

2019 ANNUAL INVESTORS TOUR

Düsseldorf, September 12 – 13 New York City, September 16







Profitable Growth in Europe and in Asia Pacific Jack Truong, CEO



CAUTIONARY NOTE ON FORWARD-LOOKING STATEMENTS

This Management Presentation contains forward-looking statements. James Hardie Industries plc (the "Company") may from time to time make forward-looking statements in its periodic reports filed with or furnished to the Securities and Exchange Commission, on Forms 20-F and 6-K, in its annual reports to shareholders, in offering circulars, invitation memoranda and prospectuses, in media releases and other written materials and in oral statements made by the Company's officers, directors or employees to analysts, institutional investors, existing and potential lenders, representatives of the media and others. Statements that are not historical facts are forward-looking statements and such forward-looking statements are statements made pursuant to the Safe Harbor Provisions of the Private Securities Litigation Reform Act of 1995.

Examples of forward-looking statements include:

- statements about the Company's future performance;
- projections of the Company's results of operations or financial condition;
- statements regarding the Company's plans, objectives or goals, including those relating to strategies, initiatives, competition, acquisitions, dispositions and/or its products:
- expectations concerning the costs associated with the suspension or closure of operations at any of the Company's plants and future plans with respect to any such plants;
- expectations concerning the costs associated with the significant capital expenditure projects at any of the Company's plants and future plans with respect to any such projects;
- expectations regarding the extension or renewal of the Company's credit facilities including changes to terms, covenants or ratios;
- expectations concerning dividend payments and share buy-backs;
- statements concerning the Company's corporate and tax domiciles and structures and potential changes to them, including potential tax charges;
- uncertainty from the expected discontinuance of LIBOR and transition to any other interest rate benchmark;
- statements regarding tax liabilities and related audits, reviews and proceedings;
- statements regarding the possible consequences and/or potential outcome of legal proceedings brought against us and the potential liabilities, if any, associated with such proceedings;
- expectations about the timing and amount of contributions to Asbestos Injuries Compensation Fund (AICF), a special purpose fund for the compensation of proven Australian asbestos-related personal injury and death claims;
- expectations concerning the adequacy of the Company's warranty provisions and estimates for future warranty-related costs;
- statements regarding the Company's ability to manage legal and regulatory matters (including but not limited to product liability, environmental, intellectual property and competition law matters) and to resolve any such pending legal and regulatory matters within current estimates and in anticipation of certain third-party recoveries; and
- statements about economic conditions, such as changes in the US economic or housing recovery or changes in the market conditions in the Asia Pacific region, the levels of new home construction and home renovations, unemployment levels, changes in consumer income, changes or stability in housing values, the availability of mortgages and other financing, mortgage and other interest rates, housing affordability and supply, the levels of foreclosures and home resales, currency exchange rates, and builder and consumer confidence. JamesHardie^{*}

CAUTIONARY NOTE ON FORWARD-LOOKING STATEMENTS (continued)

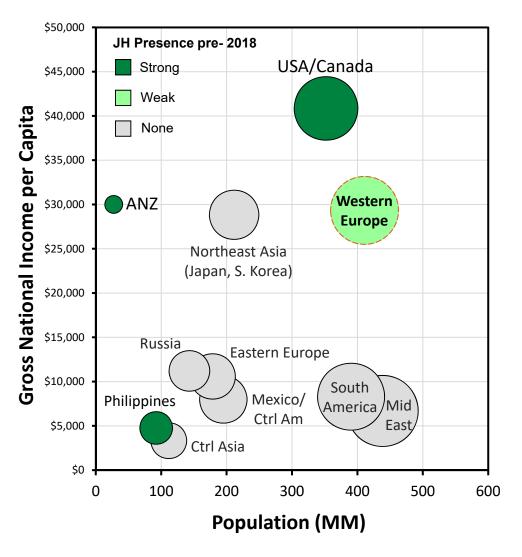
Words such as "believe," "anticipate," "plan," "expect," "intend," "target," "estimate," "project," "predict," "forecast," "guideline," "aim," "will," "should," "likely," "continue," "may," "objective," "outlook" and similar expressions are intended to identify forward-looking statements but are not the exclusive means of identifying such statements. Readers are cautioned not to place undue reliance on these forward-looking statements and all such forward-looking statements are qualified in their entirety by reference to the following cautionary statements.

Forward-looking statements are based on the Company's current expectations, estimates and assumptions and because forward-looking statements address future results, events and conditions, they, by their very nature, involve inherent risks and uncertainties, many of which are unforeseeable and beyond the Company's control. Such known and unknown risks, uncertainties and other factors may cause actual results, performance or other achievements to differ materially from the anticipated results, performance or achievements expressed, projected or implied by these forward-looking statements. These factors, some of which are discussed under "Risk Factors" in Section 3 of the Form 20-F filed with the Securities and Exchange Commission on 21 May 2019 and subsequently amended on 8 August 2019, include, but are not limited to: all matters relating to or arising out of the prior manufacture of products that contained asbestos by current and former Company subsidiaries; required contributions to AICF, any shortfall in AICF and the effect of currency exchange rate movements on the amount recorded in the Company's financial statements as an asbestos liability; the continuation or termination of the governmental loan facility to AICF; compliance with and changes in tax laws and treatments; competition and product pricing in the markets in which the Company operates; the consequences of product failures or defects; exposure to environmental, asbestos, putative consumer class action or other legal proceedings; general economic and market conditions; the supply and cost of raw materials; possible increases in competition and the potential that competitors could copy the Company's products; reliance on a small number of customers; a customer's inability to pay; compliance with and changes in environmental and health and safety laws; risks of conducting business internationally; compliance with and changes in laws and regulations; currency exchange risks; dependence on customer preference and the concentration of the Company's customer base on large format retail customers, distributors and dealers; dependence on residential and commercial construction markets; the effect of adverse changes in climate or weather patterns; possible inability to renew credit facilities on terms favorable to the Company, or at all; acquisition or sale of businesses and business segments; changes in the Company's key management personnel; inherent limitations on internal controls; use of accounting estimates; the integration of Fermacell into our business; and all other risks identified in the Company's reports filed with Australian, Irish and US securities regulatory agencies and exchanges (as appropriate). The Company cautions you that the foregoing list of factors is not exhaustive and that other risks and uncertainties may cause actual results to differ materially from those referenced in the Company's forward-looking statements. Forward-looking statements speak only as of the date they are made and are statements of the Company's current expectations concerning future results, events and conditions. The Company assumes no obligation to update any forward-looking statements or information except as required by law.



Europe is Our Most Compelling Region for Geographic Expansion...

...However, We Struggled to Gain Traction, prior to Fermacell Acquisition





1. Revenue by geography per Operating Segment disclosures



Transforming European Business with Fermacell Acquisition

Before Day 1 After Day 1 • ~€300 MM Revenue •~€30 MM Market • UK, FR, DK, DE 12+ countries Coverage Fiber Gypsum Niche Fiber Cement **Products** Cement Bonded (US products) Capability to Develop Fiber Cement **Products for European Market** Local Fiber Gypsum Manufacturing **Solutions** Exterior Cladding Exterior Cladding & Interior Liners **Employees** 900+ employees Who Know How 70 employees To Grow Successful Businesses in the European Market



We Are an Organic Growth Company with Global Reach...



NORTH AMERICA

Net Sales \$1,677MM

EBIT \$388MM **EBIT %** 23.1%

Employees 2,700



EUROPE

Net Sales \$368MM

EBIT \$10MM EBIT % 2.7% # Employees 1,000

EBIT included Integration costs



Net Sales \$447MM

EBIT \$100MM **EBIT** % 22.3%

Employees 1,100

FY 2019 Actual Results



Net Sales \$2,507MM

EBIT \$405MM

EBIT % 16.1%

Employees 4,800





We Have Clear Objectives for Long Term Value Creation

Growth Above Market with Strong Returns



EUROPE

€1 BILLION REVENUE with 20% MARGIN



NORTH AMERICA

35/90 with 20-25% EBIT MARGIN





ASIA PACIFIC

ABOVE MARKET

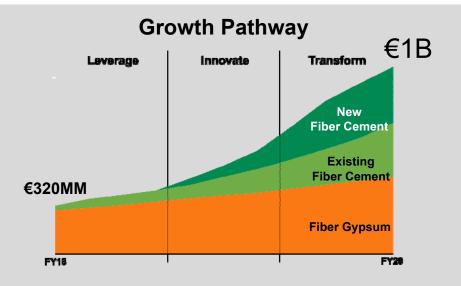
with 20-25% EBIT MARGIN



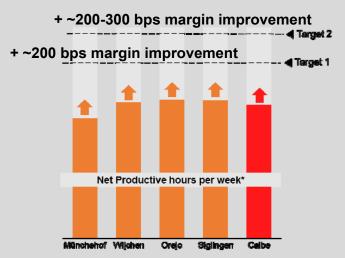
EUROPE: €1B Revenue at 20% EBIT Margin by FY2029

European Manufacturing Footprint





Unlocking Plant Capacity to Improve Margin





APAC: 3-5% Growth Above Market at 20-25% EBIT Margin

FROM:





Consumer Survey: Cladding Preference (June 2018, n = 6,500, JH Insights)

Brick 10%

Plain Render 26%

Modern Mixed Materials 20%

Hamptons/ Coastal 44%

<u>TO:</u>







James Hardie Sustainability Highlights

Zero to Landfill

Manufacturing process produces zero landfill waste in Fiber Gypsum Plants

100% Recycled Fibers

100% of fibers in Fiber Gypsum are from waste paper (recycled)

Managing our Carbon Footprint

Reducing transportation with plants close to customers and locally sourcing raw materials

Product Lifecycle

Delivering durable solutions which last longer and reduce lifecycle impact

Zero Harm Culture

Commitment to providing a safe and healthy working environment for every individual (employee, vendor, and visitor)

Supporting Local Communities

19 manufacturing plants across four continents supporting local economies with jobs and giving back

Locally Sourced

At least 75% of raw materials are sourced locally







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Growing Europe to 1bn € at Hardie like returns

Jörg Brinkmann, Managing Director



A driven team managing James Hardie Europe





Agenda

- JHEU platform built for accelerated growth
- Growing fiber cement in Europe
- Increased profitability through better operations









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- Growing fiber cement in Europe
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JHEU is a high performing building solution company



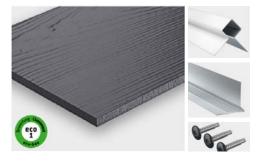
- Best all-around interior liner
- One layer instead of two layers
- Outstanding fire, sound and impact



fermacell® gypsum fiber board fermacell® accessories



- Best all-around exterior solution
- Low maintenance
- · Durable beauty
- Economical solution



HardiePlank® facade cladding JamesHardie™ accessories



- Supreme fire-protection
- · Weather, frost and water resistance
- Type X certification for tunnels



fermacell® Powerpanel H2O
AestuverTM accessories



We generate growth in all market segments



Source: JH internal

Residential



Commercial





Repair & Remodel







We operate an effective sales and marketing organization





Digital tools 13

Technical staff 42

Sales and Marketing staff >300

Test certificates >5,000

Active customers >5,300

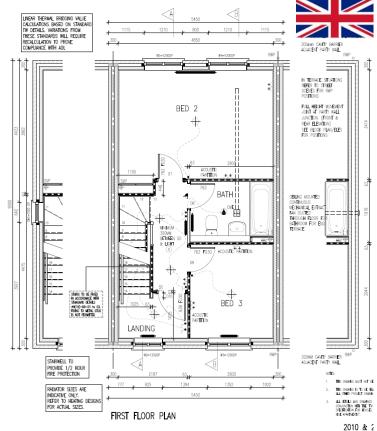
Unique website visitors / day >10,000

Source: JH internal



Case study: Digital specification tool



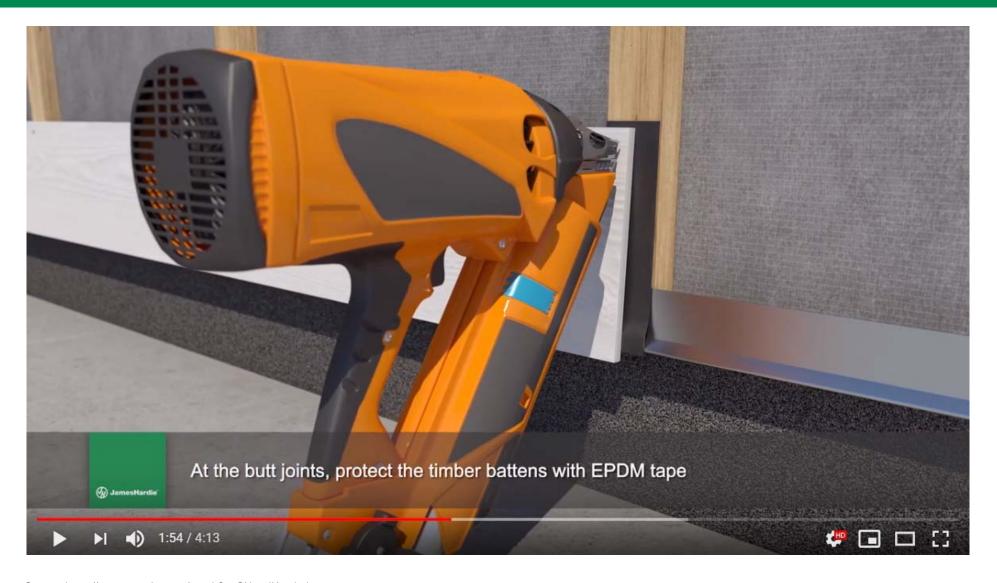


Winning inside and outside - digital project platform "Bluebeam"

Source: JH internal



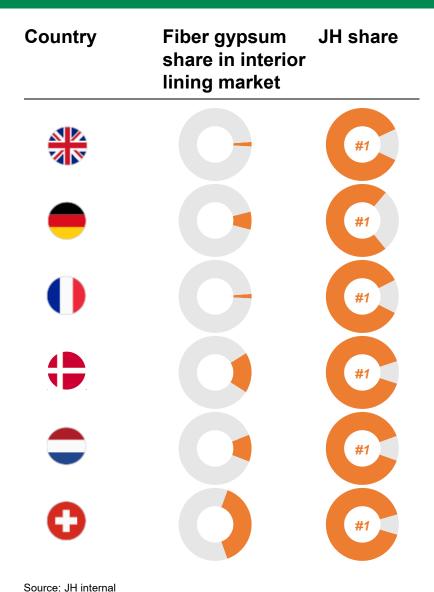
Case study: Installation video



Source: https://www.youtube.com/watch?v=GHwnJH_n4q4



We have a leading position in our fiber gypsum markets



fermacell® is one of Germany's best building material brands

fermacell® has been chosen and awarded as one of Germany's best building material brands, TWICE!

This is the result of a two-stage study commissioned by Germany Test and Focus Money and carried out by the Institute for Management and Economic Research with the scientific support of the International School of Management (ISM).





fermacell® brand awards



fermacell® Point-of-Sale presence in Bauhaus, Düsseldorf, Germany



Case study: Fiber gypsum value in commercial segment



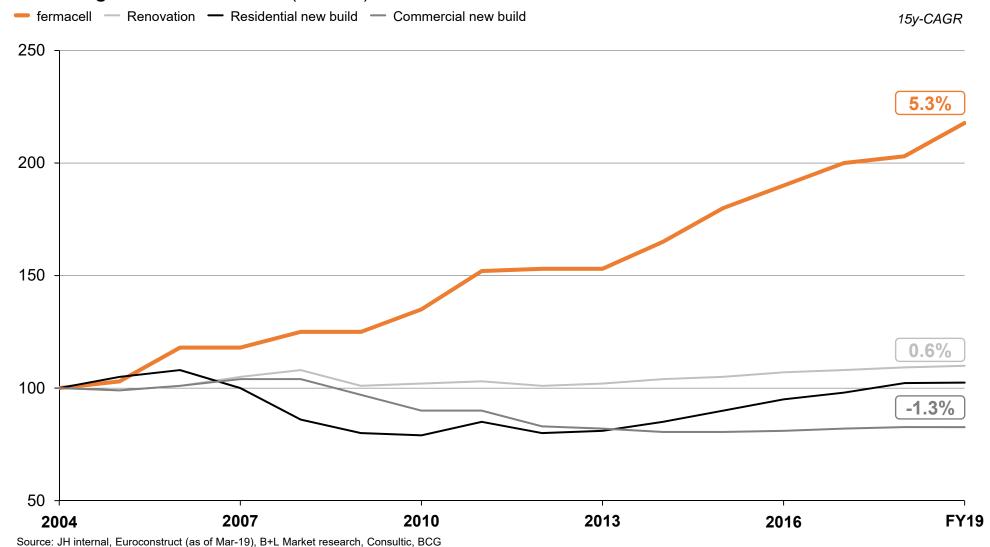
Cabinn Metro, Copenhagen, Denmark

Source: JH internal



We have a proven track-record of growing above market

fermacell growth above market (indexed)



Well positioned to capture future market trends



Lack of skilled labor



Lack of affordable housing



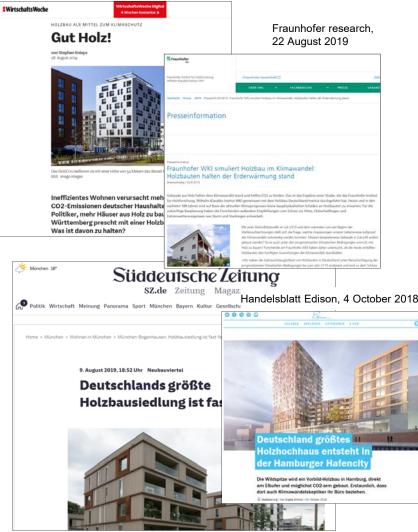
Increased pre-fabrication



Need for ecological, light-weight construction

WirtschaftsWoche, 28 August 2019

WirtschaftsWoche **WestschaftsWoche Digital



Süddeutsche Zeitung, 9 August 2019



Agenda

- JHEU platform built for accelerated growth
- Growing fiber cement in Europe
- Increased profitability through better operations



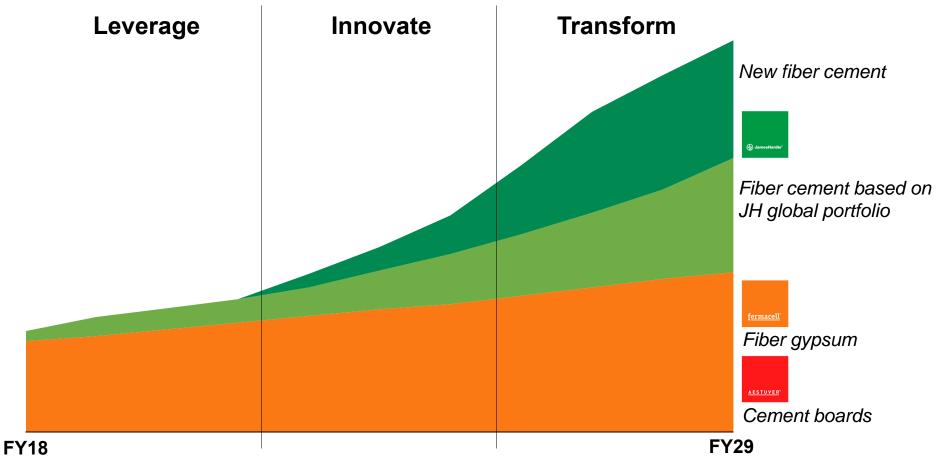






Our path to 1bn € is driven by fiber cement growth

Step-change, **profitable growth** to 1bn € business within 10 years



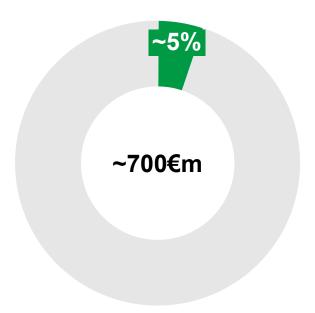
Source: JH internal



Fiber cement category share leveraging customer base

 Leveraging on fermacell[®] customer access and supplychain network

European fiber cement cladding market



Source: JH internal, Etex annual report (2017), Cembrit annual report (2017), Sil annual report (2016), Swisspor annual report (2017), EU I-banker for SVK (2016), import data

JHEU market coverage



Source: JH internal, addresses delivered from July 2018 until August 2018



Case study: Winning fiber cement business in Denmark



Joint delivery of HardiePlank® and fermacell® fiber gypsum boards in Denmark in 2019

Source: JH internal



HardiePlank® in Hammel, Denmark



HardiePlank® in Hinnerup, Denmark



Case study: Synergistic solution for architects











Installation of HardiePanel $^{\rm @}$ and fermacel $^{\rm @}$ in Plelan-le-Grand, France in 2019



Fiber cement growth through innovation

- Leveraging existing global fiber cement product platforms
- Adjust Hardie offering to European market needs

Western European facade market



Source: JH internal, B+L (2018), Freedonia (2015)



Wooden planks in Sweden



HardiePlank® in Southern Germany



Case study: HardieWindbreakerTM launch





HardieWindbrealser™ board er udvildet og testet fil at kunne modstå det barske danske klima. Når HardieWindbrealser™ er monteret i overensstemmelse med vores montagevejledning, udgør den en vandtæt midlerlidig focode, der kan sidde demonstrat i en til 10 enheme.



Fine
HardieWindbreoker^{***} board er et
Hassificaret ubrandbart materiale
A2-st_d0 og kan anvendes i byggerier, hvor
der er krav om bekladningsklasse k110.
Endvidere kan HardieWindbreoker^{***}
anvendes til både bærende og ikke-bærende



Wind
HardieWindbreaker^{***} board kan anvendes
seki i vindudsatte områder, og kan
modstå vindtryk op til 1,9 kPa.
Sammen med Hardiellagei** Udgør
HardieWindbreaker^{***} systemet en
vindtari facade og kan filmed bruges til statif



barth
HardieWindbreaker¹⁶ board er producen
of fibercement med en høj PH-Værdi,
og er dermed modstandsdyglig overfor
råd og svamp. HardieWindbreaker¹⁶
northrytes ikke on sværdkes ikke rift part





HardieWindbreaker™ installation on site in Ashford, UK



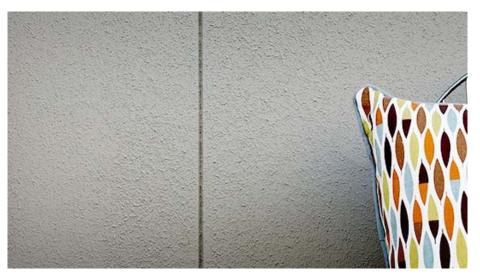
Market share growth with transformational innovation

- Innovation for render-look market
- Offering full systems as fast and efficient solutions

Western European facade market



Source: JH internal, B+L (2018), Freedonia (2015)



 $\mathsf{Easylap}^\mathsf{TM}$



Easylap™



Case study: Market Gemba of global innovation team



Façade in Switzerland



Façade in Germany



Façade in Netherlands



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Six plants operating in a truly European supply chain



Fiber gypsum plants	4

Cement bonded plant	1
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Raw materials pl	ant 1
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14	
	14

Source: JH internal



Production based on recycling and automation



Recycling paper in Münchehof, Germany





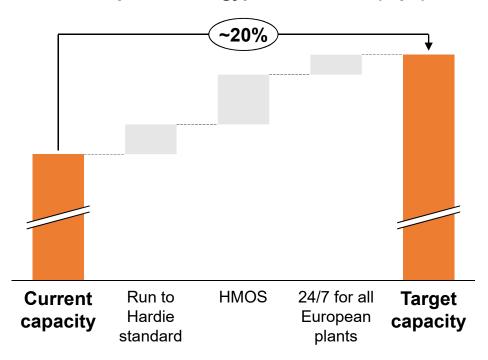
Production line and control room in Wijchen, Netherlands



Our fiber gypsum network has further upside potential

- Focus on preventive maintenance and run-to-standard
- Launch HMOS to unlock capacity
- Invest in organization and capabilities to improve the business

Annual output of fiber gypsum network (sqm)





Value stream mapping and HMOS pre-launch in Münchehof, Germany, June 2019

Source: JH internal



Case study: Best-practice replication from US





European Operations team meeting JH experts in US in July 2019











Implementation of Global Zero Harm Standards in European plants

Source: JH internal

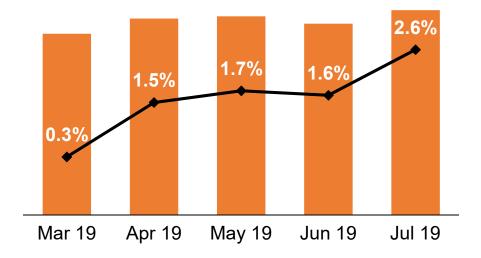


We are on a continuous improvement track

- Leveraging global JH manufacturing know how
- Best-practice sharing

Continuous improvement track in recent period*

- → Net productive hours vs. PY (%)
- Output (sqm)





Loading fermacell® fiber gypsum boards in Orejo, Spain



^{*}For fiber gypsum network only; Source: JH internal

Growing Europe to 1bn € at Hardie like returns



James Hardie Europe has the **right platform** and the **right people** for accelerated growth



We are **well positioned** for accelerated growth in fiber gypsum and fiber cement capitalizing on growing market trends



EBIT improvements will be driven by improving operational performance and revenue leverage



James Hardie Team at BAU fair in January 2019





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ASIA PACIFIC Conrad Groenewald, General Manager



AGENDA

- Driving Growth Above Market
 - APAC Strategy
 - Australia Execution
 - Philippines Execution
- Driving Lean Manufacturing
 - APAC
 - New Zealand Manufacturing Recovery







AGENDA

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 - APAC Strategy
 - Australia Execution
 - Philippines Execution
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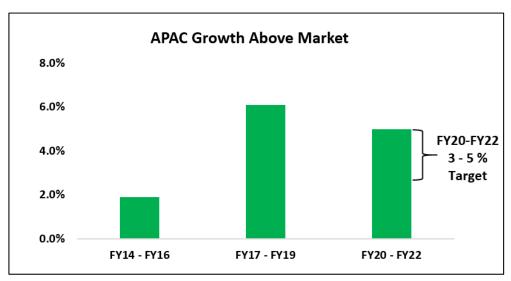


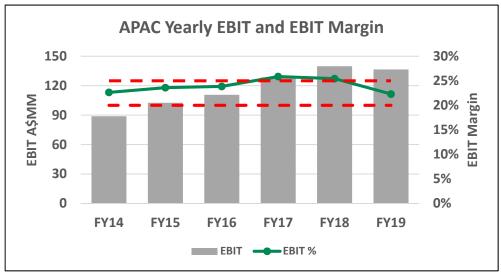




APAC HAS HISTORICALLY GROWN ABOVE MARKET WHILE DELIVERING 20-25% EBIT MARGINS

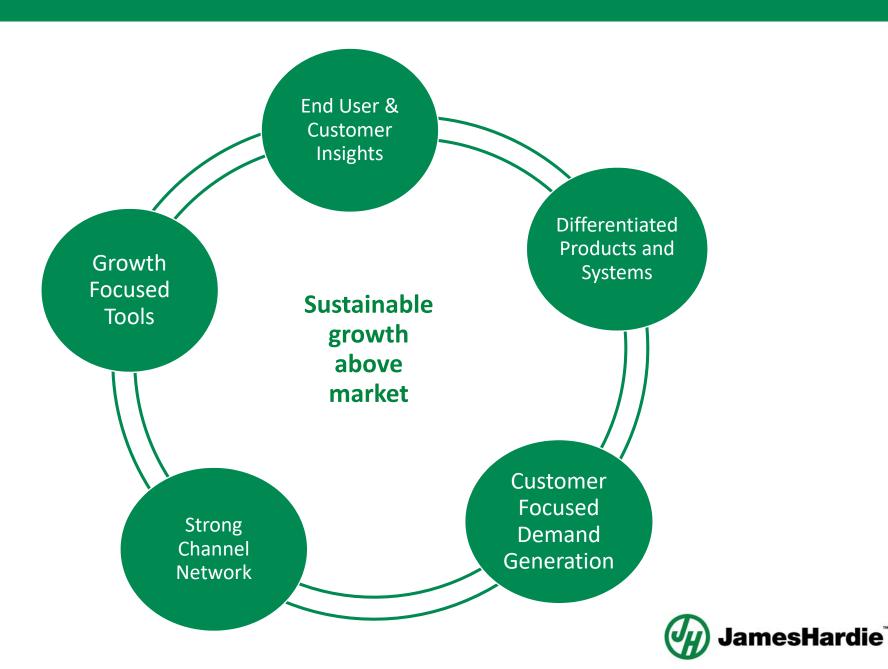
- Proven track record of delivering growth above market with strong EBIT margin
- Business is set up to deliver 3-5% growth above market throughout FY20-FY22
- Continued execution at high level is the focus
- Markets are contracting;
 historically have had success
 increasing share during market
 contraction



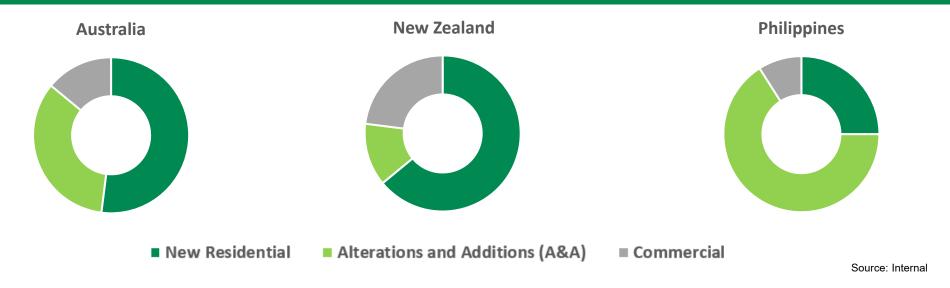




HOW JAMES HARDIE APAC OUTPERFORMS THE MARKET



APAC SEGMENT DIVERSITY



New Residential - Single Detached



New Residential - Medium Density



Alterations and Additions (A&A)



Commercial





APAC INSIGHTS

Best In Industry Insights:







	Consumers	Developer / Designers / Architects	Builders & Trades
Australia	16,600	1,800	2,300
New Zealand	1,500	1,500	500
JH Systems	-	500	800
Philippines	600	350	900

Source: Internal, 2019



APAC INSIGHTS INTO ACTION

INSIGHTS & DATA

- Life-stage consumer segmentation
- · Home building path to purchase
- Leading design trends Hamptons
- Insights on the Millennial buyer



We love the Hamptons "Look"

- Hamptons-led inspiration in marketing media investment
- PR/Social Media engagement
- Social Influencer strategy



From BRICK to HARDIE HOME



DRIVE ACTIONABLE CUSTOMER CENTRIC STRATEGY

- Builder segmentation to understand key business drivers
- Insights on the Millennial buyer
- Speed of install data



I need a differentiated offer

- Insight-led tailored customer acquisition sales programs
- Design guidance & construction support
- Co-marketing investment



APAC DIFFERENTIATED PRODUCTS & SYSTEMS









ARChitectural™ InRaw™ panel







APAC DIFFERENTIATED PRODUCTS & SYSTEMS



RAB™ Board

Intertenancy floor systems



Scyon™ Secura™ interior flooring

Scyon™ Secura™ exterior flooring







HardieSmart™ systems

Ritek® James Hardie Systems





APAC STRONG CHANNEL NETWORK

Australia











New Zealand











Philippines















AGENDA

- Driving Growth Above Market
 - APAC Strategy
 - Australia Execution
 - Philippines Execution

Detached NC - Win vs. Brick A&A – Win via channel & digital

- Driving Lean Manufacturing
 - APAC
 - Australia Execution
 - New Zealand Manufacturing Recovery









DETACHED NEW CONSTRUCTION - WIN VERSUS BRICK

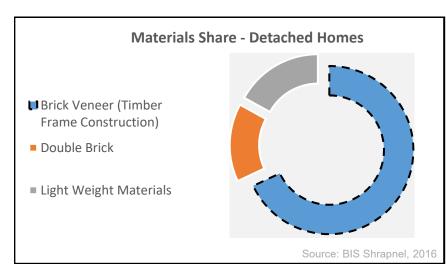
Large opportunity remains for Fiber Cement growth in detached new construction

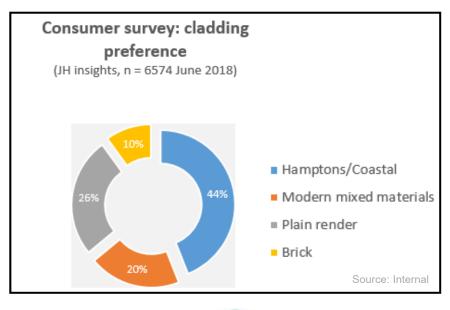
We will capitalize on current market trends:

- Consumer aesthetic preferences shifting away from brick
- Shrinking lot sizes
- Cost constraints in building
- Labor constraints

As Fiber Cement provides:

- The look consumers prefer
- More space inside home
- Faster & cheaper construction
- Larger pool of trained labor







JAMES HARDIE BRICK CONVERSION PROGRAM

Type

Residential Mass Housing

Application

Cladding

Reasons for Conversion

- A differentiated 'Look'
- Speed of Install
- More living space
- Less on site trades

Location

Queensland







JAMES HARDIE BRICK CONVERSION PROGRAM

Type

Residential Mass Housing

Application

Cladding

Reasons for Conversion

- A differentiated 'Look'
- Design and construction support

Location

Victoria







JAMES HARDIE BRICK CONVERSION PROGRAM

Type

Residential Mass Housing

Application

Cladding

Reasons for Conversion

- Leading design trends Hamptons
- Insights on the Millennial buyer
- Speed of install

Location

New South Wales

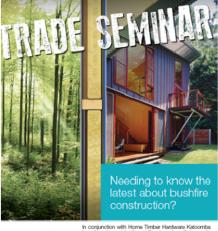






DRIVE A&A VIA CHANNEL



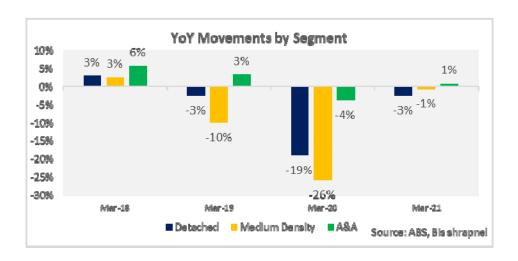












Converting commercial renovators via James Hardie Channel programs:

- Entice via in-store promotions
- Engage via trade events
- Educate via training seminars



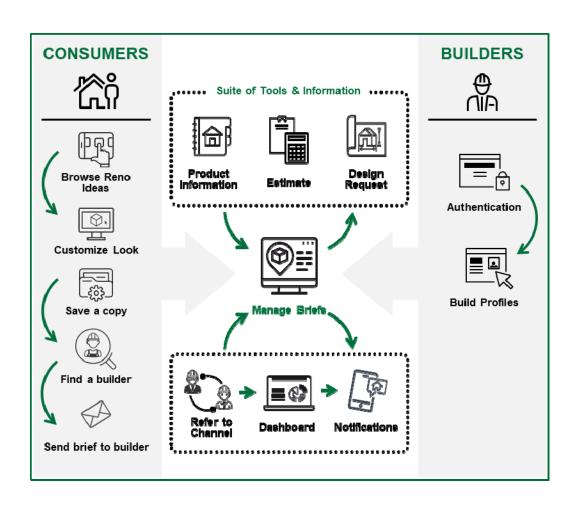
DRIVE A&A VIA DIGITAL

JH will provide a digital platform to Recruit, Educate and Connect small builders and decking contractors to consumers on the renovation path to purchase via the **MyHardie program**

MyBuilder portal:

- Feature as a Hardies' builder
- Leverage the Hardie social marketing & digital tools
- Priority access to new products & building news
- Access to distributors and their promotions

- Job management portal
- How to build with Hardie
- Estimation tools
- Electronic Bill of Materials Details
- Online training center



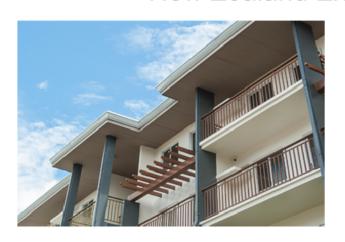


AGENDA

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 - Australia Execution
 - Philippines Execution

Strong value proposition Increased retailer density

- Driving Lean Manufacturing
 - APAC
 - Australia Execution
 - New Zealand Execution



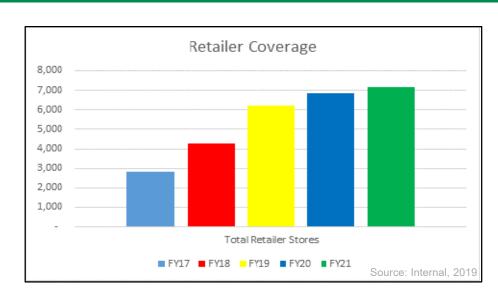






FIBER CEMENT RETAILER DENSITY

- Store openings continue, creating link between distributor and retailer
 - Retailers engage in carpenter training programs









FIBER CEMENT VALUE PROPOSITION - PLYWOOD

Type: Residential Mass Housing

Application Won: Eaves

Conversion from: Plywood

Reasons for Conversion:

- Durability (moisture, fire & termite)
- Value Engineering
- Price Value

Location: South Luzon



Fiber Cement Value Proposition vs. Plywood: Ease of Painting Moisture Resistance Fire Resistance Termite Resistance



FIBER CEMENT VALUE PROPSITION - PLASTERBOARD

Type: Commercial – Hotel & Casino

Application Won: Wet Area Walls & Common Area

Conversion from: Plasterboard 9mm

Reasons for Conversion:

- Durability (moisture for wet area & impact for common areas)
- Cost Efficiency Developer initially wanted to use (2) combined 9mm
 plasterboards to achieve 18mm single wall thickness. The system would require
 using total of (4) 9mm plasterboards to accomplish a 2 hour fire-rated double
 wall

Location: Metro Manila

Fiber Cement Value Proposition vs. Plasterboard: Impact Resistance Moisture Resistance* *Not relative to Plasterboard MR







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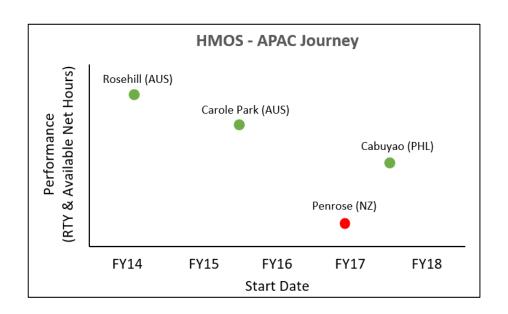






APAC LEAN MANUFACTURING - HISTORY

- Started Lean journey in Rosehill toward the end of FY14, replicated:
 - Carole Park Q3 FY15
 - Penrose Q1 FY17
 - Cabuyao Q3 FY17
- Heavy focus on Daily Management System to "run the business"
- Transitioned to "improve the business", the first iteration of the Hardie Manufacturing Operating System (HMOS)
- Penrose (NZ) facility has lagged in performance to rest of network

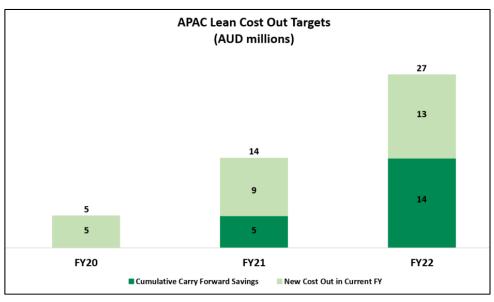


- ↑ Roll Throughput Yield (RTY)
- Net available hours
- Lower cost per STM



APAC LEAN MANUFACTURING - PATH FORWARD

- A\$27 million in targeted savings from lean initiatives FY20-FY22
- Intense focus on RTY in addition to net operating hours
- Replicate key learnings from North America lean progress
- Maximize Operator Engagement
- FY20 is on-track







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NEW ZEALAND MANUFACTURING

Leverage HMOS platforms to improve manufacturing:

- Focus on Zero Harm
- Leadership and Employee Engagement is the key to success
- Drive:
 - Operator Standard Work
 - Leader Standard Work
 - Daily Management System

as foundations to performance

- Reduce variability, then drive improvement
- New Plant Manager from Waxahachie, TX plant
- Goal is to return to baseline performance in 2H FY20







KEY MESSAGES

- Relentless focus on execution to drive Growth Above Market across network
- Execute lean manufacturing initiatives to enable continued and sustainable cost improvements
- Reaffirm growth above market of 3-5% and EBIT Margin of 20-25%





2019 ANNUAL INVESTORS TOUR

Düsseldorf, September 12 – 13 New York City, September 16







Profitable Growth in Europe and in Asia Pacific Jack Truong, CEO



SUMMARY

- 1. We have the right platform for profitable growth in Europe:
 - Broad channel access and market coverage
 - Premium interior solutions to complement exterior solutions
 - Strong Fermacell brand
 - Well established manufacturing and supply chain capabilities
 - Global JH R&D capability to develop fiber cement products
 - Strong and committed management team with experienced sales & marketing professionals
- APAC continues to learn, share, and replicate best practices from NA and EU to make a good business better

