
The Future of Public Works

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Introduction

1. Progress in Our Sector
2. Future of Public Works (in QLD)
3. Changes required to keep up
4. Nurturing our upcoming engineers
Progress in Our Sector

People
Progress in Our Sector

People

- Industrial Relations
- Training
- Professional Associations
- WH&S
Progress in Our Sector

Plant and Equipment

Productivity/Efficiency/Automation
Progress in Our Sector

Materials and Products - Bridges
Progress in Our Sector

Projects – Complexities/aesthetics

Landscape Projects with Engineering Outcomes

Cityscape Project with Engineering Outcomes
Progress in Our Sector

Technology

THEN

NOW

15 Years Ago
Ding, You've Got Mail
Sigh! Letters

Today
220 Unread Emails
OMG! A Letter
Progress in Our Sector

Social Media

Instagram/Facebook
Future of Public Works

Real time Information

Enviromon

Australian Government
Bureau of Meteorology

TOOWOOMBA REGION
Future of Public Works

Mobility

Outdoor Staff

Indoor Staff

Members of Public

TRC Systems and Data

3rd Party Systems and Data

Fleet Vehicles

Sensors & Controllers

Smart City Initiatives

Service Provider Vehicles

Emergency Services
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Autonomous Vehicles and Plant
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Central Control Centres

Integrated Smart Operations Center

Smart City operations centre
Future of Public Works

Smart Cities/Regions
Future of Public Works
Stakeholder Engagement
Future of Public Works

Stakeholder Engagement

• Media
• Challenges
• Importance in projects
• Petitions
Changes needed to keep up

Industrial Relations

- “New Modernised Award” – still 1990’s based
- Flexibility and adaptability – Council’s are 24/7
- Competiveness
- Changing job horizon
Changes needed to keep up Governance

- Politics – very variable at Federal, State and Local levels
- Hard to develop visions/strategies - easier to stay operational
- Need less media influence
- Courage to make positive change
- Invest in infrastructure to improve “living standards” for all
- ‘Red tape’ – we seem to be making more rods for our own back eg. BIF Act
Changes needed to keep up

Long term sustainability

- Environment – well managed / investment
- Energy – alternative sources
- Water – limited supply; optimal use of what we have
Nurturing our upcoming engineering teams

- Technical Competencies
- Organisational Support
- PDP Program
- Mentoring
- Leadership/Management
- Organisational fit
- Passion/Knowledge
- Question status quo
- Courage to speak up
TRC’s Generator Program

Provides entry level opportunities and career pathways for Engineers, Technical and Professional Officers through scholarship, intern, cadet and graduate opportunities.
Family – work/life balance

Thank you