



MOBILE ASIA EXPO

亚洲移动通信博览会

Shanghai | 26-28 June 2013 ■ 上海 | 2013年6月26至28日

BUILDING A SMART CITY

TELSTRA AUSTRALIA

MIKE WRIGHT, EXECUTIVE DIRECTOR NETWORKS

IT'S HOW
WE CONNECT



M2M TRENDS ARE EXPLOSIVE ...WHY NOW?

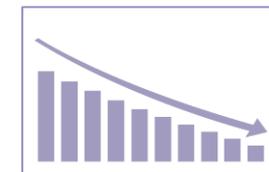


Network
Exposure/Integration

Cloud Computing ↑



Data Unit Cost \$ ↓



Chips/Device \$ ↓



Extensive Network Coverage
Data & Action Instantly Available

Improving Compute,
Network & Device Economics

Enabling Innovation and Opportunity
For the Smart City

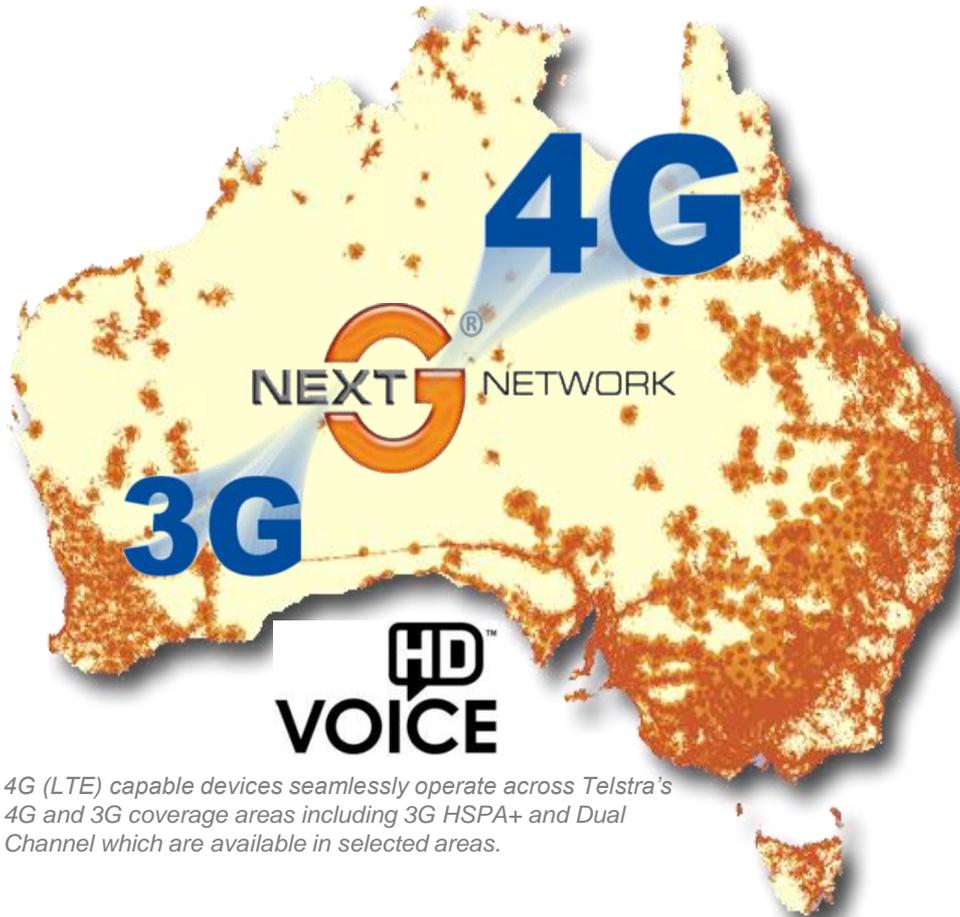


WE HAVE THE SMART CITY BUILDING BLOCKS

“THE NETWORKS”

The Telstra Network : Broad and Deep Wireless Broadband to underpin M2M and Smart Cities

IT'S HOW
WE CONNECT



4G (LTE) capable devices seamlessly operate across Telstra's 4G and 3G coverage areas including 3G HSPA+ and Dual Channel which are available in selected areas.

23 Million Population

2.3 Million km² Coverage

99% Population Coverage

- ✓ 99% HSPA/ 66% LTE1800 @ June 2013

High performing Network

- ✓ Multi-Gigabit capable Ethernet fibre to sites covering >93% of pops.
- ✓ Well under 1% voice drop rate
- ✓ World's largest HD Circuit Voice footprint
- ✓ Low band 850 MHz HSPA for wide and deep coverage, LTE 1800 to 66% pops
- ✓ New APT700 Band for LTE

High performing business

- ✓ Low churn rate
- ✓ > 2.1M 4G services.
- ✓ 230% growth 6M to Q1 13
- ✓ 13% PostP H/H ,17% MBB pen of LTE

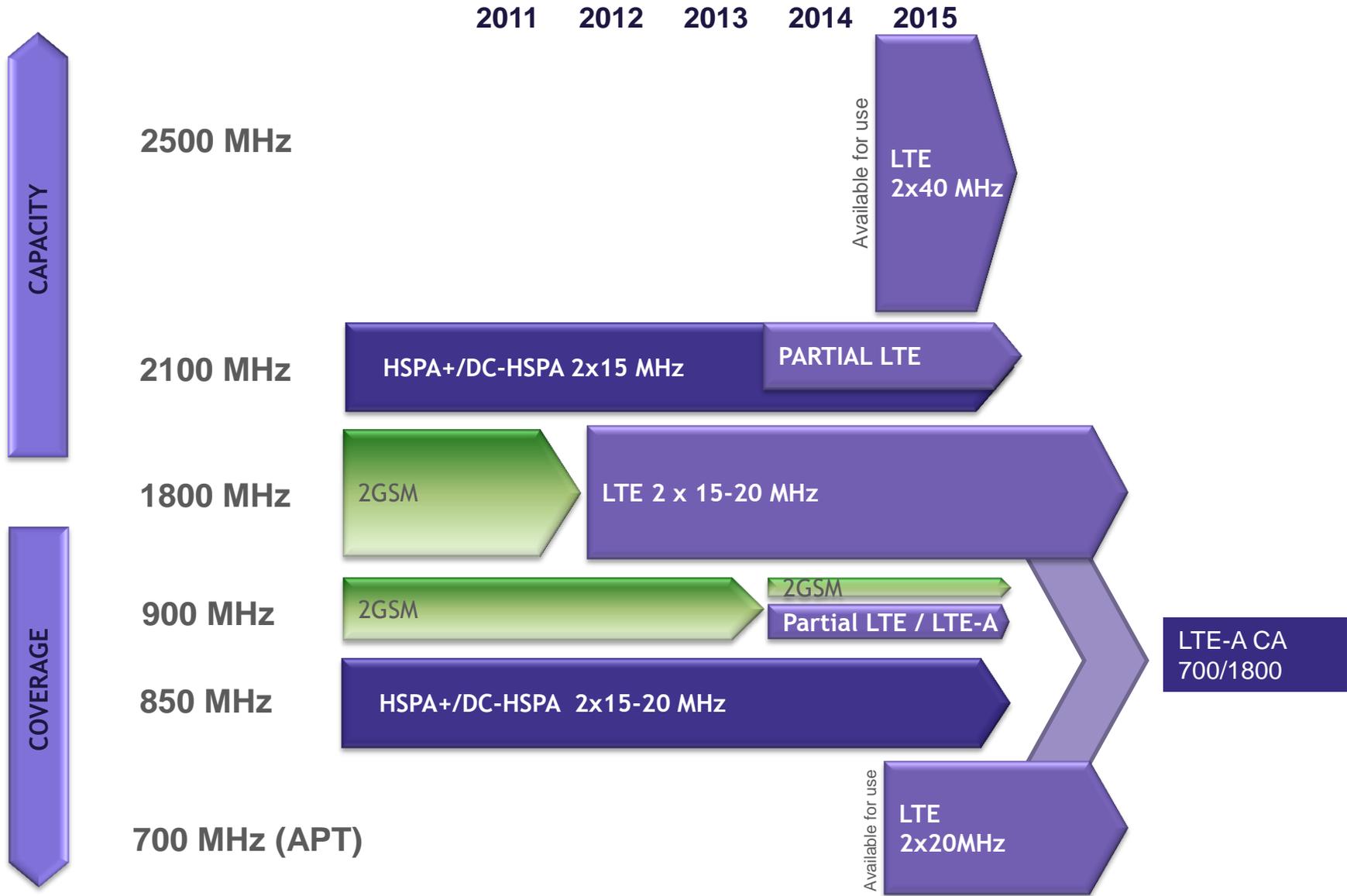
<http://www.telstra.com.au/mobile/networks/>

•Network performance stats are based on Telstra's National Field Testing #9 conducted in July 2012

Rankings based on Q1 2013

SPECTRUM & TECHNOLOGY ROADMAP TO SUPPORT SMART CITY DEMANDS

IT'S HOW WE CONNECT





WE HAVE THE SMART CITY BUILDING BLOCKS

***“THE EMERGING
APPLICATIONS”***

TELEMETRY & MONITORING



M2M HELPS BAKERS PROTECT THE QUALITY OF THEIR DOUGH

Monitoring Ingredients
for Bread



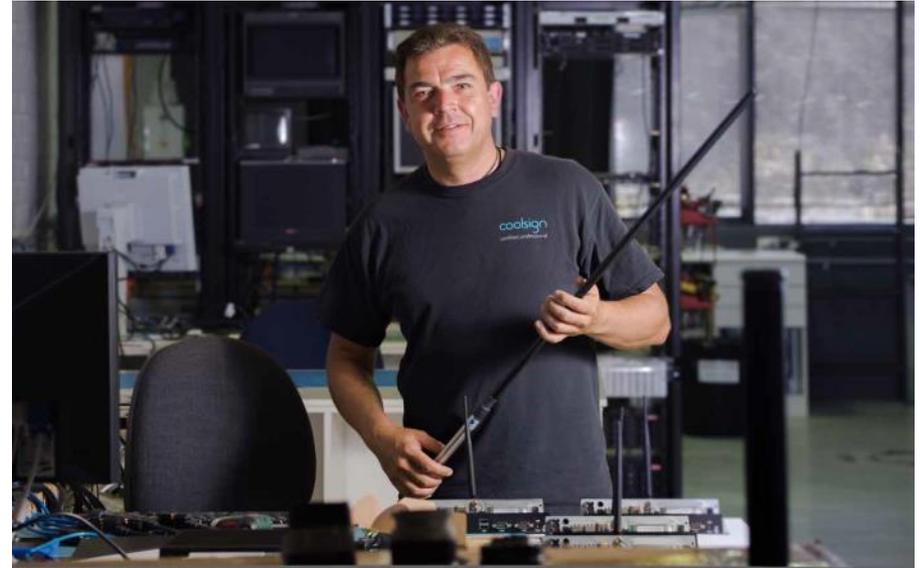
Monitoring The Great Barrier Reef
100km to Sea

VIDEO MONITORING & DISTRIBUTION

IT'S HOW
WE CONNECT



M2M PUTS FARMERS IN CONTROL



Video Monitoring for
Remote farming

Video Media Distribution
To signage



M2M HELPS TRACK AND MANAGE TRAILER AND UTE HIRES
ACROSS THE COUNTRY

Tracking commercial
Hire



TELSTRA CONTROL CENTRE PUTS
PROCON IN THE DRIVER'S SEAT

Tracking & Monitoring
Fleets

ENABLING CONSUMERS TO INTERACT WITH LOCAL COUNCIL

IT'S HOW WE CONNECT



My Council
Service



CITY *of* PERTH



City of Perth Parking

THE CHALLENGE

**120,000 people/day
parking**

**Antiquated meter
technology**

**Up to 200 fault
reports/day**

Long down times

**M2M
Enabled
Smart
Meters**

THE SOLUTION

Deployed smart ticketing machines equipped with SIM cards and modems that connect directly with the Telstra M2M Control Centre.

- Proactive management of equipment
- Improved customer experience
- Increased productivity and efficiency

“Previously, we had to go and check each and every one, but now that it’s automated we just get the information sent to us and we just react in a more efficient manner.”

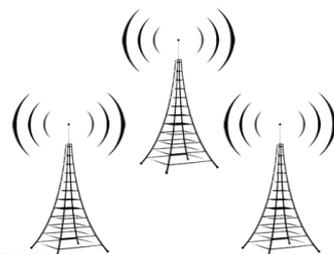
City of Perth, Field Technician, Surindar Singh

WE HAVE THE SMART CITY BUILDING BLOCKS

“THE VISION”

INTELLIGENT TRANSPORT SYSTEMS

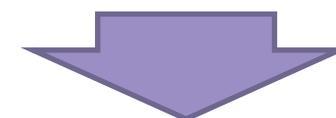
IT'S HOW
WE CONNECT



External server



Road environment data



- **TRAFFIC FLOW MANAGEMENT**
- **ALERTS**
- **COLLISSION AVOIDANCE**
- **SMART TRANSPORT**
- **EMERGENCY RESPONSE**
- **TRAFFIC & TRANSPORT PLANNING**



Welcome to SmartStartCity

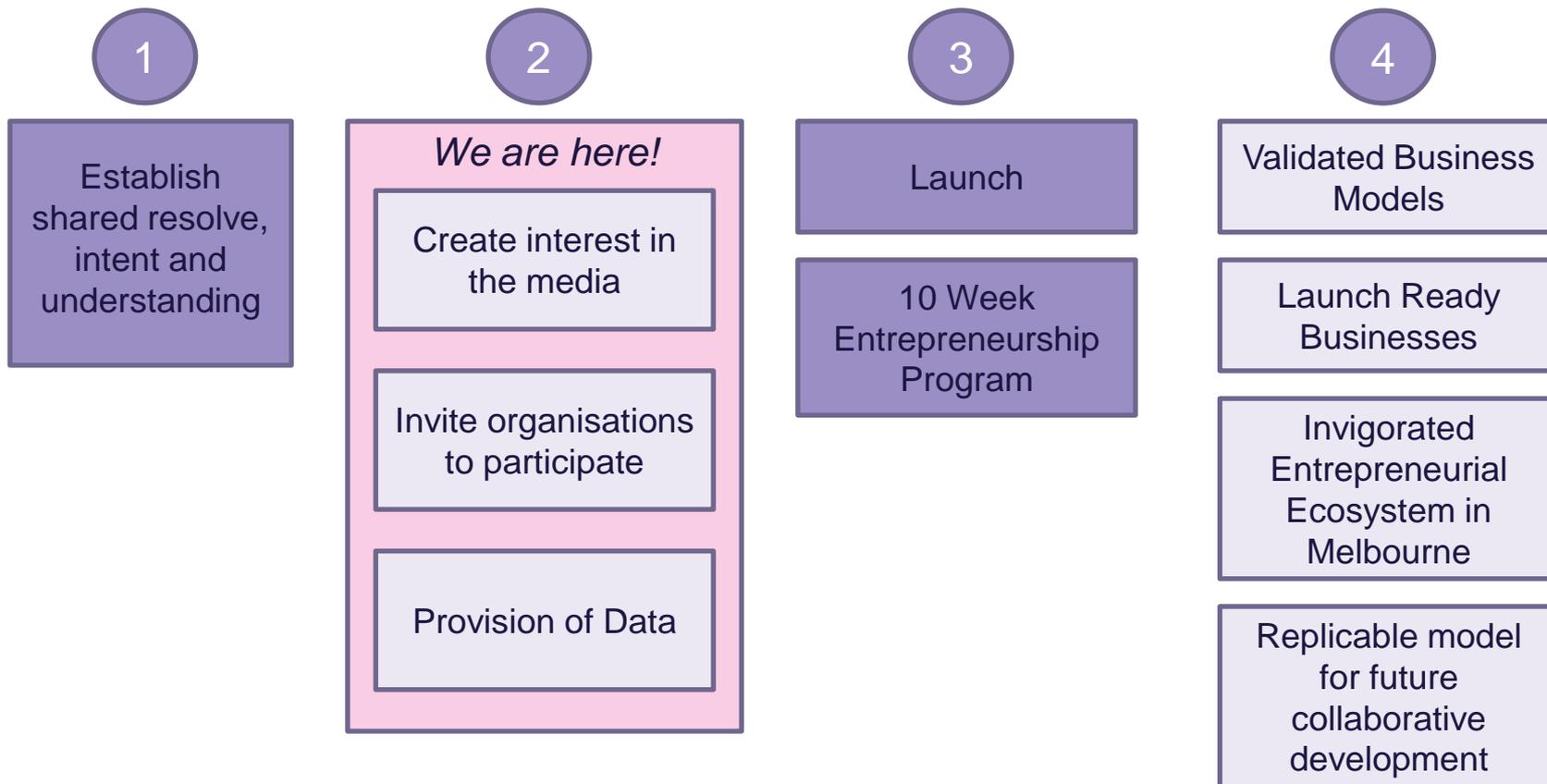
Sharing data with entrepreneurs to create profitable new ways of addressing urban challenges.

SmartStartCity is an entrepreneurial program designed to help start-ups create profitable new business models that address urban challenges identified by the City of Melbourne

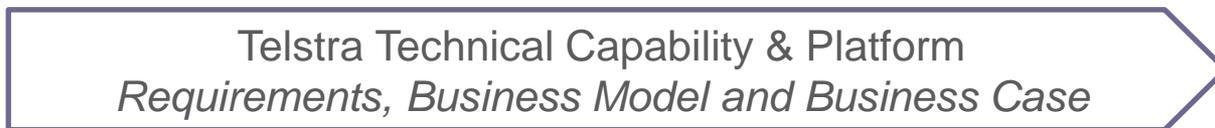


BAILEY AUSTIN

SMARTSTARTCITY – KEY MILESTONES



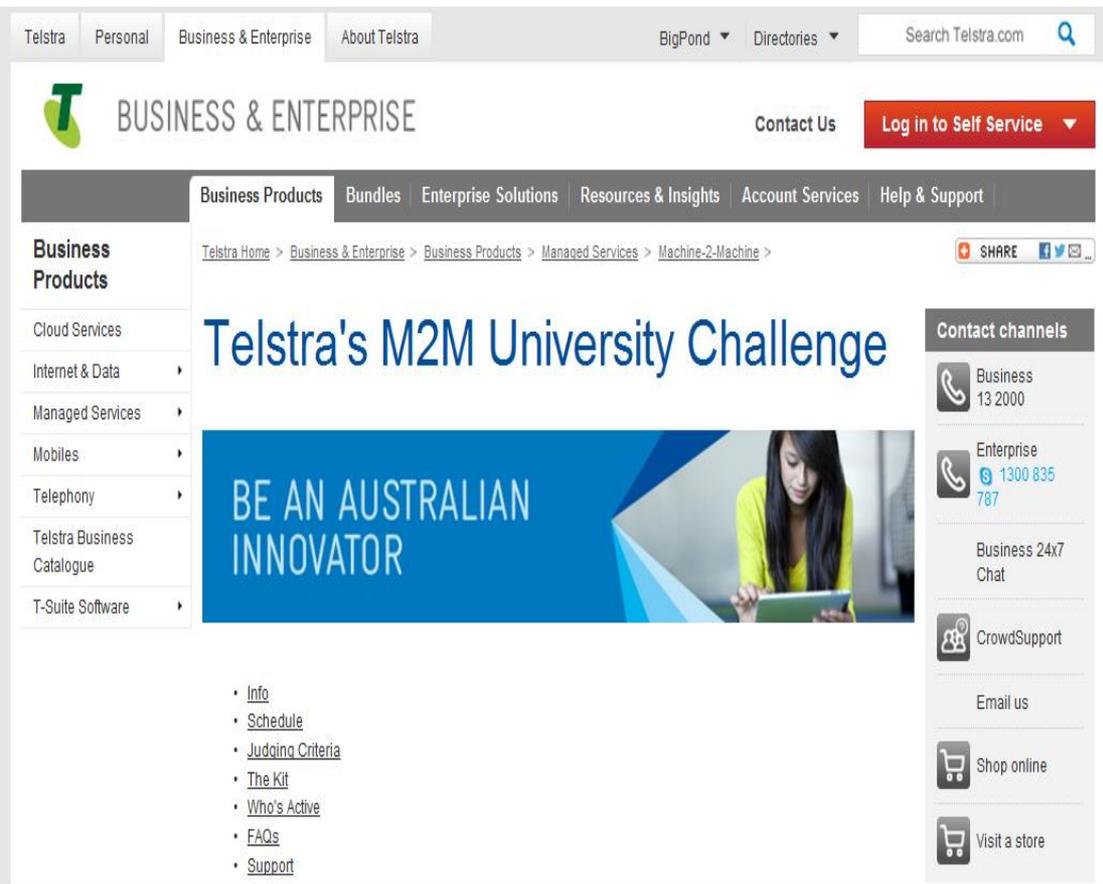
Architecture



Telstra
Funding
Decision

.. March / April / May June / July July / August / Sept / October November 2013 ----->

SEEDING THE NEXT GENERATION OF M2M & SMART CITY DEVELOPERS



The screenshot shows the Telstra Business & Enterprise website. The main navigation bar includes 'Telstra', 'Personal', 'Business & Enterprise', and 'About Telstra'. A search bar is located on the right. The 'Business & Enterprise' section is active, with a 'Log in to Self Service' button. The main content area features a large banner for 'Telstra's M2M University Challenge' with the text 'BE AN AUSTRALIAN INNOVATOR' and an image of a woman using a tablet. A sidebar on the left lists 'Business Products' and various service categories. A 'Contact channels' sidebar on the right provides contact information for Business (13 2000), Enterprise (1300 835 787), Business 24x7 Chat, and Crowdsupport. A list of links is visible at the bottom left of the page.

- [Info](#)
- [Schedule](#)
- [Judging Criteria](#)
- [The Kit](#)
- [Who's Active](#)
- [FAQs](#)
- [Support](#)

TELSTRA M2M University Challenge with:

Access to technical support from a Telstra Subject Matter Expert.

An M2M Development Kit (Raspberry Pi® device)

A Next G® USB dongle and a Telstra M2M SIM card

Access to the Telstra Wireless M2M Control Centre



WE HAVE THE SMART CITY BUILDING BLOCKS

“THE ASPIRTION”

OUR ASPIRATIONS – ENABLING & INTEGRATING WITH A SMART CITY

IT'S HOW
WE CONNECT

