

CREATING NEW MATERIALS AND SOLVING GLOBAL CHALLENGES, COMMERCIALISING A UNIQUE TECHNOLOGY PLATFORM

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### **CAPITAL STRUCTURE AND USE OF FUNDS**

## **LISTED ON ASX IN JULY, 2018**

	As at Oct 30, 2018
Shares on issue	~122.9m
Share price*	\$0.79 per share
Market capitalisation	~\$97m
Cash (net of debt)	\$7.9m
Enterprise value	\$89.1m

Major shareholders	As at Oct 30, 2018
Board & Management	19.7%
Och Ziff Capital Management	17.5%
Nicholas Merriman and associates	8.5%
Paul Crowther	6.7%
IOOF Holdings	5.5%
Acorn Capital	5.4%
Washington H. Soul Pattinson and Company	5.1%



Use of IPO Funds**	\$ MILLION	%
Advanced batteries development	1.5	12.5%
Booster-Mag licensing support costs	0.5	4.2%
Manufacturing logistics and efficiencies	2.3	16.7%
New market entry and development	2.2	20.8%
Working Capital	1.5	12.5%
Total Uses	8.0	100%

<sup>\*</sup>As at 30/10/18

### **INTRODUCING CALIX**



### A fast-growing, cash positive business

Achieved cash flow positivity in

### **Statutory EBITDA growth** >100% last 2 years

Core product growth of 25% FY17 to FY18, including 35% growth of core magnesium hydroxide liquid products

Average gross margin growth from 30% FY17 to 35% FY18





### Blue chip customers, easily scalable operation

- Value chain from own mine to customers in waste water and infrastructure
- Blue chip customers
- Exporting to Europe, China and SE Asia (Malaysia, Thailand, Indonesia, Vietnam, the Philippines)
- Commencing trials in US



### Proven technology platform advanced materials

- Patent-protected
- ~A\$50 million capital spent to date to develop the technology
- Achieved A\$36 million in grant funding, majority from EU
- Major R&D collaborators internationally
- Multiple technology awards



### **Huge addressable** global markets

- Near-commercial products in agriculture & aquaculture
- Three pilot projects in decarbonised lime and cement, advanced batteries
- Many more products and applications to be developed
- Multiple touch-points with global chemical companies





















### Commitment



### **VALUE CHAIN**

manufacturers multiple industrial products Calix is vertically integrated, owning the input and proprietary technology that



JORC proven and probable reserve 466kT + Indicated Resource 392kT

Located in one of the largest MgCO<sub>3</sub> deposits in the world



Currently ~10% utilised

Replacement cost and capex for additional CFC is ~ A\$20m



3 established

1 planned for market entry US

1 planned for market entry EU

1 planned for SE Asia



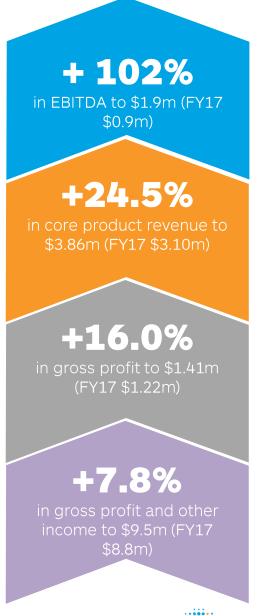




### **FY2018 FINANCIAL RESULTS**

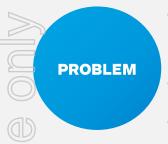
Financial Information			
Amounts in AU\$'000 unless otherwise stated	FY17	FY18	Mvt %
EBITDA (statutory)	901	1,933	102%
Core product revenue	3,104	3,864	24.5%
Gross Profit	1,217	1,412	16.0%
Gross Profit and other income	8,847	9,540	7.8%
Cash flow from operations	- 1,946	2,000	
_EBITDA (pro forma)*	225	1,681	
*Certain pro forma adjustments have been mad	e to Calix's Sta	ntutory Historia	al Results to

<sup>\*</sup>Certain pro forma adjustments have been made to Calix's Statutory Historical Results to reflect the full year impact of the operating and capital structure that will be in place following the Company's IPO as if it were in place as at 1 July 2014. The nature of these pro forma adjustments are set out on Section 3.3.2 of the Calix Limited Prospectus lodged with ASIC on 25 June 2018. The adjustments represent the removal of a one-off sale of magnesite ore in FY 17 and the addition of an estimate of costs associated with being a listed public company through the historical periods presented.



# ACTI-MAG Sewer odour and fat control, increased biogas production





- Worsening odour: Waste water "Rotten Egg Gas" problem worsening with diet changes and tightening EPA standards
- Fat build-up: More frequent sewer blockages due to "fatbergs"
- Biogas Power: Increasing need to use bio-treater methane to produce power



- Toxic chemicals: acidic iron salts and caustic soda dangerous chemicals
- Regular or emergency maintenance: expensive, disruptive

а\$36.7ь <sup>(1)</sup> МАККЕТ

# Calix Solution...

ACTI-Mag is dosed into sewers and industrial waste water

Proven to be more powerful than alternatives and yet completely safe and environmentally friendly

Helps keep infrastructure free of fat build-up, and aids in bio-treater efficiency, producing better quality and quantity of biogas

## **Key Target Milestones...**

Continue role-out of high margin business model – Aus/NZ/Asia

Initial paid trials in US Licensed partner deals

US. EU

- Initial paid trials in EUFirst repeat sales, contracts,
- Local MHL facility established US, EU

**Key Progress Since Listing...** 

- Biogas SE Asia 1 regular customer (palm oil) after 28% increase in biogas production, 1 new commenced Oct, 3 more planned by end-Dec
- Biogas Australia trial with major water utility continues
- First PO received from US West Coast – ACTI-Mag for odour and fat control trial

First ACTI-Mag biogas customer Palm Oil Plant Surat Thani, May 18

Started trial biogas customer Palm Oil Plant - Surat Thani,



# PROTECTA-MAG Cost-effective, safe sewer asset protection





- Accelerating Corrosion: H<sub>2</sub>S corrosion of aging, global sewer infrastructure due to increasing bio-activity
- Accelerating Collapses: Est. US\$60
   Trillion in replacement cost few economic solutions

Market Response

- **Epoxy / Plastic Lining**: Expensive, and temperamental
- Re-cement: Expensive, requires man-entry & shuts the sewer down



## Calix Solution...

- PROTECTA-Mag is simply sprayed onto a water-washed sewer surface
- <1/3 of the total cost of alternative methods</li>
- Can be applied without shutting down the sewer and is safe and environmentally friendly

## **Key Target Milestones...**

- Continue role-out of high margin business model – Aus/NZ/Asia
- Initial paid trials in US
- Licensed partner deals
- Initial paid trials in EU
- First repeat sales, contracts, US, EU
- Local MHL facility established US, EU

## **Key Progress Since Listing...**

- First WA assets coated in June to October campaign with new WA partner – Hutton Contracting
- Coupon (unpaid) trial commenced in US West Coast
- US Paid (manhole / wet well) trials in advanced discussions



Aug 2018, 36 months after PROTECTA-Mag application – still high pH.

# AQUA-Cal+ An emerging aquaculture water treatment product





- Rapid Growth: Aquaculture is growing rapidly. More fish are now grown than caught. Rapid depletion of coastal habitats
- Increased disease outbreaks from intensification: Numerous catastrophic crop losses due to disease in last decade



- Growth of antibiotics: but this leads to faster evolution of resistance
- Growth of probiotics: problems with efficacy and shelf life

A\$**1.5**b<sup>(1)</sup> MARKET

# Calix solution...

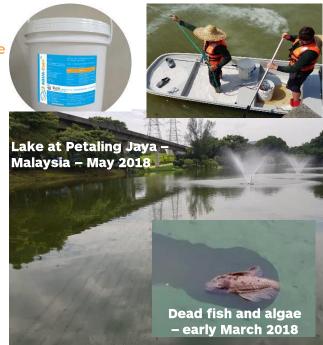
- AQUA-Cal+ is simple to use, suppresses iron, nitrates and phosphates, reduces sludge and increases oxygen
- Extends the life of existing ponds and improves yields
- Improved yields on controlled trials have delivered over 20x return on the cost of the product to the farmer

### **Key Target Milestones...**

- AQUA-Cal+ repeat sales achieved in Thailand, Vietnam, Indonesia
- AQUA-Cal+ paid trials, then repeat sales in Southern China

### **Key Progress Since Listing...**

- Regular customers now established in China – 3<sup>rd</sup> container shipped in October
- Trials continue in Vietnam, Thailand and Indonesia



New Application – fresh water lake remediation, continuing to show excellent results 8 months into 12 month trial



# BOOSTER-Mag An emerging sustainable crop protection product





- Increased Agricultural Demand: By 2050 agricultural demand is expected to increase 50%, from declining arable land
- Increasing Pesticide Restrictions: 1993 to 2011:
   EU banned three quarters of active pesticide ingredients. Over the next 5 years nearly all remaining substances will come up for review
- Chemical Pesticide Development Costs: to find and bring to market new chemical products, is now estimated at US\$200m and 10 years per product



- Investment in Ag-tech: VC investment in Ag Tech has grown 10-fold in the last 6 years
- Mega-mergers: Major global chemical companies are consolidating in an effort to mitigate R&D costs



## Calix Solution...

- BOOSTER-Mag improved yields at over 50 % less pesticide use
- Non-toxic, fertiliser PLUS crop protection
- 1/5<sup>th</sup> the average price point of existing pesticides / fungicides
- Calix has launched global partnership license "auction" based upon high gross margin ex-gate business model

## Key Target Milestones...

Material Transfer Agreement/s executed

license/s achieved

APVMA submission
APVMA approval achieved
Sales and Marketing

## **Key Progress Since Listing...**

• Two additional Material Transfer Agreement/s executed, now three in total

### Latest European Summer Results:

- Reims, France grape & maize targeting chemical free within 5 years. 3<sup>rd</sup> year of trials. Again performed well – in high disease (powdery mildew) performed as well as in-market chemical
- Holland onion looking for Mancozeb substitute (expecting it will be banned in next few years) – vs downy mildew, again similar control of disease as in-market chemicals

Vines near the village of Ay, Champagne, France – just finishing European summer BOOSTER-Mag



Olive trees near Moron, Spain – full year BOOSTER-Mag trials starting Jan 19.



## **LEILAC Low Emissions Intensity Lime and Cement - Europe**



innovation programme under grant agreement No 654465

**HEIDELBERG**CEMENT

CEMEX Quantis















- For every tonne of lime or cement produced, roughly one tonne of CO2 is emitted directly from the raw limestone
- Phase 4 of the EU's CO2 emissions reduction directive is starting in 2021 accelerating the reduction in "free" CO<sub>2</sub> allowances



- EU Innovation programs for industrial CO<sub>2</sub> reduction
- Increased activity in the European cement and lime industry in CO2 reduction technologies



# Calix Solution...

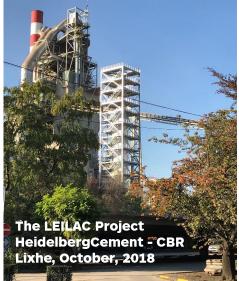
- Calix leading the LEILAC consortium to demonstrate direct separation of CO<sub>2</sub> for lime and cement
- Awarded €12m in funding from the EU, project commenced in January 2016
- Commissioning on time and budget for April 2019, demonstration plant then runs for 21 months

## **Key Target Milestones... Key Progress Since Listing...**

Successful start-up / commissioning Apr 19 LEILAC next scale-up funding

LEILAC - first Lime or Cement License

- LEILAC construction phase continues on time and budget
- Key Milestone achieved in October - European Commission review of the project and approval of grant milestone payment of €4.8m.





This project has received funding from the European Union's Horizon 2020 research and innovation programme under



## **ADVANCED BATTERIES The BATMn and SOCRATCES Projects**





- Slow-charging of energy storage devices (batteries) for EV's, electronics
- Relative high cost of battery materials
- Ease of recycling
- Use of rarer materials such as cobalt



Search for cheap, efficient, high performance, highly recyclable battery materials and processes



# Calix Solution...

Use of Calix Flash Calciner technology to

- 1. BATMn explore high surface area formulations for manganese oxide as a Li ion battery cathode material - funded 0.8m by AusIndustry AMGF
- SOCRATCES explore solar thermal energy storage via splitting and recombining Ca and CO<sub>2</sub> funded €5m by the EU H2020 scheme

## **Key Target Milestones...**

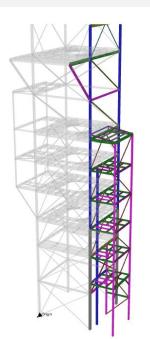
- BATMn Construct and commission successful by end-Aug, 2019
- BATMn first product trials
- SOCRATCES Construct and commission successful





## **Key Progress Since Listing...**

- BATMn project passes stage 2 milestone of Australian Manufacturing Growth Fund – major components ordered
- BATMn remains on-time and budget for commissioning August 2019
- SOCRATCES Front-End Engineering Design FEED on-track for completion end-Dec, 2018









## **Successful grant funding continues**

A\$26.6m **Total grant** funding and **R&D** rebate received - last 4 years

- Calix has been successful in achieving ~\$10m over the last 4 years to pursue BOOSTER-Mag, cement and lime, advanced batteries and mitigation CO2 across multiple projects
- addition, Calix secured \$16.6 in R&D rebates over the same period

R&D Expenses

LEILAC and SOCRATCES grants to run for two more years

- As previously stated, the Company will continue its R&D efforts as long as it continues to receive the appropriate funding (i.e. not with shareholder equity)
- The number of products near commercialisation demonstrates value produced as a result of R&D in significant markets.
- Our most recent funding is our first tranche to start to address pharmaceutical applications

**Fully**funded R&D pipeline



Other income







R&D Tax Incentive GLOBAL CONNECTIONS



Accelerating Commercialisation









### Other achievements...

### THEFIFTHESTATE **OUR PLANET OUR REAL ESTATE**

Carbon capture from cement manufacturing nears market readiness David Thorpe | 28 August 2018

A consortium led by Australian firm Calix is now well on the way to completing a pilot plant for its breakthrough echnology that will capture carbon emissions from the manufacture of lime cement



CemWeek Magazine: Jul/Aug 2018

Leaders Q&A: Phil Hodgson

As environment-friendly technology has become an inescapable subject of discussion in the cement industry. CemWeek presents an exclusive interview with Phil Hodgson, Managing Director at Calix, about carbon capture and storage (CCS) and how it can help the cement sector step up its ecologic game



**Business** business.gov.au

Calix is pleased to announce it has received notification our FY1718 R&D Tax rebate of ~\$5.1m will be paid on November 15.





Negative CO2 Cement Market to See 26.7% Annual Growth Through 2023 Push to Lower Greenhouse Gas Emissions Will Contribute to Steady Gains

WELLESLEY, Mass., Oct. 08, 2018 (GLOBE NEWSWIRE) -- A global drive to reduce greenhouse gas emissions is sparking intense interest in the negative CO<sub>2</sub>market, according to a report by BCC Research.

The industry expects to see a compound annual growth rate (CAGR) of 26.7% through 2023, when it is expected to reach nearly \$53.2 million, according to the report Negative CO2 Cement, The Blue Ocean of Growth.

Major players in the market include banahCEM, Calera SCM, Calix, Ceratech.MENA, Emc Cement Co., Geopolymer Solutions, IronKast Technologies, Reco Cement Products, Solidia Technologies and Zeobond.



Nineteen New South Wales businesses have been recognised and celebrated for their outstanding success and contribution to the state's trade output at the Premier's New South Wales Export Awards which were held at the Star on Wednesday 24 October 2018.

Environmental Solutions winner: Calix (Pymble) -Australian technology company that is developing new processes and materials to solve global challenges.





## In summary...

Financing Growth:

- Calix is fully financed for EU and US market entry and SE Asia expansion following IPO growth capital injection
- Development pipeline will continue to be covered by existing grant funding for 2 years
- New grant funding will be sought for new applications

Commitment

Calix Directors,
Management and
Staff have
invested cash to
collectively own
~20% of Calix

**Grant income secured to provide cash flow** committed, materially covering the costs of running the business

**Margin expansion and stronger profitability** expected with changing product mix and role out of business models, introduction of new products and achieving production scale at Bacchus Marsh



A fast-growing, cash positive business

Achieved cash flow positivity in FY15

# Statutory EBITDA growth >100% last 2 years

Core product growth of 25% FY17 to FY18, including 35% growth of core magnesium hydroxide liquid products

 Average gross margin growth from 30% FY17 to 35% FY18



# Huge addressable global markets

- Near-commercial products in agriculture & aquaculture
- Three pilot projects in decarbonised lime and cement, advanced batteries
- Many more products and applications to be developed
- Multiple touch-points with global chemical companies



# Proven technology platform – advanced materials

- Patent-protected
- ~A\$50 million capital spent to date to develop the technology
- Achieved A\$36 million in grant funding, majority from EU
- Major R&D collaborators internationally
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# Blue chip customers, easily scalable operation

- Value chain from own mine to customers in waste water and infrastructure
- Blue chip customers
- Exporting to Europe, China and SE Asia (Malaysia, Thailand, Indonesia, Vietnam, the Philippines)
- Commencing trials in the US





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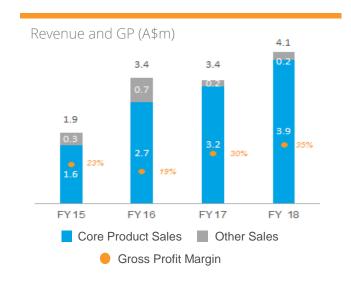
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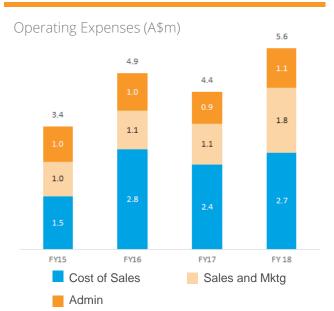
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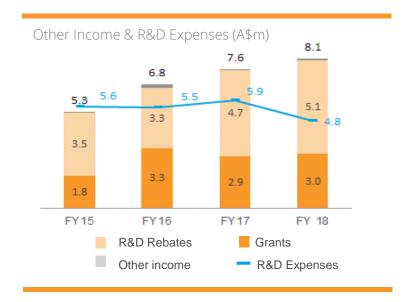


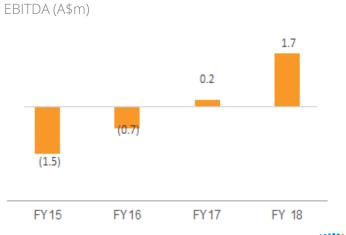
## **FY2018 FINANCIAL RESULTS (Pro Forma)**

For personal use only











## PRO FORMA STATEMENT OF FINANCIAL PERFORMANCE

			Pro Forma Hist	orical	
	\$'000	FY15	FY16	FY17	FY18
	Core product revenues	1,582	2,745	3,181	3,865
	growth (%)	-	73.5%	15.9%	35.0%
(0)	Other product revenues	354	702	200	236
	Cost of sales	(1,483)	(2,791)	(2,374)	(2,689)
	Gross profit	454	656	1,007	1,412
	Gross Margin (%)	23.4%	19.0%	29.8%	35.0%
	Other income	5,392	6,783	7,630	8,128
((0)	Total operating income	5,846	7,439	8,637	9,540
	Sales & marketing expenses	(962)	(1,080)	(1,132)	(1,755)
	R & D expenses	(5,201)	(5,545)	(5,919)	(4,764)
26	Admin expenses	(1,211)	(1,466)	(1,362)	(1,340)
	Total operating expenses	(7,373)	(8,091)	(8,412)	(7,859)
	EBITDA	(1,527)	(652)	225	1,681
$\bigcirc$	_Depreciation & impairment expense	(1,996)	(1,704)	(2,658)	(4,669)
	EBIT	(3,523)	(2,356)	(2,433)	(2,988)
2	Other Expenses	-	-	-	(209)
	Finance costs	(3)	(2)	(160)	(80)
П	Profit before tax	(3,526)	(2,358)	(2,593)	(2,699)
	Income tax expense		-	-	
	NPAT	(3,526)	(2,358)	(2,593)	(2,699)

## PRO FORMA STATEMENT OF FINANCIAL POSITION

	Pro forma 30-Jun-18
\$'000	
Current assets	
Cash & cash equivalents	8,874
Frade & other receivables	7,867
nventory	181
Fotal current assets	16,922
Non-current assets	
Trade and other receivables	274
ntangible assets	649
Property, plant and equipment	11,784
Total non-current assets	12,707
Total assets	29,629
Current liabilities	
Trade and other payables	(3.741)
Borrowings	(1,891)
Provisions	(331)
Deferred revenue	(202)
Total current liabilities	(6,165)
Non-current liabilities	
Borrowings	(131)
Deferred revenue	(1,093)
Provisions	(470)
Total non-current liabilities	(1,694)
Total liabilities	(7,859)
Net assets	21,770
Equity	
ssued equity	33,397
Reserves	3,015
Retained earnings	(14,644)
Non-controlling interests	2
Total equity	21,770

## PRO FORMA STATEMENT OF CASH FLOWS

			Pro Forma	Historical	
	\$'000	FY15	FY16	FY17	FY18
	Cash flows from operating activities				
(db)	Receipts from customers & government agencies	8,356	9,701	6,591	12,814
200	Payments to suppliers and employees	(8,104)	(10,569)	(9,003)	(10,726)
	Interest received	13	4	4	12
	Net cash from discontinued operations	-	3,035	-	-
	Net cash flows from operating activities	265	2,170	(2,408)	2,100
(CO)	Cash flows from investing activities	(,)	()	()	( · - ·
	Purchases of property, plant & equipment	(1,308)	(270)	(223)	(3,513)
	Purchases of intellectual property	-	-	(233)	(245)
	Proceeds from sales of assets	88	-	-	-
(20)	Payments for investments in associates	(41)	-	-	-
	Net cash flows from investing activities	(1,261)	(270)	(456)	(3,759)
	Cash flows from financing activities				
	Proceeds from issues of shares	115	279	479	1,842
	Proceeds from/(repayments of) borrowings	500	(1,000)	2,167	519
2	Payment of interest on borrowings	(3)	(2)	(12)	(80)
	Net cash provided by financing activities	611	(724)	2,634	2,281
1	Net increase/(decrease) in cash and cash equivalents	(385)	1,177	(229)	622
	Cash and cash equivalents at the start of the year	1,109	722	1,877	1,885
	Cash and cash equivalents at the end of the year	724	1,899	1,648	2,507

## **FUNDED DEVELOPMENT PIPELINE**

Grant Name	Total Maximum Value	Start Date	Duration	FY15 (\$'000)	FY16 (\$'000)	FY17 (\$'000)	Commercial Opportunity
Commercialisation Australia	\$1.8m	Feb-14	1.5 yrs	1,722	100	-	Novel Satellite MHL Manufacturing Plants
ASCENT (EU)	€0.5m	Mar-14	4 yrs	80	246	-	Fossil Fuel Decarbonisation / Production of Hydrogen with CO <sub>2</sub> Capture
LEILAC (EU)	€7.5m	Jan-16	5 yrs	-	2,656	2,359	Lime and Cement Decarbonisation - CO <sub>2</sub> Capture
Accelerating Commercialisation	\$1.0m	Mar-16	2 yrs	-	212	429	BOOSTER-Mag - Australian Registration and Early Commercialisation
SOCRATCES (EU)	€0.9m	Jan-18	3 yrs	-	-	-	Solar-Thermal Energy Storage with Calcium Looping
Advanced Manufacturing Growth Fund	\$0.8m	Jan-18	3 yrs	-	-	-	Advanced Battery Materials
TOTAL Grants Won				1,802	3,214	2,788	
Export Market Development Grant		Annual		62	93	76	
R&D Rebate		Annual		3,483	3,252	4,694	
TOTAL All Grants & Rebates				5,347	6,559	7,558	