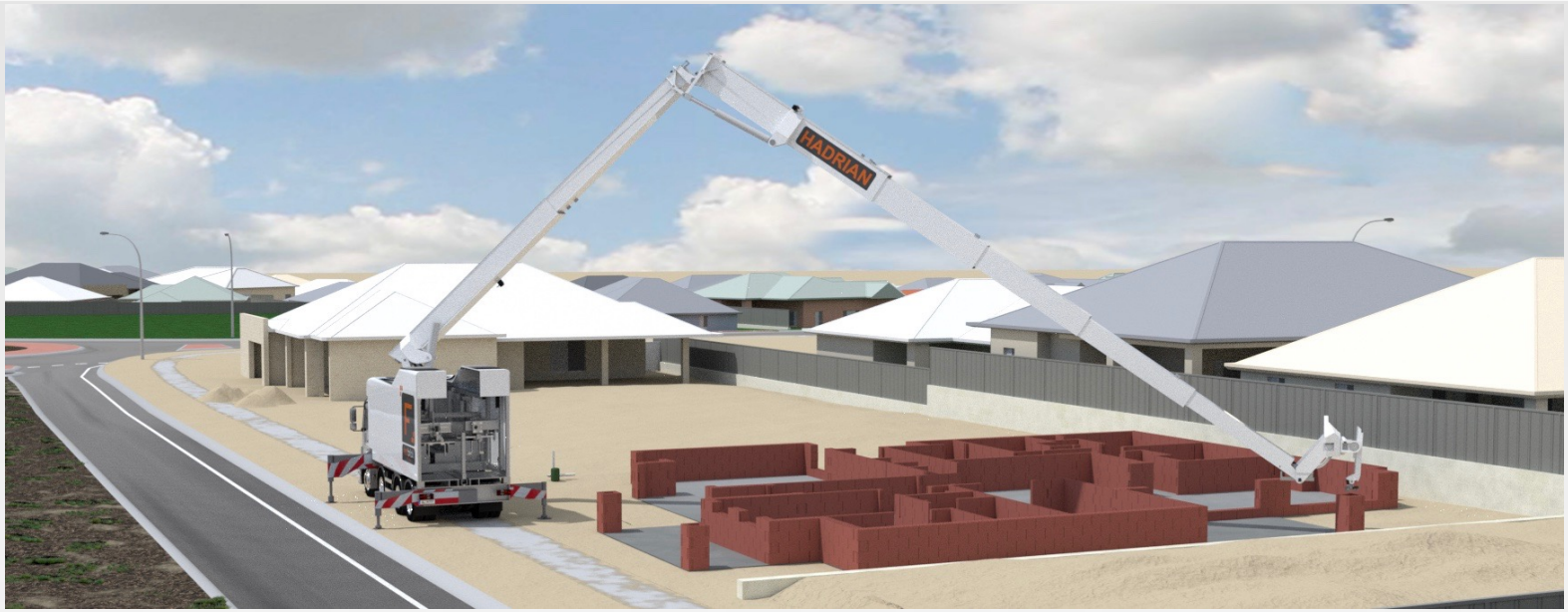
Fastbrick Robotics Limited (ASX:FBR)

Investor Presentation, July 2017



A World First Digital Construction Solution



Fastbrick Robotics Limited (ASX:FBR) is an Australian robotic technology company developing and commercialising digital construction technology solutions. Fastbrick Robotics' revolutionary bricklaying machine Hadrian X represents the first application of the Company's underlying intellectual property portfolio. Hadrian X is a globally patented 3D robotic bricklaying system and marks the transition to dynamically stabilised robots (DRS) operating outdoors in uncontrolled environments.

Fastbrick Robotics: Corporate Overview



Board of Directors	
Mike Pivac	Exec. Director
Mark Pivac	Exec. Director
Shannon Robinson	Non-Exec. Chair
Gabriel Chiappini	Non-Exec. Director

Capital Structure	ASX.FBR
Shares[1]	791.05m
Options[2]	77.6m
Performance Securities	520.7m
Cash (31-Mar-17)	$9.9m
Market Cap. ($0.18)	$142.4m

Notes

1. Includes 127.0m shares escrowed until 12-Nov-17.
2. Includes 75m options exercisable at $0.02, expiring 12-Nov-17, and 2.6m options exercisable at $0.08, expiring on 18-Sep-18.
3. Includes 500.0m Performance Shares vesting evenly across the following milestones.
   Performance Share Milestones
   Class A: Successful demonstration of the company's robotic building technology through construction of a 3 bedroom, 2 bathroom home structure;
   Class B: Construction of 10th home structure under commercial contract; and
   Class C: Annual operating revenue of at least $10m.

Fastbrick Robotics: Executive Team



Michael Pivac, Executive Director & Chief Executive Officer
Michael Pivac is a former airborne mission systems specialist with broad experience in night vision, infrared and radar detection systems and has been key to developing the technology and developing the Business Plan and Machine Development Strategy.



Mark Pivac, Executive Director & Chief Technology Officer
Mark Pivac is the primary inventor of Fastbrick's mobile robotic construction technology. He is an aeronautical and mechanical engineer with over 25 years' experience working on the development of high technology equipment and 20 years' experience of pro/engineer 3D computer-aided design (CAD) Software.



Marcus Gracey, Chief Operating Officer
Marcus is an experienced ASX company executive, corporate and technology lawyer and a Chartered Company Secretary. Prior to joining Fastbrick, Marcus acted as a Senior Legal Counsel with NYSE listed Newmont Mining Corporation. Other previous experience includes COO of iPernica Ltd. Marcus is responsible for Operations, IP Commercialistion and Business Development.

Fastbrick: Leading An Industry Revolution



Mark Pivac & Mike Pivac in Perth

Fastbrick Robotics is committed to improving the safety, speed, accuracy, cost and waste management in the global construction industry through utilising the world's latest innovations in mobile robotic technology.

Fastbrick Robotics is now building the Hadrian X commercial prototype. Delivery of the first commercial prototype Hadrian X is expected in 2017.

Hadrian X: The Bricklaying Robot

This has never been done before

Construction of Hadrian X is history in the making

We will revolutionise the global construction industry



Hadrian X: The Game Changer



The Hadrian X bricklaying robot

Hadrian X executes the automatic loading, cutting, routing & placement of all bricks to build a house

The first globally patented 3D robotic end-to-end bricklaying system

Unique Intellectual Property

New levels of speed, accuracy, safety, cost & waste management

Validated by leading construction & machine manufacturing companies

Revolutionising the construction industry & changing the way we build

Streamlining construction

Hadrian X: The Game Changer



Hadrian X requires minimal human interaction and works day and night

Design capability of up to 1,000 bricks per hour, truck mounted and self-powered

Universal brick compatibility up to 500mm x 250mm x 250mm

30m robotic arm allows completion of all brickwork from a single position on site

Omni-track laser alignment system corrects dynamic interference and vibration to within 0.5mm accuracy of computer-aided design (CAD) design

Hadrian X will maximize efficiency and affordability of brick construction with efficient software called **The Architectural Designer [TAD]**

Fastbrick Robotics: Latest Update

- ✓ **Construction of Hadrian X commercial prototype continues to advance in line with expectation**
- ✓ **On-track to deliver of first commercial prototype in CY17**
- ✓ **Global marketing strategy generates significant interest with potential partners and end users**
- ✓ **Continuing to advance discussions for a global partnering agreement for the sale, distribution, licencing and/or manufacturing of Hadrian X**
- ✓ **Intellectual property portfolio strengthened through three additional provisional patents**



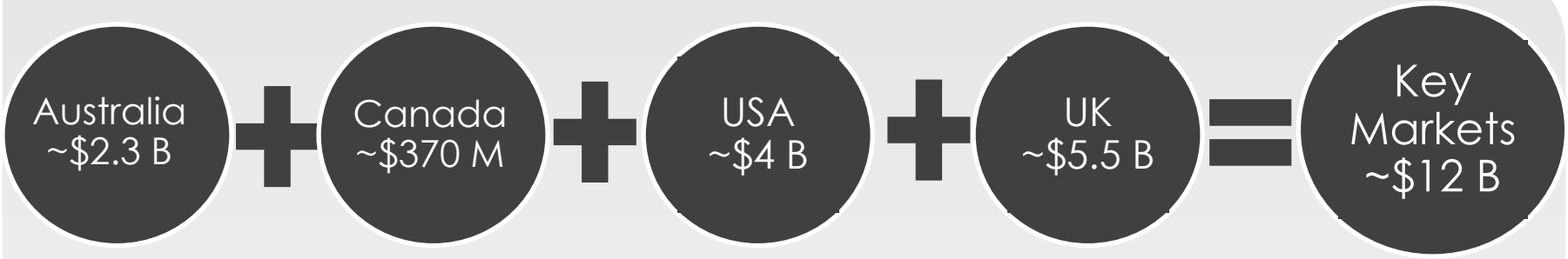
Hadrian X: The Global Opportunity

The Global Addressable Market for the Hadrian X is estimated to be **$100 to $200 billion**

Independent Report from BDO Consulting



Hadrian X: Priority International Markets



Most attractive markets Australia, Canada, USA and UK with a total addressable market of around $12 billion

Competitive advantages created through market inefficiencies including:
Labour shortages
Time sensitivities due to climate
Human error and inaccuracy
High material and labour costs = higher bricklaying margins
Stringent Occupational Health & Safety regulation

Favourable factors including language, government, currency and popularity of bricks in construction

Development Achievements: 2016-17

BUILDING THE FASTBRICK ROBOTICS TEAM

FBR team expands to include, Chief Operating Officer, Engineering Manager, Mechanical Engineers, Mechatronic Engineers, Software, Vision Systems, Simulation Specialists and Administration Manager



PROOF OF CONCEPT DEMONSTRATION

- ✓ Room built from CAD design 1.6m(w) x 2.4m(l) x 2.4m(h)
- ✓ 330 maxi bricks (Equivalent to 2.2 standard bricks)
- ✓ Bricklaying rate ~200 standard bricks per hour

HADRIAN X CONSTRUCTION MILESTONES

Animations & imagery completed and released to market
Commercial prototype construction commences
Proprietary 3D CAD software unveiled: TAD (The Architectural Designer)

Commercial Achievements: 2017

MEMORDANDUM OF UNDERSTANDING

CATERPILLAR INC. | Highlights

- Fastbrick Robotics signs Memorandum of Understanding (MOU) with Caterpillar Inc (NYSE:CAT)
- MOU is for collaboration between Caterpillar and Fastbrick Robotics in relation to Fastbrick's Robotic bricklaying technology
- Fastbrick welcomes Caterpillar to its share register with an investment of USD$2 million via placement
- Caterpillar will, subject to Fastbrick shareholder approval, have an option to invest a further USD$8 million

Fastbrick Robotics Limited (ASX: FBR) ("Fastbrick Robotics"), has entered into a Memorandum of Understanding ("MOU") with Caterpillar Inc. (NYSE: CAT) to discuss and develop a potential framework for collaboration regarding the development, manufacturing, sales, and services of Fastbrick Robotics' robotic bricklaying technology ("FBR Technology"). The MOU also establishes a strategic alliance board with representatives from both companies that intends to develop that framework and consider how best to offer this FBR Technology to Caterpillar's construction customers.

Commercial Achievements: 2017

- (Cont) The board will also consider the most appropriate and most profitable business models to apply in each country, state and region.
- The MOU has an initial 12-month term, which may be either extended by mutual written agreement or terminated by either party at any time. Fastbrick Robotics has also agreed to deal exclusively with Caterpillar for the development and potential commercialisation of the FBR Technology during the term of the MOU.
- Simultaneous with the signing of the MOU, Caterpillar, through a wholly owned subsidiary, is investing USD$2 million in Fastbrick Robotics via a placement, which is being undertaken in accordance with the terms of a placement agreement. Pursuant to the placement agreement, Fastbrick Robotics will issue fully paid ordinary shares to Caterpillar at an issue price of $0.10 AUD per share.
- Subject to approval by Fastbrick Robotics shareholders, Caterpillar, through that wholly owned subsidiary, also will have an option to invest a further USD$8 million in Fastbrick Robotics at an issue price of $0.20 AUD per share. Fastbrick Robotics intends to seek that shareholder approval within 60 days.
- **Fastbrick Robotics Managing Director Mike Pivac:** "Fastbrick Robotics is delighted to sign a MOU with Caterpillar and welcomes the company as a new shareholder. Caterpillar is a globally recognised industry leader, and we look forward to collaborating with the company and uniting our teams to share ideas, pursue innovation and explore opportunities to commercialise our unique technology."

Fastbrick Robotics: 2017 Priorities

COMMERCIALISATION PARTNERSHIPS

- **Strategic Partnerships:** Progressed ongoing discussions with major global equipment manufacturer Caterpillar Inc. and established a MOU and strategic partnership for the commercialisation of Fastbrick's technology
- **Distribution Partnerships**: Continue to build existing commercial relationships and secure machine offtake and distribution agreements in US, UK and South East Asia.

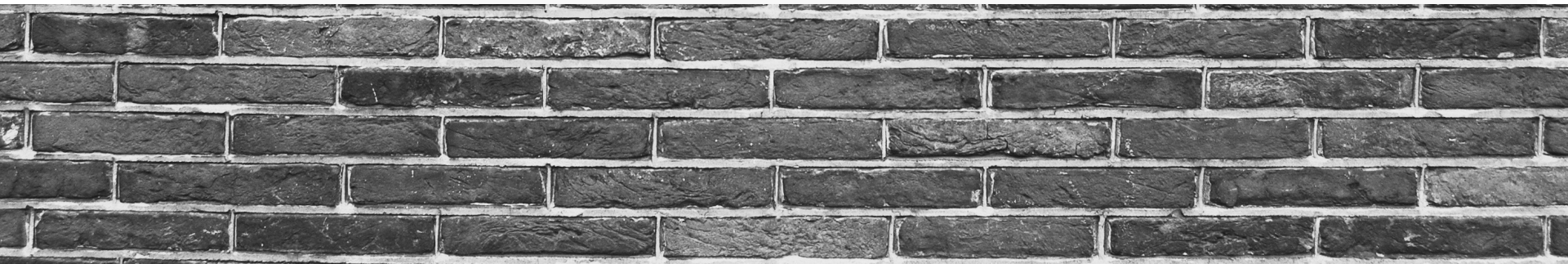
HADRIAN X

- Complete assembly of the Hadrian X commercial prototype
- Undertake factory testing and site acceptance testing
- Successful demonstration of Hadrian X commercial prototype
- Prepare Hadrian X for mass manufacture

CORPORATE Fully funded to 2019 ~$9.9m cash (31-Mar-17)

The Future: Leading An Industry Revolution

- World's **latest innovation** in mobile robotic construction technology
- **International patents** secure competitive position
- Development of Hadrian X robotic bricklayer **fully funded** and on-track for delivery in CY2017
- Stand-alone architectural design tool developed, TAD
- Addressable global market of up to **$200 billion** for Hadrian X
- **Competitive advantage**: Time, cost, quality & safety
- Technical & operational **expertise in place** for commercialisation
- Support secured from **governments & major industry partners**
- **Opportunity:** MOU and direct investment from **Caterpillar Inc.** to further unlock the potential of Fastbrick's underlying technology



Fastbrick Robotics: Join The Revolution

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