

Legend International Holdings Inc.  
Paradise Phosphate Project  
September 2011



## Cautionary Statement

This presentation contains “forward-looking statements” within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended that are intended to be covered by the safe harbour created by such sections. Such forward-looking statements include, without limitation, (i) estimates of future capital expenditures, project costs, tax rates and expenses; (ii) estimates regarding timing of future mine development, construction, operations, or closure activities; and (iii) statements regarding potential cost savings, productivity, operating performance, cost structure and competitive position. Where the Company expresses or implies an expectation or belief as to future events or results, such expectation or belief is expressed in good faith and believed to have a reasonable basis.

However, forward-looking statements are subject to risks, uncertainties and other factors, which could cause actual results to differ materially from future results expressed, projected or implied by such forward-looking statements. Such risks include, but are not limited to, gold and other metals price volatility, currency fluctuations, increased production costs and variances in ore grade or recovery rates from those assumed in mining plans, political and operational risks in the countries in which we operate, and governmental regulation and judicial outcomes. For a more detailed discussion of such risks and other factors, see the Company’s Form 10-K for the year ended Dec 31 2009 filed with the Securities and Exchange Commission, as well as the Company’s other SEC filings. The Company does not undertake any obligation to release publicly revisions to any “forward-looking statement,” to reflect events or circumstances after the date of this news release, or to reflect the occurrence of unanticipated events, except as may be required under applicable securities laws.

## Reserve & Resource Explanatory Notes

Proven and probable reserve estimates reported here for Paradise South have been estimated in accordance with guidelines provided by the U.S Securities and Exchange Commission’s Industry Guide no.7 and have been estimated by an independent professional geologist. A detailed technical report on these reserve estimates are available on Legend’s website [www.lgdi.net](http://www.lgdi.net)

All other phosphate tonnes and grade figures in this document are not current reserves as defined by SEC Industry Guide No. 7 on reportable reserves, they are historical non compliant mineralized materials. The quoted figure of 1036 million tonnes is derived from the most recently published government<sup>1</sup> and academic records<sup>2</sup> and has therefore been used in this report, however it should be noted that significant drill hole data is not available to definitively show the relationship between current landholding boundaries and the spatial geometry of the phosphate ore bodies.

Current economic parameters, metallurgical flotation methods, and resource/reserve calculation parameters may change this tonnage and will be validated and re-estimated with upcoming drill programs and metallurgical testing being conducted by Legend. Grant of exploration permits, mineral development licences and mining leases are subject to numerous risks including but not limited to environmental regulation and native title claims.

### *References:*

*1 Denaro, T, Ramsden, C, & Brown, D. 'Queensland Minerals A Summary of Major Mineral Resources, Mines and Projects, 4th Edition). Queensland Government Department of Mines & Energy, 2007*

*2 Howard, P.F, 1986 'The D-Tree phosphate deposit, Georgina Basin, Australia' in Phosphate Deposits of the World – Volume 1: Proterozoic and Cambrian phosphorates, Edited by P.J. Cook and J.H. Shergold, p556, Cambridge University Press, 1986.*

# SENIOR MANAGEMENT & PROJECT TEAM



**Mr. Mordi Gutnick**  
General Manager Business



**Mr. Joseph Gutnick**  
President &  
Chief Executive Officer



**Mr. Craig Michael**  
Executive  
General Manager



**Mr. Ed Walker**  
Project Manager



**Mr. Peter Lee**  
CFO & Secretary



**Mr. Menachem  
Vorchheimer**  
General Manager Strategy



**Dr. Adam Teague**  
Metallurgy Manager



**Mr. Damien Crawford**  
Environmental Manager



**Mr. Mauricio Mora**  
Assets & Logistics  
Manager



**Dr. Michelle Hough**  
Senior Project Geologist

## Board of Directors

**Mr. Joseph Gutnick** - President & Chief Executive Officer

**Dr. Allan Trench** - Non-Executive, Director (Independent)

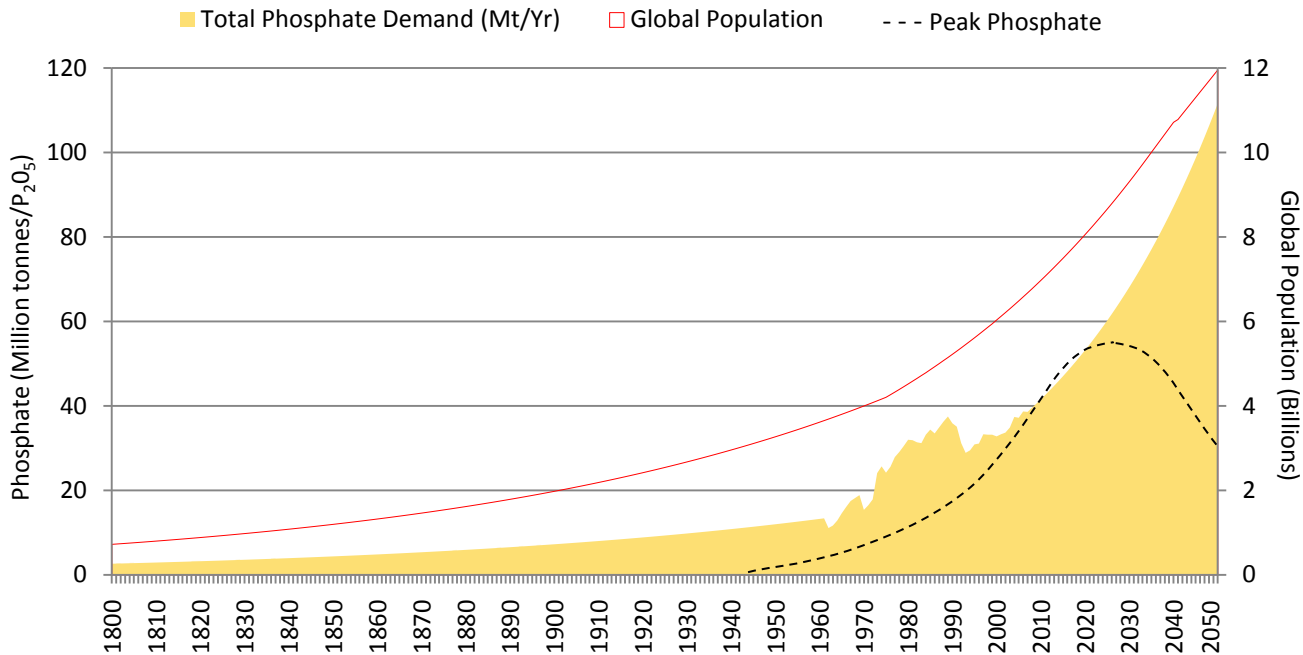
**Dr. David Tyrwhitt** - Non-Executive, Director (Independent)

**Mr. Henry Herzog** - Non-Executive, Director (Independent)

**Dr. U. S. Awasthi** - Non-Executive, Director & MD, IFFCO

**Mr. Manish Gupta** - Non-Executive Director

# GLOBAL PHOSPHATE

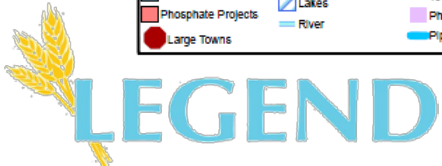
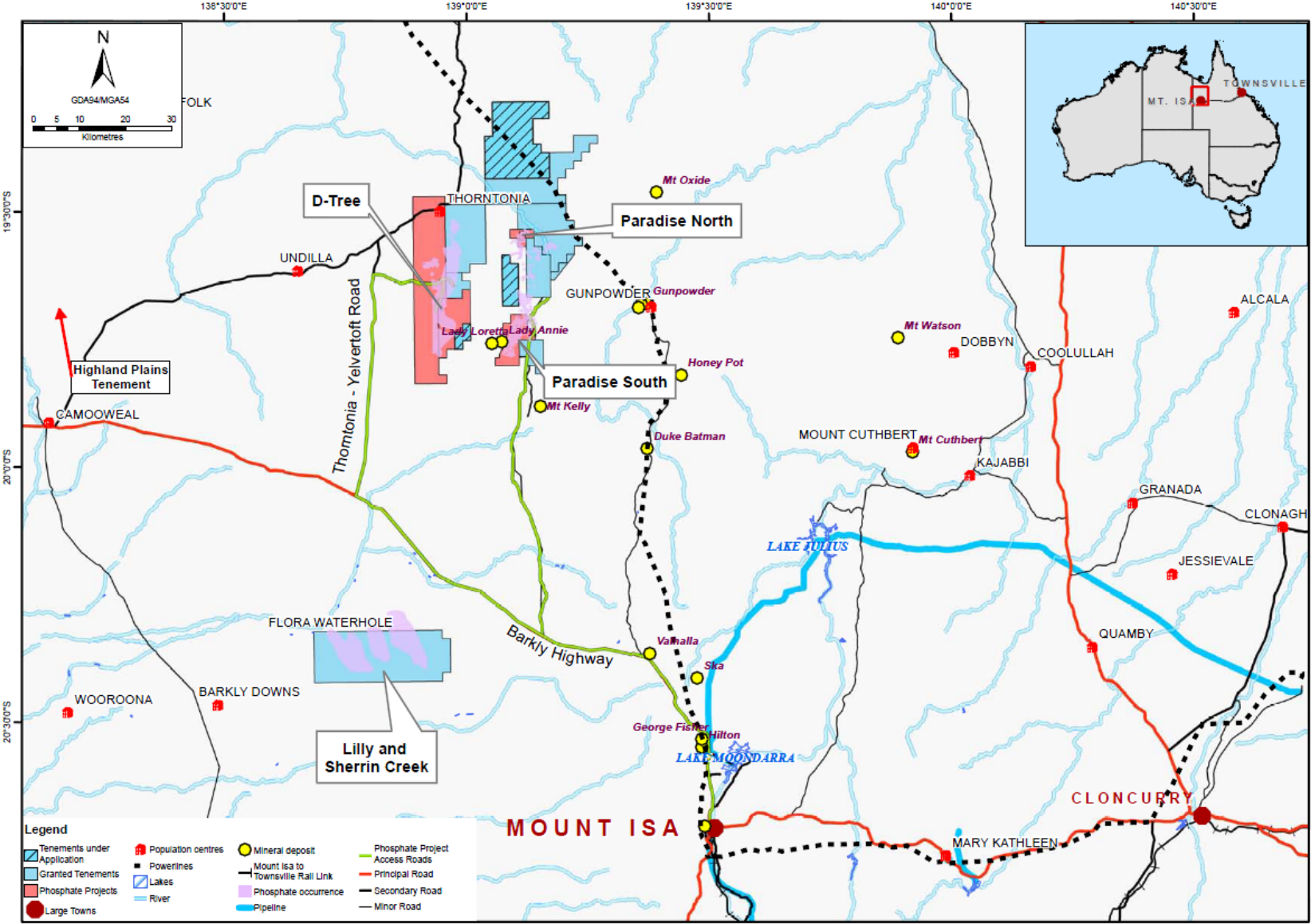


- Arable land is highly depleted and global populations are rising
- Developing economies are increasing consumption
- Diets are changing as global wealth increases
- Phosphate fertilisers increase crop yields
- Peak phosphate is approaching
- High demand from China, India plus many other countries are now importing or will be in the future
- Large domestic resources available



ABOVE: Corn grown without phosphate fertiliser (left) and corn grown with phosphate fertiliser (right)

# RESOURCES LOCATION



- Definitive Feasibility Study (DFS)
  - Completed June 2011
- Development Application (DA)
  - Submitted March 2011
  - Approval expected Q1 2012
- Paradise South Environmental Impact Statement (EIS)
  - Submitted August 2011
  - Approval expected Q1 2012
- Paradise North & D-Tree Mining Leases
  - Approved April 2011 & August 2010



ABOVE: Samples of Legend's DAP, MAP & Phosphoric Acids produced with ore from Paradise South



ABOVE: Legend's DFS, DA & EIS documentation submitted to Local & State Governments for approval

# PHOSPHATE RESOURCES

Non-JORC Historic Estimates			US SEC Compliant Mineral Reserves		
Deposit	Estimated Million Tonnes	% P <sub>2</sub> O <sub>5</sub>	Classification	Million Tonnes	% P <sub>2</sub> O <sub>5</sub>
Paradise South	293	16.6	Proven & Probable Ore Reserve <sup>1</sup>	196.2	14.6
			Proven & Probable Mineral Reserve <sup>2</sup>	55.5	33*
Paradise North	193	17.6			
D-Tree	339	16.0			
Lily Creek	191	14.9			
Quita Creek	54	17.3			
Sherrin Creek	175	16.5			
Highland Plains	84	13.4			
<b>Total</b>	<b>1,036</b>	<b>16.5</b>			

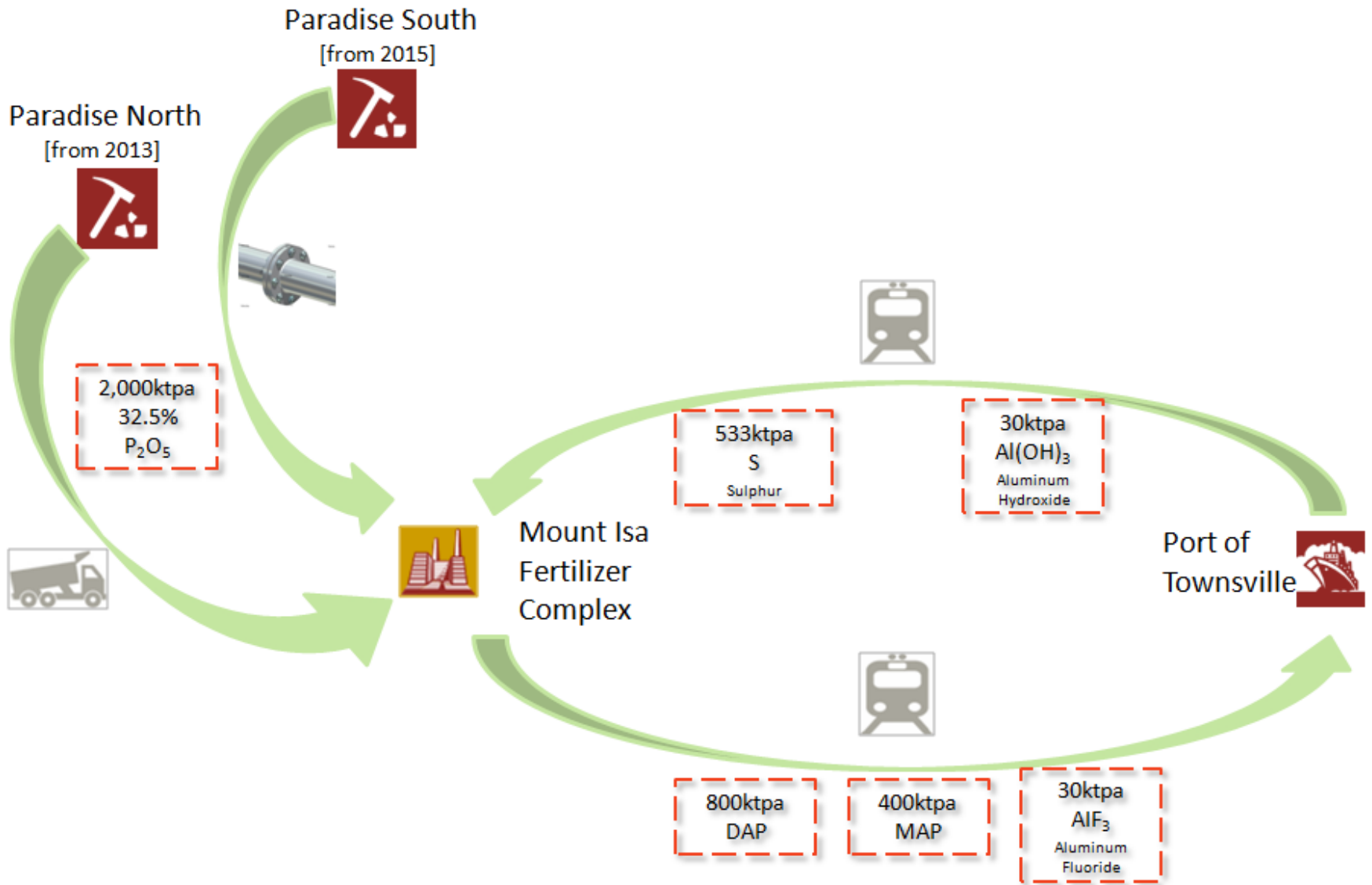
1 Ore reserves are defined here as the phosphorite ore material for the beneficiation plant. It is "as-mined" material and is before screening and processing in the proposed flotation beneficiation plant to be located at Paradise South. All ore reserves are in areas that are fully accessible for mining; free of surface or subsurface encumbrance, legal setbacks, environmental reserves and other legal restrictions that preclude permissible access for mining; believed by us to be permissible within a reasonable timeframe; and meet specified minimum physical, economic and chemical criteria related to current mining and production practices of the industry

2 Mineral reserves are defined here as the recoverable rock concentrate post screening and processing of the ore through the proposed flotation beneficiation plant to be located at Paradise South. This material is therefore a subset of the ore reserves and cannot be summed with the ore reserves. These reserves are in areas that are fully accessible for mining; free of surface or subsurface encumbrance, legal setbacks, environmental reserves and other legal restrictions that preclude permissible access for mining; believed by us to be permissible within a reasonable timeframe; and meet specified minimum physical, economic and chemical criteria related to current mining and production practices of the industry

## JORC Compliant Resources

Deposit	Measured		Indicated		Inferred		Total	
	Tonnes	% P <sub>2</sub> O <sub>5</sub>	Tonnes	% P <sub>2</sub> O <sub>5</sub>	Tonnes	% P <sub>2</sub> O <sub>5</sub>	Tonnes	% P <sub>2</sub> O <sub>5</sub>
Paradise South	98.0	15.3	98.1	13.9	-	-	196.1	14.6
Paradise North	-	-	6.7	24.21	8.3	23.67	15.0	23.911
D-Tree	-	-	-	-	305	15	305	15
<b>Total</b>	<b>98.0</b>	<b>15.3</b>	<b>104.8</b>	<b>14.6</b>	<b>313.3</b>	<b>15.2</b>	<b>516.1</b>	<b>15.1</b>

# PROJECT OVERVIEW





# PARADISE FEASIBILITY STUDY SUMMARY

	BASE CASE	EXPANDED CASE
Mineral reserve	55mt @ 33% P <sub>2</sub> O <sub>5</sub> (59 Years)	55mt @ 33% P <sub>2</sub> O <sub>5</sub> (29 Years)
Minimum mine life used in this financial model	30 Years	30 Years
Total MAP/DAP production – 30 years	12Mt/6Mt	12Mt/24Mt
Total MAP/DAP/AIF <sub>3</sub> revenue generated – 30 years <sup>1</sup>	US\$13,327m	US\$25,937m
Total free cash flow – after tax and capital – 30 years <sup>1</sup>	US\$3,666m	US\$8,954m
Annual production – DAP/MAP/AIF <sub>3</sub>	400Kt MAP, 200Kt DAP, 15kt AIF <sub>3</sub>	400Kt MAP, 800Kt DAP, 30kt AIF <sub>3</sub>
Average annual EBITDA	US\$201m	US\$485m
Average annual free cash after tax <sup>1</sup>	US\$143m	US\$335m
Development capital	US\$688m first stage operations; US\$142m from year 5	US\$1542 first stage operations; US\$234 from year 3
Capital payback	5.8 years	5.3 years
Life of Mine Average MAP/DAP Price – fob Townsville <sup>1</sup>	US\$650/653 tonne	US\$650/653 tonne
MAP/DAP cash operating margin <sup>2</sup>	US\$322/325 tonne	US\$392/395 tonne
Pre-tax IRR <sup>3</sup>	31.0%	31.8%
Pre-tax NPV <sup>3</sup> <sub>8.0%</sub>	US\$2,425m	US\$5,865m
After-tax IRR <sup>3</sup>	25.4%	26.1%
After-tax NPV <sup>3</sup> <sub>8.0%</sub>	US\$1,592m	US\$3,877m

1: Excludes inflation and discount rate

2: Excludes inflation and discount rate. Includes AIF<sub>3</sub> credit.

3: Includes commodity inflation (3.5% p.a), discount rate (8% p.a), and commodities' growth factor as per CRU forecasts, extrapolated to year 2024, with no growth in prices assumed past 2024 except for inflation.

# CAPITAL COST ESTIMATE

ITEM	BASE CASE CAPITAL COST (US\$)	EXPANDED CASE CAPITAL COST (US\$)
Mining infrastructure	7.7m	13.8m
Beneficiation plant	142.9m	234.9m
Transportation infrastructure	39.6m	113.2m
Mt Isa Phosphate Fertilizer Complex	585.53m*	1323.5m*
Working capital	54.29m	90.9m
<b>TOTAL CAPITAL COST (US\$)</b>	<b>830m</b>	<b>1776m</b>

\* Estimate does not include costs to be covered by other parties through potential Joint Venture arrangements

Notes: Where capital costs have been estimated in Australian dollars an assumed foreign exchange rate of 1.00 AU\$ = 0.85 US\$ is used. Contingencies are included in the cost estimates.

YEAR	2011	2012	2013	2014	2015	2016	2017	TOTAL
BASE CAPEX US\$M	68.7	412.3	206.1	0	0	71.5	71.5	830
EXPANDED CAPEX US\$M	0	725.1	725.1	162.9	162.9	0	0	1776

*Legend's capital costs reported in the Paradise feasibility study are in line with CRU's estimate\* that a 745ktpa DAP plant with a 350ktpa P<sub>2</sub>O<sub>5</sub> phosphoric acid plant and a captive 1.2mtpa rock mine currently costs US\$754 million in development capital.*

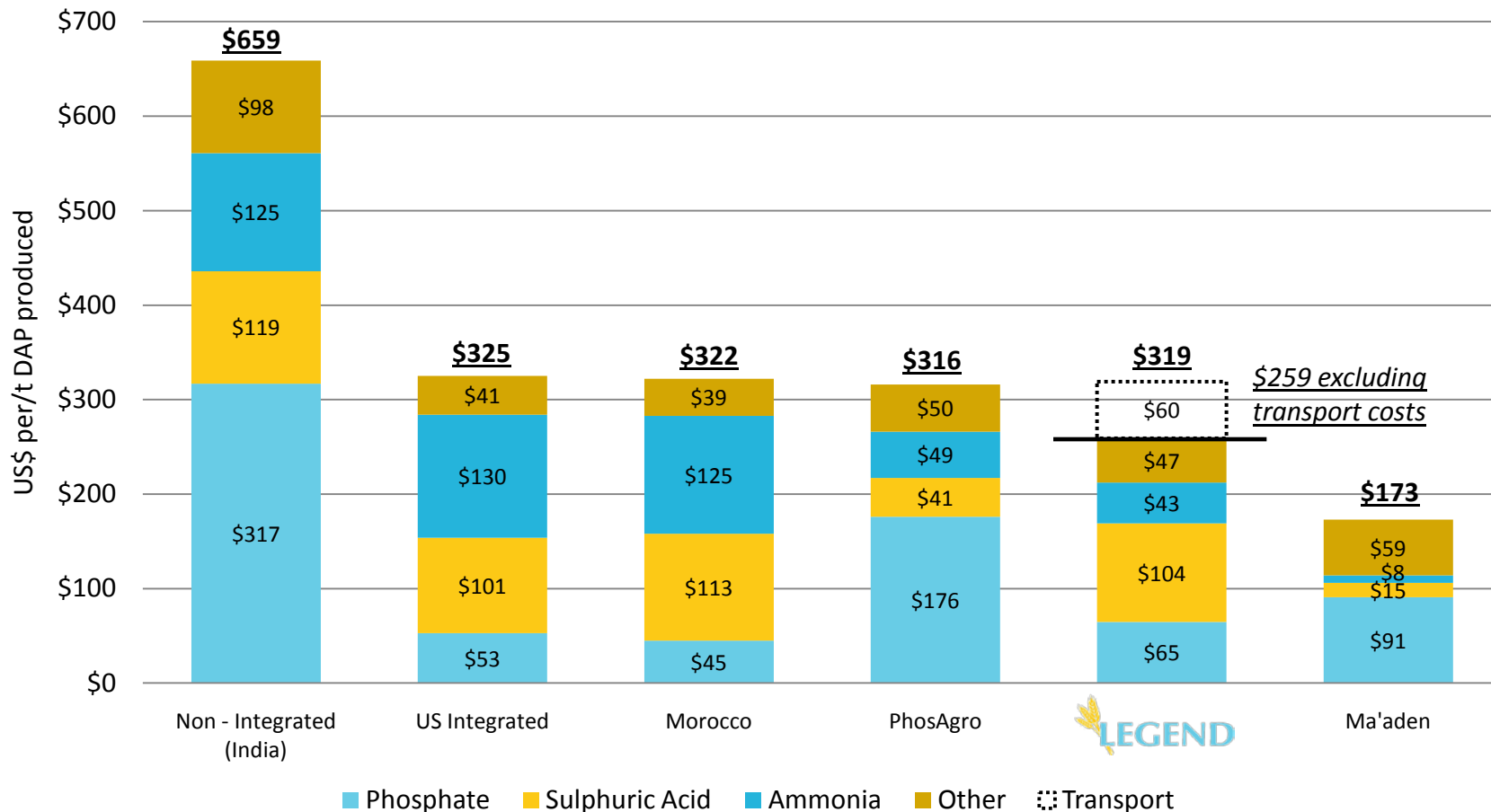
Legends estimate is within 10% of CRU's estimate once capacity differences are taken into account and the AlF<sub>3</sub> plant, transport infrastructure and working capital are deducted as these are not included in CRU's estimate.

Source: CRU Phosphoric Acid, DAP, MAP, TSP Ten Year Outlook 2011

# OPERATIONAL COSTS & COMPARISONS

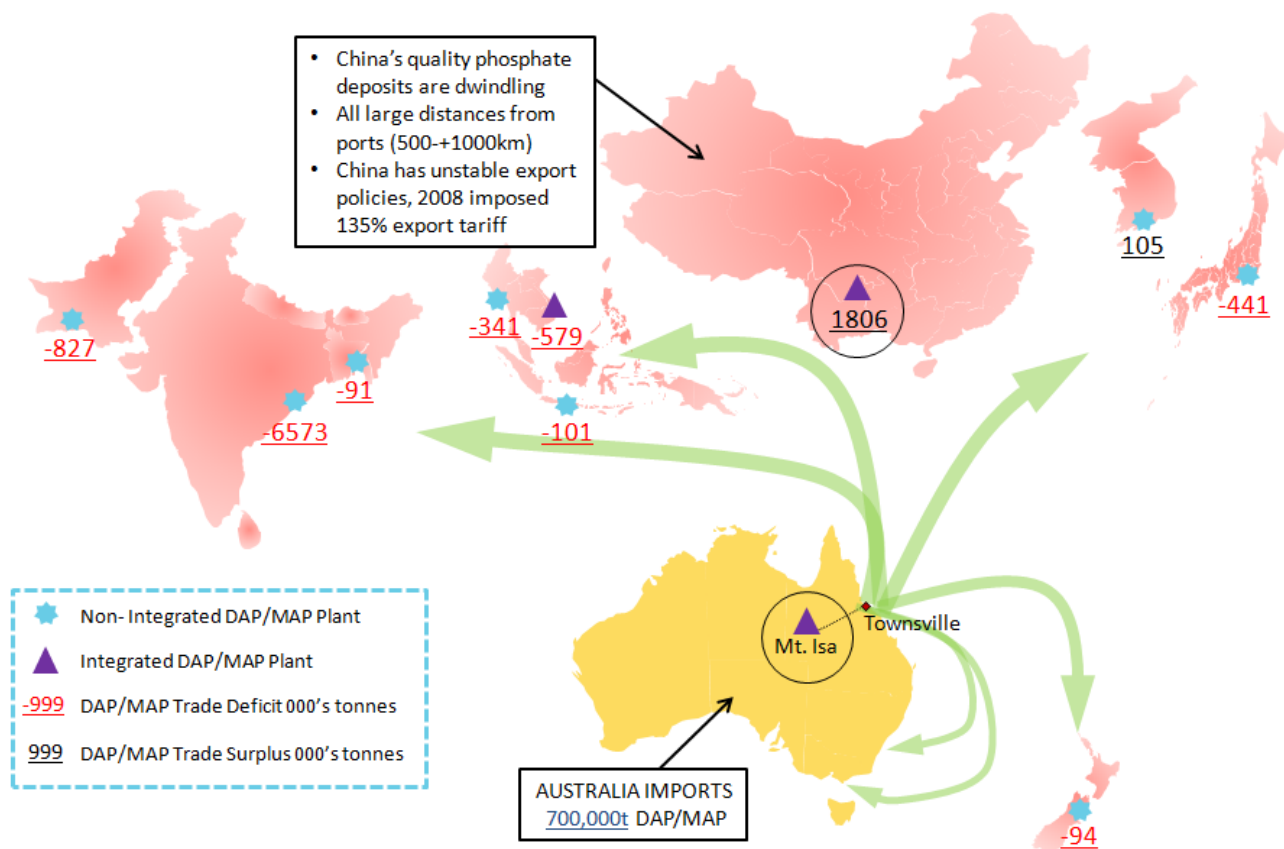
## Cash Cost Curve

Includes AIF<sub>3</sub> Credit for LEGEND



■ Phosphate ■ Sulphuric Acid ■ Ammonia ■ Other ■ Transport

Disclaimer: Unless the producer is integrated with the raw material input; the following spot prices have been used – Phosphate US\$200/t, Sulphur US\$220/t, Ammonia US\$560/t Source: Credit Suisse and Legend

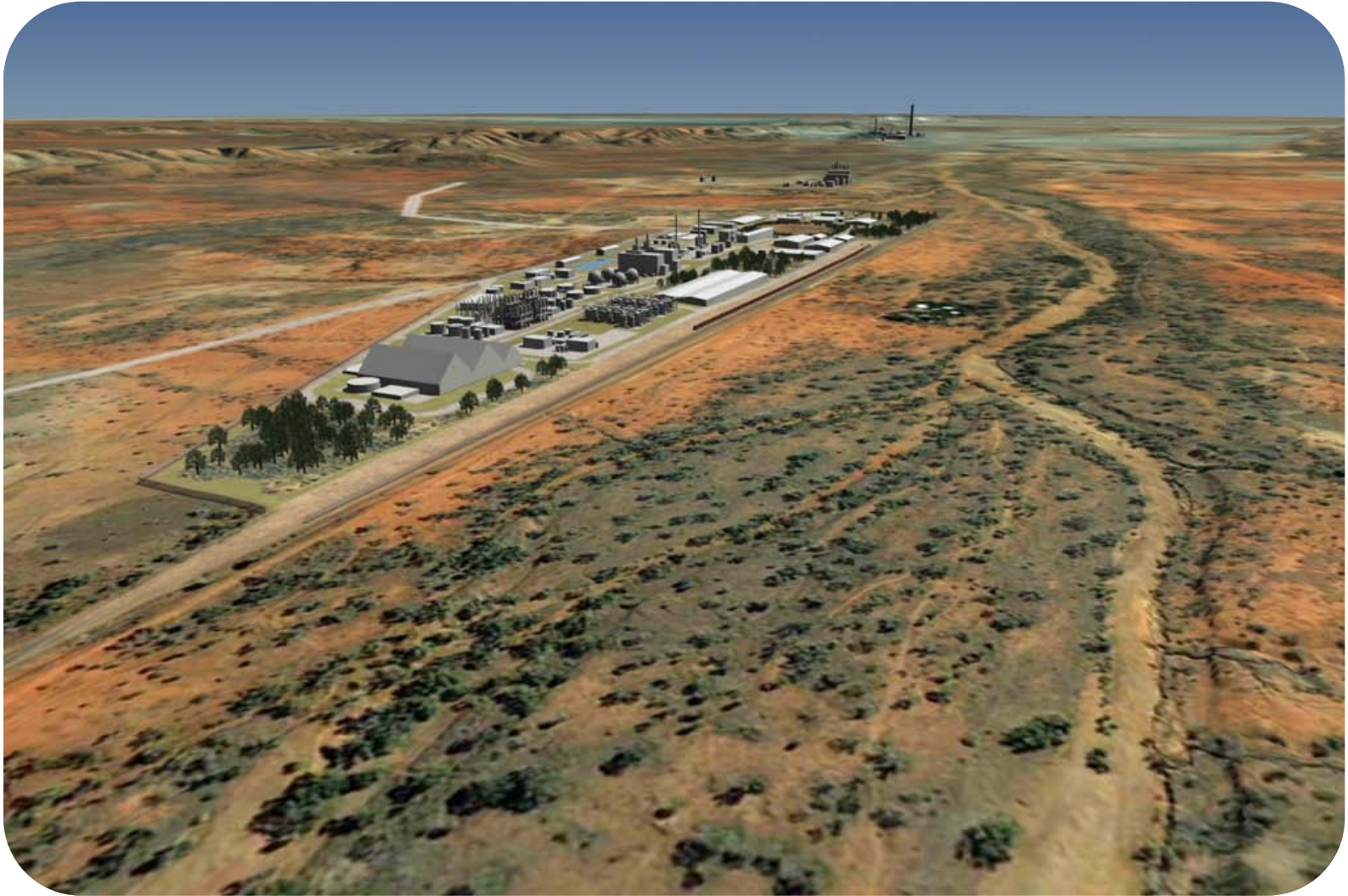


- Over 70% of future worldwide demand growth is expected from this region
- From 2010 to 2018 MAP & DAP imports into this region will increase by 17% from a total of 10.5Mtpa to 12.3Mtpa
- By 2018 a shortfall of 10Mtpa of MAP & DAP will need to be imported from outside this region and incur higher freight costs when compared to Legend



**CRU Strategies assessed Legend's delivered DAP cost to be the most competitive within Australia, SE Asia, Japan and Northern China – Legend can also compete with India, the worlds largest market. Other than Ma'aden, only Morocco, Tunisia & Jordan can compete with Legend's delivered cost profile to India's east coast**

Source: CRU Phosphoric Acid, MAP, DAP, Ten Year Outlook 2011, Update 3 (Totals of the following countries: Australia, New Zealand, Indonesia, Malaysia, Phillipines, Japan, S.Korea, Pakistan, India, Thailand, China, Vietnam)



# ALUMINUM FLUORIDE

- What is aluminum fluoride ( $\text{AlF}_3$ )?
  - Approximately 95% of the world's aluminum fluoride is currently used in the aluminum smelting (electrolyzing) industry
  - Serves as a conditioning agent of molten electrolyte of aluminum oxide
    - lowering the temperature of electrolysis
    - improves electric conduction performance
    - reduces the mole ratio
- What is the market for  $\text{AlF}_3$ ?
  - Australia's aluminum smelting industry currently consumes approximately 30,000tpa of  $\text{AlF}_3$  – sourced from China
  - Legend will produce approximately 15,000/30,000tpa of  $\text{AlF}_3$
  - Global demand is met by only 1,000,000tpa supply; 2009 consumption was 819Kt
  - Most  $\text{AlF}_3$  is currently made from depleting resources of fluorspar
  - 1/3 of all fluoride plants have been or will be closed whereas growth in demand from 2010-19 equates to 4.5% p.a
  - Wengfu estimates future prices of US\$1800-2000 per tonne
- MoU signed with Alcoa of Australia for potential offtake



# PROJECT PARTNERS

## Wengfu Group

- Formerly Chinese state owned organisation with expert industry experience
- Completed extensive feasibility study in June 2010



## Indian Farmers Fertiliser Cooperative (IFFCO)

- Represents over 50,000,000 farmers and their families
- Long term alliance established in 2008



## Xstrata

- MoU for the supply of sulphuric acid for use in the fertiliser complex
- Supply comes from existing Mount Isa lead and copper operations



## Coogee Chemicals

- MoU for the supply and storage of sulphuric and phosphoric acid for use in the fertiliser complex



## Port of Townsville

- Ongoing relationship to ensure capacity for phosphate and fertiliser distribution to international and domestic markets



## Queensland Rail & P&O Trans Australia

- Ongoing relationship to ensure capacity for transportation from Mount Isa to Townsville



## Alcoa of Australia

- MoU signed for potential offtake of aluminium fluoride ( $AlF_3$ ) production



# CORPORATE INFORMATION

## SECURITY CODE – OTCBB:LGDI

Total issued shares	226,399,674
Market capitalization @ US\$0.44	US\$99.62m
Key Shareholders	69.1%
Renika Pty Ltd	21.2%
IFFCO	15.2%
Attara Capital LP	13.5%
Soros Fund Management LLC	10.4%
Chabad House of Caulfield	8.8%

### Principal Office

Level 8, 580 St. Kilda Road, Melbourne, VIC 3004, Australia

Telephone: +61 3 8532 2866

Facsimile: +61 3 8532 2805

Email: [lgdi@axisc.com.au](mailto:lgdi@axisc.com.au)

Website: [www.lgdi.net](http://www.lgdi.net)

### New York Office

10<sup>th</sup> Floor, 10 East 53<sup>rd</sup> Street, New York, NY, USA

Telephone: +1 212 223 0018

Facsimile: +1 212 223 1169

Email: [legendinfo@axisc.com.au](mailto:legendinfo@axisc.com.au)

### Share Registry

Continental Stock Transfer & Trust Company

17 Battery Place, 8<sup>th</sup> Floor

New York, NY 10004, USA

### Auditors

PKF

29 Broadway

New York, NY 10086, USA

## Other Investments:

- Legend owns a 50% interest in North Australian Diamonds
- Definitive feasibility study is underway
- September 2011, NADL was granted Exploration Licence which forms the heart of the Borroloola Alluvial Diamond Project
- During the trial 10,600cts of diamonds were recovered, the largest being a 24.12ct gem quality diamond
- 2590cts in excess of 1ct, representing 24.4% of production; in excess of 75% of +1ct diamonds were assessed as 'gem' or 'near gem' quality
- Total resources of the Merlin project have been updated and are now 30Mt @ 24cpt for a contained 7.2 million carats
- The resource estimate makes the Merlin diamond project the second largest in Australia (Source: Intierra)
- Revaluation of the 'run of mine' rough diamond parcel has increased to in excess of US\$330 per carat
- Merlin is renowned for its high clarity, super-white, large stones. Independent Diamond Valuers Pty Ltd believe reintroducing Merlin production to the market will be well received by Diamantaires
- Please see [www.nadl.com.au](http://www.nadl.com.au)



- Through a 31.48% interest in Northern Capital Resources, Legend has exposure to gold and base metals. Please see - [www.northerncap.net](http://www.northerncap.net)
- Canadian NI 43-101 compliant resource base of 1.7Moz gold
- Lake Ainslie barite-fluoride deposit
- Davenport IOCG copper gold exploration project