FASTBRICK ROBOTICS

Building a revolution
Fastbrick Robotics

- Revolutionary, fully automated, ‘end-to-end’ bricklaying
- Developed to complete the brickwork of an average house, from slab to cap height, in 1-2 days
- Time, cost, quality, accuracy and safety benefits to significantly enhance construction and house affordability
- Proof of concept complete with >$7M spent on R&D
- Supported by federal government grants and major industry partners – Dale Alcock, Brickworks Limited (ASX.BKW, ASX200)
- Patent protected, disruptive technology positioned to redefine global construction industry
Key Personnel

**Mark Pivac**
Chief Technical Officer
Aeronautical / Mechanical / Electrical Engineer
>25 years developing innovative high technology equipment

**Mike Pivac**
Chief Executive Officer
Airborne Electronic Systems specialist
Extensive Business Operations and Management experience

*Robot brickie: Perth engineer invents world’s first robotic bricklayer*
Construction Primed for Robotics

- Larger shortage of bricklayers than any other skilled trade in construction
- Manual bricklaying is a bottleneck to reducing the time and cost of construction
- Labour inefficiencies, wasted materials and miscommunication account for annual industry losses of ~$120 billion globally
- CAD/CAM systems can now be utilised to create efficiencies that were previously impossible
- Technological innovation will reduce the fundamental cost of construction
Project Development

✓ First patent application filed in 2005 – Current protection in 11 countries including Australia, China, USA, Canada and 7 countries in Europe.

✓ Key patent: An automated bricklaying system for constructing a building from a plurality of bricks

✓ >$7M spent on R&D including substantial support from federal government grants

✓ First fully functional prototype completed – “Hadrian105”

✓ Successful demonstration of Hadrian 105 with end-to-end construction of a predetermined structure without manual intervention
Government Support & Industry Partners

- Federal government grant funding
- Dale Alcock (ABN Group Ltd) – technical and construction advisor
- Brickworks Limited (ASX.BKW, ASX200) – shareholder and manufacturing advisor

“*Australia's Fastbrick Robotics is at the forefront of construction automation and its innovative robotic bricklaying technology has the potential to service the overwhelming demand for housing, quicker and cheaper than ever before.*”

Dale Alcock – Managing Director, ABN Group Ltd
Hadrian 109

- Brickwork of average house, slab to cap height, in 1-2 days
- Course-by-course bricklaying
- Universal brick compatibility
- Accepts architectural house plans (CAD system)
- Innovative, omni-track laser alignment system corrects for dynamic interference and vibration – 0.5mm laying accuracy
- 28m articulated boom with telescopic stick and robotic arm reach – entire house build from one set position
- Truck mounted mobility and self powered
- Developed to meet Australian building standards
Potential Application - Domestic

- New residential housing developments
- ~180,000 new homes built in 2014\(^1\)
- Full brick, rendered homes
- Preferred building method – Strong, durable, low maintenance, greater thermal performance, fire resistance, acoustic performance and load bearing
- Higher cost is the major barrier to full brick construction
- Hadrian 105 tested and compatible with Austral ‘slick bricks’
- Potential to address cost and affordability issues
Potential Application - Global

- Engineered block and adhesive construction (Europe)
- Strong demand with chronic shortages ~665,000 new houses - France, Germany and UK (2014)¹
- Superior product: Improved size (efficiency), precision, durability, thermal performance (no insulation), fire protection and less waste
- Wienerberger AG (Austria): World's largest manufacturer with 230 sites in 30 countries ~€500 million clay block sales in Europe (2014)²
- Hadrian 109 design compatible with Wienerberger product and industry standard adhesive

¹ Department of Communities and Local Government (UK); Department of Ecology and Development (France); ieconomics.com (Germany)
² 2014 Annual Report, Wienerberger AG
Path to Commercialisation

18 Months Fully Funded

1. Execute 1st international distribution / sales agreement
2. Hadrian 109 builds 1st house
3. Hadrian 109 lays 1st brick
4. Fabrication and construction of Hadrian 109
5. Commence international distribution negotiations
6. Hadrian 105 builds 1st room
7. Complete IPO and ASX re-listing
Post Transaction Management and Board

- **Mark Pivac** – Chief Technical Officer and Executive Director (Proposed)
  
  Primary inventor, Aeronautical/Mechanical Engineer with >25 years experience developing innovative high technology equipment

- **Mike Pivac** – Chief Executive Officer and Executive Director (Proposed)
  
  Experienced Airborne Electronic Systems specialist with many years in Business Operations Management, Workplace Training and OH&S

- **Shannon Robinson** – Non Executive Director (Proposed)
  
  Corporate lawyer and corporate advisor with >10 years international experience. Director of several ASX listed companies including Spookfish Limited (ASX.SFI)

- **Gabriel Chiappini** – Non Executive Director (Existing)
  
  Chartered Accountant with >20 years finance experience. Director and Company Secretary of several ASX listed companies including Black Rock Mining Limited (ASX.BKT)
### Transaction Overview

<table>
<thead>
<tr>
<th></th>
<th>Shares (m)</th>
<th>Options (m)</th>
<th>Performance Shares (m)</th>
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</thead>
<tbody>
<tr>
<td>Existing DMY capital structure(^1)</td>
<td>210</td>
<td>5</td>
<td></td>
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<tr>
<td>Acquisition of Fastbrick Robotics(^2,3)</td>
<td>163</td>
<td>500</td>
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<tr>
<td>IPO(^4,5)</td>
<td>150</td>
<td>75</td>
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<tr>
<td>Re-quotation Capital Structure</td>
<td>523</td>
<td>80</td>
<td>500</td>
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<tr>
<td><strong>Market Capitalisation at $0.02/share ($m)</strong></td>
<td><strong>$10m</strong></td>
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1. Existing options exercisable at $0.08 prior to 18 September 2018
2. Includes 12,500,000 shares, equal to $250,000 at the IPO price, as the repayment of existing loans from shareholders of Fastbrick Robotics.
3. Performance Shares to vest upon achievement of the following milestones:
   - Class A Performance Shares: 166,666,666 performance shares upon successful demonstration of the Company’s robotic building technology as proven by the construction of a 3 bedroom, 2 bathroom house structure within 3 days from commencement of construction on the site. If unconverted, Class A Performance Shares will expire after 36 months;
   - Class B Performance Shares: 166,666,666 performance shares upon successful completion, being payment for service, of the Company’s tenth home structure constructed under a commercial arm’s length contract. If unconverted, Class B Performance Shares will expire after 48 months; and
   - Class C Performance Shares: 166,666,666 performance shares upon achievement by the Company of reported annual revenue in a financial year from operations (excluding grant receipts and other income) of at least $10,000,000. If unconverted, Class C Performance Shares will expire after 60 months.
4. Assumes completion of $3 million IPO at $0.02 per share.
5. Includes 75 million broker options exercisable at the IPO price within 4 years of issue.
## Indicative Timetable

<table>
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<tr>
<th>ACTIVITY</th>
<th>DATE</th>
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<tr>
<td>Executed binding agreement for the acquisition of Fastbrick Robotics</td>
<td>23 June 2015</td>
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<tr>
<td>Completion of due diligence and execution of formal acquisition agreements</td>
<td>14 August 2015</td>
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<tr>
<td>Despatch Notice of Meeting seeking approval for the acquisition of Fastbrick Robotics</td>
<td>Late August 2015</td>
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<tr>
<td>Lodgement of capital raising prospectus with ASIC</td>
<td>Late August 2015</td>
</tr>
<tr>
<td>General Shareholder Meeting to approve the acquisition of Fastbrick Robotics</td>
<td>Late September 2015</td>
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<tr>
<td>Closing date of prospectus offer</td>
<td>Late September 2015</td>
</tr>
<tr>
<td>Completion of acquisition of Fastbrick Robotics and re-quotation on the ASX</td>
<td>Mid October 2015</td>
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Summary

- Innovative, disruptive technology
- Strong government and industry support
- Significant time, cost, quality and safety benefits
- Global patents secure Fastbrick’s competitive position
- Proof of concept complete ~$7 million spent on R&D
- Massive global market >2 million new houses in USA, Europe and Australia (2014)
- Strong demand for new affordable housing globally
- $3M IPO to fund commercialisation
Contacts

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