Unlocking the Bottom Draw A LIDAR JOURNEY

Date: Luesday, 10 April 2018

Presented by: ALEX WEBSTER | Spatial Team Leader, Powercor Network Services



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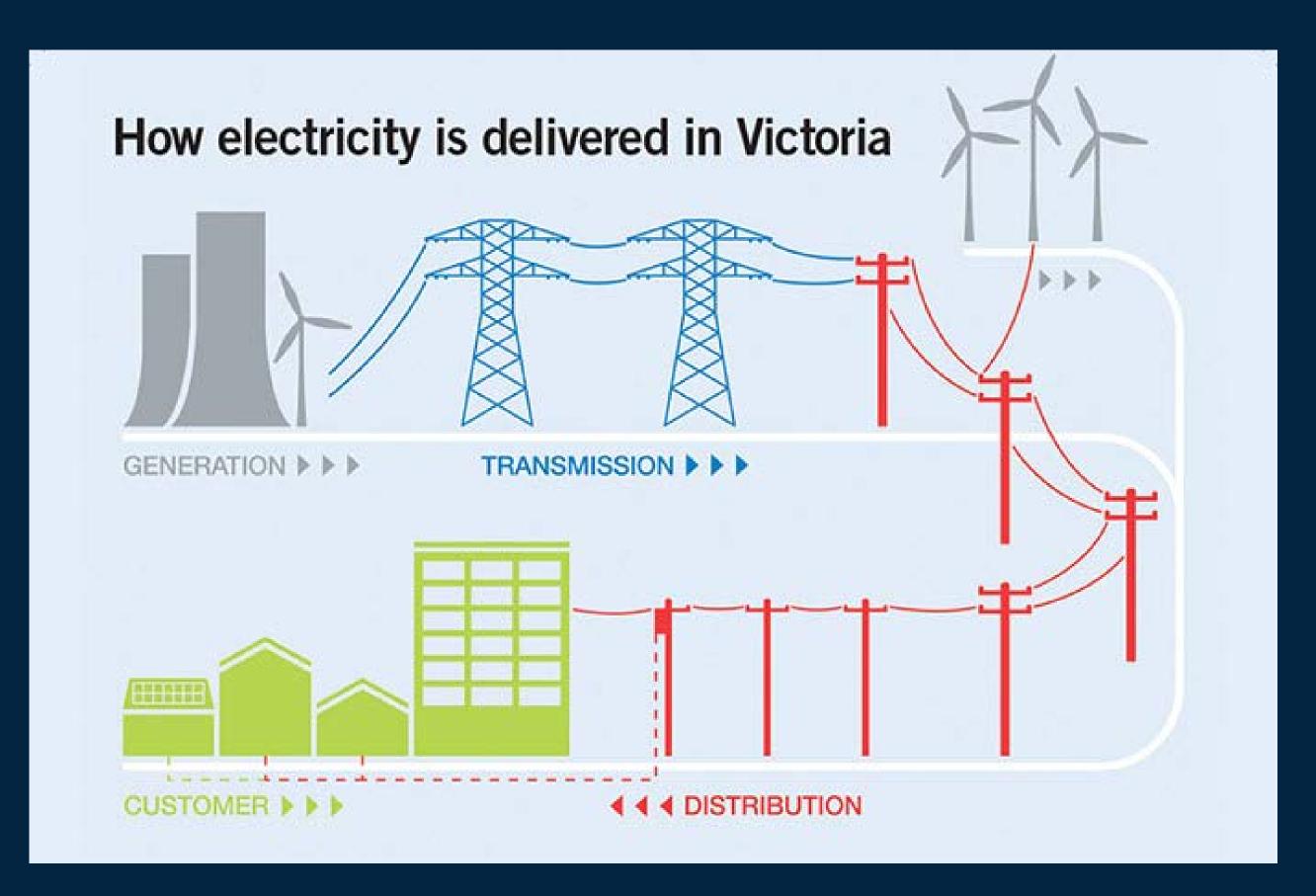


The Bottom Draw



Electricity Network







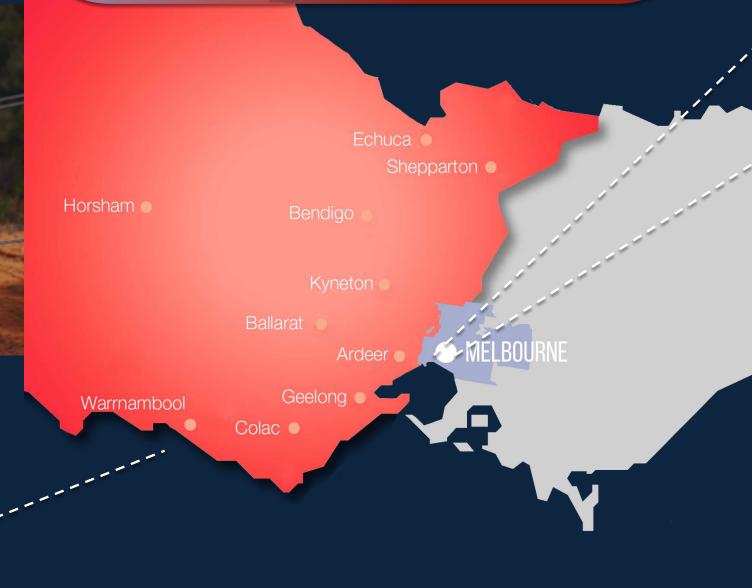




Network Statistics

Powercor

Network line length	87,178 km
Network area	145,651 sq. km
Customers	778,836
Zone substation Tx	141
Distribution Tx	84,378
Poles	566,883
Underground lines	13%







CitiPower

Network line length	7,536 km
Network area	157 sq. km
Customers	327,520
Zone substation Tx	102
Distribution Tx	4,797
Poles	58,092
Underground lines	43%







Engineering Services Design Challenges

- Ensure compliance with 50+ Technical Standards
- 150 designer across 7 offices
- 3,000 jobs per year
- Ensure standard product
- External pressures to be efficient and competitive





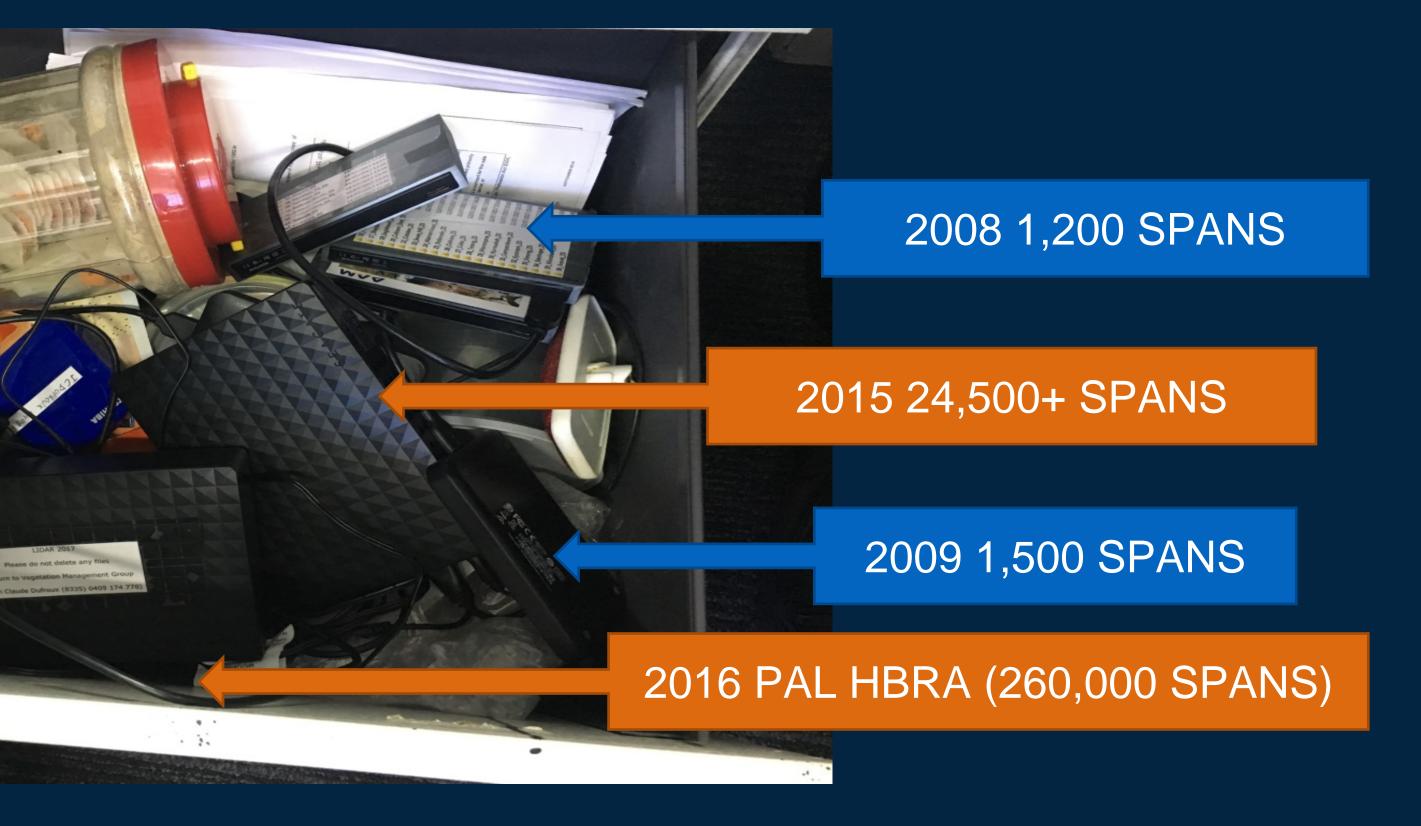
The Bottom Draw

TEA BAGS (\$1.50)

2017 PAL HBRA / LBRA (350,000 SPANS)

2010 9,000 SPANS 2011 9,498 SPANS 2012 5,333 SPANS 2013 8,913 SPANS 2014 9,000 SPANS







Adoption of Lidar

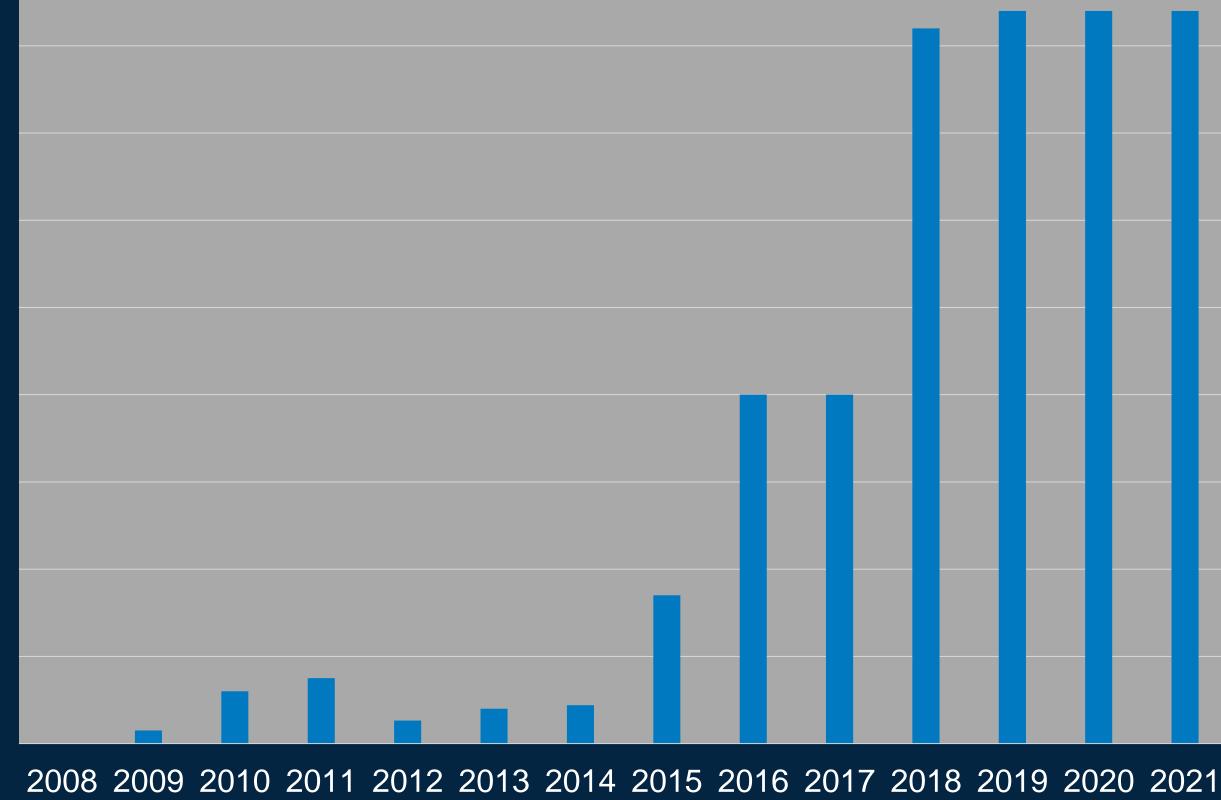
Bushfire Mitigation Program

- Vegetation Clearance
- HBRA Annual
- LBRA 2-3 Year Cycle
- VBRC Multi-circuit (HBRA / LBRA)

Engineering Services

- Substation Design
- Pit Scans
- Sag & Sway









32-34 Burwood Road, Hawth... CHED Services 34.5M



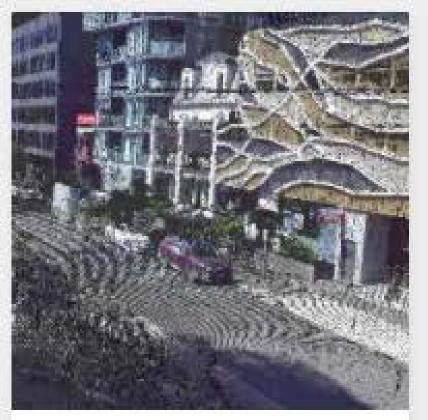
487 St Georges Road, Thornb... CHED Services 44.5M



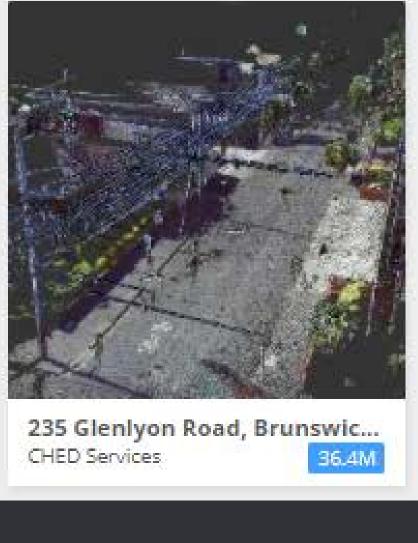
531 High Street, Prahran CHED Services 11.8M







51-59 Palmerston Crescent, S... CHED Services 24.7M



The Challenge

Coordination within large organisation Leverage existing investment Governance Raise the profile





The Approach

Better Coordination
Centralise Storage
Build Momentum

THE AIM OF CHANGING THINKING ABOUT LIDAR FROM DATA TO <u>ASSET</u>







Better Coordination



SHARED TENDERING AGREE

COFFEES



AGREED SPECIFICATIONS

SINGLE PASS CAPTURE

COMMUNICATIONS



Centralise Storage

PAST



- SINGLE PURPOSE CAPTURE
- INACCESSIBLE
- UNDISCOVERABLE ightarrow



ightarrow

- QA





STANDARD SPECS

CATALOGUED



- ENTERPRISE ACCESS ullet
- DISCOVERABLE ightarrow
- DERIVED PRODUCTS ightarrow



Build Momentum



Alex vveisses Digital Engineering leader 2w · Edited Alex Webster

Proud to be sharing one of our **#DigitalEngineering** initiatives at **CitiPower and** Powercor. While the journey has just began, the culture of embracing #Innovation is exciting. #VR #Survey #BLK360 #Leica



How CitiPower and Powercor use Virtual Reality technology youtube.com

58 Likes - 7 Comments





INTERNAL NEWSLETTERS







LUNCH & LEARN





Last week our #GP5 fleet was upgrade at all rural CitiPower and Powercor design offices. From Geelong to Mildura, Nick Pawley Maurice Borer Sam Hesper from C.R.Kennedy delivered high-accuracy cutting edge #GNSS technology vsee more

...



59 Likes - 4 Comments

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VR TOUR AT WARATAH PLACE SUBSTATION

Discover how electricity distributors, CitiPower, are using 3D modelling design software to build a new substation in Melbourne's Chinatown. Visitors are invited on a tour inside the process using CitiPower's Mobile VR (Virtual Reality) Lab and 'virtual reality goggles' using their own smartphones. The substation under construction is in Waratah Place and was first commissioned in 1937 supplying electricity to the Melbourne CBD until 2014 when it reached its 'end-of-life' stage. After being decommissioned and demolished, CitiPower are building a new modernised substation called Substation WP. Completion is expected in 2019. The new substation will improve the capacity and security of electricity supply to the Melbourne CBD and will feature a façade in keeping with the heritage listed brickwork of the original building.

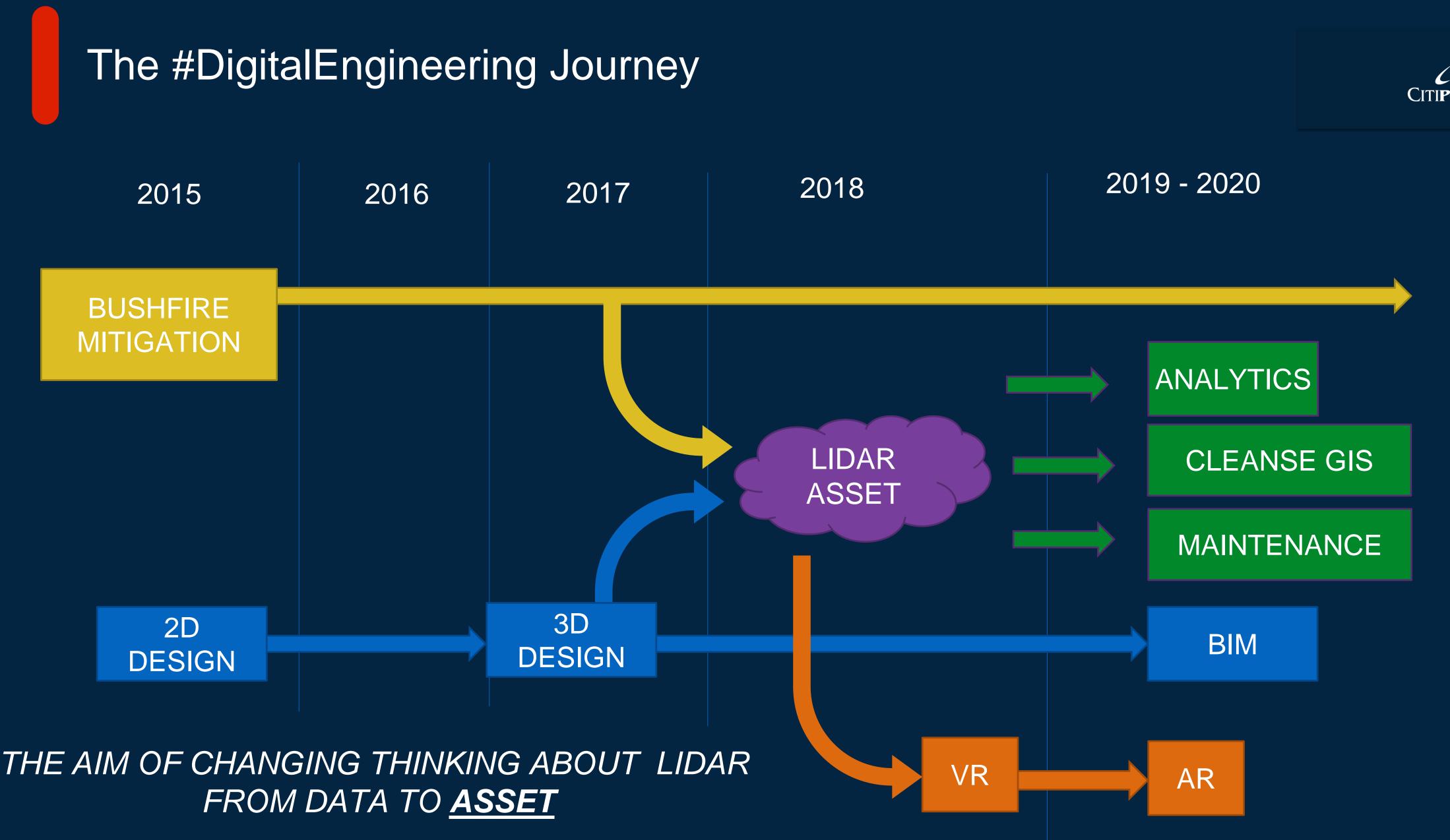
LINKEDIN POSTS

PUBLIC PRESENTATIONS



EXECUTIVE BRIEFINGS

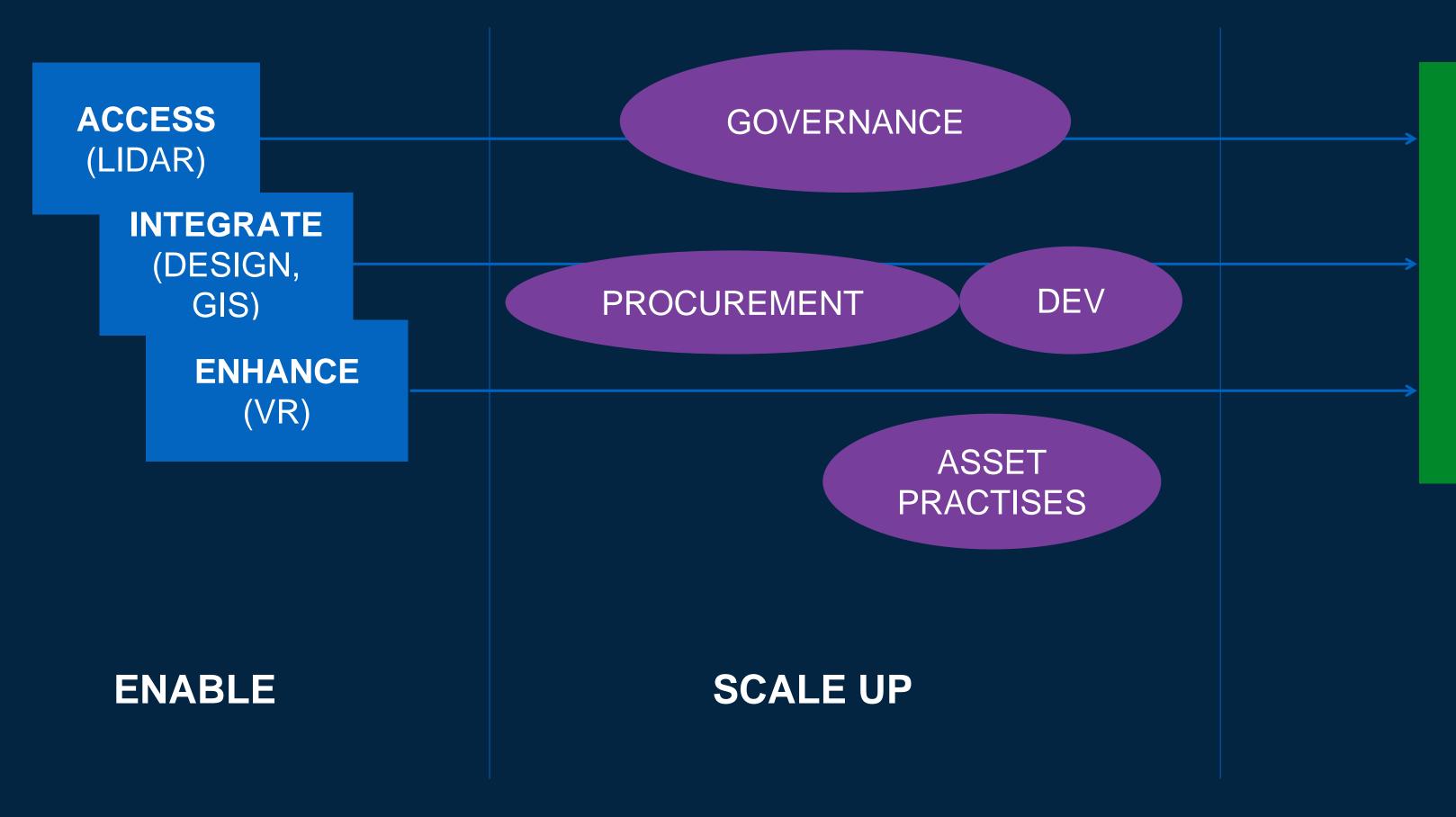








Creating a LiDAR Asset







INNOVATE









