



MST Access Micro and Small Caps Conference

15 June 2021

About FBR

- FBR designs, develops, builds and operates dynamically stabilised robots
- FBR's flagship product, the Hadrian X®, is the world's most advanced construction robot
- Capable of building the walls of a brick house in as little as a day, the Hadrian X® is designed to produce brick structures safer, faster, cheaper, more accurately and with less waste than traditional construction methods
- Enabled by FBR's Dynamic Stabilisation Technology™ (DST™), the Hadrian X® takes the precision of traditional indoor robotics into outdoor environments on a fully mobile truck-based platform
- FBR offers a Wall as a Service® commercial model, where builders can order robotically erected walls with certainty on timing and cost
- Hadrian X® is operating in the field already, delivering Wall as a Service® in Western Australia
- Global brick/block low rise construction market is approximately 525 billion bricks per year, estimated to be in excess of A\$500 billion per year to supply and lay



12 month highlights



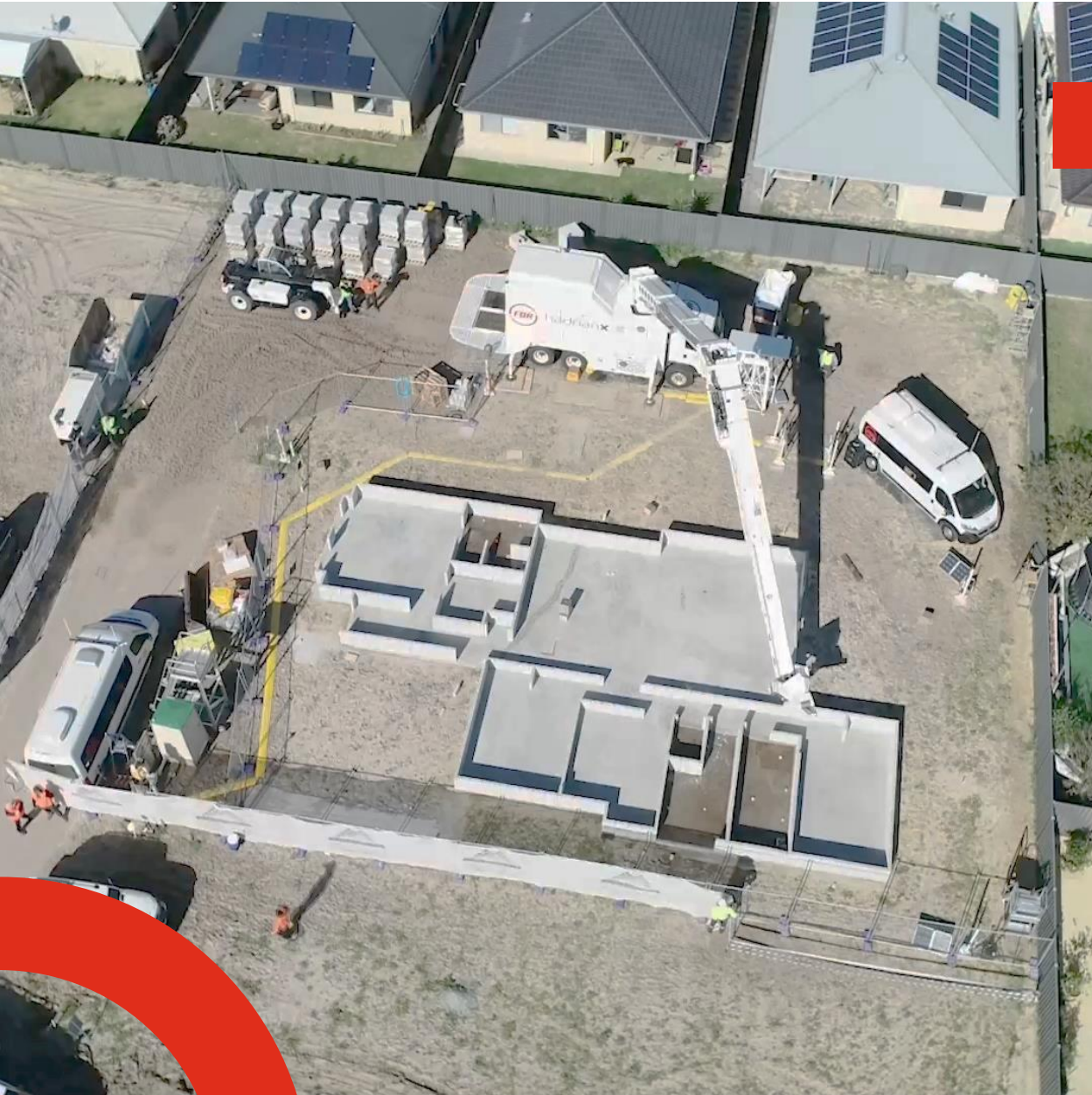
- First build of a residential home in a suburban environment in Western Australia. Home now sold with settlement due shortly
- First build of a commercial (non-residential) structure in a suburban environment in Western Australia, with that structure now tenanted
- Commenced second commercial structure, and largest ever build with Hadrian X®, due for completion shortly
- Completed building stage of GP Vivienda pilot program by building first ever two storey structure. Commercial analysis stage now commenced
- Signed Pilot Program Agreement with Xella, global cement block producer
- Completed preparatory work to establish WaaS® entities in international markets in readiness for COVID-19 restrictions easing
- Progressed certification of Fastbrick Wall System™ in Europe, North America, United Arab Emirates & Saudi Arabia
- Progressed design of next generation of Hadrian X® while continuing upgrade of current generation Hadrian X®
- Ordered long lead items for next generation Hadrian X®

Benefits of Hadrian X[®]

HEALTH AND SAFETY

- Removes the repetitive work, stress and injury from the industry that many bricklayers suffer from due to years of hard labour
- Removes all manual labour from construction site during structure build (except FBR quality control interactions)
- No working at elevated heights during blocklaying process. Removes the need for scaffolding, trestles or boards to reach the top courses and second storey
- Due to the use of construction adhesive, there is no exposure and inhalation of cement and sand dust while mixing mortar. Both contain silica which has been recognised as a serious industry hazard
- No inhalation of dust through cutting bricks manually (when a brick saw is used)
- Less people required at work site during construction and less trips to site required by workers
- No hand injuries when laying or cutting bricks with a saw or trowel. **Hadrian X[®]** completes all necessary brick cuts





Benefits of Hadrian X[®]

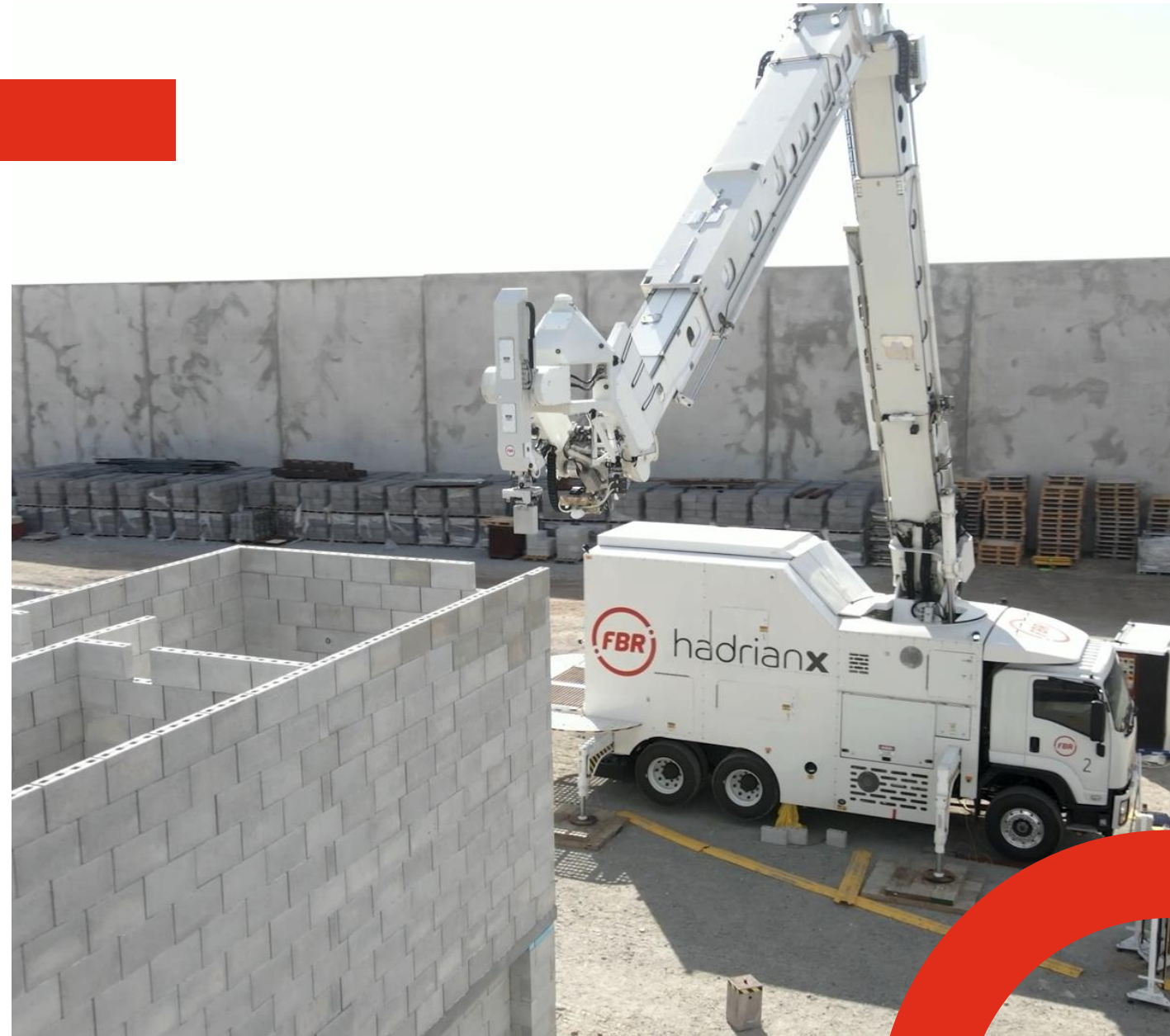
ENVIRONMENTAL

- A much cleaner site with no materials dispersed across the build zone
- Reduced waste and exposure to environmental incidents
- No sand, cement or water required on site, eliminating the impact of extraction, soil screening, removal and management of leftover waste
- No hazardous dust from the use of cement and sand (both containing silica) with the potential exposure to the local environment, workers and public within vicinity
- Heavily reduce offcuts & waste from block manipulations due to the machine managing all offcut material, the TAD software delivering virtual inventory, optimisation and the precision of Wall as a Service[®], or WaaS[®]
- Site cleanliness maintained leading to reduced cost
- Up to 10% of brick/blocks are wasted in manual bricklaying from:
 - Overordering
 - Logistics and handling
 - Cutting bricks onsite
- This is equivalent to up to A\$15 billion waste in the A\$175 billion of global brick/blocks produced and sold per year
- Hadrian X[®] could save more than half of this global brick/block waste per year

Benefits of Hadrian X[®]

OPERATIONAL

- Block laying speed significantly faster than manual labour
- Greater accuracy and repeatability than human bricklaying
- Total build costs reduced significantly through less time, resource, waste and rework
- Safety and environmental impacts reduced significantly. Dull, dirty and dangerous activities removed from site
- Disruptor to the economic modelling and planning of building structures on residential and commercial sites. When considering the total 'time value of money', there is significant opportunity to not only reduce the time to build the structure, but by using the same single source of CAD information, other 'off site' manufacturing can be carried out concurrently without the need for 'as built' site measurement
- Machine can run 24/7 when required with no onsite human constraints during build cycle
- Solving genuine global skill shortage that will affect future business growth, while improving working conditions for existing and future bricklayers



Dayton



- The first display home built by an end-to-end autonomous bricklaying robot anywhere in the world was completed in Dayton, a residential suburb in Western Australia
- Site was bordered by seven occupied homes
- 3 bed x 2 bath – 2,991 Blocks measuring 390mm x 230mm x 90mm (13,759 Standard Brick equivalents (SBE))
- Average lay speed (during up time) was 146 blocks per hour or 671 SBEs per hour
- If using FBR's double width external F Blocks, average lay rate would be equivalent to 1,620 SBE/hour, with peak lay speed equivalent to 2,130 SBE/hour
- Block wastage was less than 1/5 of a house built using traditional bricklaying methods
- Home completed including fitout in February 2021, house sold with settlement due shortly
- European-made prefabbed kitchen ordered based on the 3D CAD model and installed without having to measure walls
- Roof trusses made according to 3D CAD model and installed
- Bill of materials calculated accurately
- Site cleanliness significantly improved over traditional building site

Byford

- Hadrian X®'s first non-residential structure (a commercial and community centre) was built in Byford, Western Australia
- First time the Hadrian X® had built both the internal and external leaf of a double brick cavity wall with a slab step-down
- Hadrian X® achieved an average laying speed during uptime of approximately 174 blocks per hour, or approximately 800 SBEs per hour, improving upon the results achieved during the display home build in Dayton, Western Australia
- A peak laying speed of 228 blocks per hour, or 1,049 SBEs per hour was demonstrated during the build
- Hadrian X® worked in hail for the first time, as well as high winds and heavy rain
- The completed structure is 15 courses high including slab step-down, or approximately one and a half storeys, with brick ties manually installed
- Completion of full structure including fitout in January 2021; currently tenanted by real estate company with café to be established soon
- Completed entire one and a half storey wall structure before needing to install scaffold for roof – no interruptions to bricklaying
- Roof trusses made according to 3D CAD model before brickwork started and immediately installed following completion of brickwork.

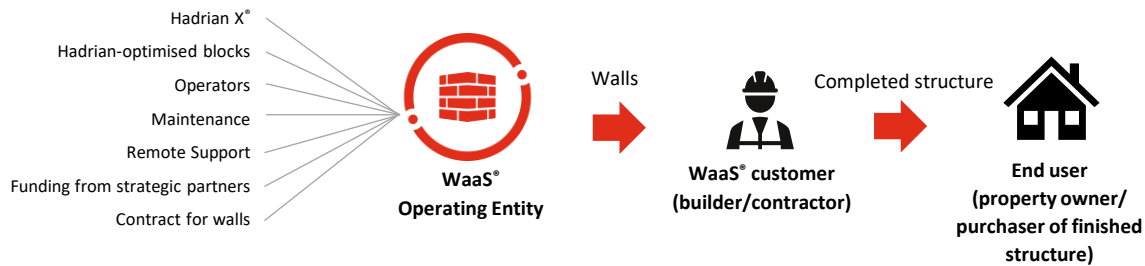




Two Storey

- First two storey structure built on FBR's premises for international clients in a style commonly found around the world in developed and developing markets
- First time FBR has demonstrated Hadrian X®'s ability to build two storey structures, as well as working with design elements like steel reinforced concrete columns, suspended concrete slabs and rebar
- Starter bars inserted into concrete slab, with threaded couplers used to install rebar through the aligned cores of the blocks and concrete manually poured into the cores
- Steel cages inserted into the block columns built by Hadrian X®, with a concrete pump used to fill the columns
- FBR crane-lifted precast concrete slab onto the structure the day after the first storey was completed, with Hadrian X® commencing building of the second storey immediately after the crane left FBR's premises
- In large greenfields developments Hadrian X® would continue building ground floors of adjacent buildings in the development while the second storey slabs are formed and poured, then returning to build second storey of each structure once slabs have cured
- Demonstrates FBR's ability to work with a range of design elements like steel reinforced concrete columns, which may be required in certain geographies due to factors such as seismic activity, weather patterns or custom

Commercial model - Wall as a Service®



- WaaS® is the servitisation and digitalisation of the old way of selling bricks and manual bricklaying labour separately
- WaaS® is sold as a fixed price single delivered service to customers
- The WaaS® operating entity supplies the blocks and robotically constructs walls onsite to the precise specification of a digital architectural plan
- WaaS® allows customers to directly access the benefits of robotic construction such as improvements in speed, accuracy, safety and waste, without having to build robotics capability into their businesses
- Acquisition of order:
 - Customer asks for quote to build walls of house(s)
 - Builder sends architectural plans to FBR, including brick specification
 - FBR runs plans through its proprietary architectural software and delivers fixed price lump sum quote for supply and lay of walls to plans specification
 - FBR sends fixed price quote to builder, guaranteeing price for 24 months, and provides total estimated build time
 - Builder agrees to quote and requests date for service
 - FBR orders bricks from local partner and arranges for delivery direct to site on specified day
 - FBR sends Hadrian X to site on appointed day and builds house
 - FBR bills for 100% of work

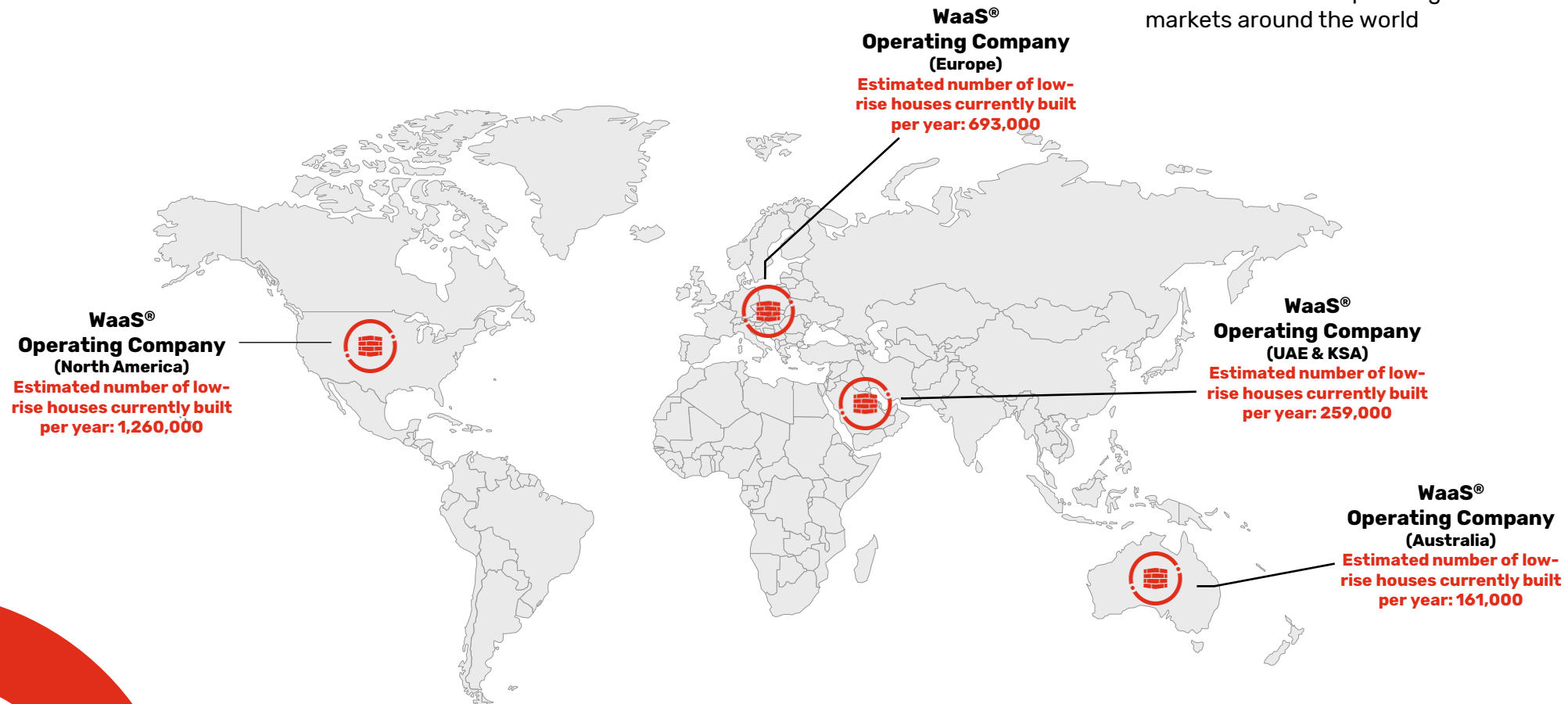
Addressing the market

- FBR's commercial strategy is to create Wall as a Service® (WaaS®) operating entities around the world that deliver erected walls on demand to customers (builders, developers, government bodies etc)
- Hadrian X® improves commerciality of block structures, helping block manufacturers to sell more blocks and compete against alternative building products
- WaaS® provides a digitalisation and software driven pathway for house construction and completion, and enables more efficient and certain scheduling for customers, who can organise subsequent trades based on single data source service provision. This data can also be used in other applications
- The end user (e.g. a homebuyer) receives delivery of higher quality structure quicker, as well as other flow-on benefits of digital construction
- Global WaaS® operating entities will be rapidly scaled by allowing strategic partners to buy in to the WaaS® operation in that region
- Funds from strategic partners will be used to procure more Hadrian X® robots, and in some markets the strategic partner may be a manufacturer of the Hadrian X®
- 100% ownership and control of global intellectual property and global commercial opportunity gives FBR a monopoly position as the only enabling technology for autonomous brick and block wall construction



Wall as a Service® Target Markets

Wall as a Service® operating entities to be established in key target markets around the world



Next 12 months for FBR

- Complete second commercial structure currently underway, five residential structures in Wellard, Western Australia, and additional structures to be announced
- Complete Australian phase of Wienerberger Pilot Program by building residential house with Wienerberger blocks in a suburban environment
- Complete Australian phase of Xella Pilot Program
- Deploy Hadrian X[®] to the United Arab Emirates to showcase at Expo, complete certification process for Fastbrick Wall System™ and conduct demonstration builds requested by major builders and developers in country
- Continue to improve the current generation of Hadrian X[®] robots to demonstrate their commercial viability
- Complete design of next generation Hadrian X[®] and commence manufacturing program
- Once travel restrictions ease, begin global expansion of FBR with the establishment of new WaaS[®] operating entities – identify regional equity partners to assist with scaling each regional operating centre



FBR Corporate Snapshot

Current capital structure

Ordinary shares on issue	2.179m
Average volume (last 3 months)	1.72m
Gross cash (11 June 2021)	\$10.1m
Market capitalisation (11 June 2021)	\$89.3m
Shareholders (11 June 2021)	13,247

Corporate

\$115 million invested into technology over 10+ years

58 employees over 4 continents

Engineering facilities established in Western Australia

Global commercial opportunity – 100% owned

Global IP – 100% owned, no royalty obligations

Directors & Key Executives

Richard Grellman	Non-Executive Chairman
Grant Anderson	Non-Executive Director
Greg Smith	Non-Executive Director
Mike Pivac	Executive Director – MD & CEO
Mark Pivac	Executive Director – CTO
Aidan Flynn	CFO
Jonathan Lawe Davies	General Counsel
Harald Apfelthaler	Engineering Manager

Substantial Shareholders

Mark Pivac (Founder)	15.3%
FIL Limited	9.3%
Mike Pivac (Founder)	5.9%

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