

#### **ASX Announcement**

February 24, 2021

#### 1H FY21 Results PowerPoint Presentation

**Sydney, Australia | February 24, 2021 –** Multi-award-winning Australian technology company Calix Limited (ASX: CXL) ("Calix" or "the Company) is pleased to provide the following PowerPoint presentation that accompanies the 1H FY21 results announcement.

This announcement has been authorised for release to the ASX by:-

Phil Hodgson, Managing Director and CEO Calix Limited 9-11 Bridge Street Pymble NSW 2073 Ph +61 2 8199 7400

#### **About Calix**

Calix is a team of dedicated people developing a unique, patented technology to provide industrial solutions that address global sustainability challenges.

The core technology is being used to develop more environmentally friendly solutions for advanced batteries, crop protection, aquaculture, wastewater and carbon reduction.

Calix develops its technology via a global network of research and development collaborations, including governments, research institutes and universities, some of world's largest companies, and a growing customer base and distributor network for its commercialised products and processes.

Because there's only one Earth - Mars is for Quitters.

Website: <a href="https://www.calix.global/">https://www.calix.global/</a>

Twitter: @CalixLimited
Youtube: <u>CalixLimited</u>

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### **Important Disclaimer**



This presentation has been prepared by Calix Limited (ABN 36 117 372 540) ("Company").

#### SUMMARY INFORMATION

This presentation contains summary information about the Company and its subsidiaries ("Calix") and their activities current as at 24<sup>th</sup> February, 2021. The information in this presentation is a general background and does not purport to be complete.

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#### FINANCIAL DATA

All dollar values are in Australian dollars (\$ or A\$) and financial data is presented as at or for the half-financial year ended 31 December 2020, unless stated otherwise.

#### PAST PERFORMANCE

Past performance information given in this presentation is given for illustrative purposes only and should not be relied upon as (and is not) an indication of the Company's views on its future financial performance or condition. Investors should note that past performance, including past share price performance, of Calix cannot be relied upon as an indicator of (and provides no guidance as to) future Calix performance including future share price performance.

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We believe our responsibility starts at home.

That's why we're driven to use our unique technology to repair, preserve and prevent future harm to it.

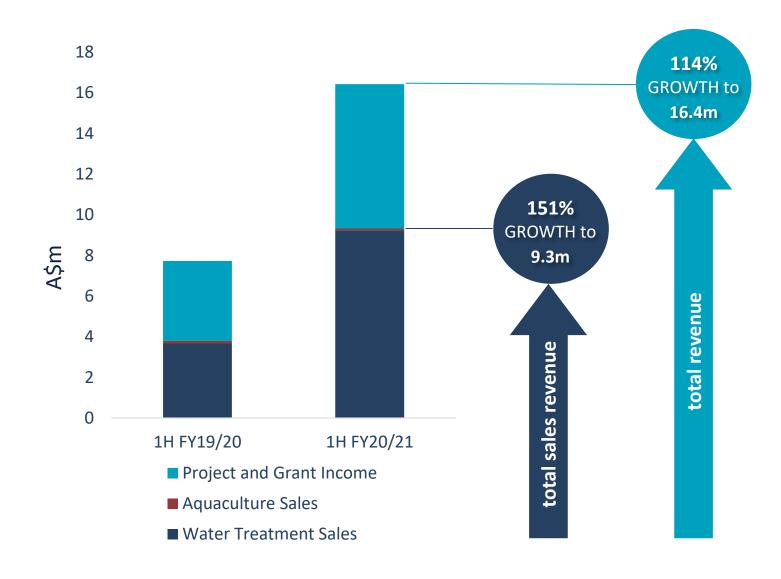
Because there's only one Earth, and it's already ours.



### **Summary of Results 1H FY21 – Continued Revenue Growth**



SALES REVENUES AND PROJECT AND GRANT REVENUES CONTINUE GROWTH TRAJECTORY



#### **Key Take-aways...**

Strong growth in sales & total revenue

Gross profit & other income up strongly on growing margins

Operating profit growing strongly as margin expansion flows through to the bottom line

#### **Despite COVID...**

- We have integrated our US acquisition and commenced our growth trajectory
- US business underlying revenue grew 14% pcp
- Overall gross margin grew to 31 % (up from 25 % pcp)

## **Summary of Results 1H FY21 - Profit & Loss Highlights**



ACCELERATING SALES, GROWING OPERATING PROFIT AND RE-INVESTING FOR FUTURE GROWTH

	HY 20/21 (\$000's)	HY 19/20 (\$000's)	Comment
Sales revenue	9,213	3,674	Up 151%
Total revenue	16,271	7,612	Up 114%
Gross Profit & Other income	9,905	4,850	Up 104%
Sales & Marketing expenses	2,902	2,015	
R&D	2,752	2,214	
Admin	1,189	866	
Operating Profit (loss)	3,062	(245)	Up 13.5x



Despite COVID, we continued to grow sales from our municipal & industrial customers — wastewater treatment an "essential service".

The impact of our plant upgrades in the US are starting to flow through to growing gross margin – up from 25% to 31% compared to H1 FY20.

Project grant income continues to flow through, with R&D projects funded for up to 3 years.

Operating costs have increased in line with consolidation of IER, but GP margin making its way to the bottom line and a strong increase in operating profit.

## **Summary of Results 1H 20/21– Balance Sheet highlights**

# **O**calix

GROWING OUR ASSET BASE, VERY LOW DEBT

	31 Dec 2020 (\$000's)	30 June 2020 (\$000's)	Comment
Total Assets	36,155	42,762	
Total Liabilities	11,950	16,532	
Net Assets/Total Equity	24,205	26,230	
Excluding deferred revenue			
Current assets	12,233	19,436	
Current liabilities	4,071	8,290	
Net surplus of current assets over current liabilities	8,162	11,146	
Property, plant & equipment	14,193	14,617	
Intangible assets, including goodwill	8,891	8,005	

Through 2020, we survived COVID and maintained a solid balance sheet – without the need to raise capital to provide additional working capital to the business.

Excluding deferred revenue, which will be recognised as income in the P&L over time, we have a strong surplus of current assets over current liabilities, and very low debt.

Plant assets (LEILAC-1) have been conservatively written down to zero. Leilac-2 is unlikely to be impaired as aggressively.

Intangibles increased slightly as we have finalised the IER acquisition accounting, and to date we have taken a conservative approach and expensed practically all R&D.

# Summary of Results 1H 20/21 – Cash Flow Statement highlights



#### CONTINUED UNDERLYING PRUDENT MANAGEMENT OF CASH

	HY 20/21 (\$000's)	HY 19/20 (\$000's)	Comment
Operating Cashflows	(3,638)	381	
Payments to LEILAC partners	(4,342)	-	
Investing Cashflows	(4,791)	(12,435)	
PPE	(4,502)	(2,489)	Leilac & US plant upgrades
Intangibles	(289)	(268)	
Business acquired	-	(9,679)	IER in HY19
Financing Cashflows	1,057	15,192	
New share issue	537	15,105	
Movement in debt	520	87	
Cash at end of period	3,710	7,563	

1H FY21 cash outflows associated with LEILAC work impacted Operating Cashflow in the half.

However, for 2020, we generated \$6.2m in Operating cashflow – including those LEILAC payments.

We have continued the investment in our technology platform and plant upgrades in the US to grow margin.

We have access to funding facilities (Export Finance Australia) to assist working capital movements associated with LEILAC projects + have other undrawn debt facilities.



# "Environment / Social / Governance" (ESG) A strengthening investing theme...



GLOBAL ECONOMIES, COMPANIES AND INVESTMENT FUNDS ARE ALL HEADING IN ONE DIRECTION....



# **50% of global GDP\*** and carbon emissions currently under net-zero commitments. Source: Energy and Climate

Source: Energy and Climate Intelligence Unit



**Companies committed to net-zero emissions** CAC 40, DOW 30, FTSE100 and IBEX 35. Source: ECOACT



# ESG Exchange Traded Funds double in 2020

US\$ 8 billion net inflows in Oct 2020 compared to US\$ 3 billion in Dec 2019 globally. Source: BloombergNEF



USD 3 trillion per year to 2030

Global investment capital required to achieve sustainability outcomes\*\*

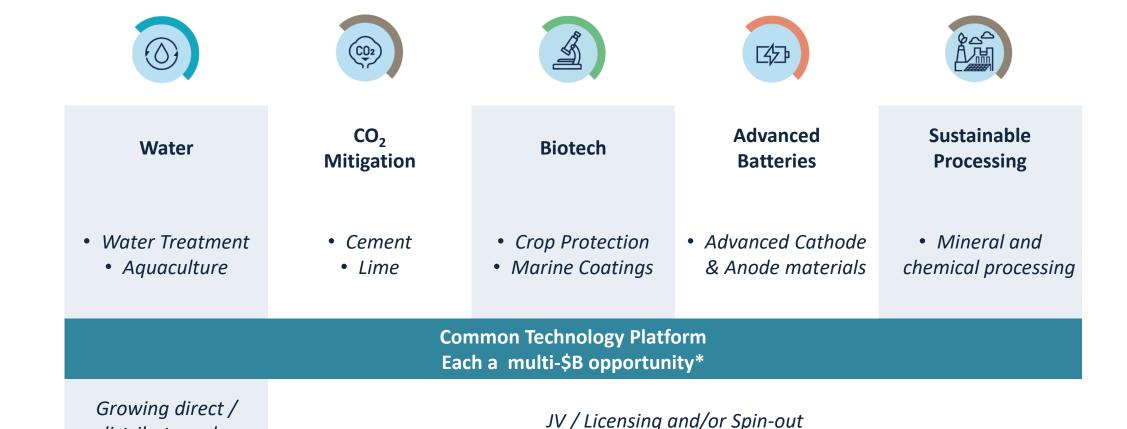
<sup>\*</sup>Excludes US – would jump to 2/3 if US commits also

<sup>\*\*</sup>IEA World Energy Outlook 2020 – Sustainable Development Scenario



# Calix Limited is developing multiple environmental business opportunities, all from the one core technology



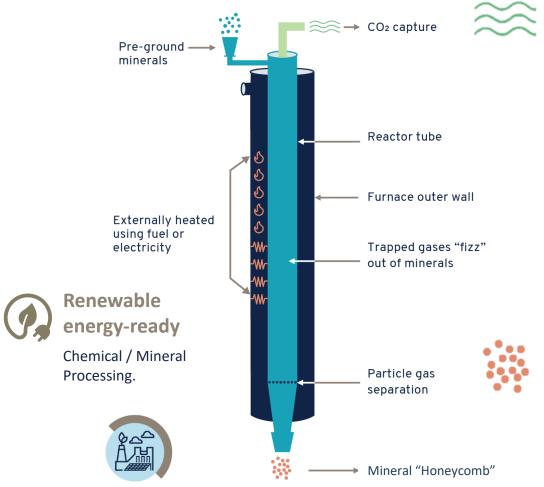


distributor sales

<sup>\*</sup>Frost and Sullivan - Market Opportunity for Calix Flash Calcination : Calix Prospectus 2018, Section 2 for Water, CO<sub>2</sub>, Advanced Battery (including Sustainable Processing) and Crop Protection opportunities

## Calix's Core Technology

A PATENTED PLATFORM TECHNOLOGY WITH 3 KEY FEATURES



#### CO<sub>2</sub> capture

When processing limestone, gas exhaust is pure CO<sub>2</sub>



#### **Highly-active materials**

Highly porous "honeycomb" structure = more chemical- and/or bio-activity









A New Type of Kiln...

The "Calix Flash Calciner" or CFC



27 patent families covering core technology and applications



>\$60m has been invested to date in developing the technology.





Water



CO<sub>2</sub> Mitigation



**Biotech** 



**Advanced Batteries** 



**Sustainable Processing** 



**Board of Directors** 



**Share Price Performance and Equity Structure** 



### Water

#### THE MOST USED SUBSTANCE ON EARTH



#### Overall revenue and growth...

Aquaculture Sales Down 28% pcp to \$0.09m

Water Treatment Sales Up 159% pcp to \$9.14m

Gross Margin Up to 31% from 25%

IER Sales Revenue Up 14% pcp (\$US basis)



# **Ocalix**

### **Our Technology**

Safe, sustainable magnesium products for water treatment and aquaculture

### **Business Model / Strategy**

Direct + Distributor sales model

#### **Near Term**

Exploit technical advantages – US
Re-establish Chinese aquaculture sales
Grow margins and revenues

#### **Medium Term**

New Calix Calciner - Americas Replicate US Market Entry - EU









## CO<sub>2</sub> Mitigation

CEMENT AND LIME - THE SECOND MOST USED SUBSTANCE ON EARTH



# **Ocalix**

# Theoretically the lowest cost solution to CO<sub>2</sub> mitigation for cement and lime

- 2018 EU ratifies phase 4 of the Emissions Trading Scheme, CO<sub>2</sub> permit price jumps from €5 to over €
   25. It has recently hit € 40.
- 2019 HeidelbergCement pledges net zero CO<sub>2</sub> by 2050, and a 30% reduction on 1990 emissions by 2025
- 2020 EU legislates net zero CO<sub>2</sub> by 2050. Several countries follow.

#### **Business** model

- Capital light / low risk
- Engineering services and license / royalty fees
- Consider equity interest to accelerate commercialisation

# Key Milestones Targeted FY21 FY21 YTD Progress

Successful LEILAC-1 Test campaign concluded

EU Approval achieved – extended campaign Key watch point COVID / resourcing – long run



Successful Basis of Design milestone – LEILAC-2

On track

#### Continue to pursue licensing opportunities

At least 1 Project / License Heads of Agreement + Commence Feasibility – fullscale plant **Cement** – project-specific concepts under discussion with 6 counter-parties



**Lime** – application-specific concepts under discussion with 4 counter-parties





































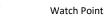
















### **Biotech**

#### MULTIPLE DISRUPTIVE OPPORTUNITIES FOR SAFER MATERIALS



# **O**calix

#### Calix "bio-active" materials ...

- Very high porosity, safe magnesium (and other metal) oxide crystals from our CFC
- Exhibits "bio-static" mode of action – a "repellent" for pathogenic organisms
- Developing license / JV business models early revenues from crop protection, a multi-\$b industry
- Very encouraging early results in marine coatings

Key Milestones Targeted FY21	FY21 YTD Progress	
Crop Protection – EU Summer Sales	<ul> <li>Only 8T sold due to COVID impacting product launch in EU</li> <li>Results from those sales were very positive</li> </ul>	<u>-</u>
Crop Protection – Licensing	Further license discussion underway – crop protection major	<b>/</b>
Marine Coatings – new opportunity	<ul> <li>3 Material Transfer Agreements in place with 2 coatings manufactured and 1 major end-user</li> <li>New trials commenced</li> <li>Current trial results continue to be very promising</li> </ul>	rs





Hull – after water wash

Leisure craft - Mornington Peninsula, VIC - 9 months in the water

<sup>\*</sup>Hull = standard copper ablative coating, Propeller = silicon-based foul-release

### **Advanced Battery Materials**

NEEDED FOR ELECTRIC VEHICLES AND BASE LOAD ENERGY STORAGE SYSTEMS



# **Ocalix**

### Calix 'BATMn' technology...

Controlled porosity materials targeting better anode and cathode performance and/or cheaper and more recyclable chemistries

 BATMn is our first fully-electric kiln, and already at commercial scale for battery materials – 2000Tpa

#### **Key Milestones Targeted FY21**

Complete and publish first half-cell results – prospective new materials and processes

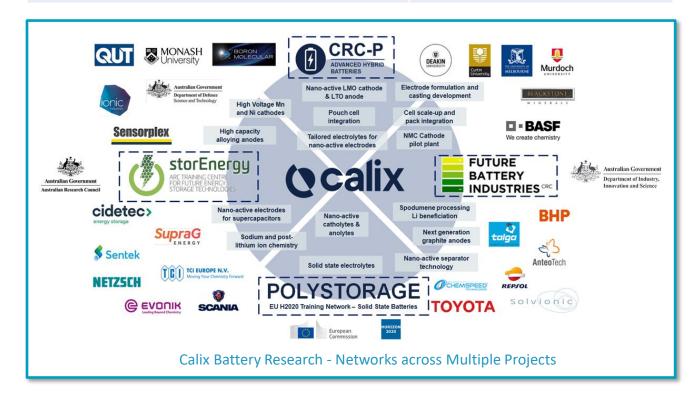
Complete full / pouch cell prototypes and testing with most prospective materials

#### **FY21 YTD Progress**

Complete – very encouraging early results

Underway











# **Sustainable Processing**

MULTIPLE OPPORTUNITIES IN ORE AND CHEMICAL PROCESSING





Calix sustainable processing applications...

- Many mineral and chemical processing require "calcination" or heating at some point
- Calix's CFC technology represents comparable capital and operating cost to conventional processes and is readily powered by renewable electricity
- Developing license / JV business models, including potential equity projects

Coy's	Scope	Status	Targeted Next Steps – FY21
"A"	Refractories	Phase 1 Complete. Phase 2 underway Commercial T&C's under discussion	Project / License Agreement
"B"	Spodumene	Early trials underway - more efficient lithium extraction	MOU – technology application
"C"	Calcined clays	Exploring opportunity in alternative cement formulations	Agreement on early trial plan
"D", "E"	Chemical processing	Exploring opportunities in various chemical processes	Agreement on early trial plan
"F"	Energy (Chemical Looping)	Exploring opportunity in base load energy system - chemical looping pilot	PO and License Agreement – Pilot Project

# Our next 12 months' priorities...















Water	CO <sub>2</sub> Mitigation	Biotech	Advanced Batteries	Sustainable Processing
Revenue and Gross	Cement and Lime	<b>Crop Protection</b>		Refractories
Margin growth via				
	<ul> <li>Successful test</li> </ul>	<ul> <li>2<sup>nd</sup> license agreement</li> </ul>	Successful full cell results	<ul> <li>Successful phase 2</li> </ul>
US: 1 new plant	campaign conclusion –			testing
	LEILAC-1	<ul> <li>APVMA approval</li> </ul>	Initial positive pouch cell	<ul> <li>Project or License</li> </ul>
EU:			results	agreement
<ul> <li>First partner</li> </ul>	<ul> <li>Successful BOD –</li> </ul>	Marine Coatings		
agreement	LEILAC-2	<ul> <li>Successful initial trials</li> </ul>	Scale-up production trials	Spodumene
<ul> <li>Convert paid</li> </ul>		with MTA partners	<ul><li>cathode materials</li></ul>	<ul> <li>Project or License MOU</li> </ul>
trials to customers	<ul> <li>First Project / License</li> </ul>			
	Agreement "full-scale"	Next biotech		BESS
Asia:	application	application		<ul> <li>Pilot Project and</li> </ul>
<ul> <li>Re-establish Chinese</li> </ul>				License agreement
AQUA-Cal+ sales				

### **Board of Directors**





Peter Turnbull, AM Non-Executive Chair



Helen Fisher
Non-Executive
Director



Jack
Hamilton
Non-Executive
Director



Lance O'Neill Non-Executive Director



Phil Hodgson Managing Director & Chief Executive Officer



Dr Mark
Sceats
Executive
Director And
Chief Scientist

Experienced Chair and Non-Executive Director with significant board and senior executive experience in the Australian and global resource, energy and technology commercialisation sectors.

Non-Executive Director of Karoon Energy Ltd. (ASX: KAR) Chair of medtech Auxita Pty Ltd, and President of the Chartered Governance Institute (London).

Chair of Calix Remuneration and Nomination Committee, and Member of Audit and Risk Management Committee. CEO and Managing Director of Bio Capital Impact Fund (BCIF), a Non-Executive director and Chair of the Audit and Risk Management Committee of Paradigm Biopharmaceuticals Ltd (ASX:PAR) and Chair of the Victorian branch of AusBiotech.

Previously a partner of Deloitte, and led Deloitte's life sciences practice in Australia for 5 years, specialising in the financial services sector, with significant M&A transactions and strategic tax advice to publicly listed and large multinational companies.

Chair of Calix Audit and Risk Management Committee.

30 years multidisciplinary experience in local and overseas energy industries, including as a Director of NWS Ventures (Woodside North-West Shelf project).

Currently the Chairman of AnteoTech Ltd (ASX:ADO). Previous Non-Executive Director positions include Renu Energy (ASX:RNE) and DUET Group (ASX:DUE).

Chair of Calix Technology Committee, and member of Audit and Risk, and Rem and Nom Committees. London-based director of DFB Australia, with 36 years of experience in international securities and investments in the UK, Australia, USA and Far East.

Chair of MediaZest Plc and EP&F Capital Plc.

14 years of multidisciplinary experience with Shell, including as the General Manager and Alternate Director of its subsidiary Fuelink Pty Ltd, a \$700m revenue, 300-employee distribution and sales subsidiary.

7 years running a private consultancy providing strategy and M&A services across energy, food, infrastructure and water sectors.

Joined Calix in 2013 as CEO, became a Director in 2014 and is a member of Calix's Technology Committee.

Co-founder of Calix, and a member of Calix's Technology Committee.

Qualified physical chemist with over 52 years' experience, numerous academic roles, and numerous fellowships and recognitions.

CEO of the Australian Photonics CRC for 14 years.

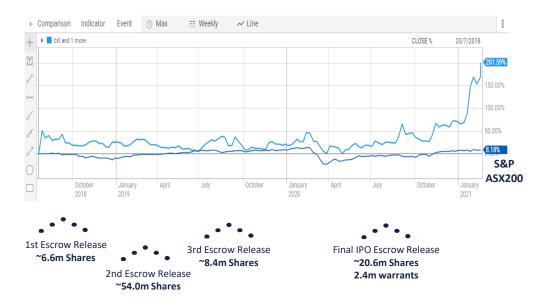
Author of more than 145 academic papers in physical chemistry and inventor of 42 patented inventions.

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# Listed on the ASX in July, 2018

**ASX:CXL** 

#### **Share Price Performance Since Listing**



Further Equity Detail	As at 22 February 2021
Free Float	148.9m shares
Warrants to be exercised by July 2022 (\$0.66 Strike Price)	1.2m warrants
Employee Incentive Scheme Rights	7.6m rights



	As at 22 February 2021
Shares on issue	~148.9m
Share price for IPO Capital Raise	\$0.53 per share
Share price on IPO	\$0.62 per share
Current Share price	\$1.90 per share
Market capitalisation	~\$283m
Cash as at 31 Dec 2020 (Company has very low debt)	\$3.7m

Major shareholders*	As at 22 February 2021	
Board & Management	15.3%**	
Perennial Value Management	13.5%	
Nicholas Merriman and associates	8.8%	
Australian Super Pty Ltd	7.1%	
Thorney Investments	7.0%	
Paul Crowther	5.7%	

<sup>\*</sup>Sculptor Capital Management ceased to be a substantial holder in early February 2021

<sup>\*\*</sup> Down from 17.5 % at IPO due to Sep 2019 Capital Raise (net dilution), plus some management changes since July 2018- to current dates

# Because there's only one Earth...



# ...Mars is for quitters

#### **Phil Hodgson**

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#### **Darren Charles**

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