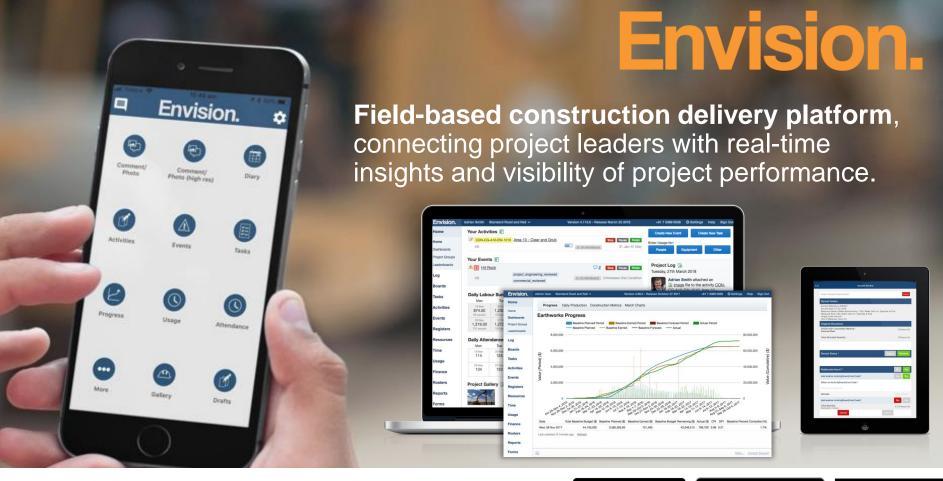
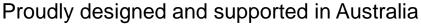
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Construction Data

QMCA Breakfast Briefing















Key project history

>270 projects

+\$20 billion in project value

>150km road >1,150km rail >1,200MW power

>11,400km pipeline

Mondarra Gas
Compression
Facility
Enerflex

Upstream Compression Thiess + QGC Mine Construction and Defect Liability Royhill Gold Coast Light Rail CPB Brisbane Parallel Runway CPB + BMD CR2SM
Seymour Whyte +
Fulton Hogan

M4 M5 link tunnels **LendLease**















2011

2012

2013

2014

2015

2016

2017

2018

2019



Caval Ridge Coal Plant Thiess



Ichthys LNG Control Buildings **Leightons**



APLNG Sustaining Infrastructure CPB + MPC



WestConnex New M5 CPB + Dragados + Samsung



Port Moresby Power Station Clough



Oyu Tlgoi (Mongolia) **Clough**

Construction industry challenges



Poor productivity – labour productivity has not kept pace with overall economic productivity

McKinsey & Company



Performance challenges – cost and schedule overruns are normal

McKinsey & Company



Digital adoption - amongst the least digitalized of all industries

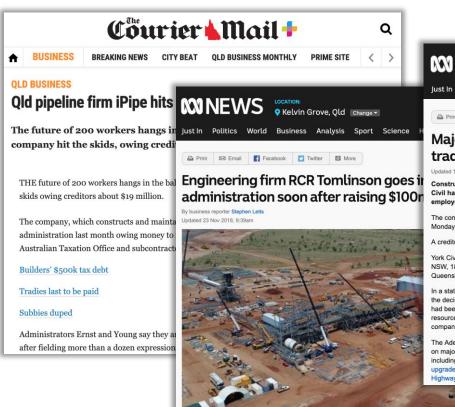
McKinsey & Company

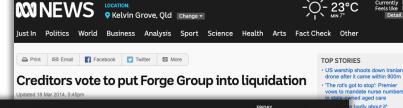


Cost of disputes – Impact in Australia more than \$7B annually

CRC Construction Innovation

Industry failures





WNEWS • Kelvin Grove, Qld Change -

Facebook

Business Analysis Sport Science Health

Arts Fact Check Other

TOP STORIES

and daughter

on a dating site

· Clive Palmer paid just \$1 for Queensland Nickel, court told

· Ice-smoking driver jailed for

seven years for killing mother

· French reporter says his arrest

· How to spot an online scammer

will feature in documentary

· Sabrina Lekaj's father faces

adly about it: away from 'send 'terrifyingly small'

ned aged care

so many astronauts ses Ardem

stop deporting New exploding onto the sive fire destroys

veed' scourge seagrass and how uld be used to fight it fused': Team miffed alia's Rohan Dennis ir de France mid-

Australia's house of ill standing, but don't other boom

at really showed the

Armstrong's first step

waiting months for

s struggle to meet

re green, but there

mestic violence

weeds': The

court hearing from hospital bed ints ex-RRS hoss charged with daughter's murder an as CEO after five-· Toddler's baggage carousel ride

into bowels of world's busiest eing a Trump 'bestie' airport caught on camera lenges for Morrison Gangland figure wipes away s vet for who will pay

tears as court grants freedom due to Lawyer X · Corruption watchdog boss

stands aside from probe into Deputy Premier

· Four teens charged over alleged homophobic attack on a London

· Casinos keep 24-hour trading, exempt from ID scanners to help make Brisbane 'new world city'

· Scientists are stumped about why this stump is still alive

· Josh Frydenberg's electorate result to be challenged in High

· Sediment is causing the Great Barrier Reef significant harm, but a fix is contentious

Major government contractor York Civil ceases trading

Twitter

Updated 13 Aug 2018, 4:45pm

Politics World

Construction and engineering company York Civil has ceased trading, leaving 188 employees out of work.

The company told employees and contractors on Monday morning.

A creditors meeting will be held on Thursday.

York Civil employed 136 workers in Adelaide, 31 in NSW. 18 in Western Australia and three in Queensland.

In a statement, administrator Ferrier Hodgson said the decision to cease the company's operations had been made because of insufficient cash resources and the inability to find a buyer for the company.

The Adelaide-based business is currently working on major construction projects around Australia.

including the Perth Stadium footbridge in Western Australia, the \$800 million Torrens to Torrens road upgrade, North Terrace tram extension and Main South Road upgrade in South Australia, and the Pacific Highway in NSW.

into administration

PHOTO: York Civil is involved in major construction projects around Australia including the new Perth Stadium bridge (Supplied: John J Zylstra) RELATED STORY: Major infrastructure contractor York Civil goes

RELATED STORY: Stadium bridge builder leaves subcontractors

owed hundreds of thousands of dollars

· Should everyone know if your coastal home is at risk of flooding due to climate change?

















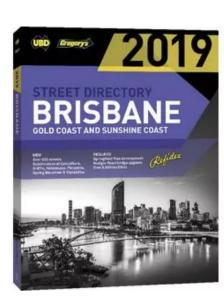


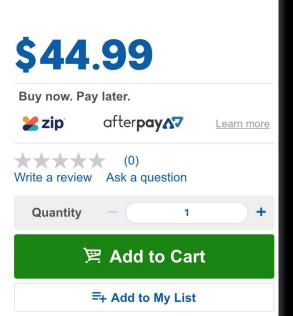
Search for a product

Home > Office Supplies > Business Bags, Luggage & Travel Accessories > Street Directories

UBD 2019 Brisbane Street Directory 63rd Edition

Product Code: UBDBRI2019 Category Links: Street Directories









Data formats



Daily Diary (Paper)



| All Company |

Timesheet (Spreadsheet)



Weigh Bridge (Screen data - handwritten)

(XML Log)

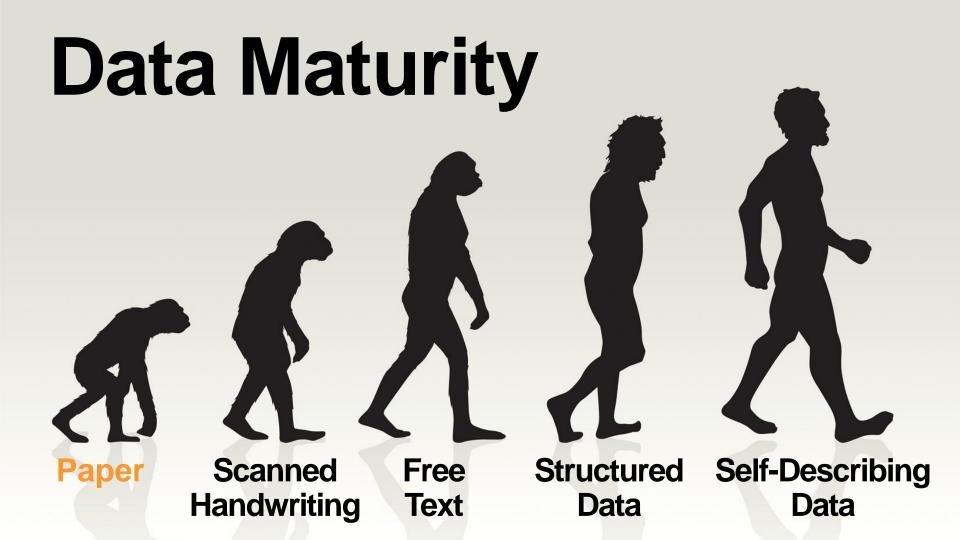


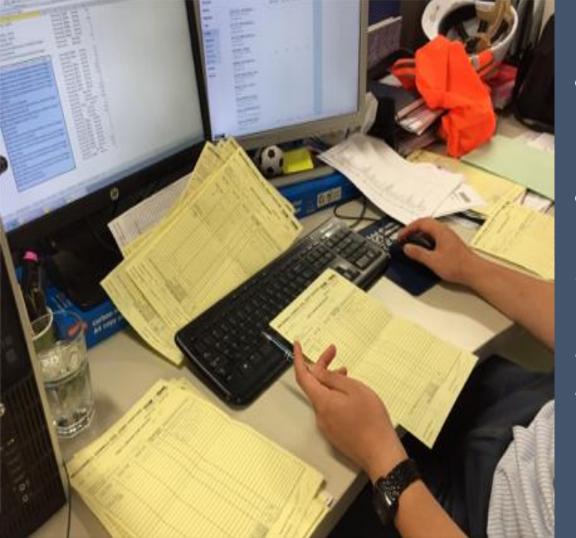




Quantity Survey (Spreadsheet)

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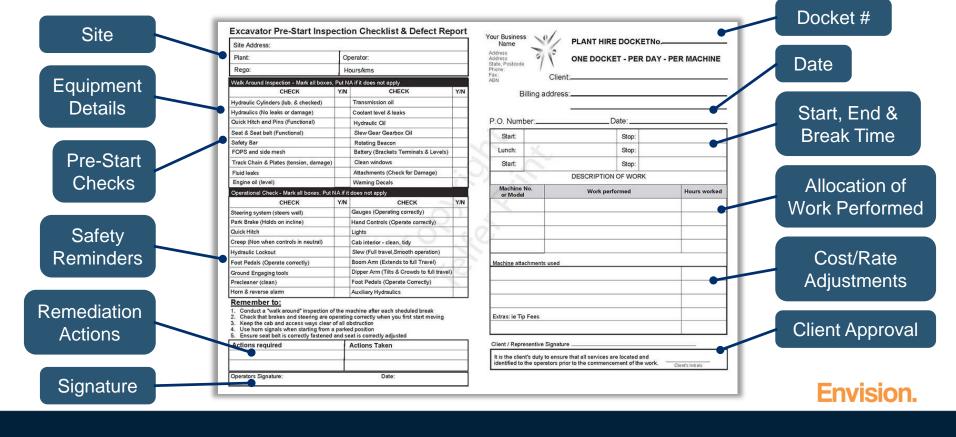




Senior Project Engineers are spending 70% of their end of month effort determining cost position and accruals.

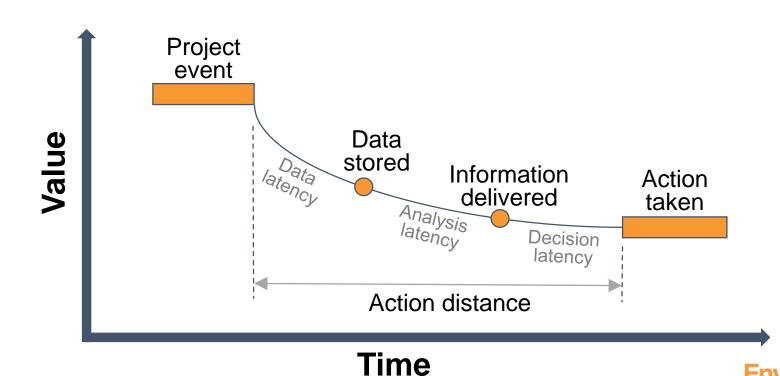
Leaving only 30% of time for forecasting and improvement planning for next month

Site Docket

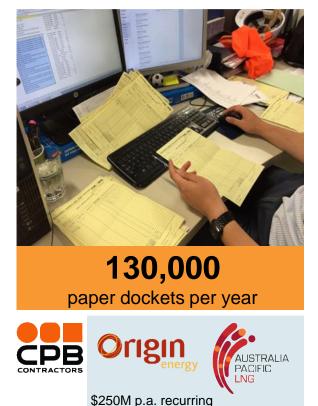




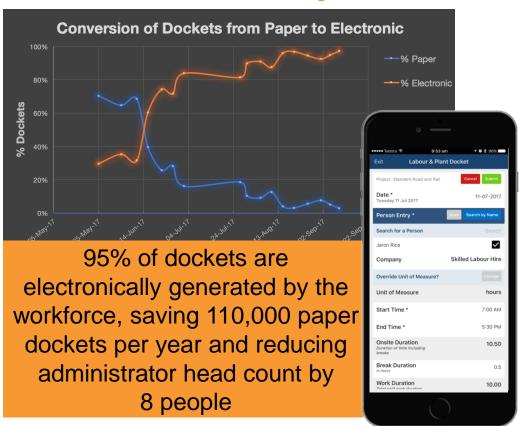
Action distance



Docket transformation case study



sustaining gas infrastructure



Docket transformation case study

"With electronic timesheets, you can reliably use the data the day after it's entered.

The old approach meant you could be making decisions on half the data – meaning poor decisions."

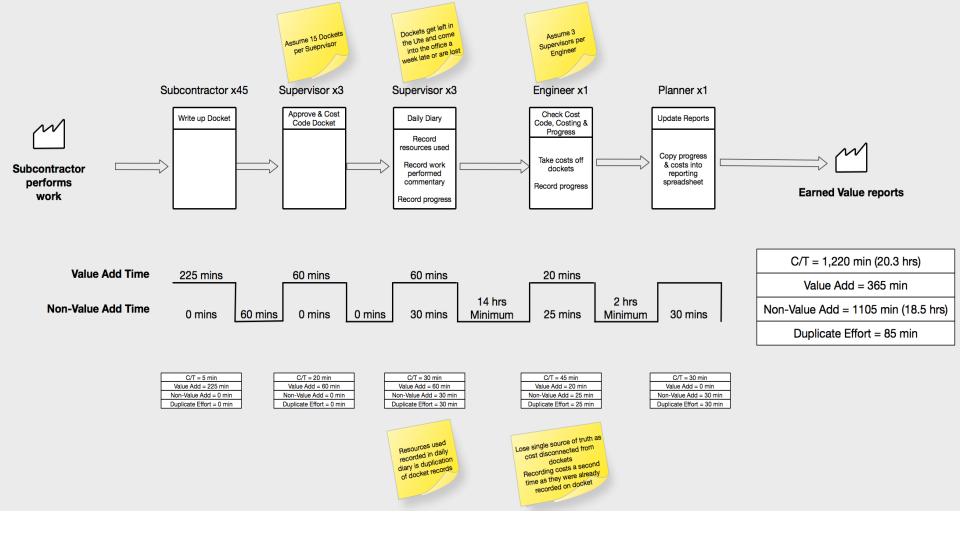
Ernie DownesProject Controls Manager

"One of the biggest issues with our industry is poor planning. This takes a task that doesn't require any planning away from the supervisor so they can really plan the day

... that planning time is priceless for understanding the job and from a safety and quality perspective."

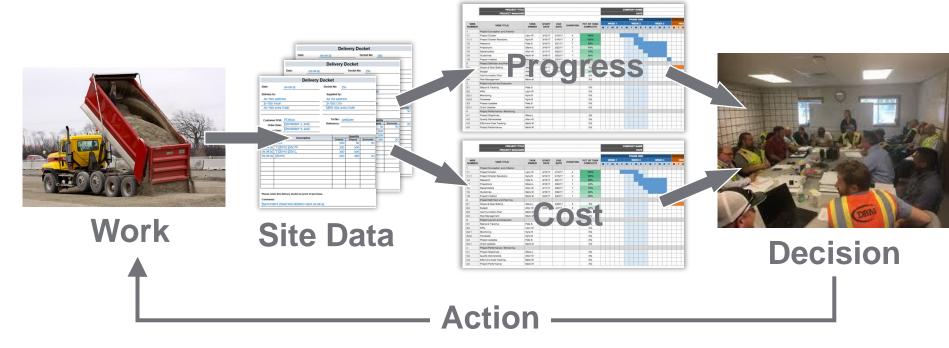
Damian PercyProject Director

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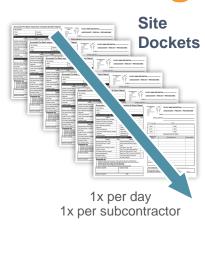
Decision making



Data growth and complexity

area)

per work





(1x spreadsheet per subcontractor)



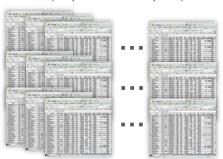
Invoices



Reconciliation

Production Tracking Sheets

(1x per work discipline)



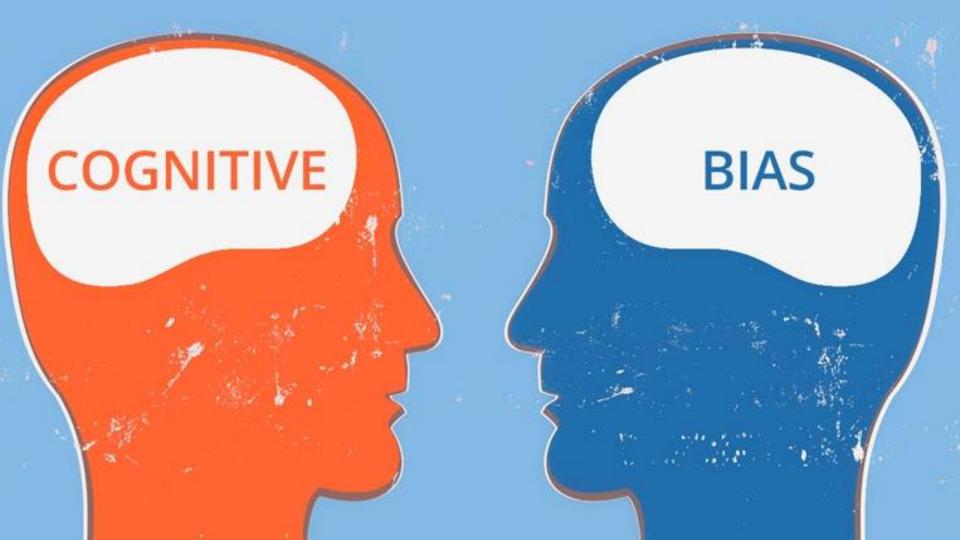
Reporting & Forecast



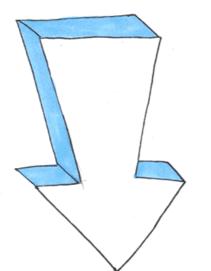
(1x per code code)

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Corporate Systems

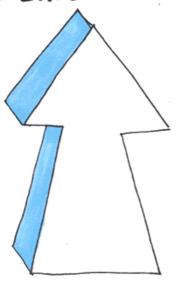


UNDERESTIMATE



how long projects will take

OVERESTIMATE



how quickly we can get things done





"Without data you're just another person with an opinion."

> W. Edwards Deming, Data Scientist







Construction data

- Better projects outcomes require better decisions
- Better decisions require better information (accurate & timely)
- Construction data is an asset technology unlocks the value

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Construction Data

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