Council has also endorsed an Electric Vehicle Infrastructure Policy. The Policy addresses the opportunities for EV charging infrastructure, encouraging, enabling, and guiding the installation of EV infrastructure across our City.

Council has begun preparing for EVs to form part of the Council's fleet vehicles by installing additional EV chargers at the operations centre.

Council recognises the benefit of encouraging the uptake of EVs within the community to enhance health and environmental outcomes across Maribyrnong. We have begun exploring opportunities to expand our EV charging capability to the community to support this.

#### Parking sensors

Since 2017, Council have been using IoT devices to successfully gather data on parking trends across the municipality. This data has helped to manage parking conditions, develop plans to create efficient turnover of spaces and help increase parking availability for residents, businesses, shoppers and visitors.



#### Footscray Learning Precinct

Development of the Footscray Learning precinct began in 2015, with a focus on championing excellence in learning and teaching and opportunities for every student at every stage of education. This precinct will provide seamless transition from early learning to adult education, and incorporates the Footscray High School, Footscray City Primary School and the Footscray Primary School and the Footscray Integrated Early Learning Centre.



#### Footscray Hospital

The \$1.5 billion Footscray
Hospital development project is
the largest health infrastructure
investment ever in Victoria.
Construction is expected to be
completed by 2025, and the
new facility will help meet the
changing and growing health
needs of Melbourne's West.



The West Gate Tunnel Project will deliver a vital alternative to the West Gate Bridge, providing a much needed second river crossing, quicker and safer journeys and remove thousands of trucks from residential streets, particularly around the Footscray and Yarraville areas.



- Sharing smart city data for the delivery of projects such as 'Hackathons'.
- There may be the opportunity to integrate technologies into the Hospital precinct to help understand pedestrian/ cyclist / vehicle flows and improve amenity and vibrancy.
- The removal of heavy vehicles from local roads will provide an opportunity to reimagine how our suburbs are used, and the use of data and technology will help maximise the benefits.

# **Collaboration Smart Communities Ecosystem**

Our City boasts an array of talented and influential businesses, educators, and community members across a diverse range of fields.

Smart cities are about tapping into our unique expertise to lead and affect better community outcomes.

While Council plays a strong role in smart cities, we encourage our community, partners (existing and future) and other members of our ecosystem to be involved and drive change in their sphere of influence – creating an environment for shared leadership and action.

#### Learning from the best

The City of Maribyrnong will continue to leverage and expand on our connections and partnerships with smart cities and communities from across Australia and around the world to learn from the best and inspire our smart city thinking.

Within Maribyrnong we have already been working closely with several key partners including:



#### Victoria University

Council has been working in partnership with Victoria University on the SC<sup>2</sup> project. A key component of this project is the data dashboard which encourages students and educators to leverage the data available to develop innovative solutions.



#### Nippon Telegraph & Telephone

Council has signed an Innovation Charter with NTT. As a leading telecommunications company, with its own research and development team and initiatives across smart cities, 5G, and technological development, NTT is a key knowledge partner for Council.



#### **Bike West**

Council worked with Bike West to better understand the mountain bike park in Quarry Park. Bike West is a cycling advocacy in Melbourne's west. Moving forward, Council will continue to work with Bike West and other community groups to drive benefits in our community.



and technologies

#### The roles we play

The potential for smart city benefit reaches further than Council. Our aim is to support the Maribyrnong ecosystem to make the most of these benefits and drive the outcomes they believe in.

How can you help? Just a few of the ways you can be involved in smart cities are outlined in the diagram below.

- Engage, participate, and explore events and initiatives
- Share ideas and insights about the smart future of Maribyrnong
- Strive to build smart city skills and understanding – encourage and empower others to do the same
- Communicate strategic direction with transparency
- Support Innovation and creativity in all parts of our City
- Build and expand internal knowledge and systems to support smart initiatives
- Use data to drive decisionmaking
- Sharing of data openly with the community and stakeholders

#### Council **Education** • Employ global smart city best practices in development • Implement resource Maribyrnong efficiency and Ecosystem Share knowledge and sustainable design in ideas to empower smart all developments solutions across our City Retrofit smart Utilise smart technology solutions into existing and innovation internally infrastructure and encourage students to engage and participate with Smart initiatives Create partnerships with council to be involved in smart innovation **Business** • Enhance skills and capacity to utilise smart solutions to Use technological solutions innovate businesses to solve local transport • Investigate benefits of infrastructure challenges smart technology for Leverage data to enhance businesses and customers • Use smart technology to services and guide planning enhance sustainability • Participate in building Investigate smart solutions to a digital economy for Advocate uptake of make mobility around our City Maribyrnong smart metres and more sustainable monitors Utilise data to inform business investment Support equal access to facilities, services, decisions

#### Other players in our smart city ecosystem include:

Government Health Professional Hospitality & Tech Companies Manufacturing Creatives

# **Engagement Insights**

This Smart City for Smart Communities Strategic Framework is founded in community insights. It aims to directly address community challenges and leverage only those opportunities that are most beneficial to our communities.

As such, ongoing collaboration with our community is essential for the successful implementation and enactment of the Framework.

#### **Engagement process**

To support the development of this Framework, Council conducted engagement activities with a range of stakeholders.

The engagement process enabled Council to identify key stakeholder insights and priorities and gauge community understanding of the benefits of smart cities.

#### Community insights

Although many in our community were unfamiliar with smart cities, after defining and discussion, our community believe Council should be:

a leader and explore cutting edge technology in our approach to smart cities

(46%)

#### In describing our vision for Maribyrnong as a smart city, our community focused on: Walk the Walk! Let's be a leader Create opportunities Build on our for local diverse arts and business cultural offerings Continue to engage with the Ensure smart cities is accessible and inclusive for all members of our



as potential barriers to our smart city success

19



# **Building our Smart City** maturity

The City of Maribyrnong is at the beginning of its smart city journey.

In these early stages Council is focused on laying the foundations for progress:

- Building a team with the skills to deliver smart projects;
- Developing and continually improving the processes required to make smart city thinking business as usual;
- · Leveraging partnerships with business, community groups and other government agencies.



Council is working hard to build up the complexity and coverage of smart city capability across the City and our organisation.

#### How will we get there?

Within the organisation, we plan to:

- · Increase training to boost the skills of our organisation
- Improve smart city processes and pathways
- Boost cross-council collaboration and understanding of smart city integrations
- Continue engagement and collaboration with our community

In the community we are aiming to:

- Build community trust exploring opportunities, developing relationships, ongoing dialogue with community
- Expand our digital and smart city skills and understanding - improving digital literacy in our community
- Build an innovation culture integrating smart technology and data as fundamental tools in modern life
- Drive collaboration among neighbours building a dynamic innovation ecosystem.





INCREASING COVERAGE

BEGINNING

Limited skills,

systems and

innovation

culture, with

understanding

confined to a

small cohort

within Councill

and the City.

#### **DEVELOPING** Significant

smart city procedures within the City Futures Team. Growing involvement and leadership from other divisions and the community.

#### Innovation

and activity is driven by the community. Cutting edge data analysis, data visualisation and technology projects are considered as a matter of course by Council and often fully delivered in the City.

**LEADING** 

**EMBEDDING** Smart city thinking is **BAU** across Council. Community members are now partners and leaders in the smart city ecosystem.

**INCREASING COMPLEXITY** 



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# **Smart City Principles**

# Smart principles align ongoing smart city activity with community priorities and values.

These principles are taken into account when considering any Smart City initiative or project. They help ensure that investment in future improvements and smart city initiatives always focusses on the overall objectives of our community.



#### Community-First

We will focus first and foremost on achieving community benefit, then on realising technology-based solutions. Smart initiatives will be convenient, simple, and inclusive. We will empower our community by encouraging participation and growing digital capacity.



#### **Innovative**

Curiosity, optimism, and innovation will drive transformation. Dynamic and creative thinking will support new ideas that are more efficient and effective. The City of Maribyrnong will develop skills and processes to apply innovation and smart thinking to all facets of our City.



#### **Transparent & Accountable**

Council will remain transparent, accountable and focused on protecting the privacy of our community by only capturing non-identifiable data. Key decisions will be developed in collaboration and based on data. Open data and clear performance metrics and targets will ensure Council's progress is assessable by the community.



#### Sustainable

We will use smart technology to improve environmental protection and resource management. The City of Maribyrnong will be future ready, implementing sustainable planning that accounts for city growth and invests in long-term solutions.



#### Collaborative

Smart city design and delivery will be grounded in community consultation and collaborative development. Shared action will drive buy-in and community ownership of smart initiatives. Partnerships with other smart organisations will increase reach and lead to further success.



#### **Outcome Focused Planning**

Our smart city approach will consider community-led outcomes, rather than technology for its own sake. We will deliver project, programs and policies that meet the needs and objectives of our community.



#### Inclusive

The City of Maribyrnong is a place for people of all cultures, backgrounds, and abilities. No one will be left behind by smart cities as inclusivity, accessibility and equity is built into smart initiatives and projects.

# **Strategic Themes**

Strategic themes guide the planning and delivery of smart city projects and initiatives. They help connect this Framework to other plans and strategies across Council.

They are informed by in-depth research, community engagement, and international best practice.

These strategic themes are designed to ensure a balanced approach is taken to smart city activity by considering place, environmental, social, cultural and organisational outcomes.



#### A Place of Vibrancy & Activity

The City of Maribyrnong will create spaces which are vibrant hubs for our community. Spaces will be green, safe, and clean, with smart technology driving pedestrianisation and encouraging cycling. Smart planning will drive ongoing city growth that develops these community centric spaces and uses them to encourage an active, inclusive, connected community.

Priority action areas could include:

- > Facilitating investment in Electric Vehicle infrastructure to support environmental objectives
- Leveraging real-time data and partnerships to better manage and maintain key transport routes including congestion, noise, and freight and active travel routes
- Expanding movement monitoring to key community hubs to understand how people move around our City and promote active and micro-mobility
- Integrating data analytics into planning processes for proactive and informed city planning
- Partnering with Digital Twin Victoria to deliver 3D planning models to support stakeholder engagement and innovative planning
- Working with local development and construction industries to integrate smart city, innovation and smart building management considerations into building guidelines
- Developing a smart asset management system to monitor and manage Council assets including maintenance, usage trends and remote access
- Exploring street-pole access and expanding smart lighting rollout to high-priority areas





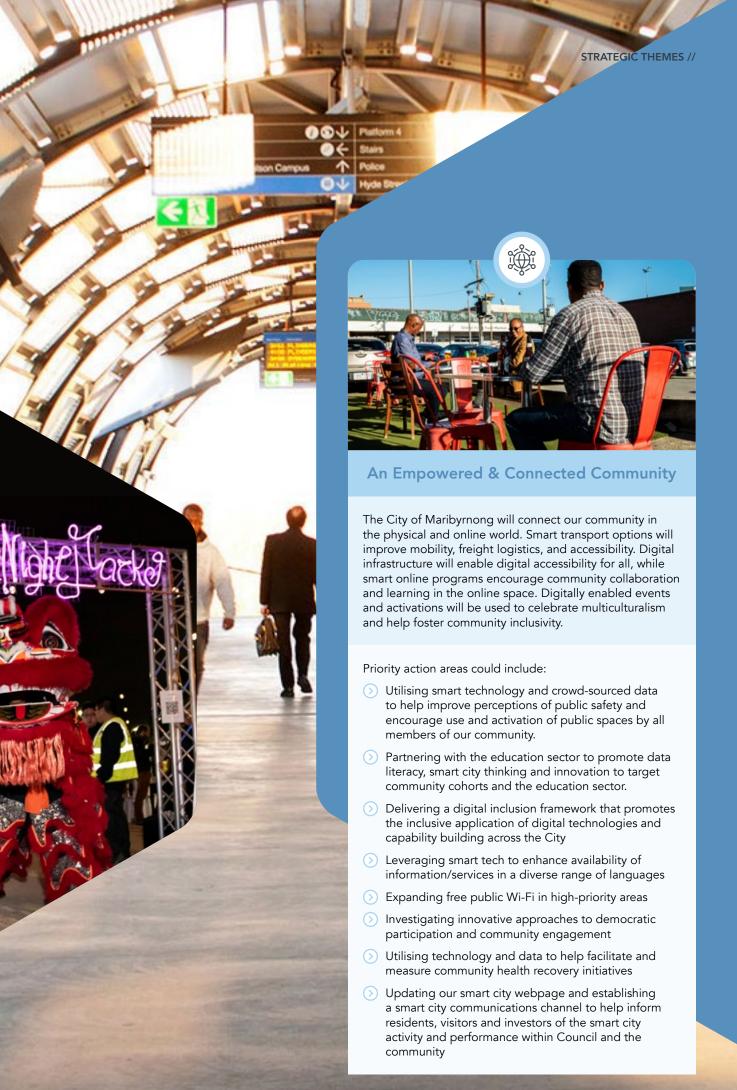
#### A Resilient & Sustainable Future

The City of Maribyrnong will reduce our carbon footprint, waste, and environmental impact. We will explore smart and innovative ways to support climate resilience and mitigation and our Zero Carbon Maribyrnong commitment. Smart sensors will drive sustainable management of our limited resources and enable efficient and timely environmental monitoring. Strategic resource allocation and infrastructure management will be improved by efficient smart waste, lighting, and water technologies.

Priority action areas could include:

- Investigating the expansion of our smart bin network to high-priority public spaces
- Using a smart irrigation system to optimise the watering and maintenance of green spaces
- > Exploring the benefit of smart energy meters on Council assets
- Integrating smart city benefits and technologies in to Council's sustainable building guidelines
- Investigating digital tools to help residents live a circular lifestyle, including promoting the appropriate disposal of waste and the sharing economy
- Conducting a review of the green space and urban heat footprint across the City to promote green space protection and mitigate the heat effects of climate change
- Leveraging and expanding environmental data collection to analyse and adapt to the changing environment and support our climate commitments









#### A Celebration of Culture & Creativity

Council will enhance Maribyrnong's unique identity as a creative and innovative City. Art and cultural offerings will be showcased across our City, highlighting our diverse and vibrant community. Council will leverage digital technology to celebrate and capture the rich history and future of Maribyrnong. Council will seek to embed innovation as a key element of Maribyrnong's identity.

Priority action areas could include:

- Promoting digital, innovative or data-driven art both physically and digitally across our City
- > Exploring opportunities to digitise cultural assets
- Showcasing our diverse cultural heritage and the art, culture and stories of the Traditional Owners through interactive mediums such as Virtual Reality or Augmented Reality
- Exploring smart technologies to support the management of Council events and festivals
- Leveraging smart city networks to host a series of smart city events/ conferences that encourage collaboration and knowledge sharing, and build the City's smart city reputation
- Partnering with Victoria University and VU Innovations to facilitate a city-wide innovation network
- Exploring opportunities to host a smart city challenge or hackathon to collaboratively develop smart city solutions





#### A Future-Ready Council

Council will drive internal change by implementing smart technology, processes and decision making, including smart data management. Council will remain transparent and accountable to our community through open data and explicit smart city goal setting and performance measurement. Once Council establishes itself as a smart organisation, it will reach out to the community and partners to deliver community benefit and grow our digital economy.

Priority action areas could include:

- Identifying a pathway to proactively modernise key services and regulation
- Delivering a data management framework to support the coordinated uptake and collection of data across Council
- Developing an open data platform to support improved information and service delivery
- Investing in digital literacy and data training for Council staff to ensure they have the skills and confidence to support smart city outcomes
- Establishing communities of practice within Council and promoting cross-Council collaboration on projects, policies, and programs
- > Establishing a clear smart city governance, resourcing and project delivery pathway within Council
- > Embedding smart thinking into Council operations to identify and realise efficiencies in processes and resourcing among other areas
- Developing a digital innovation advocacy framework to leverage the lessons discovered and partnerships established during the delivery of the Smart Cities for Social Cohesion Project
- Delivering a privacy and security roadmap to ensure policies and systems are regularly updated and refined in line with new technologies and community expectations
- Improving Council's capacity to plan for and respond to emergency situations including the ongoing response to the COVID-19 pandemic





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# **Implementation**

Council has developed an accompanying *Implementation Plan* to support the strategic and coordinated implementation of this Framework.

Our Implementation Plan will be updated on a 12 month cycle, and will be aligned to Council's annual budget and planning cycle.

The strategic themes and principles of this Framework will be considered when developing the annual Implementation Plan and it will balance the following priorities:

- Leveraging existing projects and infrastructure
- Delivering new high-priority projects
- · Continuing to engage with the community
- Developing smart policies and guidelines
- Building the smart capacity of Council

#### **CURRENT** 2021–2022

Building on our strong foundation and scaling up our commitment

- Engaging directly with the community on smart city issues and risks
- Identifying current gaps and opportunities for improvement
- Assessing and prioritising Council and community skills development
- Progressing key projects and initiatives
- Supporting new partnerships and co-design

#### **FUTURE** 2022–2025

Leveraging new opportunities to deliver enhanced value to our community

- Leveraging new partnerships to deliver enhanced public value
- Scaling-up successful smart projects and trials
- Unpacking and enacting key lessons from project monitoring and evaluation
- Integrate smart tech considerations into all planning and development action
- Lobbying and advocating for smart legislation reforms

#### **EXTENDED** 2025–2030

Making 'smart' business as usual for Council and the community

- Refresh A Smart
   City for Smart
   Communities
   Strategic Framework
   and vision/objectives
- Modernise regulations to accelerate smart technology implementation
- Develop smart city innovation capacity through targeted programs, training, and events
- Developing and leveraging a distinct 'Smart' brand for Maribyrnong

#### 2030+

Setting new benchmarks with prioritised, agile, and targeted smart city initiatives

- Leverage smart city expertise and ecosystem to attract new investment and business to Maribyrnong
- Trial and test new technologies and innovative Council services
- Create a best practice framework for using smart city solutions to directly address local challenges

#### **Smart City Collaboration**

Within Council there is a clear pathway for considering, designing, and implementing smart city initiatives. Working with our community the following collaboration pathways exist. The diagram below outlines the touchpoints our community have to express their smart city and innovation ideas, requests and projects. The diagram also depicts the process within Council for considering smart city initiatives.



# Managing Privacy & Technology Risks

The City of Maribyrnong is committed to managing and mitigating the current and emerging risks of technology integration and innovation.

We acknowledge the importance of security and privacy as we increase the connectivity and digital presence of our community.

The uptake of digital technology can provide new and innovative ways of keeping our community safe and improving security, however, it can also be viewed as intrusive or unsafe.

This Framework ensures smart initiatives follow global best practices for privacy and security and enables Council to proactively safeguard the privacy and safety of our citizens.



## Key principles to ensure privacy and security in Maribyrnong



#### **Smart Governance**

Council will proactively incorporate privacy and security best practices within our organisation and across our City. These include a set of agreed protocols to ensure effective and robust management and a clear understanding of appropriate privacy settings when collecting data.



#### Innovation

New technology can assist Council to provide improved services and security to our community. Making the most of technology to improve the liveability of our City is fundamental in providing a modern and resilient solution to privacy and security.



## **Community Involvement**

Council is committed to working with our community to drive the best and safest outcomes from smart initiatives. This means the community can have insight and guide smart initiatives in a way that ensures their privacy and security.



# **Measuring Our Progress**

To ensure Maribyrnong remains on track to achieve our smart city goals and objectives, Council will regularly and methodically measure our smart city progress.

#### Key objectives and potential outcome indicators

The table below outlines the key objectives and potential outcome measures, categorised by strategic theme.

#### **OBJECTIVES**

#### Increase the implementation, usage, and data

#### collection from smart technologies Expand the coverage of free public Wi-Fi in high-

priority areas Enhance the liveability, amenity, and activation of public spaces

#### **OUTCOME MEASURES**

- Number of smart sensors installed across region
- Geographical coverage of free public Wi-Fi
- Community feedback on open space amenity



A Resilient & Sustainable **Future** 

A Place of

Vibrancy &

Activity

- Enhance the monitoring and management of our environment
- Increase the amount of environmental data collected across the region
- Improve the sustainability and resource-use efficiency of local parks and green spaces
- Breadth of environmental data collected across region
- Resources used to maintain public and green spaces



An Economy for the Digital

- Enhance the digital capacity and maturity of our local businesses
- Increasing partnerships with local providers to deliver smart projects
- Expand the region's digital economy
- Digital capacity of local businesses (self-reported)
- Number of smart partnerships with local providers
- Amount of online/digital economic activity



An Empowered & Connected Community

- Enhance the physical and online accessibility of Maribyrnong (and Council services)
- Increase collaboration and engagement with community through smart/agile means
- Increasing community safety and digital security/ privacy
- User-experience with online Council services (self-reported)
- Number of community members engaged through smart programs and events



**A Celebration** of Culture & Creativity

- Improve the performance of arts and cultural sector by leveraging digital technology
- Expand the arts and cultural sector by integrating digitally enabled projects
- Enhance smart city projects by including arts and cultural expression in development and implementation
- Growth of the arts and cultural sector in Maribyrnong
- Number of City projects develop with arts and cultural elements



A Future Ready Council

- Increase the innovation capacity of Council staff and processes
- Expand the delivery of smart Council services
- · Increase data-driven decision making through enhanced data management skills of Council
- Smart city skills and capacity of Council staff (self-reported)
- Number of Council services offered online or through agile means
- Amount of data to inform Council decision-making

More specific outcome measures and indicators are identified in the Implementation Plan. Any smart city related project will have its own set of objectives and measures which will be reported back as part of the Implementation Plan reporting process.



# **The Next Steps**

The City of Maribyrnong will lead by example as we gear-up for our smart city journey. We will catalyse innovation, facilitate smart technology deployment, and actively support research, collaboration and investment in smart initiatives and projects.

To lead the way, Council must ensure it is continually learning, improving, and increasing capacity as an organisation. We will continue to develop our smart city skills, capacity, and maturity to ensure all projects are delivered successfully.

This table outlines the next steps for Council as we strengthen our commitment and action towards smart city development.

	NEXT STEP	OUTLINE	
	Project Implementation	This Smart City for Smart Communities Strategic Framework will be supported by a dedicated Implementation Plan. The Plan will guide the specific action and investment in smart city projects, programs, and initiatives over the next few years. It will also ensure smart city action remains closely aligned with community needs and objectives.	
	Smart City Maturity	As Council gears-up for future smart city action, we will continue to investigate ways to improve our smart city knowledge and capacity. We will measure our progress as an organisation and conduct regular reviews to ensure we maintain momentum.	
	Partnerships & Collaboration	Council is not the only stakeholder in the smart city ecosystem. We will have to work closely with multiple partners to deliver projects for our community. As such, we will continue to facilitate agile and innovative partnerships in the future.	
	Community Engagement	The community will remain at the centre of everything we do at Council. We will prioritise engagement and transparency with our citizens, and in turn, ensure all policies and projects are agile and aligned with community expectations.	
	Funding & Sustainability	Council will ensure all smart city projects have a clear and robust business case. This will enable the rapid deployment of high-priority and high-impact projects that will contribute to sustainable smart city development in Maribyrnong.	

# **Glossary**

Entrepreneur

Innovation

Innovation

Ecosystem

Internet of

Things

profit.

A person who creates, innovates, invests,

Doing something different with the aim of

The network of people, institutions, programs,

regulations, culture, and resources that work

The millions of physical devices around us connected online, sharing data - from tiny weather gauges up to super computers - this

is the fabric of the digital world around us.

improving processes and outcomes.

to promote innovation.

and takes on risk aiming to make commercial

**Smart City:** A city that applies digital technology, data, and innovative practices to improve liveability, sustainability, collaboration, and economic opportunities

outlines					
Big Data	The use of technology (especially sensors and networks) to collect, manage, analyse, and utilise large volumes of data.	Liveability	The general perceptions of the quality of life living in a particular area. Consider accessibility, safety, inclusion, local services, and the environment.		
Artificial Intelligence	Al or machine learning is the programming of technology to analyse information and take 'human-like' action such as problem-solving or pattern identification.	Local Services	Public services provided by the local government (e.g., Parks, parking, planning, rubbish collection).		
Circular Economy Lifestyle	/A system of production and consumption designed to eliminate waste through recycling, re-use, and reduction.	Non- Indentifiable Data	Data that can not be used to identify an individual or breach best-practice privacy and security standards.		
Citizen-centric	Approaching Council service delivery from the perspective of the community to ensure their needs and expectations are met.	Open Data	Making data more accessible and useable to enhance transparency, innovation, and community outcomes.  Note: sensitive, confidential, and private data		
Co-Creation/ Co-Design	Working with clients, communities, and customers to design and create services/		will remain secure.		
	solutions that meet user expectations and needs.	Place Activation	Integrating new and innovative enterprises and projects to attract and retain people to underutilised public spaces.		
Connectivity	The breadth depth and quality of telecommunications and internet infrastructure,	Principles	Underlying values that inform decision		
	networks, and services.		making to ensure they align with community sentiment.		
Co-working	The mode of working where a mix of individuals, innovators and organisations work in the same physical location, sharing space, ideas, technology, and motivation.	Red Tape	Inefficient legislation, regulation or business processes that inhibit innovation and place undue cost on the economy.		
Digital Democracy	The use of digital technology to modernise democratic processes and institutions and facilitating participation in debate and decision-making.	Smart Infrastructure	The cross-over between physical and digital assets. For example, a building that has integrated sensors, connectivity networks and other smart technologies for enhanced outcomes.		
Digital Literacy	The skills and capabilities to use digital technology effectively and confidently.	Smart	Digital networks, sensors, devices and systems		

Technology

Strategic Framework

Strategic

Sustainability

**Themes** 

**Testbed** 

assets.

Source: Delos Delta

that support the delivery of smart services and

A strategic document that helps link existing

High-level focus areas that direct delivery of

Balancing social, environmental and economic

A space either within the community or

a controlled environment to test and trial

new technologies and solutions to defined

a collective goal or vision.

the Strategic Framework.

outcomes and benefits.

community problems.

strategies and plans together to work towards



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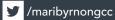
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