ENABLING BETTER, NET ZERO CITIES
“It has worried me for years that organisations have not had a consistent evidence base on which to base decisions and investment. At last we do.”

Monica Barone, CEO City of Sydney
The Kinesis Platform

City data is always messy
Our software works with what data you have available
Our models know how to make the most of what you have
Example 1
Data for Metropolitan Policy
Exploring Net Zero Emissions for Greater Sydney
Emissions per dwelling
Growth in Greenhouse Gas Emissions

- Strategic Centres: 44.3%
- District Centres: 8.5%
- Urban Renewal Areas: 16.2%
- Land Release Areas: 7.3%
- Collaboration Areas: 0.9%
- Urban Growth Projects: 0.8%
- New Transport Corridors: 0.4%
- Other Areas: 21.7%

www.kinesis.org
Reduction Potential

Different solutions for different parts of Sydney

- Precinct scale approaches to the delivery of energy, transport and parking
- Leveraging new public transport infrastructure to reduce transport emissions
- Efficient buildings & renewable energy in growth areas
- Low emission reductions in low growth areas

Kinesis analysis 2017
Example 2
Data for Resilience Planning
Responding to Urban Heat Island

Sydney weather: Temperatures hit 40C in western Sydney ahead of late cool change
By Kathleen Cadbury
Updated 14 Dec 2017, 6:43pm

Western Sydney sweated through new record high 15C hotter than city's beaches
Updated 19 Dec 2017, 9:51pm

Heatwave: Temperatures to rise above 40C as weather forecasters issue heat stress warning
Updated 5 Jan 2018, 3:08pm

Severe heatwave headed for Sydney and eastern NSW, with more days in the 40s likely

Western Sydney and the state's northwest are experiencing high temperatures above 40C again with no cool change forecast for at least a week.
~ ↑10% Canopy Cover = ↓1.2°C
Population vulnerable to heat waves
Urban Greening
Policy Announcement – Greening Sydney

Provision of $37.5 million over four years to add 5 million trees to greater Sydney
Doubling Sydney’s tree canopy cover to 40% by 2030

Five million trees for a greener Sydney by 2030
Resilient Sydney Platform Live Demonstration

1. **Data analytics and visualisation** - show where and how to be effective, comparing apples and apples across organisational boundaries

2. **Setting Net zero pathways** - expert number crunching calculator and dynamic tool replacing consultancies

3. **Collaboration and Sharing** - multiple scenario comparisons and engagement with internal and external stakeholders