Unlocking the Bottom Draw
A LIDAR JOURNEY

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Presented by:
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The Bottom Draw
Electricity Network

How electricity is delivered in Victoria

- Generation
- Transmission
- Distribution
- Customer
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

2008 1,200 SPANS
2009 1,500 SPANS
2015 24,500+ SPANS
2016 PAL HBRA (260,000 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
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 **ASSET**
Better Coordination

SHARED TENDERING

AGREED SPECIFICATIONS

SINGLE PASS CAPTURE

COFFEES

COMMUNICATIONS
Centralise Storage

PAST
• SINGLE PURPOSE CAPTURE
• INACCESSIBLE
• UNDISCOVERABLE

PRESENT
• STANDARD SPECS
• QA
• CATALOGUED

FUTURE
• ENTERPRISE ACCESS
• DISCOVERABLE
• DERIVED PRODUCTS

LIDAR ASSET
Build Momentum

INTERNAL NEWSLETTERS
LINKEDIN POSTS
PUBLIC PRESENTATIONS
LUNCH & LEARN
EXECUTIVE BRIEFINGS
The #DigitalEngineering Journey

THE AIM OF CHANGING THINKING ABOUT LIDAR FROM DATA TO ASSET
Creating a LiDAR Asset

ACCESS (LiDAR)

INTEGRATE (DESIGN, GIS)

ENHANCE (VR)

GOVERNANCE

PROCUREMENT

DEV

ASSET PRACTISES

VR / AR / MR

ANALYTICS

AUTOMATED

ENABLE

SCALE UP

INNOVATE
THANK YOU