City of Newcastle

City of Newcastle is leading the transformation to the next generation of smarter living. We're working with stakeholders to make life easier – creating a smart, liveable and sustainable future for Novocastrians based on our award-winning Smart City Strategy.

Embracing renewables by building the region's largest solar farm

Smarter Living

Driverless vehicle soon to hit the streets of Newcastle

Want to find out more?

- Sign up to our eNews
- Attend our IQ series
- Check our website **newcastle.nsw.gov.au**

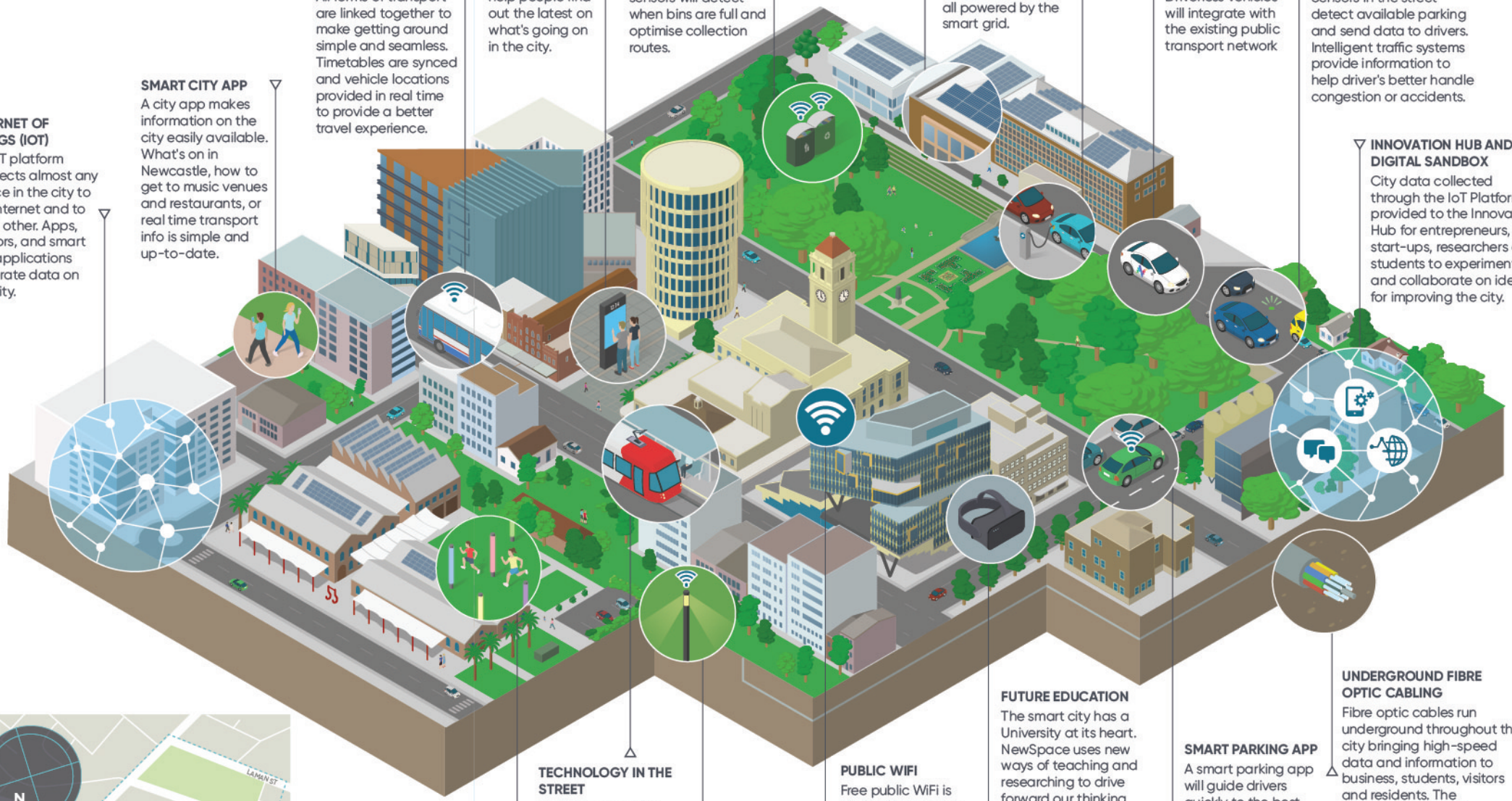
We're focussing on using innovation and technology to

- Connect community
- Improve transport
- Increase sustainability
- Share data
- Diversify industries

Join us at one of our IQ series nights to hear more about our Smart City Strategy

City of Newcastle

Our vision for the city



INTERNET OF THINGS (IOT)
An IoT platform connects almost any device in the city to the internet and to each other. Apps, sensors, and smart city applications generate data on the city.

SMART CITY APP
A city app makes information on the city easily available. What's on in Newcastle, how to get to music venues and restaurants, or real time transport info is simple and up-to-date.

SMART MOBILITY
All forms of transport are linked together to make getting around simple and seamless. Timetables are synced and vehicle locations provided in real time to provide a better travel experience.

SMART SCREENS
Interactive smart screens around the CBD provide information to help people find out the latest on what's going on in the city.

SMART BINS
Sensors linked to the IoT platform collect data on the city and transform everyday items into smart infrastructure. Bin sensors will detect when bins are full and optimise collection routes.

SMART ENERGY
Buildings are powered by the sun through solar panels connected to battery storage.

ELECTRIC VEHICLE CHARGE POINTS
Electric vehicle charge points are available around the city to recharge electric cars and other e-vehicles, all powered by the smart grid.

AUTOMATED DRIVERLESS VEHICLE
Driverless vehicles will integrate with the existing public transport network

SMART PARKING AND TRAFFIC SENSORS
Sensors in the street detect available parking and send data to drivers. Intelligent traffic systems provide information to help driver's better handle congestion or accidents.

INNOVATION HUB AND DIGITAL SANDBOX
City data collected through the IoT Platform is provided to the Innovation Hub for entrepreneurs, start-ups, researchers and students to experiment and collaborate on ideas for improving the city.

UNDERGROUND FIBRE OPTIC CABLING
Fibre optic cables run underground throughout the city bringing high-speed data and information to business, students, visitors and residents. The fibre-enabled city is attractive and more liveable.

SMART PARKING APP
A smart parking app will guide drivers quickly to the best available parking spot near their destination; pay by phone and top up remotely.

FUTURE EDUCATION
The smart city has a University at its heart. NewSpace uses new ways of teaching and researching to drive forward our thinking about the challenges of the future.

PUBLIC WIFI
Free public WiFi is available providing high speed quality internet access no matter where you are in the CBD.

TECHNOLOGY IN THE STREET
Light rail stops with sensor-based smart lighting and technologies including interactive information screens, device charging, WiFi hotspot and help points to make life easier and safer.

INTERACTIVE PLAY FEATURES
Sensor-based interactive lighting and water features create a dynamic public domain and provide entertainment and bring innovation to the city streets.

SMART LIGHTING
Smart poles provide energy efficient LED lighting, but that's not all. Each pole can house WiFi signal points, sensors, public address system and more.

Denotes area above