

FBR Limited Corporate Presentation

June 2019



Unparalleled robotic technology



FBR Limited (**ASX:FBR**)

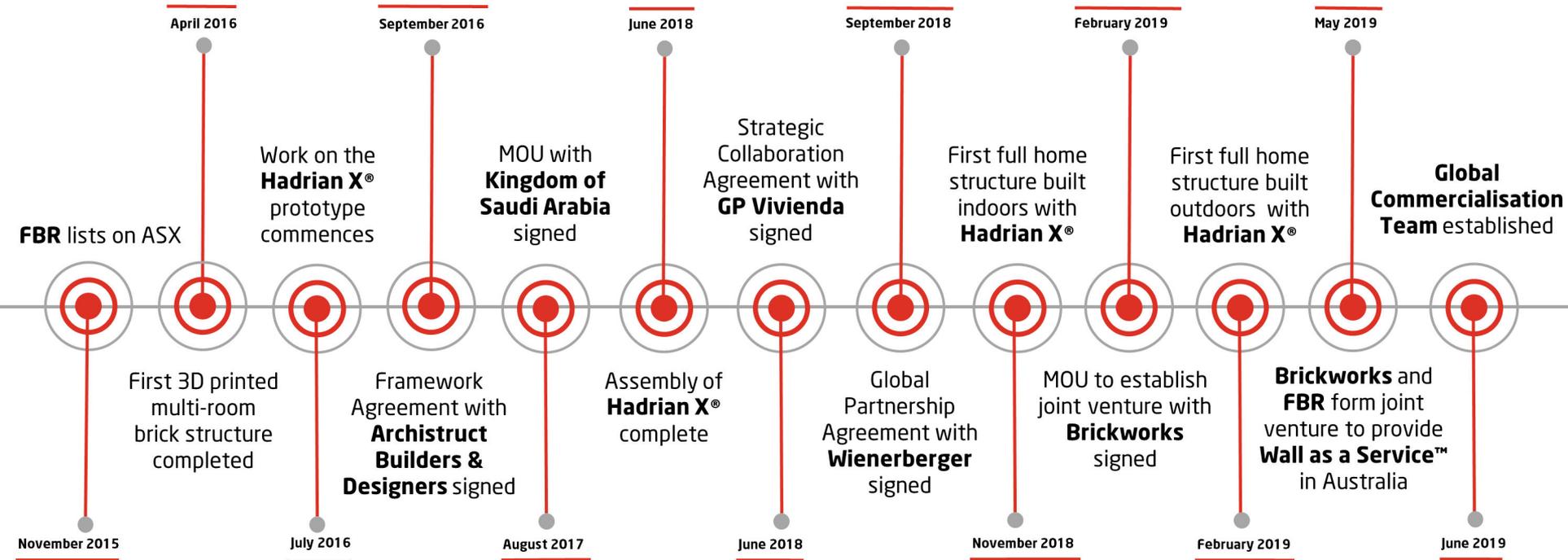
Core IP is Dynamic Stabilisation Technology™ (DST™), enabling precision robotics in large scale outdoor applications

Disrupting the construction sector with transformational robotic solutions

First demonstrated product is the revolutionary **Hadrian X® construction robot**, a globally patented 3D robotic blocklaying system



FBR's journey since IPO



Key achievements of the last 12 months

- ✓ Completed assembly of two Hadrian X[®] robots after 12 months of design and procurement
- ✓ Signed Strategic Collaboration Agreement with GP Vivienda, giving pathway into North America
- ✓ Demonstrated the capability of DST[™] in indoor stabilisation test
- ✓ Established local presence in the United States and Dubai to generate further commercial opportunities
- ✓ Signed Global Partnership Agreement with European blockmaking giant Wienerberger
- ✓ Commenced discussions with Wienerberger on development of a clay block designed specially for Hadrian X[®]
- ✓ Completed Factory Acceptance Testing and announced Hadrian X[®] as fully operational
- ✓ Completed first indoor build of full scale house structure in under three days by prospectus milestone date
- ✓ Completed first outdoor build of a full scale house in real world conditions including strong wind and extreme heat
- ✓ Signed binding JV agreement with Brickworks and established the world's first Wall as a Service[™] operating entity, Fastbrick Australia Pty Ltd
- ✓ Implemented new corporate structure with Global Commercialisation Team established and Simon Amos appointed CEO Australia



Construction industry challenges

Challenge

Hadrian X® Solution



Building an average house generates **17 cubic metres of waste** (which has both significant financial and environmental costs and is mostly attributable to errors and over-ordering).



Hadrian X® builds from a **3D CAD model** with an **exact bill of materials**, producing far **less waste** than traditional construction methods.



Houses in Australia are **delivered 30 days late** on average



Hadrian X® is capable of **building** the walls of a house **in as little as a day**, with **full transparency** of the project plan before commencement.



35 construction workers are **seriously injured** each day in Australia.



Hadrian X® presents **end-to-end solution**, making construction sites far **safer**.



Hadrian X[®] advantage over traditional construction methods

- End-to-end handling and placement of block products
- DST™ corrects for dynamic interference and vibration in real time allowing for outdoor construction
- Automatic handling, cutting and digital placement for all blocks used to construct a house
- Designed and engineered to enable multiple distributed global contract module/component manufacturers
- Improved safety, speed, accuracy and waste leads to reduced cost
- Unique product and service offering that will change the way the world builds



Hadrian X[®] completed first outdoor build in real world conditions

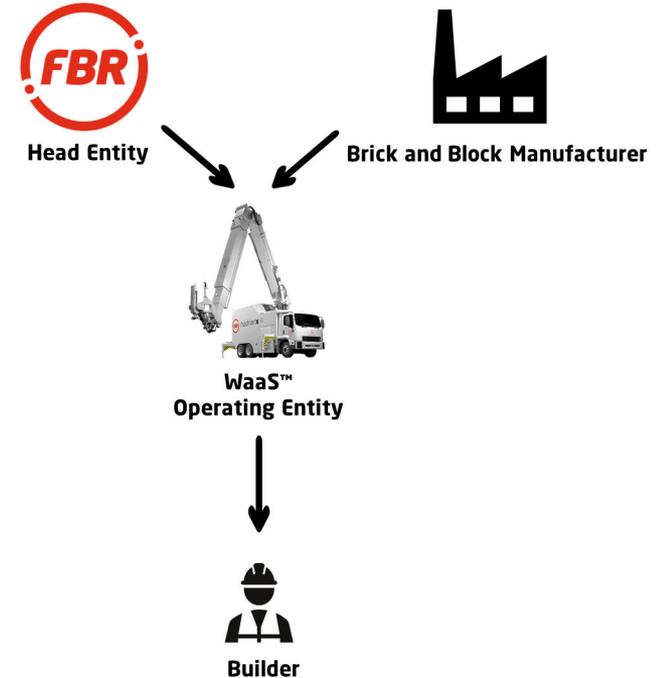


- The Hadrian X[®] completed its first outdoor build of a three bedroom, two bathroom home structure in February 2019
- This followed the first build of a full home structure indoors in under three days in November 2018
- Having proven the technology and capability of the Hadrian X[®], FBR's team is now focused on optimising Hadrian X[®]'s speed, reliability and accuracy

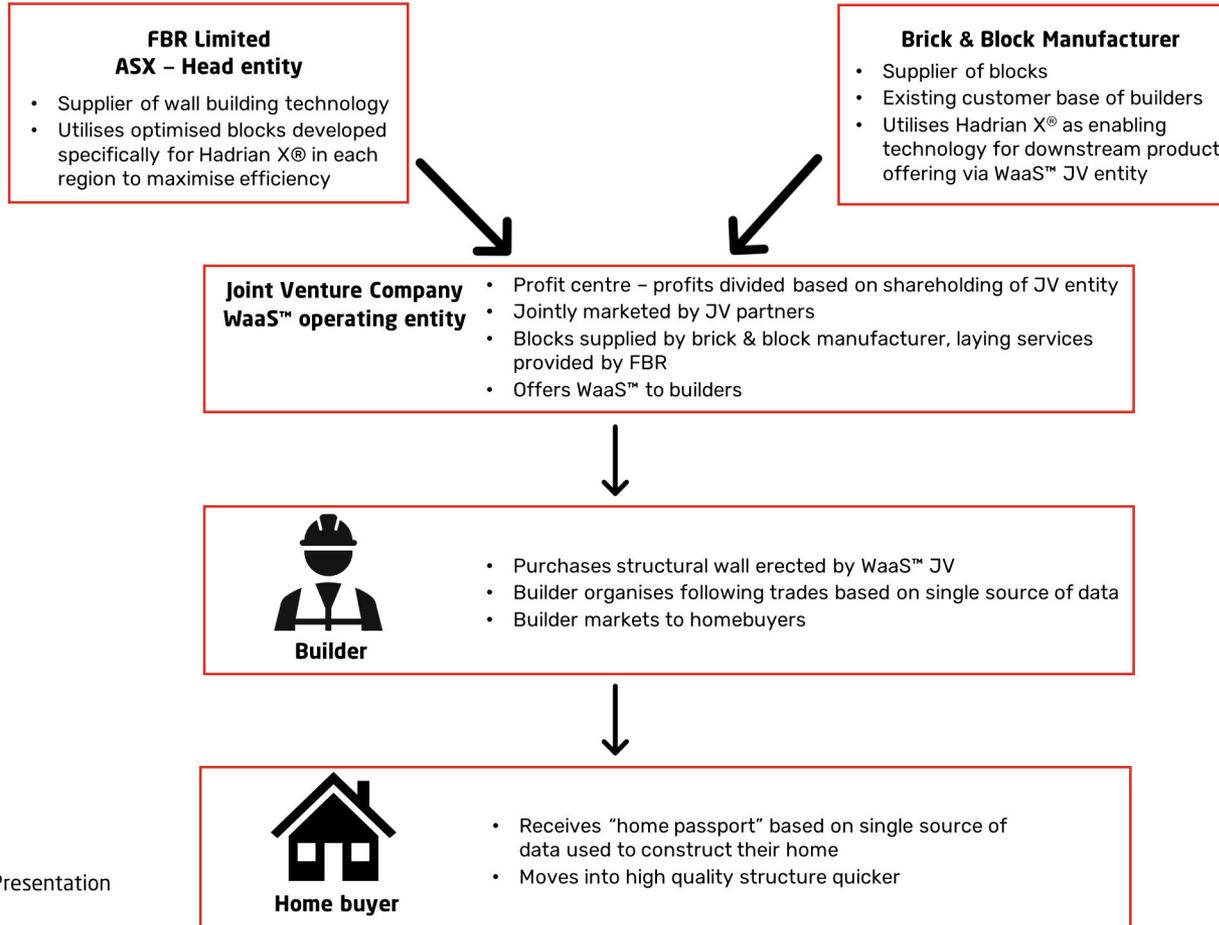


Hadrian X[®] commercialisation strategy – Wall as a Service[™]

- FBR aims to position Hadrian X[®] between every block made and every block laid
- FBR's global strategy is to partner with brick and block manufacturers as well as builders to enable scalable, platform business model Wall as a Service[™] (WaaS[™])
- 100% ownership of intellectual property gives FBR monopoly position as the only enabling technology for autonomous brick and block construction
- Brick and block manufacturers to utilise FBR's IP to offer erected walls to their customers rather than just bricks and blocks

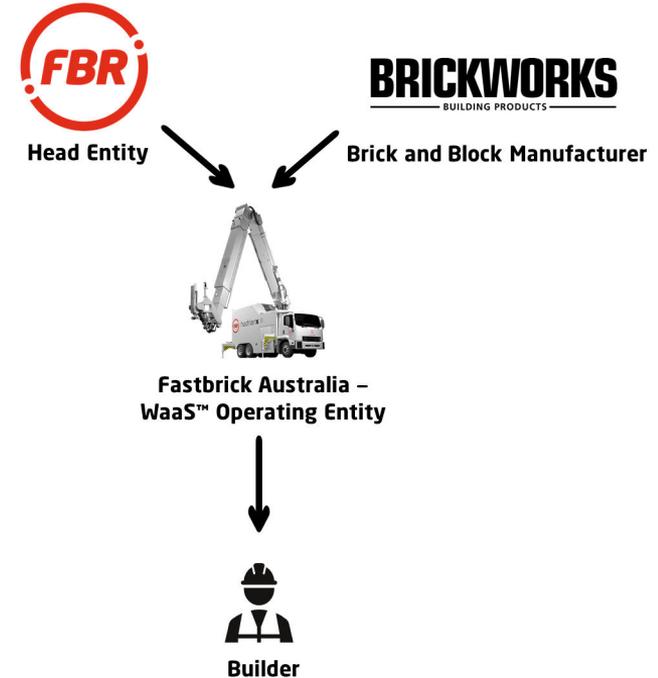


Hadrian X[®] commercialisation strategy – Wall as a Service[™]



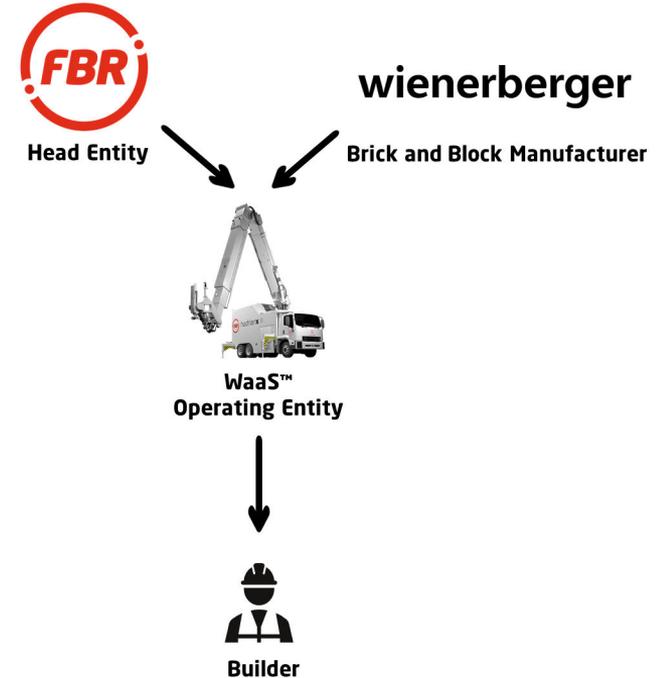
Fastbrick Australia Pty Ltd – The first Wall as a Service™ business

- FBR has entered into a joint venture with Brickworks, Australia's largest brick and block manufacturer
- Joint venture company called Fastbrick Australia set up to offer WaaS™ in Australia for the first time ever
- Brickworks providing Fastbrick Australia with Hadrian-optimised blocks, FBR providing bricklaying services with the Hadrian X®
- Fastbrick Australia will offer WaaS™ to existing Brickworks customers and other builders in Australia



Global Partnership Agreement with Wienerberger AG

- Partnership agreement signed with Wienerberger AG, the world's largest clay block manufacturer, based in Europe
- FBR and Wienerberger working toward manufacturing and testing clay blocks for their global markets
- Pilot program in Europe planned to trial Hadrian X® in European conditions building European designs with WaaS™ business model
- Wienerberger currently active in 30 countries with a dominant position in clay building products market

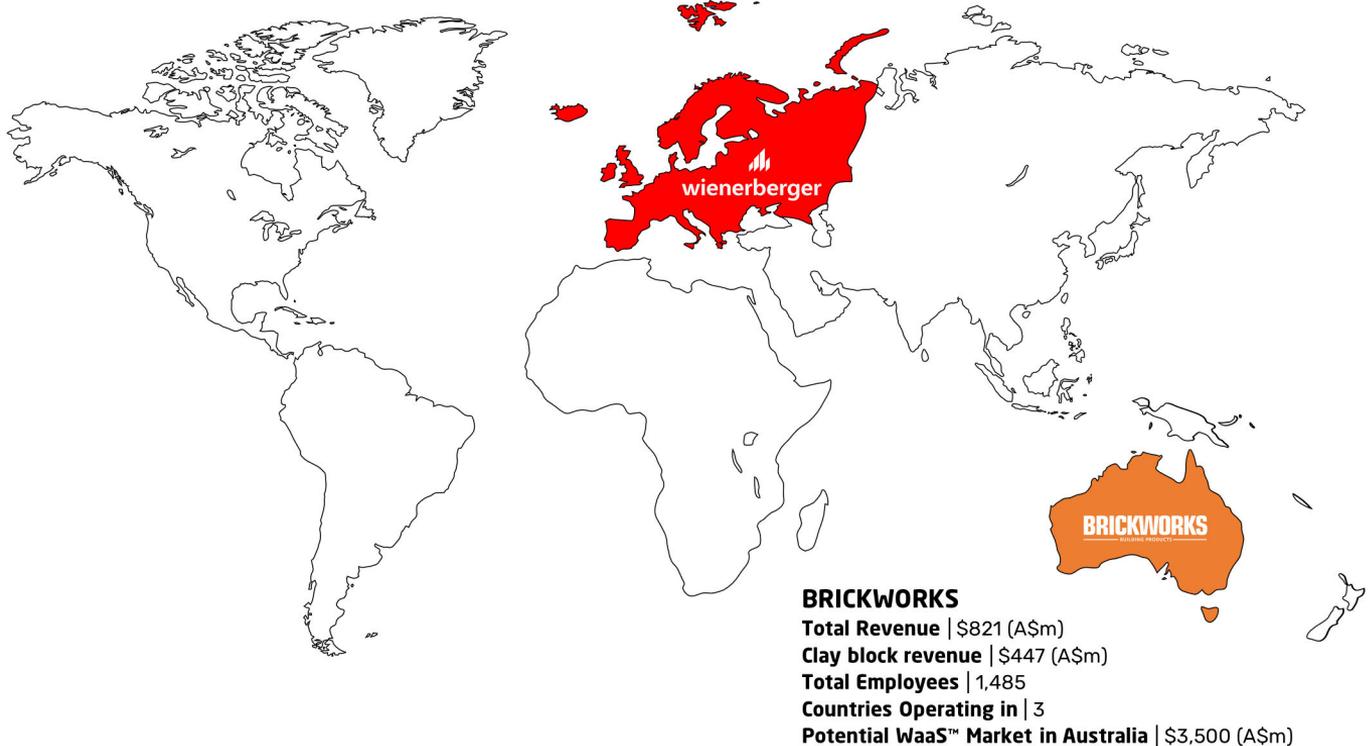


Brickworks and Wienerberger

Approximately **500 billion** bricks/blocks are used per year in construction of **low-rise buildings** globally.

It is estimated that approximately **150,000 machines** would be required to replace wall-building labour for all low-rise construction.

FBR is targeting **10% of the global market** over the next 15 years.



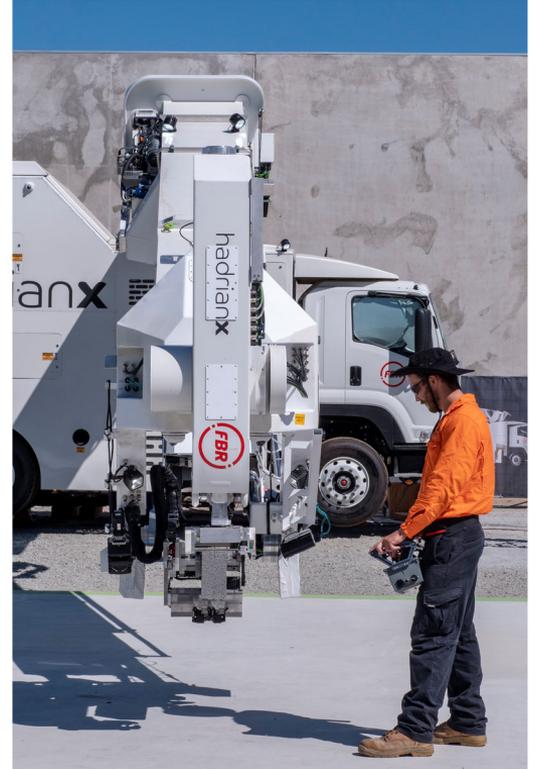
Proprietary software

- FBR's internal software team has developed a proprietary software program to calculate and extract block data from multiple building design file formats and sources and create wall data sets for the Hadrian X[®] robot to build from
- FBR is continuing to develop a standalone application designed for collaboration across the whole residential building value chain, leveraging Hadrian X[®] as the market adoption accelerator



Intellectual property strategy

- FBR is the 100% owner of a broad and expanding portfolio of intellectual property rights in key markets for the Hadrian X[®] and DST™ technology
- Internal IP team established to execute IP strategy
 - 27 patent families
 - 11 granted patents and 2 recently accepted applications covering the Hadrian X[®]
 - 73 pending patent applications
 - 51 design applications/registrations
 - 66 trademark applications/registrations
- FBR has IP coverage for its technology across Australia, United States, Europe, China, UAE, Saudi Arabia, Mexico, Canada, Japan, Indonesia, Thailand, South Africa, India and Brazil



Next 12 months for FBR

- Further optimisation and testing of Hadrian X[®]
- First revenue delivered through construction of homes under commercial contract
- Demonstrate WaaS[™] model in pilot program in Australia
- Continue to develop relationships with key organisations in key markets
- Continue investigating other applications for DST[™] and expand IP portfolio
- Continue development of proprietary software products



FBR corporate snapshot

Current capital structure

Ordinary shares on issue	1,403.6m
Cash (as at 31 March 2019)	\$23.6m
Gross assets (as at 31 March 2019)	\$56.6m
Market capitalisation (as at 28 May 2019)	\$116.5m
Shareholders (as at 28 May 2019)	13,141

Board of Directors

Richard Grellman	Non-Executive Chairman
Nancy Milne	Non-Executive Director
Andrew Bloore	Non-Executive Director
Mike Pivac	Executive Director
Mark Pivac	Executive Director

Share price chart



Key stats

110 employees over three countries

Three facilities established in Western Australia



Video resources



First Outdoor Build – Part One

<https://youtu.be/8F9MQ3Gr9uw>



First Outdoor Build – Part Two

https://youtu.be/Wv51Y_5y73o



First Outdoor Build – Part Three

<https://youtu.be/shlCZSsaqJY>



First Outdoor Build – media package

<https://youtu.be/TJTSTm599-U>



First Indoor Build

<https://youtu.be/264r1Bowy-g>



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