## CONSOLIDATED TIN MINES LTD

Cairns Hinterland Tin Project

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ASX: CSD

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## Mt Garnet Project location

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# HERBERTON TIN FIELD BRIEF HISTORY

## Herberton Tin Field History

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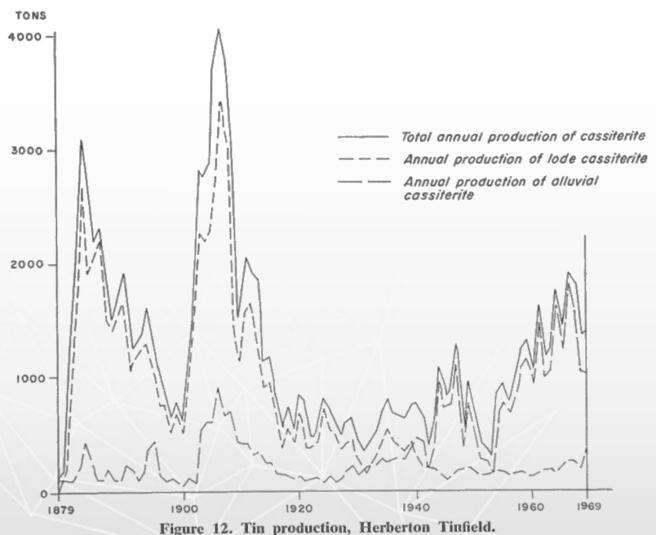
- 1875 Tin discovered by James Venture Mulligan.
- 1879 Jack, Newell, Brandon, Brown proved payable tin in Prospectors Gully, where Herberton town now stands
- Became one of the richest tin finds in Australia
- Mined for over a century, with over 2,000 named mines worked
- Mining stopped 1985 due to tin price collapse
- No operating tin mines today





## Herberton Tin Field History

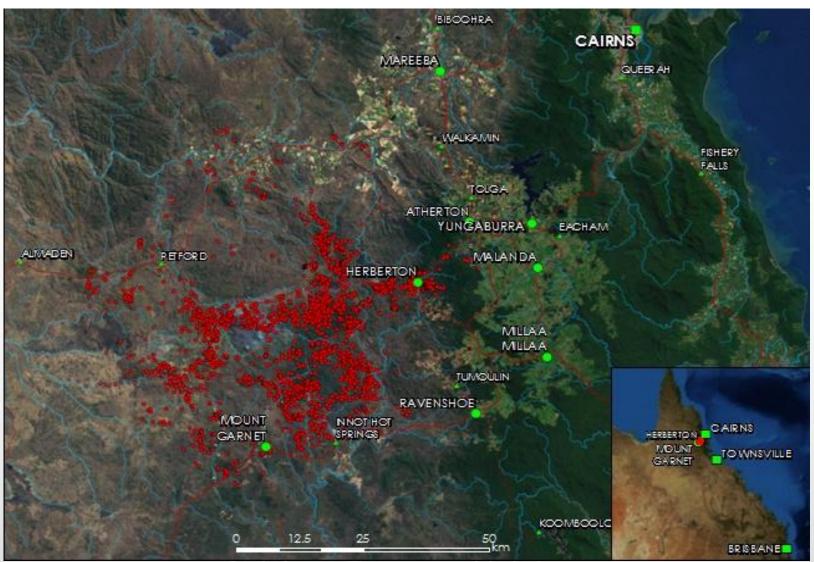




#### Herberton Tin Field



Historic Tin Mines in Herberton Tin Field:





# NEW TIN SUPPLY FROM HISTORIC TIN FIELD

## Large Mineralised Area

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Queensland, Australia, showing Herberton Tin Field (in red)



- Large area of over 5,000km²
- Initial mining was very high grade, decreasing over the 100+ years of mining
- Massive potential for a 'second generation ' of the Herberton tin field mining large volume /low grade tin
- Significant volumes of low grade open pit minable ore remains
- **Enormous Potential**

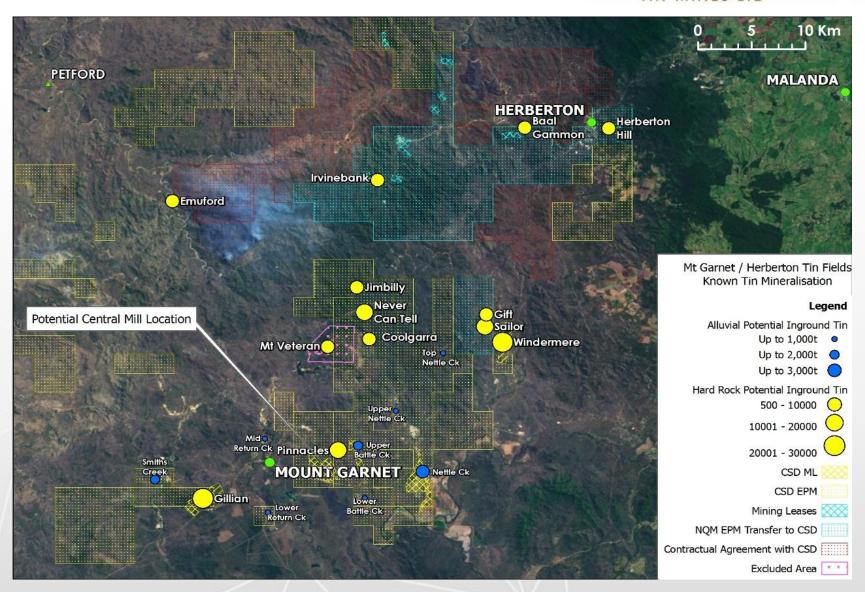
#### Known Tin Potential



- Millions of dollars have been spent exploring & drilling the tin field
- Drilling before the tin price collapse was mostly for 'in house' use & does not comply with 2004 JORC Resource reporting Code
- Not meeting modern reporting standard does not mean the tin does not exist
- CSD model is to establish only sufficient ore to modern reporting standard for first 8 to 10 years mine life
- The key to the success of the 'second generation' of the Herberton
   Tin Field is a mill with the economy of scale to profitably treat medium
   grade ore (< 0.5% Sn)</li>

#### Herberton Tin Known Tin

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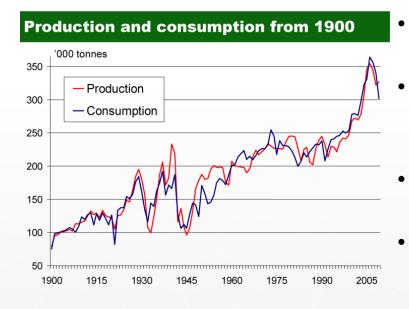




# CURRENT FACTORS CONTROLING TIN PRICES

## Historic Tin price & Uses





 Nominal/real price – inflation adjusted

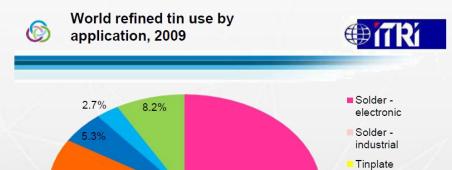
- Long term consumption trend met by production
- Mid 1980s Tin price crash blamed on International Tin Council stockpile management -but also tin use change
- Late 1970s ½ tin went to tinplate, then plastics/aluminum replaced tinplate
- 2000's Solder is principal use



### Current Uses



Refined Tin Consumption by Use, 2004-2010											
tonnes	2004	2005	2006	2007	2008	2009	2010e				
Usage by applic	ation										
Solder	157,300	168,500	197,200	203,400	182,300	172,000	194,300				
Tinplate	60,500	59,700	59,600	58,100	57,200	53,800	58,800				
Chemicals	49,700	48,700	50,000	52,500	47,800	42,500	51,000				
Brass & Bronze	20,200	20,000	21,500	21,100	20,100	18,200	19,500				
Float Glass	6,600	6,800	6,700	7,700	6,500	7,500	7,000				
Others	33,500	31,900	32,700	30,000	34,500	26,200	29,700				
Total	327,700	335,500	367,700	372,700	348,400	320,200	360,300				



13.3%

16.8%

6.3%

47.4%

■ Chemicals

Float Glass

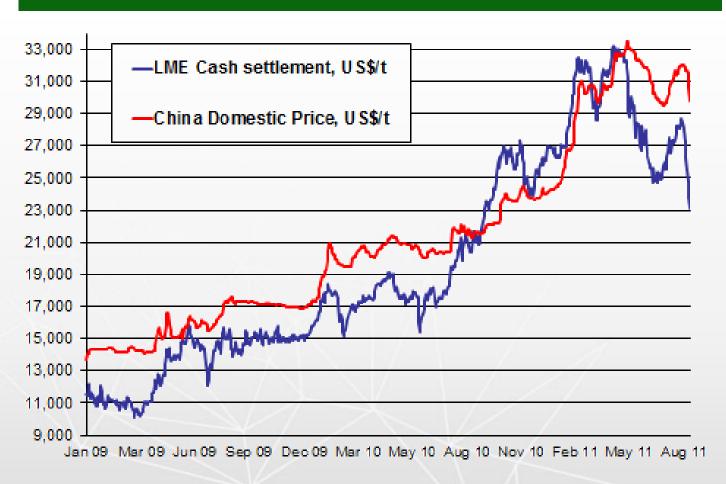
Others

■ Brass & Bronze

#### Tin Market



#### China premium widens as LME dives



# Tin Production & Consumption



('000 tonnes)	2009				2010				2011e		
	Q3	Q4	Year	Q1	Q2	Q3	Q4	Year	Q1	Q2	Year
Production											
China	38.0	41.3	140.6	35.0	39.4	40.1	40.5	155.0	39.0	41.0	160.5
Indonesia*	19.3	16.4	64.5	13.6	14.4	14.2	14.9	57.1	13.3	15.2	57.7
Malaysia	10.5	7.5	36.4	9.4	9.6	10.4	9.3	38.7	9.5	10.0	38.0
Thailand	5.0	4.0	19.3	5.0	5.6	6.3	6.6	23.5	6.4	6.4	23.0
Bolivia	3.9	4.0	15.0	3.8	3.8	3.7	3.7	15.0	3.5	3.5	15.0
Brazil	2.7	2.4	10.4	1.8	1.6	1.6	1.7	6.7	1.8	2.0	8.5
Peru	8.2	7.6	33.9	9.0	9.1	8.8	9.2	36.1	8.8	7.0	28.5
Belgium	2.3	2.2	8.7	2.4	2.6	2.5	2.4	9.9	2.1	2.5	11.0
Russia	0.3	0.2	1.0	0.3	0.2	0.2	0.3	1.0	0.2	0.2	1.0
Other	1.5	1.5	6.0	1.7	1.7	1.8	1.8	7.0	1.8	1.8	7.5
Total World	91.8	87.1	335.8	82.0	87.9	89.7	90.4	350.0	86.4	89.6	350.7
Consumption											
China	35.1	38.0	132.4	33.3	40.4	37.4	38.1	149.2	37.0	40.5	157.5
Japan	7.0	7.5	27.1	8.1	8.2	8.0	8.2	32.5	8.3	7.2	26.5
Other Asia	14.4	15.4	58.8	16.5	16.4	16.5	17.5	66.9	16.0	16.0	68.0
USA	6.0	6.0	26.4	7.5	7.5	7.5	7.5	30.0	7.5	7.5	29.0
Other Americas	4.2	4.2	16.6	4.5	5.0	5.5	5.4	20.4	4.8	5.0	20.0
Europe	14.0	14.3	55.8	15.0	15.0	15.0	14.9	59.9	15.0	15.0	56.0
Other	0.8	0.8	3.0	0.8	0.8	0.7	0.8	3.1	0.9	0.9	3.2
Total World	81.5	86.2	320.1	85.7	93.3	90.6	92.4	362.0	89.5	92.1	360.2

<sup>\*</sup> Note: Indonesian production excludes metal re-refined in other countries

Data: production - CNI-A, Malaysia Chamber of Mines, MSC, PT Timah, Thaisarco, Minsur, SNIEE, WBMS consumption - USGS, WBMS, ITRI

#### Tin Uses

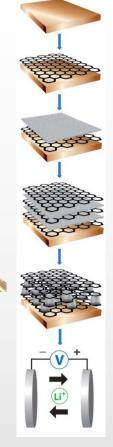
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An ancient metal with many modern uses

- Traditional uses: bronze & tin plate
- Lead free solder in the electronics age
- Apart from these major uses tin has many everyday uses in the modern world:
  - Toothpaste
  - o Paint
  - o Glass
  - Panel lighting
  - Frost-free windshields
  - Shaving foam
- New uses are being developed constantly:
  - o Fuel catalysts
  - Glass coating
  - Electroplating
  - Cement additives
  - o Brake pads
  - Lithium ion batteries









## CONSOLIDATED TIN MINES LIMITED

## Project Location



Mt Garnet proposed Central Mill location:



## Company Highlights



- Major Herberton Tin Field presence, holding large historic mineralisation areas
- Plan to develop several open pit mining operations producing around 5,000t tin metal in concentrate per annum
- Initial mine life 8-10 years at 1mtpa mill throughput
- Project well positioned relative to major road, rail & port infrastructure

#### JORC Resource Table



TIN (Sn)	Measured tonnes	Grade %	Indicated tonnes	Grade %	Inferred tonnes	Grade %	Total tonnes	Grade %
Gillian	1,203,000	0.82	824,100	0.73	974,100	0.77	3,001,200	0.78
Pinnacles - Wafer	1=1	-	218,200	0.49	1,133,100	0.39	1,351,300	0.41
Pinnacles - Sniska		+	-	-	306,900	0.32	306,900	0.32
Pinnacles - Hartog				-	212,700	0.51	212,700	0.51
Deadmans Gully	161	*	401,500	0.49	1-1		401,500	0.49
Windermere	127	2	026	120	2,103,000	0.55	2,103,000	0.55
TOTAL	1,203,000	0.82	1,443,800	0.63	4,729,800	0.54	7,376,600	0.60

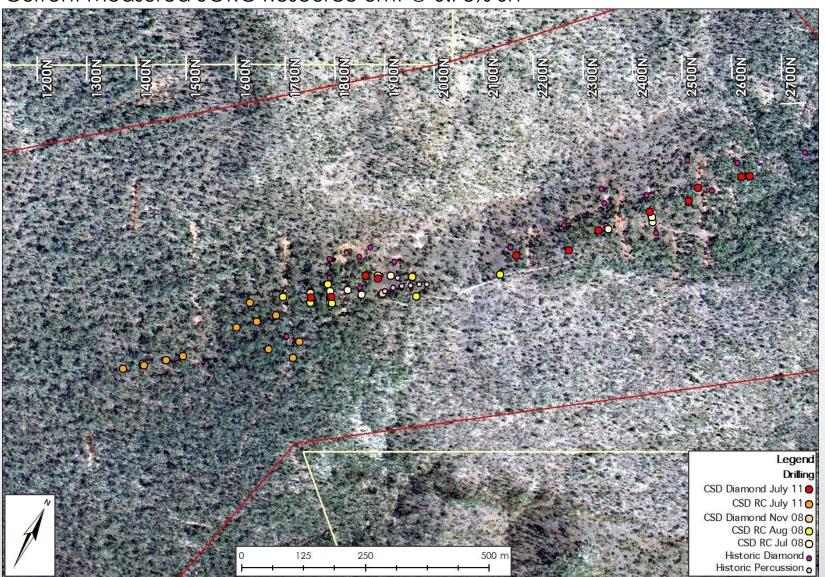
IRON (Fe)	Measured tonnes	Grade %	Indicated tonnes	Grade %	Inferred tonnes	Grade %	Total tonnes	Grade %
Gillian	1,203,000	31.35	824,100	29.75	974,100	27.67	3,001,200	29.72
Pinnacles - Wafer	141	*	218,200	20.21	1,133,100	27.88	1,351,300	16.87
Pinnacles - Sniska	-	2	-	_	306,900	22.90	306,900	22.90
Pinnacles - Hartog	le:	8:	(-)	-	212,700	13.75	212,700	13.75
Deadmans Gully	101	2	401,500	34.89	-	1	401,500	34.89
TOTAL	1,203,000	31.35	1,443,800	29.73	2,626,800	26.08	5,273,600	25.78

FLUORINE (F)	Measured tonnes	Grade%	Indicated tonnes	Grade %	Inferred tonnes	Grade %	Total tonnes	Grade %
Pinnacles - Wafer	-	5	-	-	348,300	18.54	348,300	18.54
Pinnacles - Sniska	-	2		_	306,900	12.00	306,900	12.00
Pinnacles - Hartog	190	8	(1-1)	-	212,700	15.50	212,700	15.50
Pinnacles - Llahsram	12	2		121	91,700	13.00	91,700	13.00
TOTAL	-	-	.5.		959,600	15.25	959,600	15.25

## Gillian Project

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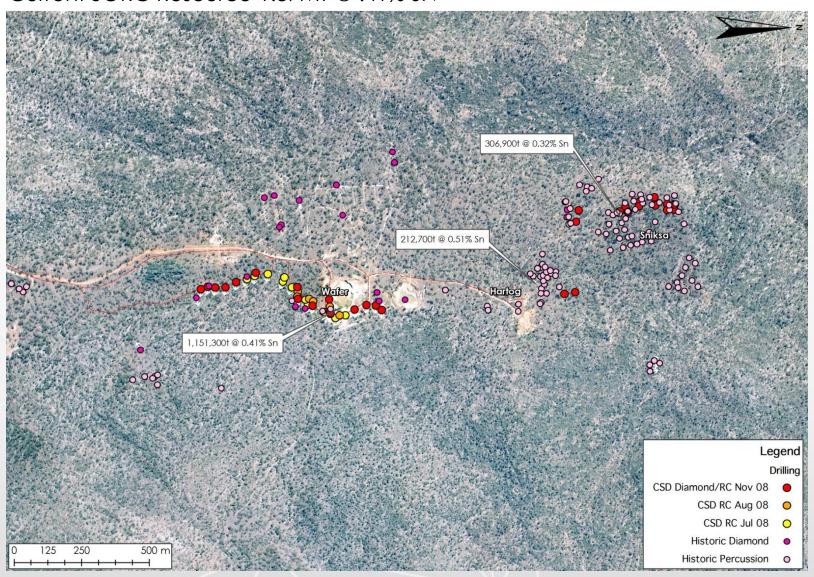
Current Measured JORC Resource 3mt @ 0.78% Sn



## Pinnacles Project

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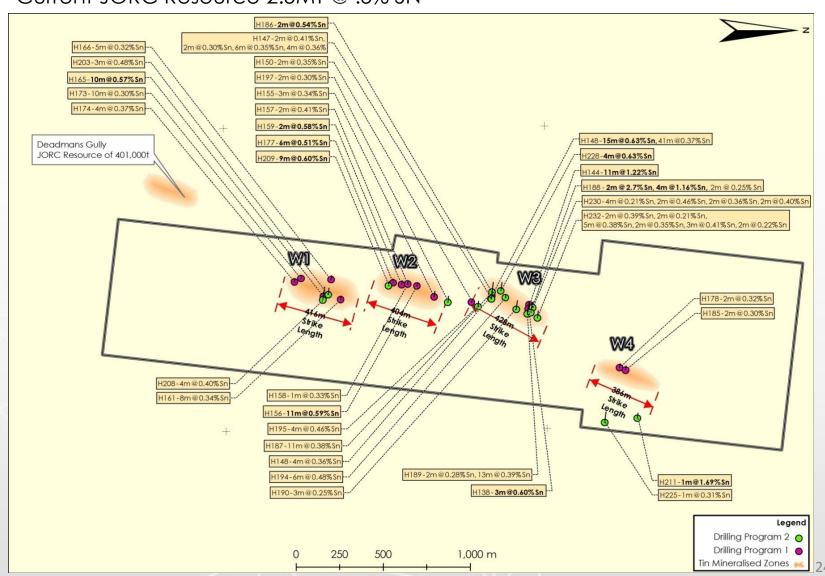
Current JORC Resource 1.87MT @ .41% SN



## Windermere Project



Current JORC Resource 2.5MT @ .5% SN



### Preliminary Scoping Study



Scoping Study snapshot (refer to ASX release 6<sup>th</sup> July 2010):

#### **BASIS**:

- 700,000 tpa of tin ore @ 0.6 % Sn with tin recovery of 68%
- 7.5 yr mine life producing 3,049tpa tin metal in concentrate
- Credit of 236,600tpa of magnetite concentrate grading >65% iron
- Based on conservative tin price \$18,000/t
- Gross revenue of \$500m over initial 7.5yr mine life

#### **RESULTS:**

- Tin Production Cost \$11,250/t
- NET CASH FLOW \$245m (at tin price \$18,000/t)\*

#### **UPSIDE:**

- Current tin price ~ \$22,000 (LME US\$21,245 @ 06/10/11)
- Resource now 7.4mt
- Further Resource & mine life increase from drilling

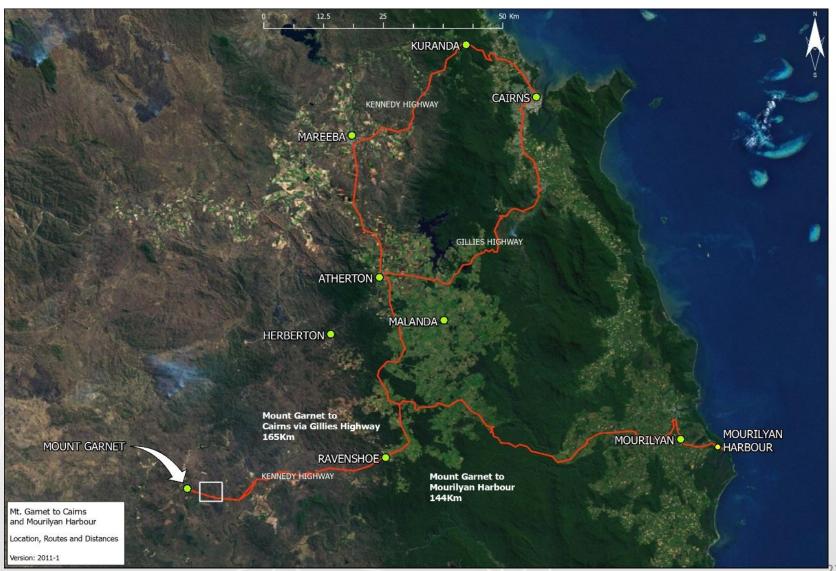
## Summary



- Construction cost estimated \$150 million
- Annual gross income about \$130 million to \$150 million depending on tin price
- Annual production 4,000-5,000t tin & approx 300,000t iron ore
- Tin containerised: approx 400t monthly
- Magnetite 50,000t shipped approx 6 times pa
- Production commencement late 2013

## Mt Garnet Road Transport Routes





#### Contact Details



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The information contained in this report that relates to assay results of rock samples & drill chips, to mineral resource estimates & to ore reserve estimates of mineralisation has been compiled by John Sainsbury (BSc, AusIMM). John Sainsbury is a geologist of 30 years experience & has sufficient experience in the type of mineralisation under consideration to qualify as a Competent Person as defined by the Australasian Code for Reporting of Exploration Results, Mineral Resources & Ore Reserves - JORC Code, 2004 Edition. John Sainsbury is an executive director of Consolidated Tin Mines Limited. John Sainsbury has consented to the inclusion of this information in the form & context in which it appears.