Local. Smart. Digital. Connected.



I prefer, therefore, the phrase *smart, connected* cities, where we explore how to intelligently connect people with others, services, and infrastructure. A smart, connected city is human-centric – it's a city that enables its residents and visitors to do what they want, more easily. A smart, connected city should enhance liveability – which includes everything from quality of work and calibre of jobs, to arts and culture, to public facilities and transit, and transport options.

Cat Mason Chief Digital Officer, City of Brisbane

# As a geo-professional, I could have more impact if















CSIRO Boorowa Site - Proposed Infrastructure Plan. PROPOSED SITE **ENTRY / EGRESS EXISTING OHEAD** POWER LINES **CUNNINGAR ROAD** PROPOSED ENTRANCE ROAD, REFER TYPICAL **PRRIGATION SITE** CROSS SECTIONS SHEET 1 **CUNNINGAR ROAD CSIRO Ag Research Station** PROPOSED DAM AND PLANFING FACILITIES PROPOSED 130 EXPERMENT FARM OPERATIONS Detrial affeign sites MEGALITRE. CENTRE, COMPONENTS #1 - 19. REFER STORAGE DAM DETAIL PLAN 50517013-C182 FOR DETAILS SHEET 11 SHEET 10 PROPOSED GRAVEL COMPONENT #9 DIEMSING AND GENERAL #23, 24 & 25 T SMICHINE











# Integrated program of thinking and doing

Across the region of 3 towns and 17 villages, the **SMART**SCAPE program will connect people, organisations and activities through a multi-stream **living lab** model that includes:

#### learning SANRTSCAPE

Creating a regional knowledge centre, anchored by a new \$6.5m multi-purpose education and community precinct as a local base for a network of universities as well as a hub for digitally-enabling schools, TAFE, remote libraries and whole-of-life learning.

#### agribusiness SARTSCAPE

Create new economic and social value from the comparative advantage of the local agricultural sector by hosting the national pilot for an agtech open sensor network roll-out in 2017 and leveraging the re-located CSIRO Agricultural Research Station at Boorowa (BARS)

## civic innovation SARTSCAPE

Creating new forms of public-private shared value through managing techenabled joint projects



# arts & culture SANRTSCAPE

Vibrant multi-use spaces where learning is juxtaposed with creative, arts and culture initiatives for all ages and needs.

#### enterprise SAARTSCAPE

Creating the culture and conditions for enterprise through incubator, workspaces and support services for small business, start-ups and young people as well as access to inspiring mentors and new development opportunities in emerging industries

### digital + data SMARTSCAPE

Innovative responses to rural connectivity and data-led insights to support resilience, productivity and full participation by Hilltops in the networked economy.

#### government SAVERTSCAPE

Developing new networked services for improved administrative efficiency and citizen service effectiveness.







Beyond strategy.

Convening + mobilising an ecosystem of activity for enduring impact and value.

#### **O** Ideas

- Concepts and strategies
- Responses to challenges
- Opportunities
- New ways of thinking

#### Capacity

- People (partners, leaders, innovators, makers)
- Resources and funding
- Skills and experience)

#### **Projects**

- Tangible initiatives
- Applied innovation
- Experimentation

#### smart precincts

...physical spaces

- Buildings
- Campuses
- Linked areas, etc

#### smart zones

...virtual spaces

- Digital networks
- Knowledge hubs
- · Online, etc

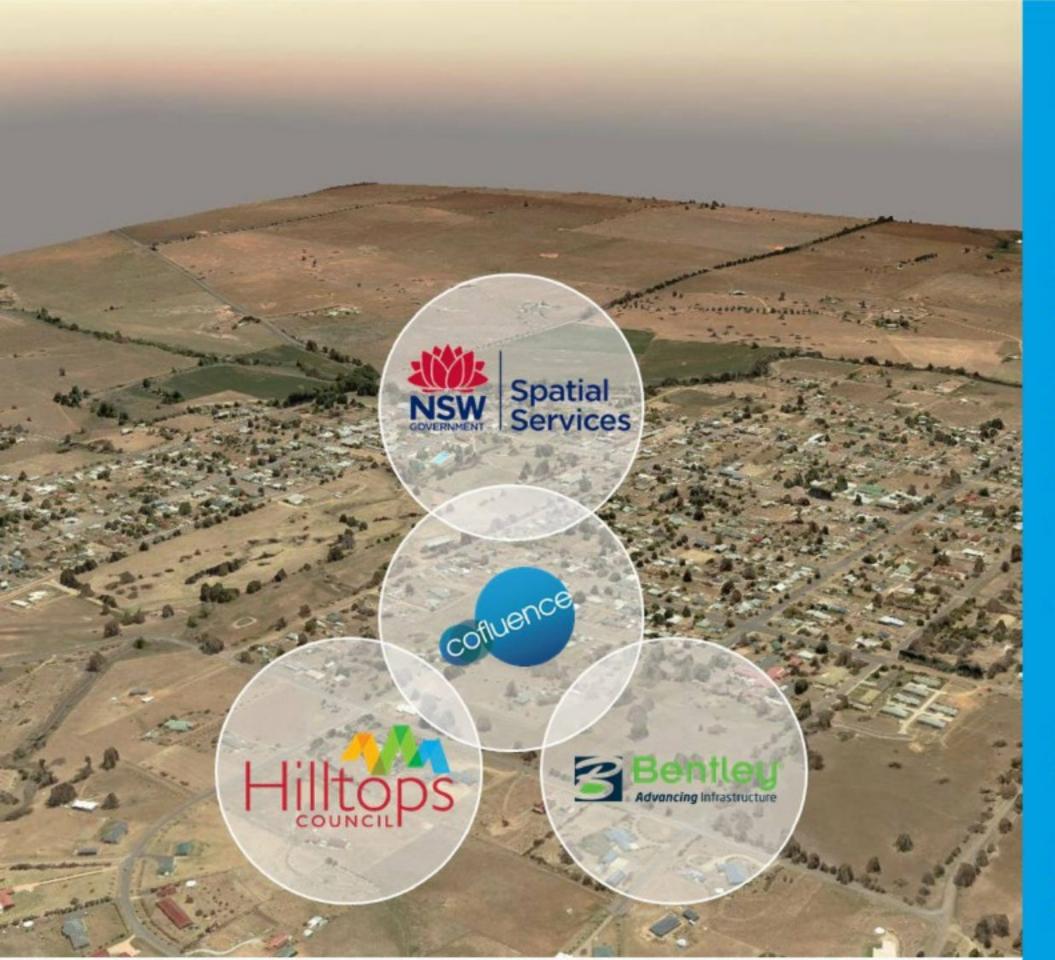
#### smart clusters

...social spaces

- Communities
- Interest groups
- · Alumni, etc







### Prototype project

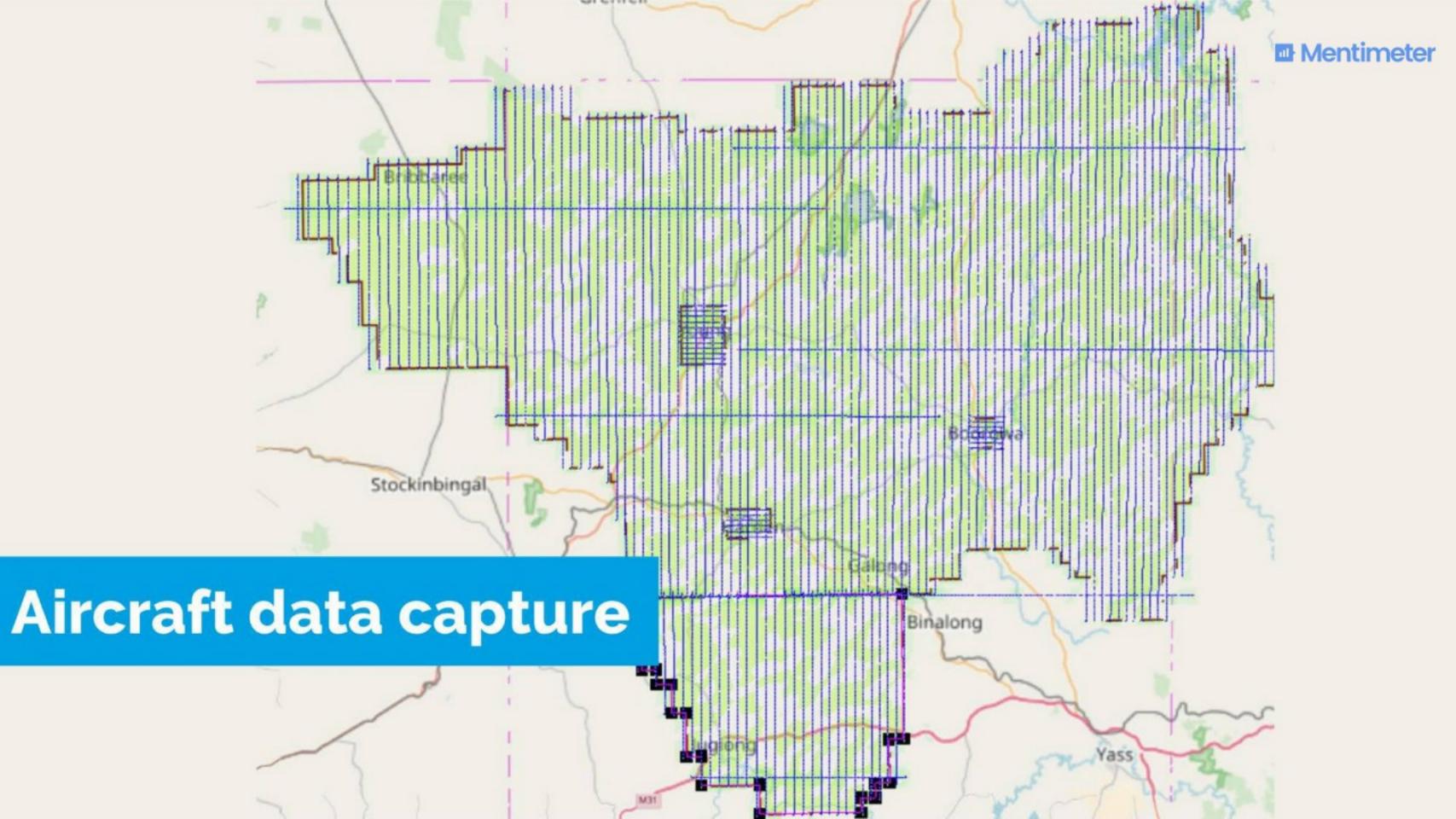
Build a prototype intelligent 3D platform using the Hilltops Council region as a pilot

# Undertake a 3D data capture of the Hilltops region:

- Region-wide imagery and lidar
- Proposed Education and Community Precinct site in Young
- Environmental catchment sites and local features

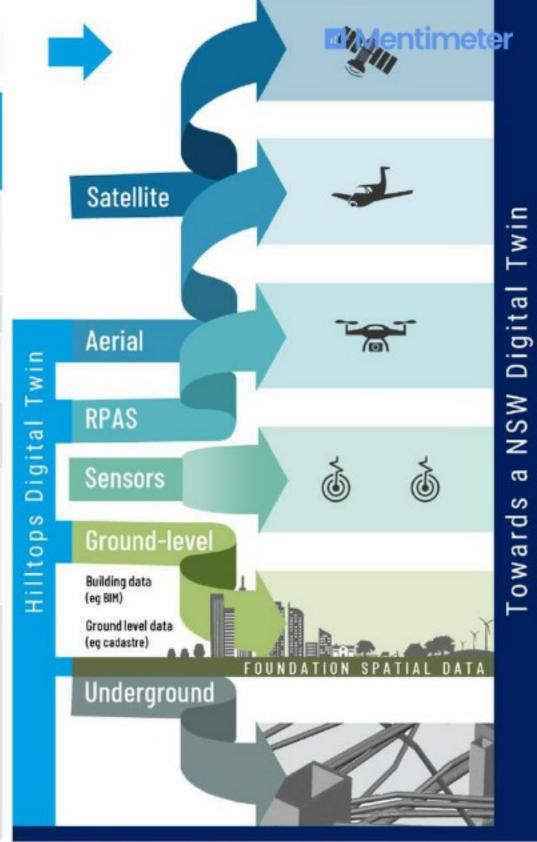
# Council staff engagement and training

Data capture trial using app-based capture

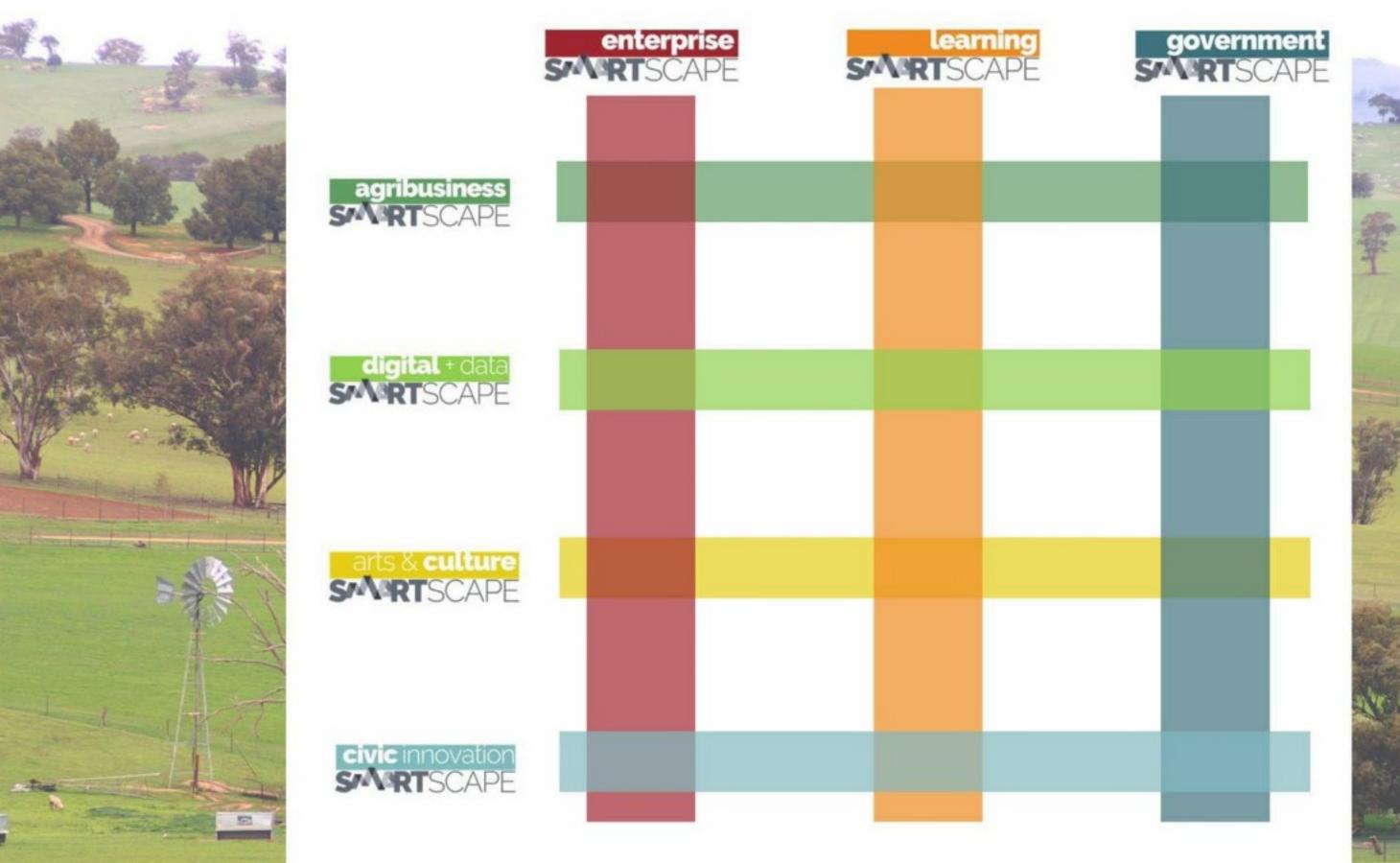




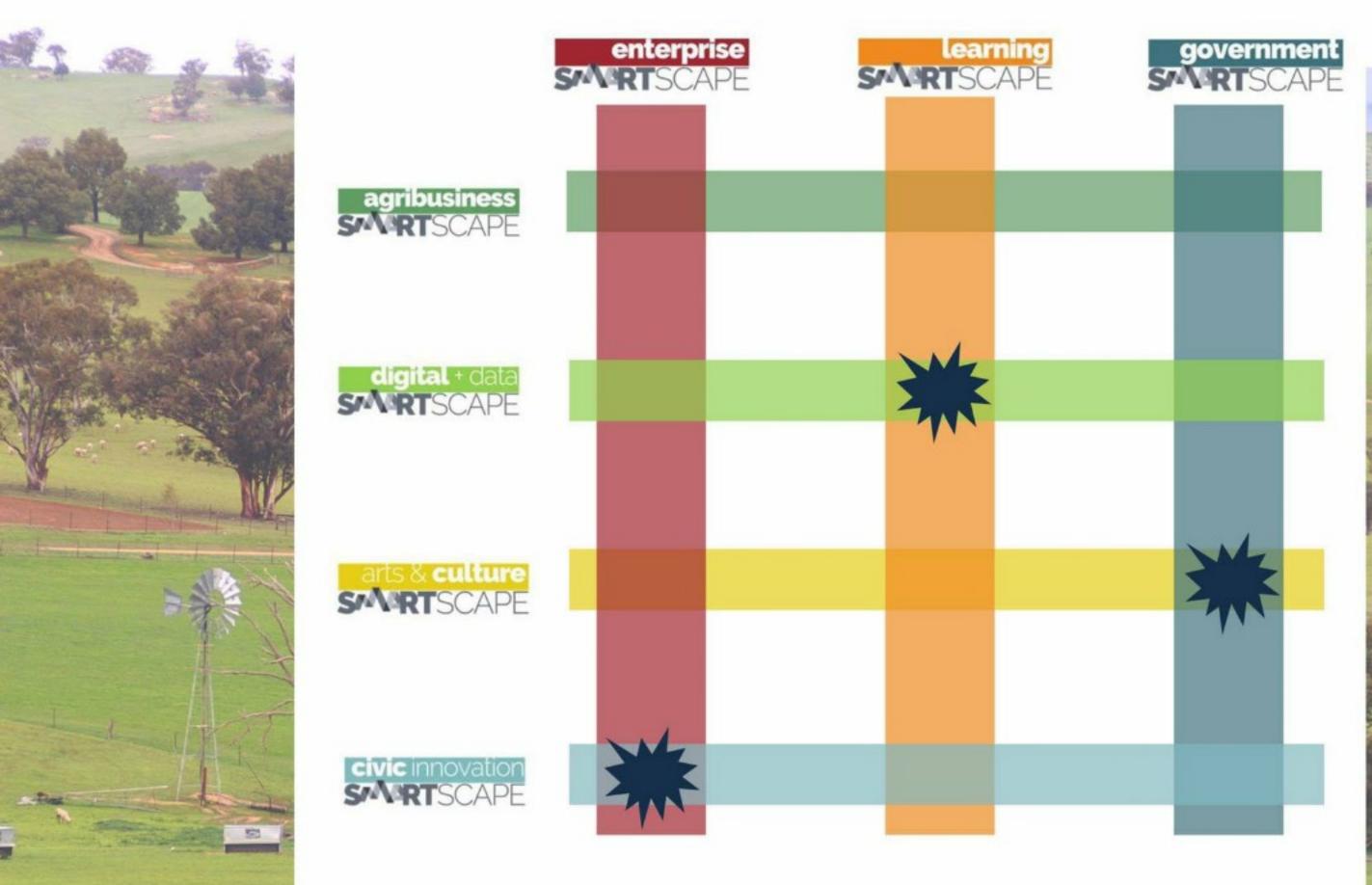
















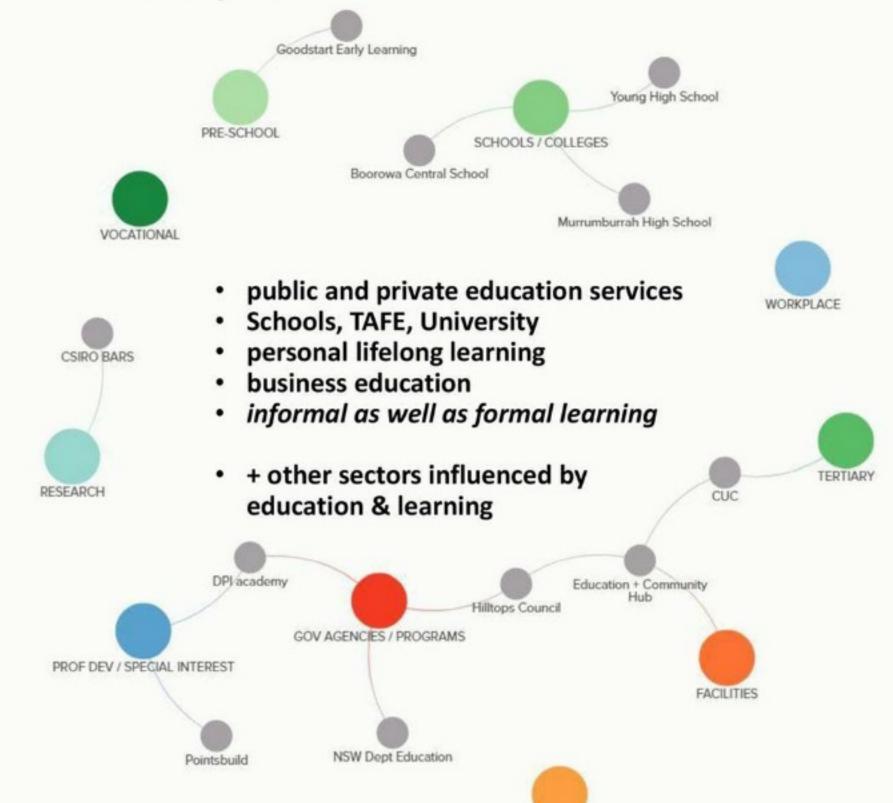
### Mapping the education ecosystem

Places. People.

Ideas. Initiatives.

Projects. Capacity.

- Regional culture
- Funding
- Support
- Talent & skills
- **Networks & community**
- **Facilities**
- Civic
- Learning
- **Commercial markets**

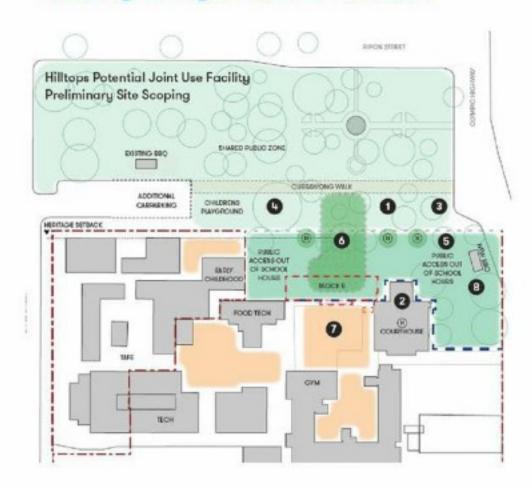


NETWORKS / COMMUNITY

### Community learning hub

The Hilltops Council is planning to develop a Cultural, Community and Education Precinct, including a new library and learning space in Young.

Hilltops Digital Twin" 3D model will be used to design a significant civic asset



- Creative and participatory community involvement in the design and development of the complex using 3D models of proposed building designs situated in
- Informed environmental and social impact assessment through running scenarios on the 3D platform to replicate real-world issues
- Collaboration with Schools Infrastructure NSW, TAFE NSW and local education representatives to demonstrate 3D technology in infrastructure design
- Develop 4D (time) capability by following an infrastructure project lifecycle from conception through to commissioning



The Hilltops Cultural,
Community &
Education Precinct is
a planned \$6.5m
initiative to support
learning, industry and
cultural development
in the region.





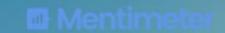












Becoming Local. Smart. Digital. Connected.

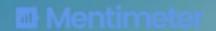


### We have...



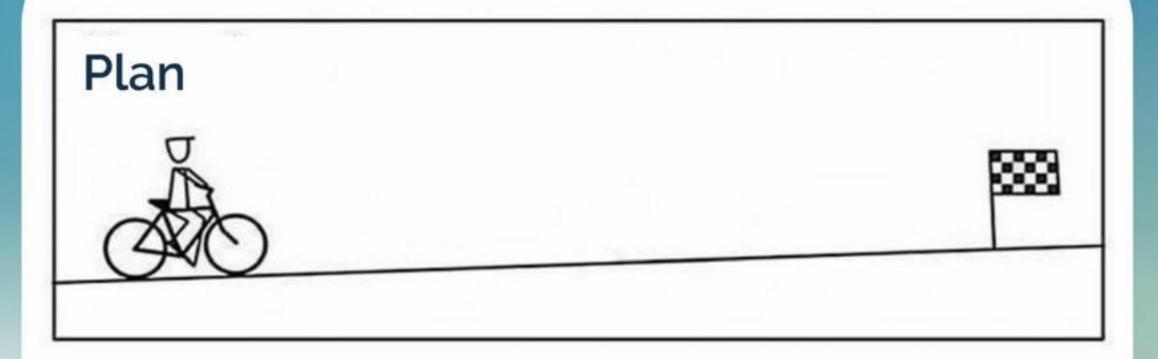


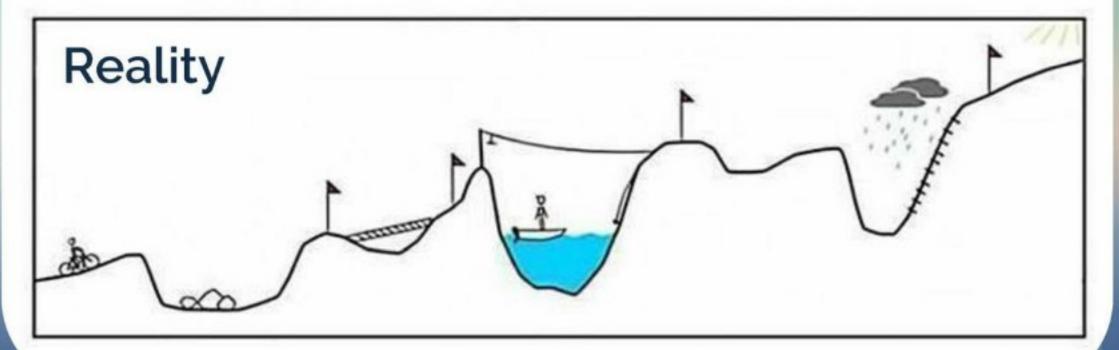




Collaboration is an unnatural act between non-consenting adults

Jocelyn Elders
Former US Surgeon-General





# **Key insights**

- Ecosystem > enabling 'structure' for moving forward
- True picture of (digital) 'readiness' and capacity
- Communication & awareness to link ecosystem
- Leverage existing strengths (capability + industries)
- · Create the conditions for new economy ways of working
- Pilot + flagship projects for collective interest + action
- Experiment with new collaboration \* partnership modes