FBR Limited
Corporate Presentation

December 2018



FBR – Cutting edge 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 game-changing robotic solutions

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

Key achievements of the last 12 months



- Design of Hadrian X completed
- Assembly of two Hadrian X robots completed
- Functionality of DST™ proven to be compatible with Hadrian X
- Established full time BD presence in two key overseas markets
- Formed key strategic relationships with potential partners
- Strengthened the executive team
- Completed a global market study of Hadrian X addressable market and further application of DST™
- Factory Acceptance Testing of Hadrian X completed
- Met prospectus milestone date for first build of full scale house

Hadrian X | Competitive advantage

End-to-end handling and placement of block products

Full ownership of internationally patented technology

DST™ corrects for dynamic interference and vibration in real time allowing for outdoor construction

Automatic handling, cutting, 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 operational and building its first structures



The Hadrian X completed its first build of a three bedroom, two bathroom home structure on schedule and in less than the targeted three days

Hadrian team is now focused on optimising Hadrian X's speed, reliability and accuracy

FBR's vision for Hadrian X – Wall as a Service™

FBR aims to position Hadrian X between every block made and every block laid

FBR's strategy is to partner with brick and block manufacturers as well as builders to enable scalable, "platform" business model Wall as a Service™ (WaaS™)

Platform business model makes Hadrian X an inextricable part of the construction process

Market research and financial modelling has identified WaaS™ as the optimum business model for FBR



Fastbrick Wall System™



FBR has developed its own certified CMU block forming part of the Fastbrick Wall System™, a combination of the proprietary block, adhesive and render

Partnership agreement signed with Wienerberger AG, the world's largest clay block manufacturer

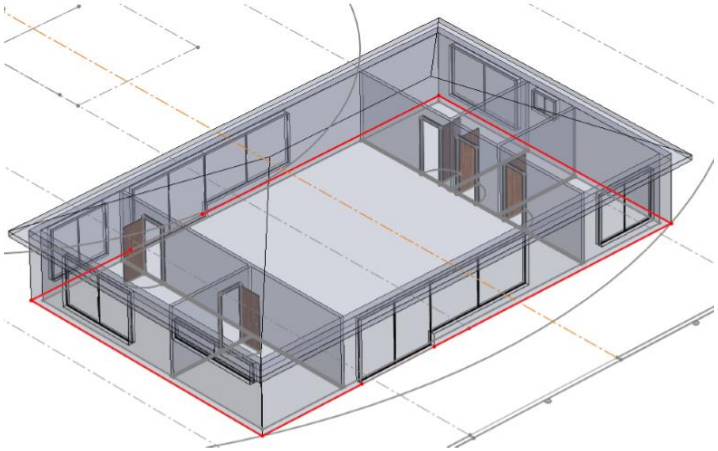
FBR and Wienerberger will work toward manufacturing and testing clay blocks for their global markets

Pilot program in Europe planned to trial Hadrian X in European conditions building European designs with WaaS™ business model

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 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



Machine learning, AI and augmented reality

As a result of our progress, we have attracted interest from some of the largest software developers in the sector and have commenced commercial discussions

FBR now has an opportunity to accelerate its internal machine learning, artificial intelligence and augmented reality programs

These programs produce large datasets which will continue to provide additional value opportunities to the company



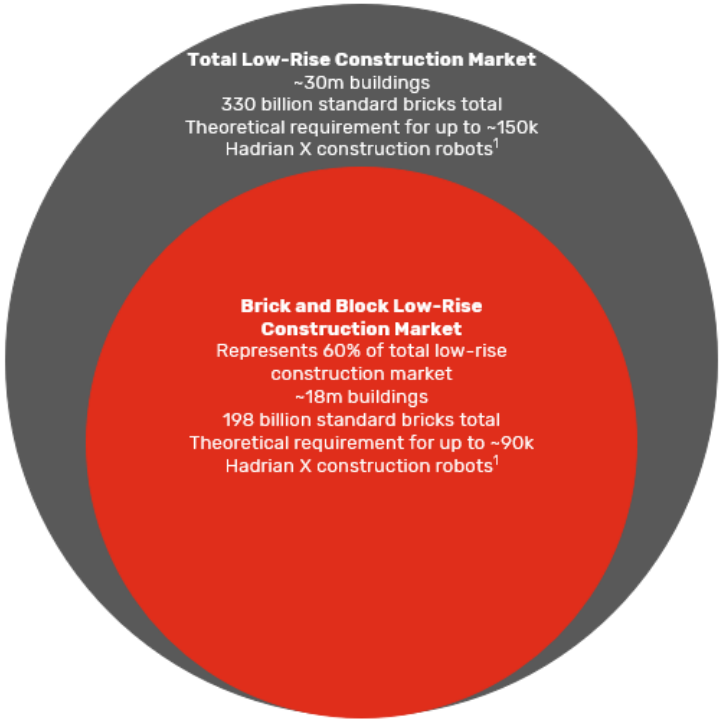
Global addressable market for Hadrian X

Total low rise construction market: 330 billion standard bricks per year

1.4 trillion bricks laid around the world every year

Global construction market worth $13 trillion annually

Next DST™ product application market study completed



Notes: 1. Stock of Hadrian Xs theoretically required to replace all wall-building labour for estimated 2018 construction
Source: UN; World Bank; Research & analysis conducted by strategic advisor

Intellectual Property Strategy

FBR is the 100% owner of a broad and expanding portfolio of intellectual property rights in key markets for the Hadrian and DST™ technology

Internal IP team established to execute IP strategy

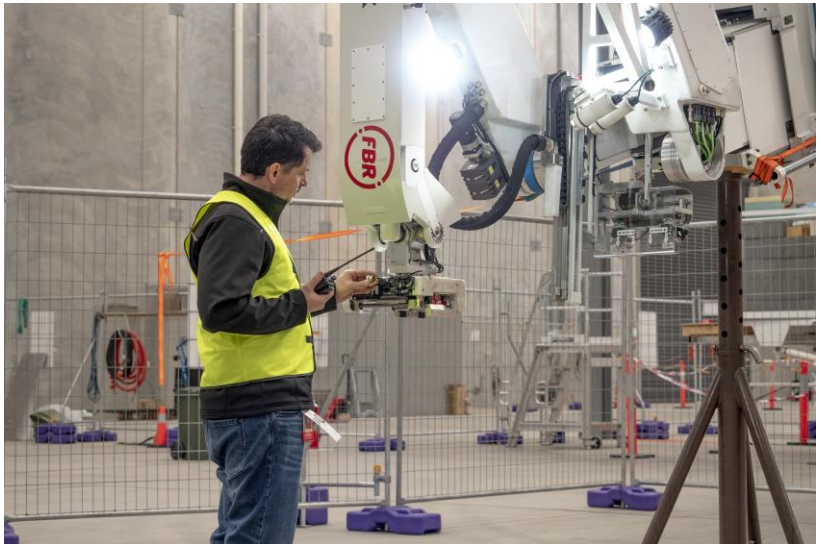
25 patent families

12 granted patents

31 pending applications

25 design registrations

45 trademark registrations



Next 12 months for FBR



- Completion of house structures outdoors using Hadrian X
- Further optimisation and testing of Hadrian X
- Construction of 10 homes under commercial contract
- First revenues
- Demonstrate WaaS™ model in pilot program
- Further development of FBR as a company and brand
- 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

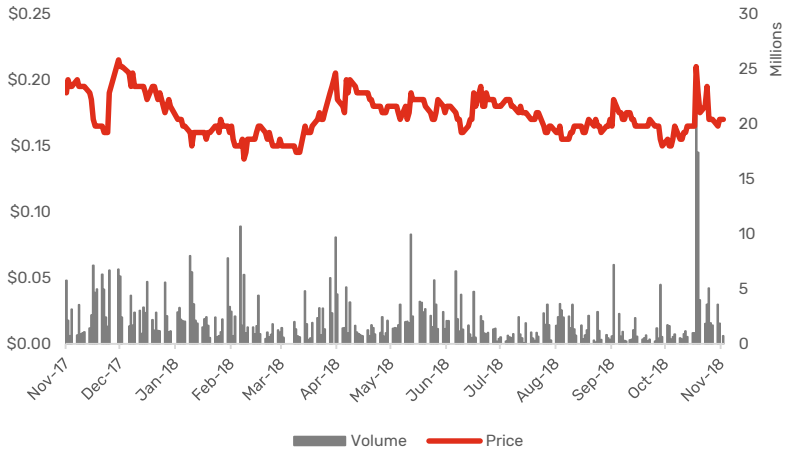
Current Capital Structure

Ordinary shares on issue	1,241.7m
Cash (as at 30 Sep 2018)	$21.7m
Gross assets (as at 30 Jun 2018)	$46.5m
Market capitalisation (as at 28 Nov 2018)	$211.1m
Shareholders (as at 14 Oct 2018)	12,506

Board of Directors

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

Share price chart



Key stats

Current headcount: 106

FBR personnel in five geographic locations

Three facilities established in Western Australia

The Board



Richard Grellman

Independent Non-Executive

Chairman

Professional Chairman
Finance



Nancy Milne

Independent Non-Executive

Director

Legal
Governance



Andrew Bloore

Independent Non-Executive

Director

Entrepreneurship
Strategy



Michael Pivac

Managing Director & Chief Executive Officer

Executive leadership
Business development



Mark Pivac

Executive Director & Chief Technical Officer

Technical leadership
R&D

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