



Australian Government

Geoscience Australia

# Bringing it all back home

Dr James Johnson  
Chief Executive Officer  
Geoscience Australia

**Building  
Australia's  
resources  
wealth**

**Supporting  
Australia's  
community  
safety**

**Securing  
Australia's  
water  
resources**

**Managing  
Australia's  
marine  
jurisdictions**

**Creating  
a location-  
enabled  
Australia**

**Enabling  
an informed  
Australia**









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Digital Earth  
AUSTRALIA







Search for locations


 Add data
 

DATA SETS [3] Remove All

  Water Body 164155

Zoom To About This Data Remove

  Water Body 163929

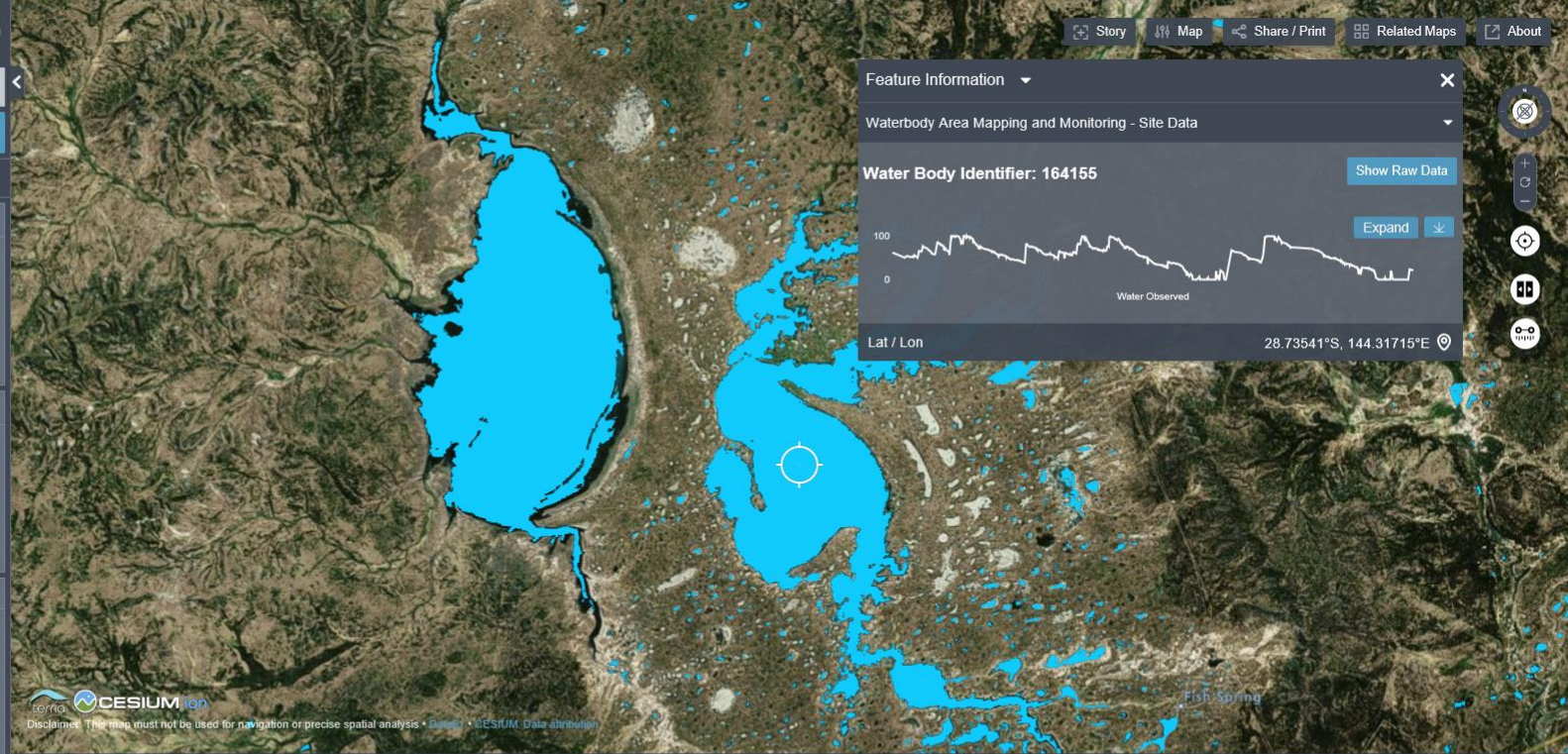
Zoom To About This Data Remove

Waterbody Area Mapping and Monitoring

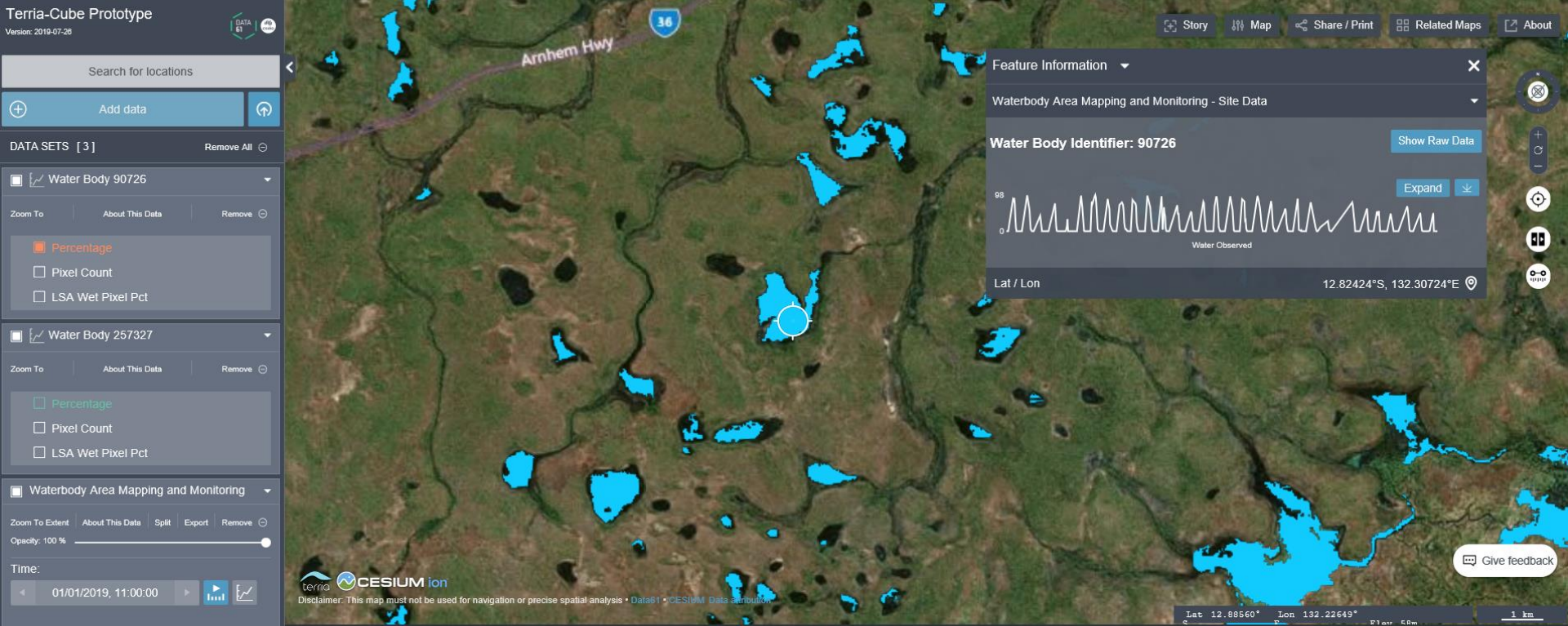
Zoom To Extent About This Data Split Export Remove 

Opacity: 100 % 

Time: 01/01/2019, 11:00:00







**River Spell**

TSDM: 1288 kg/ha

Food on offer: 634 tonnes DM

Date: 2019-07-07

Valid data: 100% of paddock

Bullen  
Bullen  
Nature  
Refuge

Building Solutions for Agriculture



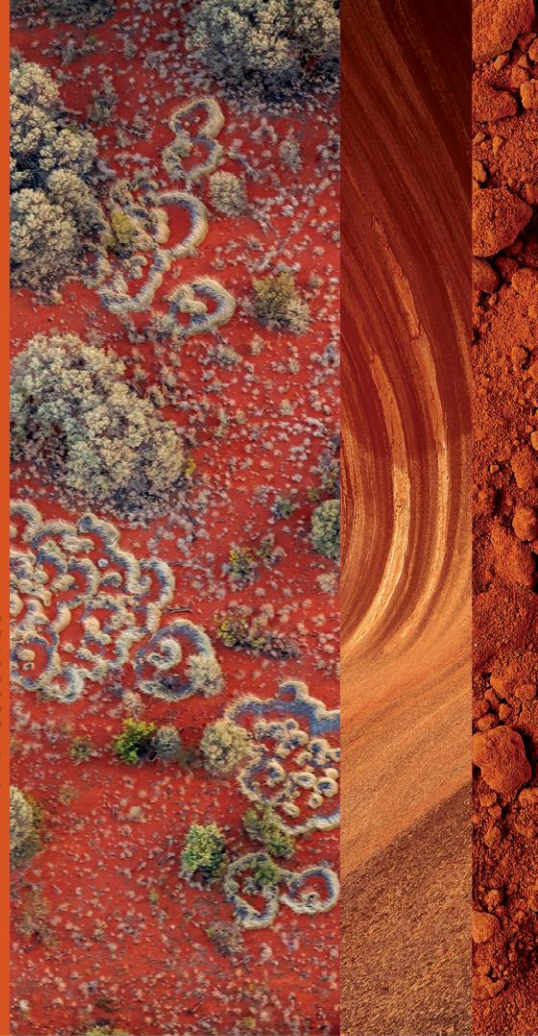


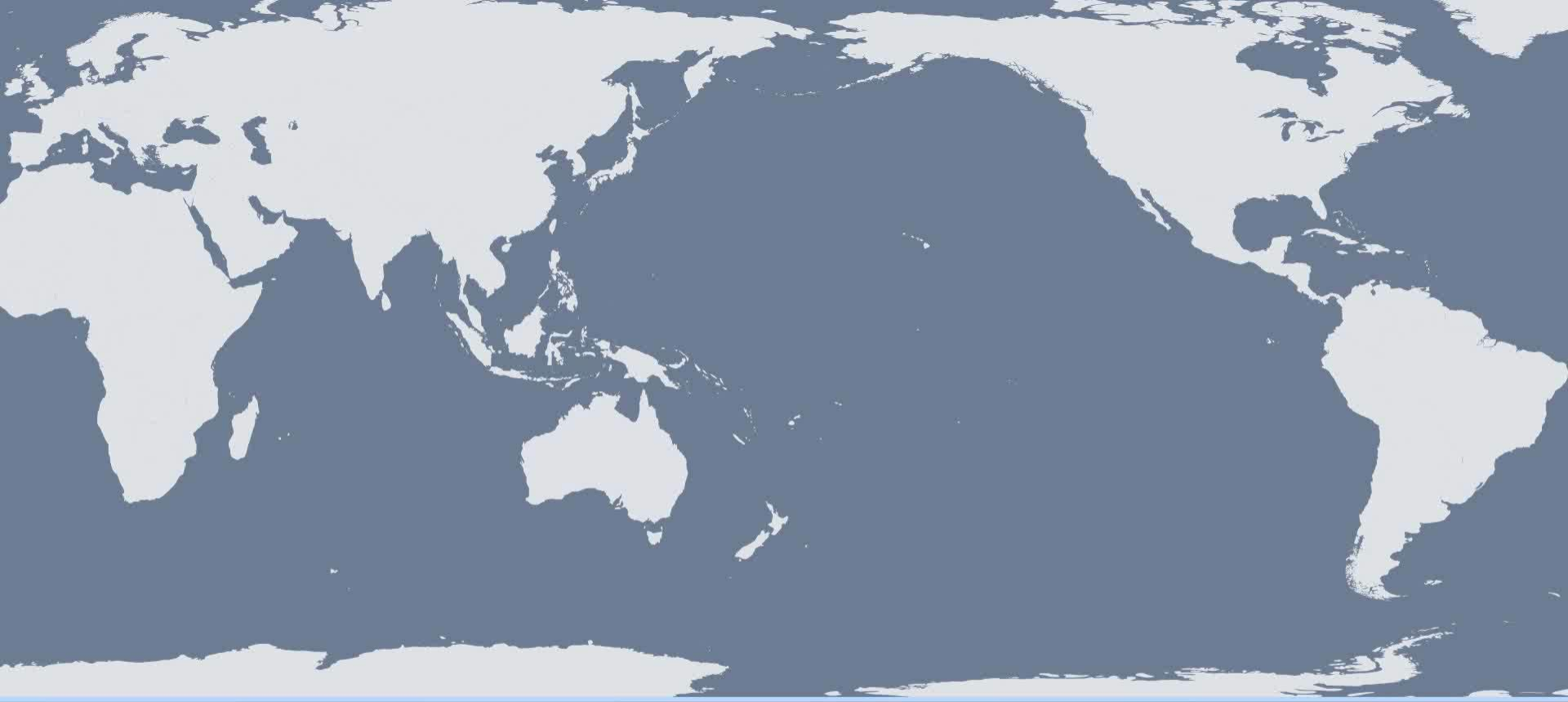
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POSITIONING  
AUSTRALIA

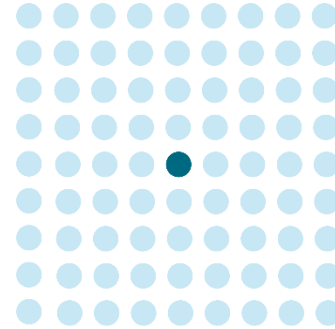
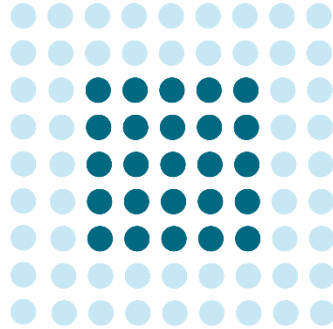
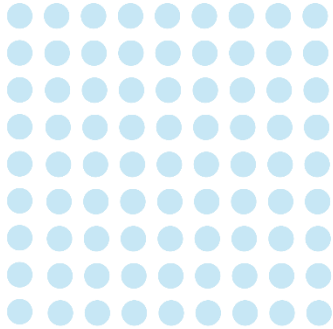
# Accurate and reliable positioning for everyone







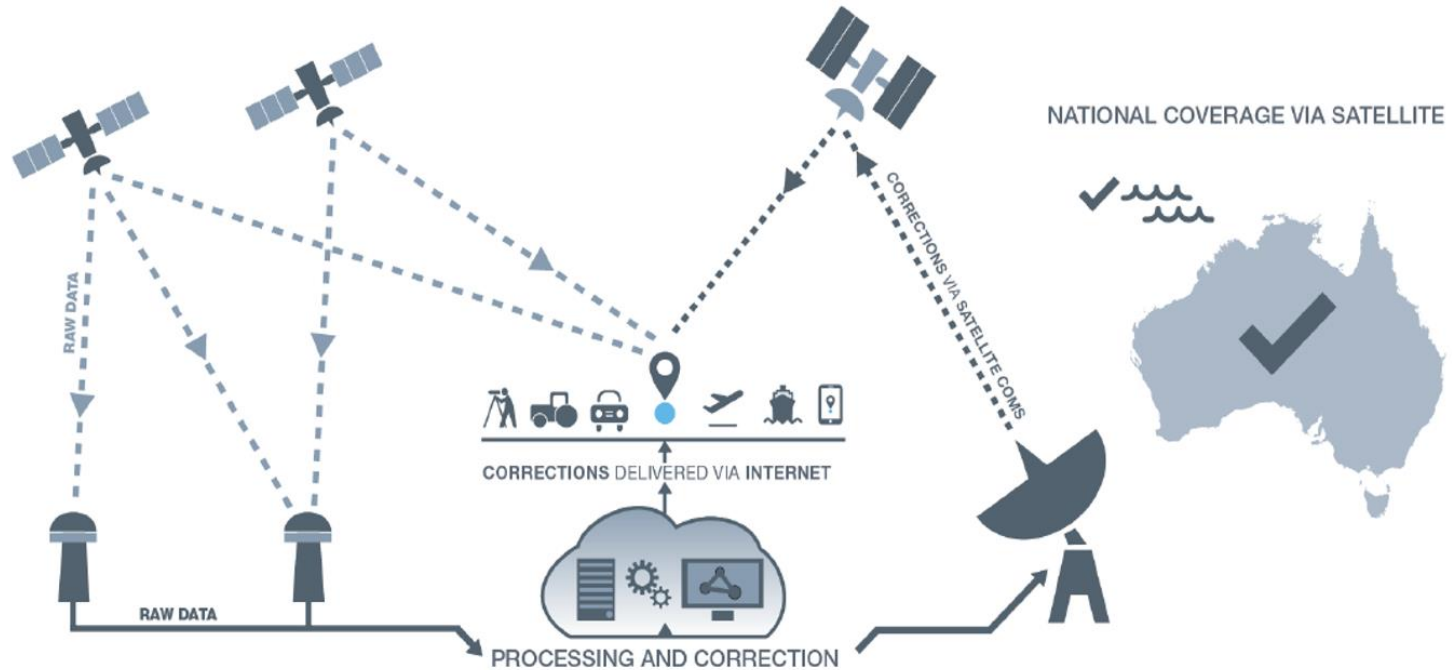
# Greater positioning accuracy



5m

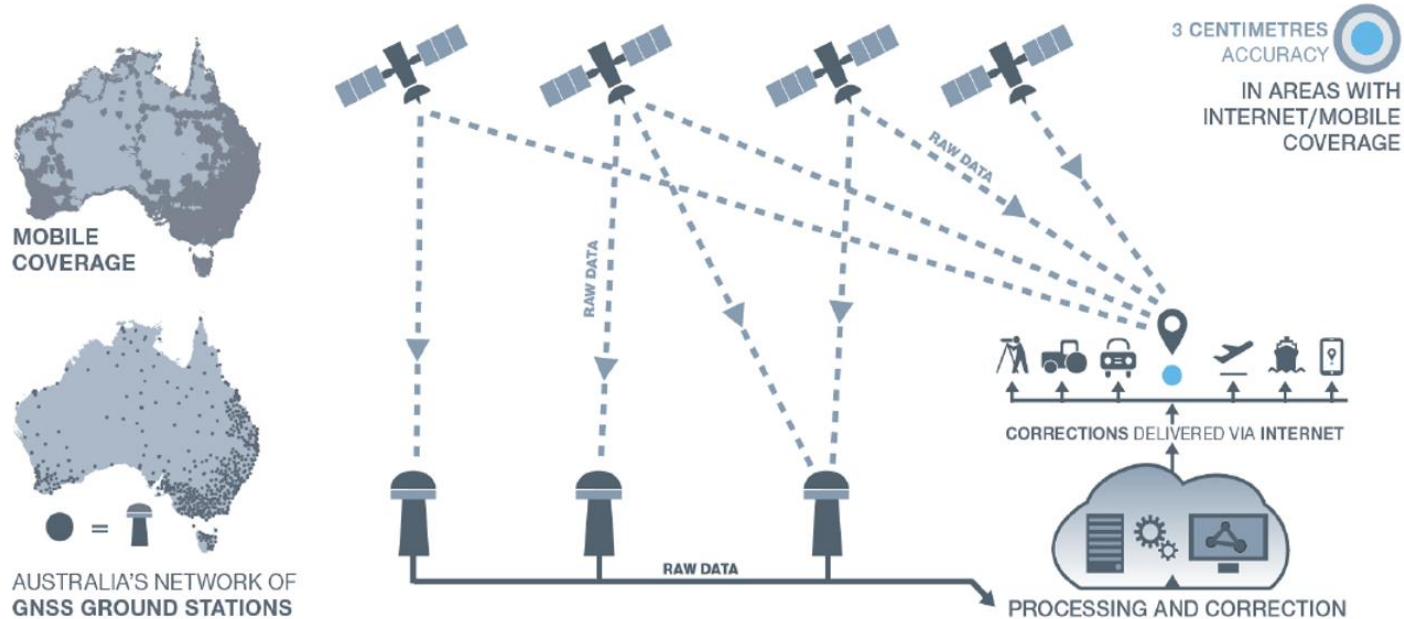


# Satellite-Based Augmentation System (SBAS)





# High-accuracy positioning via internet



A person wearing a bright yellow long-sleeved shirt and blue pants is rappelling down a rope. They are positioned in the center-left of the frame, with their body angled towards the right. The background is a dense forest with many thin, vertical tree trunks and some green foliage. The lighting is somewhat dim, suggesting a shaded forest environment. The overall tone of the image is slightly desaturated, with a greenish-blue tint.

Regional

participation

**DESIGNATED**  
Wheel track distance  
**3247cm**

**DISTANCE**  
Between tractors  
**1054cm**

**SOWING SEEDS**  
GUIDE





# LOW VISIBILITY



**SMALL VEHICLE APPROACHING  
PROCEED WITH CAUTION**



**SMALL VEHICLE**  
Distance to vehicle  
**3131cm**

**FLEET VEHICLE**  
Distance to vehicle  
**4242cm**

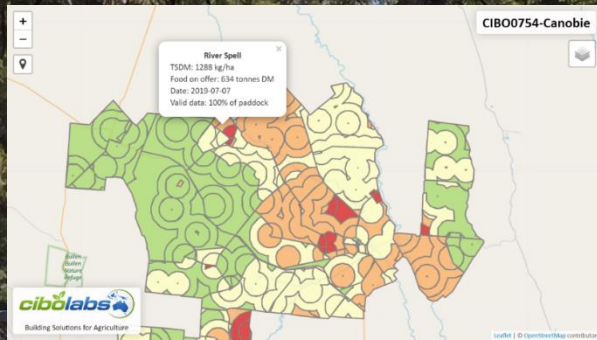


## TRAM

Tram 96 to Southbank  
Promenade









## PRECISION AGRICULTURE:

Improve the efficient spraying of nutrients, chemicals and water by 1-7%



## IMPROVE VERTICAL GUIDANCE ON APPROACH

so pilots can land safely in a greater range of weather conditions



## DECREASE OF NETWORK DELAYS BY 29% AND \$36 MILLION SAVINGS

through SBAS enabled C-ITS



## AUTONOMOUS POSTAGE: SAVE 16 MILLION

LABOUR hours with the use of automated parcel delivery robots







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# Thank you

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