

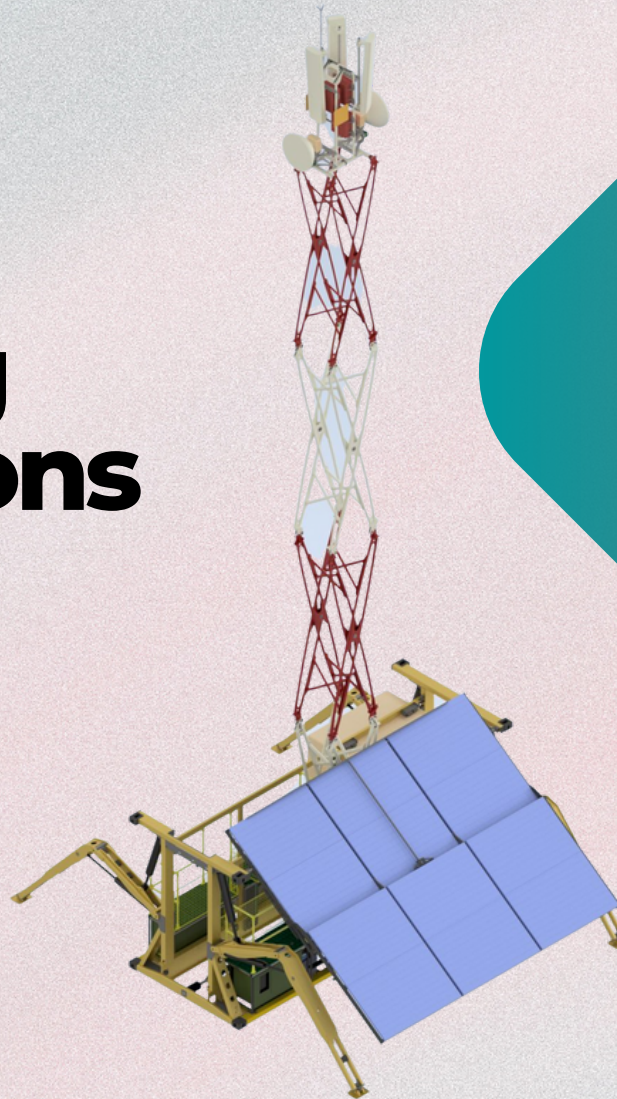
# NEXUS 16

## Self-Deploying Communications Platform

A new advanced platform of deployable communications technology



Critical Infrastructure Technology



April 2023

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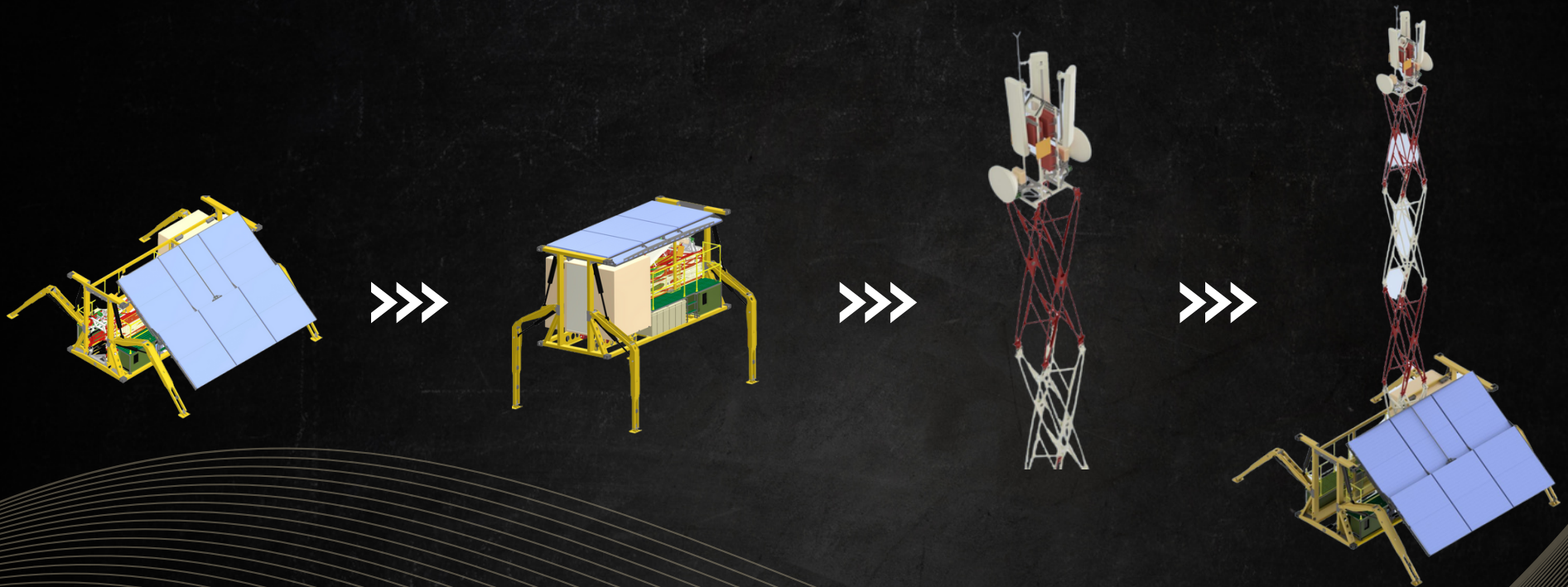
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# Leading the way

CiTech is an innovative market leader in deployable communications equipment. With a large potential client base, from mining to defence, telecommunications is rapidly growing sector – and is integral to our modern way of life



# Targeted Sectors

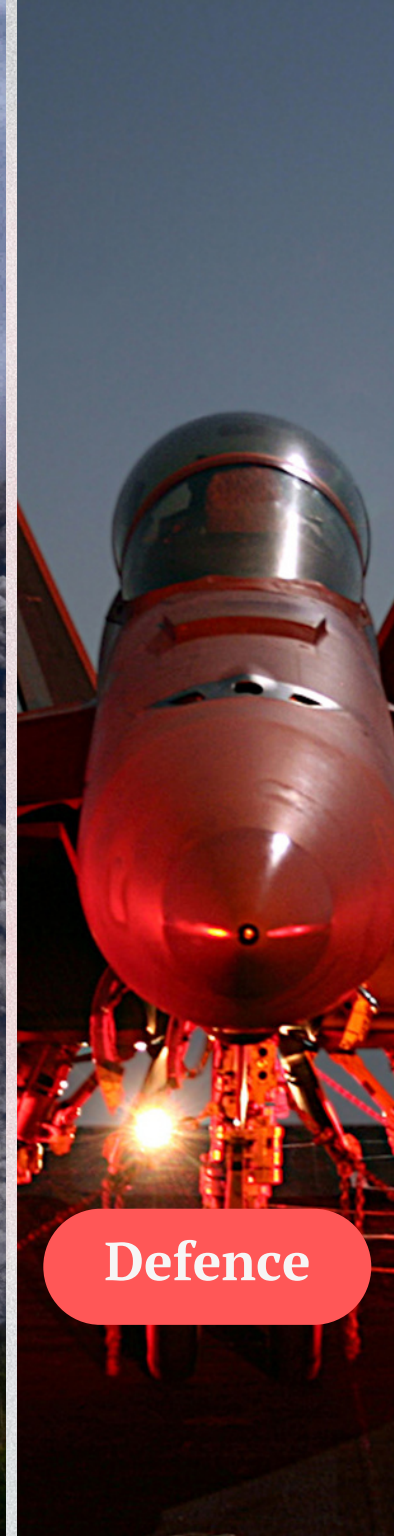
- Communications are critical for mines to operate when communications are cut – production stops, costing millions of dollars in lost production time
- During natural disasters, power is cut which means communication towers cease to operate
- The Citech NI6 is unique in its ability to provide the military with a fully self contained and rapidly deployable asset, capable of supporting a wide verity of critical equipment payloads



**Resource Sector**




**Emergency Services**



**Defence**



# Communication Guaranteed



**This is what  
sets us apart**

01

Innovative technology born out of Perth, Western Australia

02

Applicability across the resource, emergency services and defence sectors

03

Mobile telecommunications platform, self deploying, with high capacity tower

04

Patents pending for our revolutionary mast and hydraulic legs

05

Early engagement already with BHP, Rio Tinto, Fortescue, Roy Hill, Atlas Iron, Emergency Services and Defence

06

Game changing technology - vastly improving what's currently available

07

Experienced / qualified R&D team

08

Sales models: Outright sale, leasing (36 – 60 months) and short term rental

09

Excellent margins – residual income capability

10

Aggressive growth strategy – both organically and via acquisitions

# Sector Disruptive Technology



**SDP delivers a step change in capability through innovation**



**Tower - Strength and Capacity**



**Rapid Deployment and Operation**



**Fundamental improvements in operator safety**



**High-capacity solar arrays provide power autonomy**



**Feather light touch on the ground**

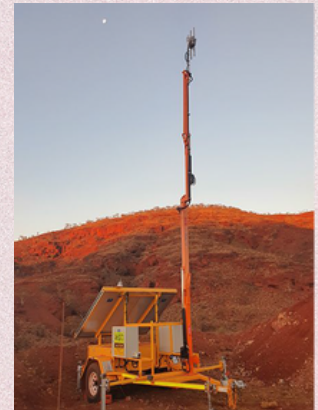


# Legacy Technology

## What we are replacing

### Small Trailer : Where Requirements Are Low

- Voice Mobile Radio – Short range / low power / low reliability
- WiMAX or WiFi with limited coverage
- Limited capability – used for non life or mission critical services.
- Small trailers are an established category supported by many Australian and international vendors



### Large Trailer : Cell on Wheels

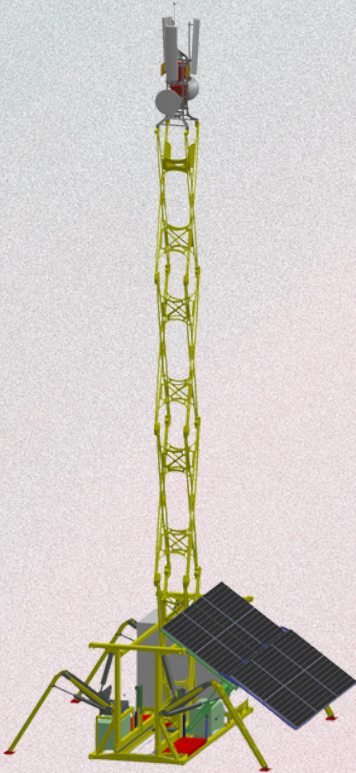
- Developed to support the higher capacity and more demanding 4G / 5G LTE deployment used by the mining sector and increasingly used by Emergency Services.
- Where the requirements are moderate:
  - 4G LTE single or three high band sectors
  - Can do multi technologies
  - Short range, moderate bandwidth, moderate power
- Category has existed for 10 years, but equipment has struggled to meet the demands of Miners and Emergency Service providers. Consequently, the product is often supplemented with auxiliary equipment (Battery racks, additional solar arrays and sometimes generators) to perform reliably
- The first generation was developed for the telecommunications carriers (Telstra) for event work and other fill-in temporary tasks in clean locations. These have proven to be unreliable in the mining environment



# Solution

## N16: Nexus 16 Self-Deploying Platform - Critical Performance Metrics

N16 has been specifically designed to resolve the limitations and failures of the previous two product groups in delivering rapidly deployable, high-capacity network infrastructure



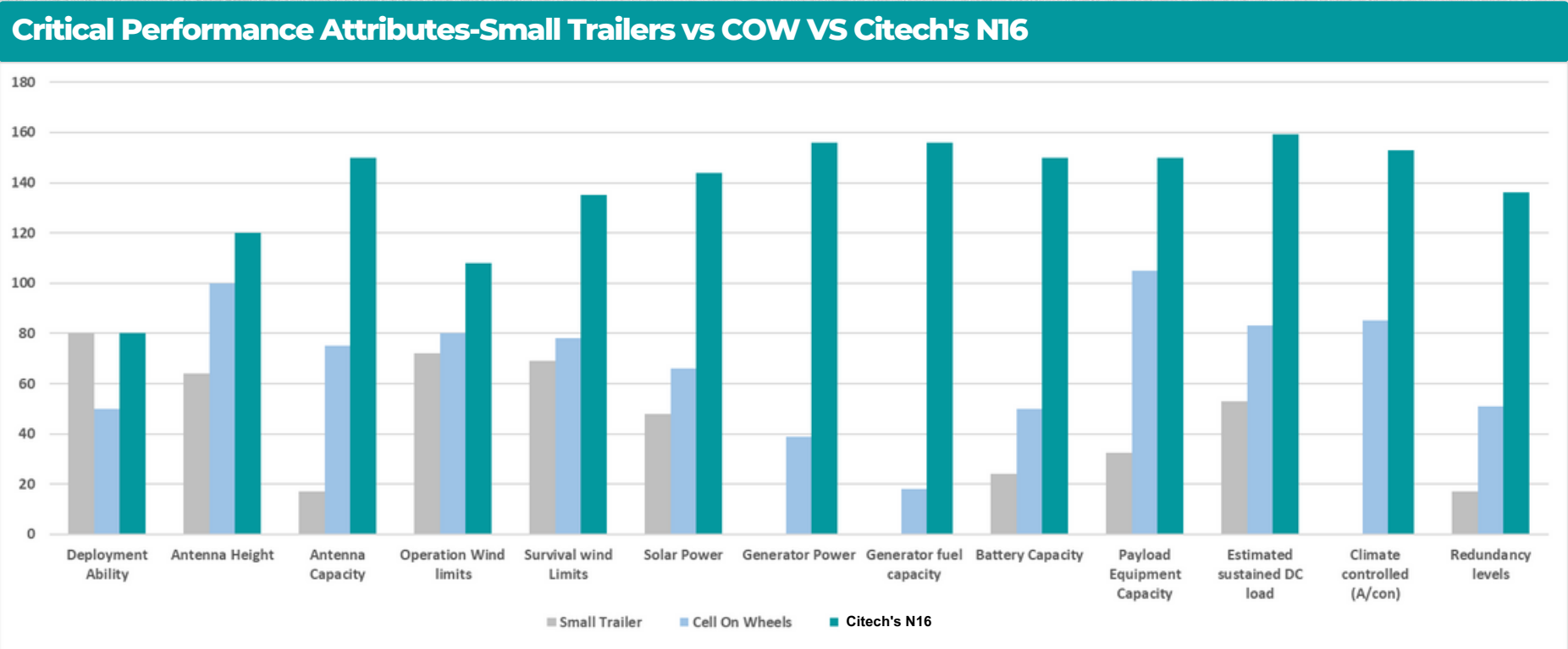
Critical Performance Attribute	Small Trailer	Cell On Wheels	Citech N16
Deployment Ability	Easy	Moderate	Moderate
Antenna Height	8m	15m	15m (18)
Antenna Capacity	35kg	150kg	300kg
Operation Wind limits	18m/s	18m/s	28m/s
Survival wind Limits	23m/s	26m/s	45m/s
Solar Power	1.6kW	2.2kW	4.8kW
Generator Power	0	3kW	2 x 6kW
Generator fuel capacity	0	140L	1200L
Battery Capacity	24kWh	24 to 50kWh	Up to 150kWh
Payload Equipment Capacity	13RU	42RU	60RU
Estimated sustained DC load	320W	500W	960W
Climate controlled (A/con)	0	5	9
Redundancy levels	0	3	8



# Solution

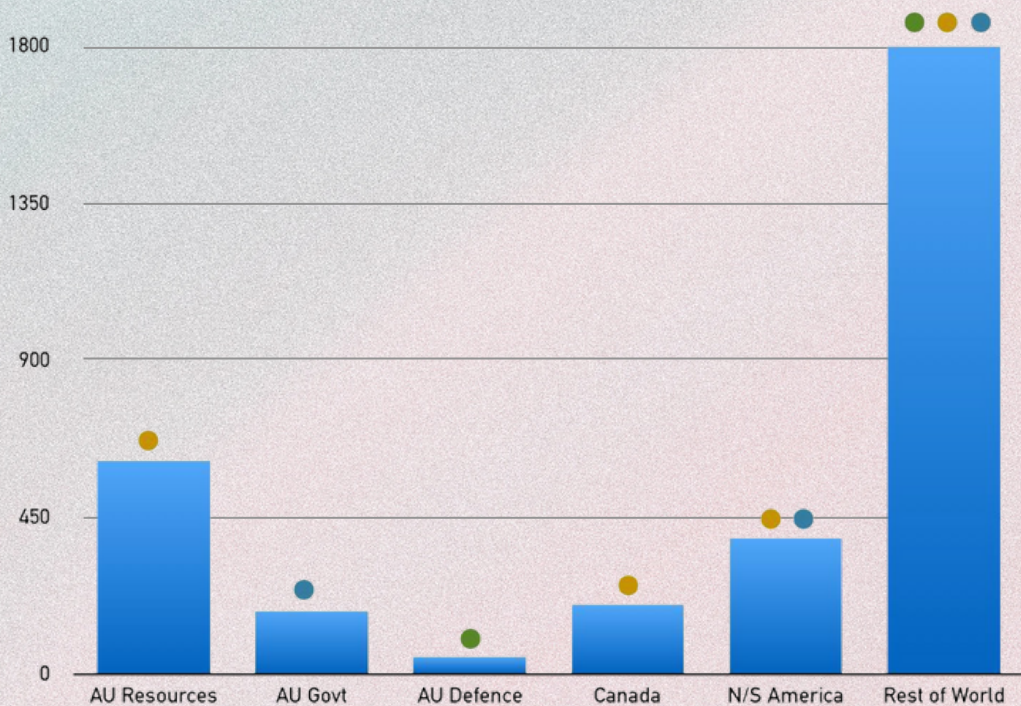
N16: Nexus 16 Self-Deploying Platform - Critical Performance Metrics

N16 beats small trailers and cell on wheels across all critical performance metrics with clear margin



# Market Size

**\$US 1.5b - Targeted**  
**\$US 3.2b+ TAM**



- Resources - Iron Ore | Gold | Lithium | Copper | Nickel | Coal
- Defence
- Government - Emergency Services | Rural Fire | Police



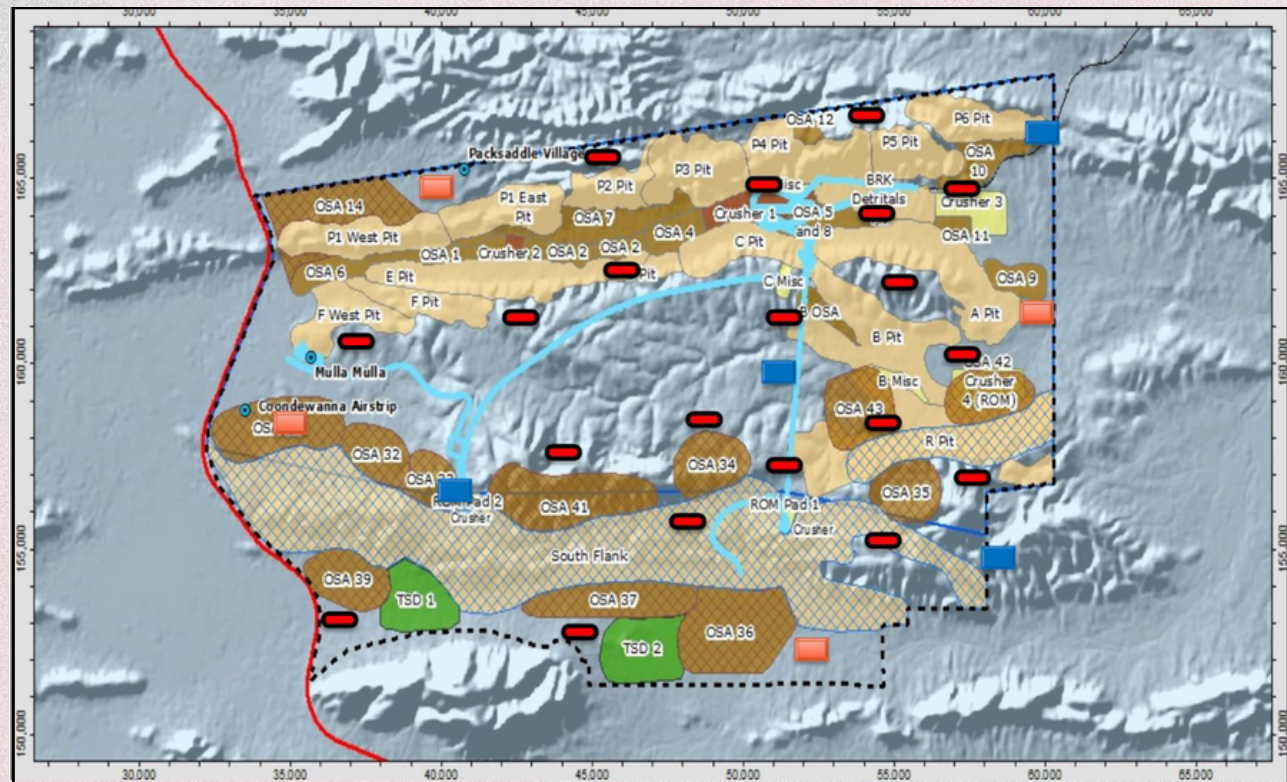
# Market Size

## Continued

### Typical Mine Site Layout

- Tier 1 - Fixed sites are positioned outside the ore bodies and are expected to last the lifetime of the mine
- Tier 2 - Skid sites are placed in locations that are not expected to be mined for 6 years and are relocated as the mine expands
- Tier 3 - Mobile sites are positioned around the pits as they expand
- Moved every few weeks to few months

- 4 x T1 - Fixed Sites
- 4 x T2 - Fixed Skid Sites
- 20 x T3 - Mobile Sites (SDP)



# Board of Directors



**Chairman: Imants Kins**

- Bachelor of Economics (University of Western Australia)
- Master of Arts – Futures Studies (Curtin University)
- Extensive experience at a senior level in Government (including advising ministers) and the private sector, as senior manager and corporate economist
- Currently a Director of a number of Australian Securities Exchange listed companies



**Director/CEO : Brenton Scott**

- Bachelor of Business (Accounting and Economics) – Curtin University
- Chartered Accountant – Australia/NZ
- Previously a partner in Walker Wayland, Chartered Accountants
- Extensive experience in equity markets, capital raising and public company auditing
- 30 year career encompassing accounting, child care, financial services and marine industries



**Director/COO: Andrew Hill**

- Electronics Engineer
- 35 year career in resource sector product development and business leadership
- Extensive experience in technology sales and product marketing
- Proven ability to recruit and develop talented and high performing teams



**Director/CFO: Eugene Hodgson**

- Bachelor of Arts – Political Science (University of Calgary)
- 30 years experience as a Senior Executive, including CFO and Corporate Secretary roles
- Public policy and Government relations advisor – worked for the BC and NWT Governments
- Currently a Director, CFO and Corporate Secretary for a number of TSX and CSE listed companies



**Director: Rich Paolone**

- Bachelor of Arts (Mount Royal University of Calgary)
- Juris Doctor (JD) – Bond University, Queensland, Australia)
- Toronto based Securities Lawyer, operating in private practice, experienced in public companies, capital markets, mergers and acquisitions
- Currently a Director and CEO of a number of private and reporting companies with Director/CEO roles previously with TSX and CSE listed companies

# Team Leaders

## Rodney Loudon: SDP Development Manager

BEng(Electronics & Communications)(Hons) + BSc(Computer Science) from Curtin University of Technology M. Cyber Security (ANU)

- 15 year career in resource sector engineering, project management and field services
- Extensive experienced in rail safety systems and critical communications
- Deep understanding of resource sector compliance and safety protocols



## Greg Taylor: Production and Field Engineer

- Electronics, Software and Communications Engineer
- 30 years field services management including remote monitoring and control software systems
- Production NPI and production engineering / optimisation
- Expertise in MRP, ERP and other production systems



## Mornay Gouws: Automation Systems Engineer

- Electronics Engineer
- 15 year career in test / measurement, control systems and automation
- PLC programming, embedded software and hardware system design, build and test.
- Extensive experienced in resource sector control, power systems and telemetry software



## John Jacob: Mechanical Engineer

- B.Sc Physics, M.Sc. Mechanical Engineering
- 35 years experience in Research and Development.
- Specialist in machine & systems dynamics, structural engineering, fluid dynamics & systems, thermodynamics, material science (metals, plastics & composites), chemical engineering, engineering mathematics, numerical analysis, control systems



# Managers & Engineers

## Jay Ellis: Workshop / Warehouse Manager

- Plumbing, gas and pipefitting licensed tradesman
- 12-year career in construction, management, logistics, industrial pipefitting
- Extensive experienced in industrial pipefitting including hydraulics and HVAC



## Andrew Ford: Lead Mechanical Design Engineer

- BEng Mechanical(Hons)
- Deep knowledge of CAD and CAE packages including Solidworks and Inventor
- Represented Australia in Tokyo Olympics



## Theo Lotter: Mechanical Engineer

- Dip Mech Eng. With 18 years experience in product design, team management and volume production processes
- Extensive experience in mobile infrastructure products specifically designed for harsh environments.
- Highly skilled in Engineering CAE and CAD tools



## Alexander Freeman: Mechanical Engineer

- Undergraduate: BEng Mechanical Curtin University
- Extensive involvement in the Curtin Motor sports team developing the latest generation hybrid vehicles.
- High levels of competency with the modern drafting and CAE tools (Solidworks, Ricardo, and FEA modelling of complex parts)



# Business Model

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**01**

## Outright Sale

Sales Price: \$795,000 (base model)

**02**

## Lease

- Monthly lease \$25,000
- 60 month term
- Amortised Monthly Cost: \$5,750
  - Provides exceptional returns.
  - Ties the customer to CITECH.
  - Preferred by Resource sector

**03**

## Rental

Short Term: Approximately \$2,000 per day

## Growth Plan

- Initial focus on Australian resource sector – its our backyard and we are well connected within the industry
- Sales pipeline build has commenced with all of the major mining companies, Government and Defence sectors engaged. Discussions with a major resources sector operator are well advanced.
- Early engagement with State Governments re Emergency Services – our NI6 is critical to restore comm's during natural disasters like fire, floods, cyclones etc.
- Build relationships with Defence companies already entrenched in that sector such as Electro Optic Systems (EOS)
- International expansion – North America followed by South America and Africa
- Strategic acquisitions – a number of which have already been sourced



# Lets Connect



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