## DIGITAL TWIN

## **Smart Cities, Towns and Regions**

December 2021



Australia | New Zealand

## WHO WE

- Since 2012 the Smart Cities Council has been helping shape the smart cities movement.
- We have a mission to catalyse investment in technology and data solutions that build greater prosperity, enhance wellbeing and heal the planet.
- Born in Seattle, now with representatives across North America, India, Europe, Australia/New Zealand and South East Asia.
- We Inform, Education, Convene and Advocate.





## THE HUB



News Forum Events Challenge Resources



www.digitaltwinhub.org

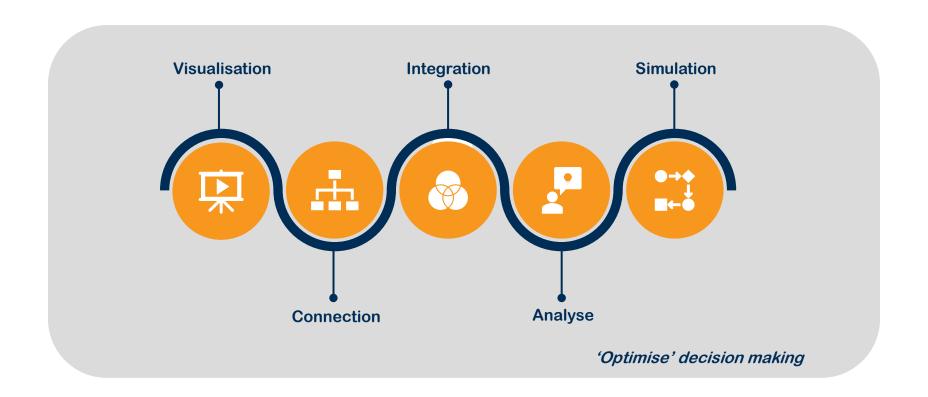


# THE DIGITAL TWIN

"The Digital Twin is a data-driven capability that accelerates outcome-focused decision making delivering better, quicker and cheaper infrastructure and services."









## WHO

### A data capability FOR ALL

- Every department, division and agency
- Every discipline
- Every geography
- Every scale





## **OUR GOAL**

To build a thriving Digital Twin market place in Australia and New Zealand.





## OUR DIGITAL TWIN WORK

- Digital Twin Guidance Note to clearly define it, articulate the 'why' and provide guidance on 'how to'
- 2. Establish a <u>Task Force</u> of our members to work through the market establishment activities
- 3. Build a broader <u>Digital Twin Collaborative</u> to knowledge share on key elements such as policy, standards and programs
- Build the Digital Twin community and a place for it to engage the <u>ANZ Digital Twin Hub</u> & <u>NZ Digital Twin Summit</u>, <u>Digital Twin Week</u>
- 5. <u>Digital Twin Strategy Blueprint</u> released in July
- 6. <u>Digital Twin Challenge</u> launched in July
- 7. Digital Twin Strategy ...





13 projects - each delivering a knowledge resource, freely accessible to all, to help kick-start Digital Twin action and investment

17 organisations - public, private and academia - doing the heavy lift to create the library of knowledge resources

18 month program - of activities and engagements, including knowledge exchange, networking, learning, promotion, resource development



### DIGITAL TWIN CHALLENGE





































THE COHORT

#### Cluster 1

- Digital Twin strategy
- GIS to Digital Twin roadmap
- IoT for Digital Twin strategy
- Project-level Digital Twin action plan

#### Cluster 3

- A model for Digital Twin data management
- Digital Twin as a data sharing and data exchange platform
- A Digital Twin asset optimisation framework

#### Cluster 5

Digital Twin education program

#### Cluster 2

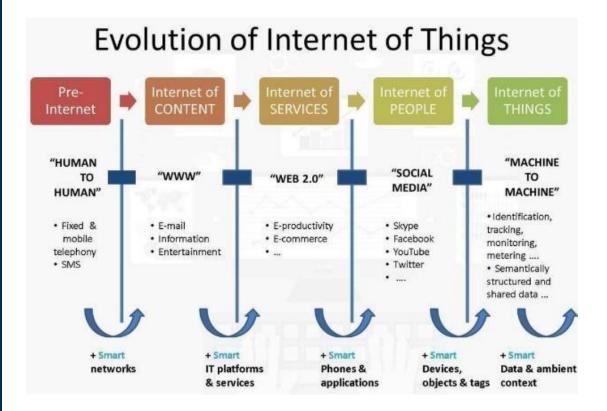
- Digital Twin pilot for city planning and design
- Digital Twin for sustainability strategy
- Landscape-based Digital Twin environments

#### Cluster 4

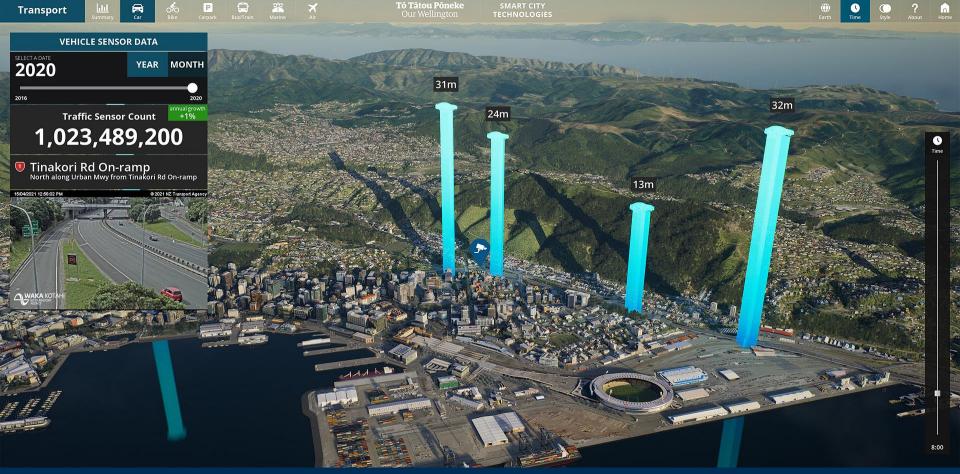
- Advanced analytics and artificial intelligence for Digital Twin
- Digital Twin data visualisation roadmap for community engagement



## TECH AND DATA









## THE URBAN DIGITAL TWIN

- Liverpool
- Darwin
- Melbourne
- Regions
- Canterbury
- Hawke's Bay





WESTERN SYDNEY



**NSW SPATIAL DIGITAL TWIN** 



**DARWIN** 



**MELBOURNE** 



REGIONAL NEW ZEALAND



SmartCitiesCouncil DIGITAL TWIN HUB

Australia | New Zealand

**HASTINGS** 



**CANTERBURY** 

### HOW

- Assess the application of a digital twin for your project
- Produce a strategic business case
- Provide a delivery strategy
- Produce a full business case
- Develop a detailed implementation and procurement plan

**But** before you dive in and create a strategy, educate yourself!





## **BACK IN 2022**



Second Tuesday of the Month | 3 topics | 30mins





www.futureofplace.org

www.smartcitieschronicles.com









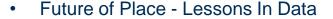
www.smartcitiesacademy.global

www.centrefordataleadership.com



## WHAT ELSE DO WE DO?

## WHAT ELSE IS ON IN 2022



- 1 Feb Linking data to value, can it be done?
- 5 Apr What's next for privacy?
- 7 June On AI, here's what I found out
- 6 Dec My biggest data lessons from 2022

#### Centre for Data Leadership - Designed By Data

- 1 March Infrastructure, shaped by data
- 3 May Property, shaped by data
- 5 July Place, shaped by data
- 6 Sept Mobility, shaped by data
- 8 Nov Precincts, shaped by data
- 25 Feb Future of Place Summit | Brisbane
- 7 July NZ Digital Twin Summit | Wellington
- 18-22 July Smart Cities Week ANZ | Various cities
- 9 Aug SEQ Data Leadership Summit | Brisbane
- 17-21 Oct Digital Twin Week 2022 | Melbourne





