

Real World Futures A Regional Perspective

QUT March 2018

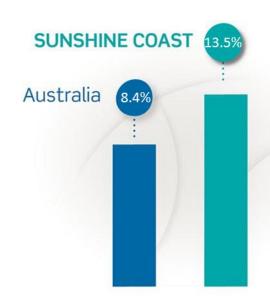


Who we are

- Australia's most sustainable region
- 304,000 people → Growing to more than 513,000 people by 2041
- 13.5% population growth rate over 2011-2016 (national = 8.4%)
- 9th largest city (by population) in Australia
- Forecast to have 4th fastest growth rate of any Queensland region between 2016 and 2036

POPULATION GROWTH RATE OVER FIVE YEAR PERIOD

2011 - 2016



Sources: ABS Population Pyramid (Australia) and Old Government Statistical Office (Population projections)



Excelling Now - Bright Future

- Gross Regional Product is more than \$17 billion
 → Forecast to grow to \$33 billion by 2033 (AEC Group 2015-2016)
- One of five non-capital cities nationally that will underpin the productivity of the Australian economy (IA: Australian Infrastructure Plan 2016)
- More than\$2.5 billion in major infrastructure projects and over \$10 billion in private investment underway or in the pipeline
- 9.5+ million visitors in 2016 (overnight +13.5%, international +20%)
- One of the highest levels of business confidence of any region in Queensland (Westpac Group-CCIQ: Pulse Survey of Business Conditions September 2016)
- Unemployment rate at 4.9% (Queensland = 6.2%)
- Building approvals in 2016-2017 at an eight-year high at \$2.12 billion worth of construction – more than double 2011-2012.





Issues for our future work are about technology...

Automation

All hale William Gibson...

Co-working

A relatively high number of co-working locations exist allowing a diversity of businesses to operate. National and international businesses operating from the Sunshine Coast with limited infrastructure

Undersea Cable

Seeking to locate the cable into Mooloolaba – significant opportunities for new industries, improved outcome for existing industries and opportunities for our community

Smart Cities

One of only three Australian regions on the world's Smart 21 communities list for 2018



...and disruptive business models...



Significant competition for existing taxi services. Larger distances for work, social travel adding to popularity, good job growth for operators



Tourism operators and licensed business seeking a common playing field. These operators contribute to a Tourism Levy – private B&B operators generally don't pay the levy to Council

SAirtasker

Creating and taking job opportunities for local residents

New systems for customer management, HR and Asset Management reducing processing requirements, impacting employment



...about our workforce...

Our workforce

Workforce Mix

What will the jobs of the future be?

How will they be affected by next gen automation?

Workforce Profile:

Who will our workers be?

How will our workers wish to operate?

Structural Issues

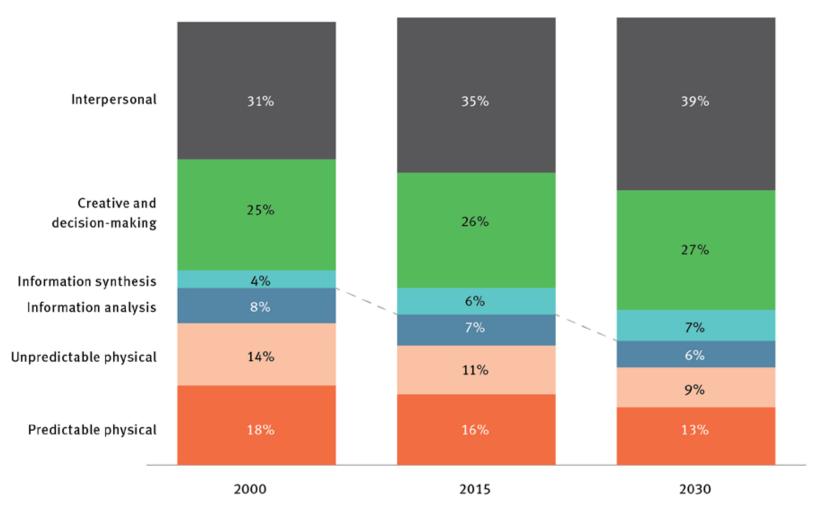
Freelancing economy

Skills mix required for task

STEM, HASS and let's not forget the blue...



Time spent on tasks by Australian Workers



Source: AlphaBeta 2017, The automation advantage, AlphaBeta, Sydney, http://www.alphabeta.com/the-automation-advantage, http://www.alphabeta.com/the-automation-advantage,



...and about our communities





We are living through a fundamental transformation in the way we work. Automation and 'thinking machines' are replacing human tasks and jobs, and changing the skills that organisations are looking for in their people. These momentous changes raise huge organisational, talent and people challenges – at a time when business leaders are already wrestling with unprecedented risks, disruption and political and societal upheaval. " Workforce of the future 2030 PWC



1,149

Full-time employees 73% 449 women 700 men 162

Part-time employees 9% 154 women 8 men 150

Casual employees
8% 110 women
40 men

Workforce



48% women



52%



23% Generation Y (under 37 years)



56% Generation X (38-52 years)

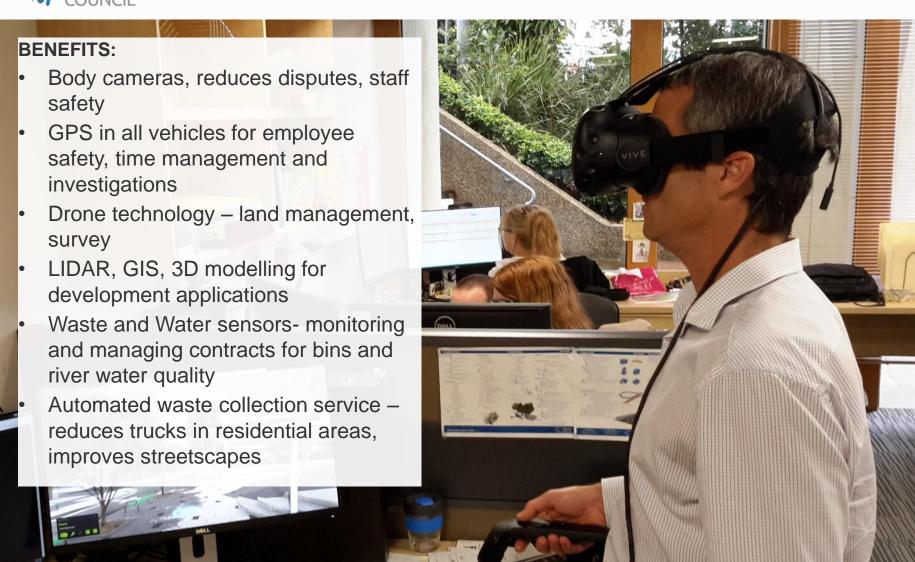


25% Baby boomers (over 53 years)



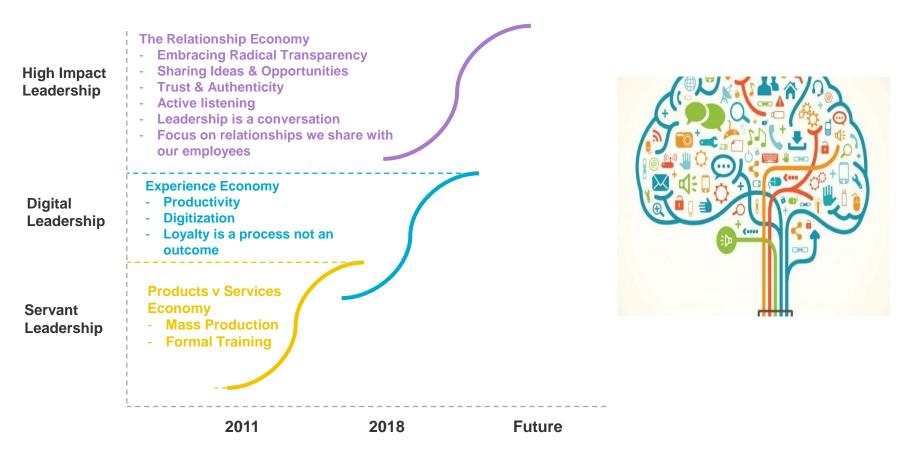


Technology and our workforce





We may be in the middle of the Experience economy, but the future of leadership is being disrupted as we enter the Relationship Economy ...





THE QUALITIES OF A GREAT LEADER

IN AN AGE OF DISRUPTION

Empowerment

Leaders closer to the work can make quicker and more informed decisions based on data, research, best practices, and proximity to the customer.

Engagement

Join your teams in the trenches to not only stay grounded in the realities of the business, but also to inspire them to unleash their passions and talents around a shared vision.

Influence

Being able to influence others without having direct authority is extremely important. Positive influence sparks motivation and engagement.

Innovation

Leaders at all levels must incubate and incentivize creativity and innovation by supporting experimentation and learning, including the permission to fall.

Communication

Strong communication fosters alignment on activities, resources, and priorities. It also promotes the sharing of results, insights, and best practices across the organization.

Problem Solving

Problem-solving should be a continuous activity. Constantly challenge the status quo. Don't approach problems linearly, but rather more expansively to realize a greater impact.

Transparency

Transparency builds strong relationships, creates authenticity, engenders trust, and drives higher levels of performance.

Adaptability

An adaptable leader must deal with unpredictable and changing situations with dexterity and confidence using strong interpersonal and cross-cultural skills.

Empathy

Exuding empathy paired with active listening and humility will boost staff performance and morale...

Continuous Learning

Leaders must continuously acquire new knowledge, seek out best practices, sharpen skills, and gain fresh perspectives.



The Sunshine Coast leaders are future ready ...

1. THE ABILITY TO THINK OF NEW SOLUTIONS

- Willingness and ability to create something entirely new.
- Desire to shape the impact of those changes, rather than react to them.

2. BEING COMFORTABLE WITH CHAOS

- Work well in unknown conditions.
- Demonstrate a level of comfort with the chaos

3. AN UNDERSTANDING OF TECHNOLOGY

 Demonstrate a robust understanding of the capabilities, applications, and future potential of emerging technologies.

4. HIGH EMOTIONAL INTELLIGENCE

- High emotional intelligent
- Understand the need to invest in people."
- Traits need to include accountability, transparency, fairness, honesty, and an ability to design systems and processes for humans.

5. THE ABILITY TO WORK WITH PEOPLE AND TECHNOLOGY TOGETHER

- Need to understand how to delegate between humans and machines in a way that maximizes the capabilities of both.
- the most future-ready leaders are excited to integrate them into their workforce "

JARED LINDZON
EY JEFF WONG





The plan of action for the future of work

THE TIME TO ACT IS NOW

- Change is already happening, the future of work is now.
- Be dynamic and agile in moving forward
- Be skilled in understanding and adapting to changing needs

LEAD THE CONVERSATION

- Workforce anxiety is the biggest disruptor to innovation
- Engage teams on social platforms eg. Yammer
- Tell the story about the future

BE DYNAMIC AND RADICAL, WHEN IT'S REQUIRED.

- Accept radical change might be required
- Take risks and have no regrets
- Focus on the journey not the short term outcome

FOCUS ON PEOPLE, NOT JOBS

- Nurture agility, adaptability and re-skilling
- Have conversations with your people about the future
- Hire for high EQ with an understanding of the future of work





We think of the future inclusively starting with our customers experience to our peoples experience to the digital solution needed





OPPORTUNITY & DISASTER MANAGEMENT

The customer experience:

The public receive disaster alerts via SCC app and other channels such as SMS, based on current location and also home, work and favourite locations.

The Employee experience:

The disaster management team are able to instantly send key messages to groups of residents and visitors.

The digital solution: 🚨

DDI's developers have connected the Disaster Hub and SCC app with a custom built Notifications Hub, designed by the Solutions Architects. It allows messages to be sent selectively to user groups.

The Employee experience:

Staff don't have to regularly drive to remote bridges and roads to check conditions. This allows them to be where they're needed and keeps them safer.

The digital solution: 🚨

Remote roads are monitored. Signs turned on and public notified. Data goes onto disaster hub road closure list.

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The Customer experience:

Access the Disaster Hub website for road closures, news updates and other information. Automated roadside warning signs warn motorists before a bridge can flood.

The digital solution:

Sensors in creeks and on bridges detect water levels and send data. Roadside warning lights and signs are automatically triggered by rising water levels.

The Employee experience:

DIS's Analyts and the Hydrology team are continually testing and implementing innovative new in-field sensors. Improvements to the Disaster Hub are made continually and other councils now pay a subscription to use the platform in their own regions.

The Customer experience:

Residents are electronically notified of Evacuation
Centres opening in their area and are directed to the closest one via a safe route.

The digital solution:

Automated alerts are sent to the app or via SMS, based on the device's location.

Navigation features use way-finding algorithms, developed by DIS Spatial Analysts and Data Scientists, to find the safest route, taking into account current and predicted road closures and traffic conditions.

The Employee experience:

Field crews on site rapidly close flooding roads directly within via a mobile device. Details including photos are instantly available to those in the Local Disaster Control Group Command Centre (LDCC CC) to assist with decision making.

The digital solution:

Disaster Management tools such as the Road Closure app are designed and developed by DIS Developers and User Experience experts. The tools are constantly refined to meet the field worker's needs and provide them with an excellent user experience.

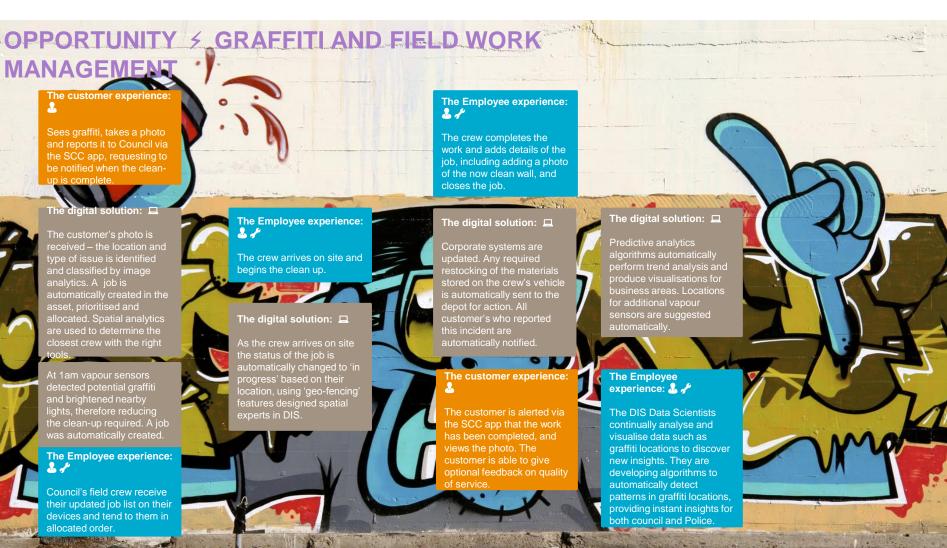
The Employee experience:

LDCC staff have access to an array of tools. They can view the current situation and automated modelling and predictive analytics paints a picture of the emerging situation over the next few hours and days.

The digital solution: 🚨

Collected data is available via Application Programmable Interfaces (APIs) and consumed by other solutions such as spatial / mapping and specialised flood modelling tools. DIS's Solution Architects consult with business units to design improvements using technology. The DIS Developers create the integration between the APIs to connect the pieces of the overall solution.







OPPORTUNITY & COUNCIL EVENTS

The customer experience:

The public find out about council lead events online. When attending the event, the SCC app helps navigate past event road closures to extra event parking.

The Employee experience:

Staff add event road closures to council's systems ahead of time.

The digital solution:

The roads hub algorithms look at road closures, available parking and traffic conditions. Information is consumed via the SCC app and other navigation apps.

The customer experience:

People use social media to share their experience on the Sunshine Coast, as it happens. They can also use it to communicate with event organisers.

The digital solution: 📮

Public Wi-Fi gives people connectivity. It also counts devices, giving the event team and Queensland Police a real-time indication of the number of people in attendance.

The Employee experience: &

After the event, the patterns of attendance numbers and approach routes is used for review and future event planning. Demographic data from SCC app users at the event is also used, and included in the CRMS.

The customer experience:

Via their phones, people have access to live information about time changes, weather alerts and other notices from the event organisers.

The Employee experience: 🏖 🖋

On their tablets and phones, event staff use real-time data on attendees, weather forecasts, traffic and parking and safety incidents for decision making.

The digital solution:

Sensors in public infrastructure such as bins, toilets and taps provide data on usage and status.

Network Architects in DIS ensure that segregated, dynamic and robust comms networks keep the vendors and smart infrastructure connected, while also keeping the public online via Wi-Fi.

The customer experience:

Food and drink is purchased

from vans at the event,

using tap and go payment.

Food vendors are grateful

for the robust connectivity of

the comms network provided by council just for them.

The Employee experience: & *

Infrastructure staff receive automated alerts from public infrastructure such as failing taps in the toilet blocks, and respond quickly.

The customer experience:

People enjoy interacting with the public artwork installations and dynamic lighting around the event site, often using features on their phones.

The digital solution: 🚨

The technology in public artwork provides data on how and when people interact with it. Solution Designers in DIS work with council's Public Art Curators and Event Organisers to ensure that technology is used to simultaneously enhance public art experience and measure it's

The Employee experience:

Data from the public artwork interaction is used to measure what was popular and what wasn't. This informs future briefs and grants.



