STELLAR

HEEMSKIRK TIN PROJECT

Tin in Tasmania Investor Presentation Melbourne 1st August 2018 ASX: SRZ www.stellarresources.com.au

HEEMSKIRK IS TIN IN TASMANIA

STELLAR RESOURCES LIMITED (ASX:SRZ)

STELLAR RESOURCES OVERVIEW

EXPLORATION POTENTIAL

TIN IS AN ENERGY METAL WITH A BRIGHT FUTURE



DARE TO DREAM IS HEEMSKIRK ANOTHER RENISON?





THE INVESTMENT OPPORTUNITY

STELLAR RESOURCES - OVERVIEW

WEST COAST TASMANIA - AUSTRALIA'S LARGEST AND MOST PRODUCTIVE TIN FIELD

FIRST CLASS POSITION IN TASMANIA'S BEST UNDEVELOPED TIN ASSETS

- Stellar's flagship Heemskirk Tin Project is the highest grade undeveloped tin deposit of significance listed on the ASX
- Stellar owns 100% of all tin properties including Heemskirk
- Five underground metal mines, three currently operating, within 30km of Heemskirk – significant sunk capital in associated infrastructure
- Port of Burnie, 150km to the north, services all west coast mines and will provide access to world markets
- Renewable power and water are nearby and accessible
- Competitive market for services, mining and processing inputs and labour exists in Tasmania's NW
- Satellite projects at St Dizier and Mt Razorback add potential value to Heemskirk at low cost



ADVANCING MULTIPLE DEVELOPMENT OPTIONS

WEST COAST TASMANIA - AUSTRALIA'S LARGEST AND MOST PRODUCTIVE TIN FIELD

HEEMSKIRK

- JORC 2012 Resource of 6.25mt @
 1.13% tin or 72,000t of contained tin
- Underground development comparable to Renison Tin situated 18km to NE
- Opportunity to stage development through sequential mining of deposits and a modular processing plant
- PFS level mining and metallurgy studies and a fast start optimization completed
- Mining Leases granted for 12 years
- Significant exploration potential around known deposits, below historical Pb/Ag mines and along major structures

ST DIZIER

- JORC Resource of 1.2mt @ 0.7% tin
- Similar style of mineralization to that mined at Mt Bishoff
- Potential for low cost open pit development (SR of 4:1)
- All weather road runs within 1km of St Dizier and connects the deposit to a proposed processing plant at Zeehan

MT RAZORBACK

- Mt Razorback contains two small historical tin mines – Razorback and Grand Prize and a tailings dam
- Tailings have potential for upgrading to saleable product
- Historical diamond drilling and trench sampling of the Razorback pit floor have identified ore grade tin mineralization down to at least 100m
- Geological and structural setting is similar to that at Renison Tin
- 3km structure extends from Razorback to Grand Prize and contains untested tin in soil targets

HIGH GRADE CASSITERITE TIN RESOURCE

JORC 2012 RESOURCE ESTIMATE(2016 Update)

Heemskirk

2. block cut-off grade of 0.6% tin

Classification	Deposit	Tonnage	Total Sn	Contained	d Cassiterite ¹	Cu	Pb	Zn	S	SG
		mt	%	Sn t	% of total Sn	%	%	%	%	mg/l
Indicated	Upper Queen Hill	0.47	1.15	5,000	91	0.12	1.30	0.81	13.80	3.72
	Lower Queen Hill	0.82	1.42	12,000	99	0.03	0.22	0.23	17.91	3.45
Total Indicated		1.29	1.32	17,000	96	0.06	0.61	0.44	16.55	3.55
Inferred	Lower Queen Hill	0.35	1.50	5000	98	0.04	0.14	0.09	16.9	3.31
	Severn	4.03	0.97	39000	99	0.06	0.03	0.05	8.34	3.18
	Montana	0.68	1.56	11000	96	0.07	0.72	1.18	17.8	3.68
Total Inferred		5.06	1.09	55000	98	0.06	0.13	0.25	10.23	3.26
Total Indicated + Inferred		6.35	1.13	72,000	97	0.06	0.23	0.29	11.48	3.32
1.cassiterite = (tota	l Sn% - soluble Sn%)/tota	l Sn%								

high grade cassiterite





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SATELLITE PROJECTS ADD RESOURCE POTENTIAL

St Dizier

Classification	Tonnage	Total Sn	Contained	Soluble	Cassiterite ¹	WO ₃	Fe	S
	mt	%	Sn t	Sn %	% of total Sn	%	%	%
Indicated	1.20	0.69	8,280	0.09	87	0.04	23.70	2.64
Inferred	1.06	0.52	5,512	0.22	58	0.05	22.22	1.81
Total Resource	2.26	0.61	13,786	0.15	75	0.04	23.00	2.25

1.cassiterite = (total Sn% - soluble Sn%)/total Sn%

2. block cut-off grade of 0.3% tin

3. tonnes rounded to reflect uncertainty of estimate

4. estimates prepared by Resource and Exploration Geology under JORC 2012

St Dizier Cross-Section





Razorback Long Projection

CORPORATE OVERVIEW SHARE PRICE YET TO REFLECT SOLID ACHIEVEMENTS AT HEEMSKIRK TIN

COMPANY OVERVIEW

- 100% owner of Heemskirk Tin Project, 150km south of Burnie, Tasmania
- Stand- out high grade resource (1.13% Sn) with vision to be a major Australian tin producer
- Metallurgical optimisation added to the project
- Fast start lowered capex and reduced time to first production

Financial information

Share price (31-July-18)	A\$0.016
Number of shares	379.7m
Market Capitalisation	A\$6.1m
Cash (30-Jun-18)	A\$1.2m
Debt (30-Jun-18)	No Debt
Enterprise value	A\$4.9m

15m unlisted options (exercise prices A\$0.06 to A\$0.12, expiring on 20-Nov-19) and 59m A\$0.05 options expiring on 18 May 2020



OWNERSHIP REFLECTS STRONG TIN INVESTOR SUPPORT

Capetown S.A.	16.7%
Bunnenberg Family	11.9%
Directors & Management	2.1%
Top 20 Shareholders	52.2%

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THE INVESTMENT OPPORTUNITY

NEW TECHNOLOGY TO DRIVE TIN USE

The Next Growth Period for Tin is

about to Emerge:

- Rio Tinto ranks tin as the metal best placed to benefit from new technologies.
- Tin use in electrical and energy storage applications is easy to achieve and potentially disruptive
- New uses of tin could have a major impact on market size



TIN DEMAND

BATTERY AND CHEMICAL USE ALREADY IMPORTANT







- Global demand growth of 2% pa since 2012
- China represents 45% of global tin demand
- Lead-acid battery use up 15% pa since 2012, 46% pa in China over the same period
- Tin intensity in lead-acid batteries is still rising due to increased demand for hybrid vehicles
- Chemicals also an area of strong growth 4% pa since 2012 – now second largest end-use at 17%

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FUTURE GROWTH FOR TIN IN EV BATTERIES

POTENTIAL TIN USE IN 2ND GENERATION EV BATTERIES

ITA VIEW OF TIN'S ROLE

The main focus for tin is in the positive anode electrode of lithiumion batteries, usually made today from graphite on a copper foil. Nextgeneration products are already adding silicon into the graphite to increase capacity. Some will probably use tin, either as an alternative or in addition to enhance silicon performance. For example, China's largest electric vehicle producer, BYD, recently patented a tin-cobalt-carbon technology for anodes







ADVANTAGES OF USING TIN IN EV AND PV



Increases energy density in battery anodes = increased battery life University of Alberta, Cornell University, Furukawa Group, University of Texas

Improves conductivity of silicon and graphite anodes = improved cycle times Nissan, Daimler, Samsung applied for patents



Stabilises lithium and sodium anodes in solid state batteries = improved safety Toyota, Japanese Car Industry Research JV, Penn State University



Tin nano-particles for SnS, SnSC and SnCoC anodes = reduced battery cost China's largest car company BYD conducting research

Superior performance in PV straps = easier and cheaper to apply than silver EI Dupont, Samsung, Hitachi applied for patents



Tin perovskite in PV cells = increased energy efficiency and improved economics University of Groningen research



Source: ITA, WBMS, China Customs Sheets

MINE PRODUCTION DECLINING

- Excluding Myanmar, global mine production is 10% below its 2014 high
- Predictable production (hard rock and corporate alluvial) has fallen the most
- Hard rock underground has declined from 39% of supply to 32% in 3 years
- All of the growth in 2016 and 2017 has come from Myanmar and artisanal alluvial mines in Indonesia, Nigeria, and the DRC
- Looking forward, production from Myanmar is now declining and compliance requirements on artisanal alluvial production are restricting growth from this source





MYANMAR FACING LOWER PRODUCTION

- ITA expect Myanmar production to fall by 12kt or 18% in 2018 the first year of decline since 2012
- Lower production in 2018 is anecdotal and not yet reflected in shipments due to government stock reduction
- Ore grade has fallen from 3.0% + at the surface to 1.5% underground
- Mining and processing costs are up materially due to the higher proportion of hard-rock underground ore
- Chinese smelters have reduced production in response to the higher cost of concentrate from Myanmar
- Limited exploration has failed to deliver new low-cost sources of supply

The mining method has gone from easily accessible pits in 2013..... to significantly more expensive underground adits in 2018



WHERE IS THE NEW SUPPLY?

- Myanmar's strong production growth occurred because of proximity to smelting facilities in China, access to Chinese capital and cultural ties between miners and smelters – a situation unlikely to be repeated
- Inner Mongolia is the next growth area for China but it plans to add just 8% to domestic production over 5 years
- DRC is expected to add 9,000t by 2020 but it took exceptional grade (4.34% tin) to finance the Bisie development
- No other significant projects in the development queue are currently financed suggesting an impending pause in greenfield supply growth beyond 2020



IMPROVED TIN MARKET OUTLOOK PRICE HAS STEADILY IMPROVED SINCE 2015 LOW

Tin Price Drivers

- Demand growth of 2.0% pa to 2020 with stronger growth to follow
- EV and PV sectors providing opportunities for new demand
- Traditional supply sources facing declining grade and rising costs
- New sources of supply facing LIMITED ACCE
- LME stocks remain low and SHFE stocks should decline as surplus production in China falls
- LME price recovery is yet to reflect the outlook of a tightening market



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THE INVESTMENT OPPORTUNITY

HEEMSKIRK PRELIMINARY FEASIBILITY MAXIMISE MINE PRODUCTION



Severn

Drift & Fill

• Ore schedule based on maximizing the mining rate

• Renison flow sheet used for ore processing

deposits

- Optimisation focused on tin recovery coarser grind size, improved sulphide float and reduced impact of slimes
- Recovery for Severn now higher than the best results for Renison (ie 75% +)
- Focus shifted to lowering capital

Severn Long Hole Stoping

HEEMSKIRK FAST START MINIMISE CAPITAL

- Fast start focus to reduce development capital and get into production 6 months sooner
- Stage 1 Lower Queen Hill with Stage 2 development of Severn
- Higher grade (1.29% Sn) in first 3 years of production
- 57% reduction in capital cost and lower risk

Fast Start - Lower Queen Hill Development plan

- Mining schedule and costs estimated by MiningOne
- Worley Parsons assessed metallurgical performance using ALS Burnie test results
- Worley Parsons estimated process plant costs
- Mincore revised capital cost estimates for stage 1 of a potentially 3 stage plant

Fast Start – Processing Plant





PROGRESS THROUGH EARLY HURDLES SEVERAL STUDIES COMPLETED FINAL FEASIBILITY REMAINING

Study	PFS (Prelim Feasibility	OPFS (Optimisation)	Fast Start (Scoping)		
		Increasing NPV/Capex			
Completion	Jul-13	Nov-15	Sep-16		
Development Strategy	underground mine all deposits concurrently standalone processing plant	underground mine all deposits concurrently standalone processing plant third party processing	underground mine sequential development standalone processing plant third party processing		
Deliverables	Max throughput Op cost 60th percentile mining study - 7yr life recovery 70% Renison - flow sheet adopted	Max throughput Op cost down 10% on PFS optimised fill - 7 yr life recovery up by 4.3% to 73% circuits optimised	1/3 Max throughput OPFS op cost Iower scale - 20yr mine life recovery 73% modular smaller plant		
Economics	Capex - standalone plant NPV/capex = 0.5	Capex reduced 12% gain on PFS: NPV/capex = 0.9	Capex 50% of OPFS NPV/capex = 1.5		
Assumptions	US\$22,000/t Sn, 0.750SD/AUL	US\$22,000/t Sn, 0.750SD/AUD	US\$22,000/t Sn, 0.75USD/AUD		

Mining: MiningOne and Polberro Consulting Metallurgy: ALS Metallurgical and WorleyParsons Environmental: John Miedecke and Partners

Process Engineering: WorleyParsons, GR Engineering and Mincore

MINING LEASES GRANTED

SIGNIFICANT PROJECT MILESTONE THAT INCREASES TENURE AND SECURITY OVER THE RIGHT TO MINE TIN

- ML2023P/M, ML2040P/M and ML2M/2014 granted to wholly owned subsidiary Columbus Metals Limited
- MLs secure tin deposits and sites for the tailings pipeline route and tailings storage facility
- Term is 12 years to 1st January 2029
- Provides right to carry out mining operations in the lease area in accordance with the Mineral Resources Development Act 1995
- Right to mine tin and all other metallic minerals
- All conditions of the ML can be met through the existing activities planned by Stellar
- No minimum expenditure commitments



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THE INVESTMENT OPPORTUNITY

HEEMSKIRK'S EXCELLENT POTENTIAL

EXPLORATION COULD INCREASE HEEMSKIRK 3X

- Queen Hill, Severn and Montana open down plunge
- Granite source rocks inferred to be >1.0km from surface from gravity data modelling
- Zoned deposits show potential for repetition vertically and horizontally
- Severn is an example with stacked deposits that are not fully explored
- Montana is an example of a Ag/Pb deposit with a parallel Sn zone
- No drilling below historical Ag/Pb workings for Sn deposits



HEEMSKIRK'S EXCELLENT POTENTIAL

EXPLORATION COULD INCREASE HEEMSKIRK 3X

- Helimag data supports the gravity model with depth to granite source rocks > 1.0km
- No granite intersected in any historical or recent drill holes
- No drilling below a depth of 500m from surface
- Significant exploration potential in the 500m vertical zone between the granite and the deepest drill hole
- Renison has more than 6,000 drill holes and 50 years of mining to identify its resource
- Heemskirk has only 150 diamond drill holes from surface with most in the top 300m



EXPLORATION POTENTIAL AT MT RAZORBACK EL11/2017 MT RAZORBACK GRANTED

- 10km via existing roads to Heemskirk or Renison
- Potential to recover cassiterite from tailings
- Potential to define a mineral resource below the Razorback open pit
- Exploration potential along the Razorback and Grand Prize Faults
- Untested soil geochemistry over the 3km Razorback fault
- Geology and structure similar to Renison





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DARE TO DREAM IS HEEMSKIRK ANOTHER RENISON?





THE INVESTMENT OPPORTUNITY

DARE TO DREAM – HEEMSKIRK THE NEXT RENISON?

- Renison, Australia's oldest and largest tin mine is located 18km to the NE of the Heemskirk Tin deposits
- Heemskirk and Renison share the same geology and structural setting
- Renison started with a 5 year mine life in 1968 treating 0.8mtpa ie a 4.0mt reserve
- Successful underground exploration has allowed the mine to operate for 50 years, treat 23mt of ore and still have 15mt in resources
- The Heemskirk deposits are shown superimposed on the Renison long section and at 72kt of tin represent just 20% of the tin found at Renison



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THE INVESTMENT OPPORTUNITY

NEXT STEPS

- **Explore Razorback Fault** define exploration drill targets from soil geochemistry
- Metallugical testing Razorback tailings and ore in pit floor
- **Drilling of Razorback targets** 3 to 4 hole program
- \bigcirc
- **Review development options** for St Dizier tin project
- \bigcirc
- **Fund surface drilling or exploration decline** to define a Measured and Indicated Resource at Heemskirk Tin



Complete a definitive feasibility study and a DPEMP for Heemskirk Tin

HEEMSKIRK – A WORLD CLASS TIN PROJECT



Source: public resource and reserve statements

Producers are underground mines that are comparable with Heemskirk No tonnage and grade information available for underground mines in China and Bolivia or surface mines in Indonesia

- Heemskirk is well placed on the grade tonnage curve – it has potential to increase grade and tonnes
- Existing underground producers San Rafael and Renison facing declining grade as are other producers
- Many competitors are lower grade or in higher risk jurisdictions
- Competitors with remote projects face higher infrastructure and service costs compared with Heemskirk

THE INVESTMENT OPPORTUNITY





Low cost investment – market capitalization undervalues Stellar's tin assets



Significant exploration potential – upside is a 3x increase in the resource base



7 Tin is emerging as an energy metal – second generation battery raw material demand to drive opportunities for tin



Tin supply growth is constrained by limited access to capital which will underpin higher prices



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DISCLAIMER

FORWARD LOOKING STATEMENT

This presentation may include forward-looking statements. Forward-looking statements include, but are not limited to statements concerning Stellar Resources Limited's planned activities and other statements that are not historical facts. When used is this report, words such as "could", "plan", "estimate", "expert", "expect", "intend", "may", "potential", "should", and similar expressions are forward-looking statements. In addition, summaries of Exploration Results and estimates of Mineral Resources and Ore Reserves could also be forward-looking statements. Although Stellar Resources Limited believes that its expectations reflected in these forward-looking statements are reasonable, such statements involve risks and uncertainties and no assurance can be given that actual results will be consistent with these forward-looking statements. The entity confirms that it is not aware of any new information or data that materially affects the information included in this report and that all material assumptions and technical parameters underpinning this announcement continue to apply and have not materially changed. Nothing in this report should be construed as either an offer to sell or a solicitation to buy or sell Stellar Resources Limited securities.

COMPETENT PERSONS STATEMENT - RESOURCES

The information in this report that relates to Mineral Resources was prepared in accordance with the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' (JORC Code) by Tim Callaghan of Resource and Exploration Geology. Tim Callaghan is a Member of The Australasian Institute of Mining and Metallurgy ("AusIMM"), has a minimum of five years' experience in the estimation, assessment and evaluation of Mineral Resources of this style and is the Competent Person as defined in the JORC Code. This report accurately summarises and fairly reports his estimations and he has consented to the resource report in the form and context in which it appears.

COMPETENT PERSONS STATEMENT - EXPLORATION

The drill and exploration results reported herein, insofar as they relate to mineralisation, are based on information compiled by Mr. R.K. Hazeldene who is a Member of the Australasian Institute of Mining and Metallurgy. Mr. Hazeldene has sufficient experience relevant to the style of mineralisation and type of deposits being considered to qualify as a Competent Person as defined by the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the JORC Code). Mr. Hazeldene consents to the inclusion in the presentation of the matters based on his information in the form and context in which it appears.

APPENDIX

HISTORY OF HEEMSKIRK TIN PROJECT BOARD OF DIRECTORS 34

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PATH FROM DISCOVERY TO DEVELOPMENT

WEST COAST TASMANIA - AUSTRALIA'S LARGEST AND MOST PRODUCTIVE TIN FIELD

EVOLUTION OF A WORLD CLASS TIN PROJECT

- QH tin deposit discovered early 1960s by Gippsland Ltd
- Aberfoyle jv with Gippsland in 1971 discovered Montana and Severn deposits
- Aberfoyle focus on pyrometallurgical (fuming) processing which was too expensive in 1980s to proceed to development
- Renison was keen to integrate Heemskirk into its operations in the 1980s but was unable to complete a deal with the owners.
- Stellar approached Aberfoyle in 2008 and acquired their 60%
- Stellar acquired the remaining 40% interest in 2012
- Stellar has undertaken several programs at Heemskirk on drilling, geology, metallurgy, environment, mining and processing
- Stellar has also undertaken drilling programs and mining, metallurgy, and environment studies at St Dizier
- Work also recently commenced on the Razorback tenement acquired in late 2017



EXPERIENCED AND MULTI-DISCIPLINARY WITH STRONG GLOBAL CONNECTIONS BOARD OF DIRECTORS



PHIL HARMAN, NON-EXECUTIVE CHAIRMAIN GEOPHYSICIST

Over 30 years experience in BHP Billiton minerals exploration Past and present Director of several ASX listed companies



PETER BLIGHT, MANAGING DIRECTOR GEOLOGIST

30 years experience in exploration, mining and finance sectors Previously worked for UBS, UC Rusal and Rio Tinto



MIGUEL LOPEZ DE LETONA, NON-EXECUTIVE DIRECTOR MANAGEMENT CONSULTANT

Experience as a management consultant and banker with leading financial institutions. Based in Belgium and advises on investment in the mining and oil and gas sectors





THOMAS WHITING, NON-EXECUTIVE DIRECTOR GEOPHYSICIST

Former manager of BHP Billiton exploration Chairman of Deep Exploration Technologies Cooperative Research Centre

MELANIE LEYDIN, COMPANY SECRETARY CHARTERED ACCOUNTANT

Over 25 years experience as an accountant and 15 years as a company secretary. Leydin Freyer provides accounting and company secretarial services for a number of ASX listed companies.

STELLAR

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