

Paradise Phosphate Project October, 2010



FLOTATION PLANT [1971]

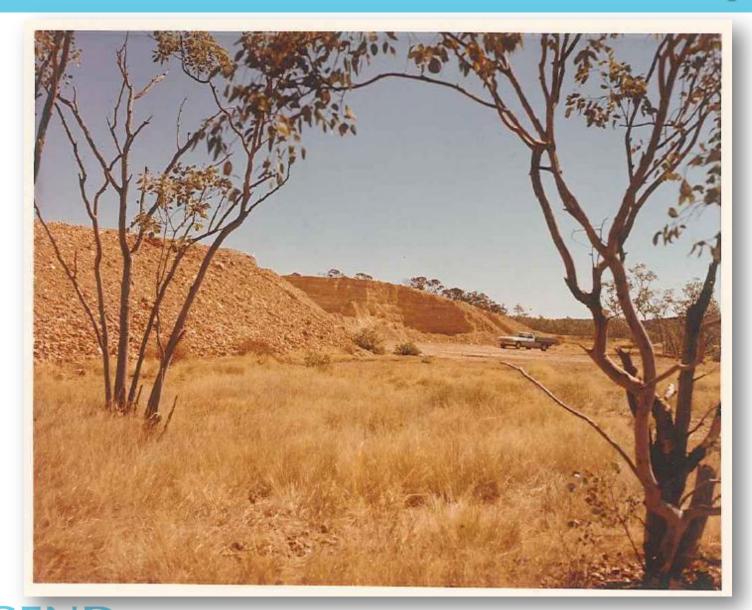


RIPPING AND SCRAPING TRENCH [1971]





PHOSPHATE ROCK STOCKPILE [1971]



ORE BIN & CRUSHER [1971]



PRODUCT DRYING & STORAGE [1971]





PILOT FLOTATION PLANT [2009]





PILOT PLANT – FLOTATION CELLS [2009]





PILOT PLANT - FLOTATION CELLS [2009]

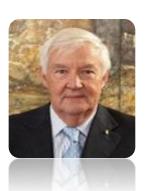




BOARD & DEVELOPMENT TEAM



Dr. Allan TrenchNon-Executive Director
(Independent)



Dr. David TyrwhittNon-Executive Director
(Independent)



Mr. Joseph Gutnick
President & Chief
Executive Officer



Mr. Henry Herzog Non-Executive Director (Independent)



Dr. U. S. AwasthiNon-Executive Director
& Managing Director,
IFFCO



Dr. Michelle Hough Senior Project Geologist



Dr. Adam Teague Metallurgy Manager



Mr. Ed Walker Project Manager



Mr. Craig Michael Executive General Manager



Mr. Damien Crawford Environmental Manager



Mr. Mauricio Mora Lead Infrastructure Engineer



HIGHLIGHTS

- Paradise feasibility study completed on schedule
- Confirms technical and financial viability of the base case development scenario
- US\$11 billion total revenue over 30 years
- US\$2.6 billion total free cash flow after tax and capital
- Pre-tax IRR of 25.5%
- Pre-tax NPV_{8.0%} of US\$1.5 billion
- Average annual EBITDA of US\$151 million
- Average annual free cash after tax of US\$113 million
- US\$210 DAP cash operating margin for 600ktpa production, US\$257.3 when AIF₃ revenue included
- Significant revenue boost of US\$28.55 million per year from sale of aluminum fluoride by-product
- Total capital cost of US\$808.16 million
- Capital payback period of 5 years







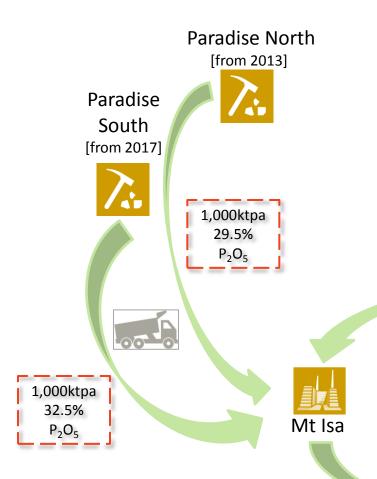
PARADISE FEASIBILITY STUDY SUMMARY

| Mineral resource | 81mt @ 18.1 P ₂ O ₅ |
|---|---|
| Mine life | 30+ years |
| Total DAP production – 30 years | 18mt |
| Total DAP/MAP/AIF₃ revenue generated – 30 years | US\$11,046m |
| Total free cash flow – after tax and capital – 30 years | US\$2,647m |
| Annual production – DAP/MAP/AIF ₃ | 600kt MAP/DAP, 15kt AIF ₃ |
| Average annual EBITDA | US\$151m |
| Average annual free cash after tax | US\$113m |
| Development capital | US\$808m |
| Capital payback | 5 years |
| Life of mine average DAP price – fob Townsville | US\$531/tonne |
| DAP cash operating cost – fob Townsville | US\$321.3/tonne |
| DAP cash operating margin | US\$209.7/tonne |
| Pre-tax IRR | 25.5% |
| Pre-tax NPV _{8.0%} | US\$1,527m |
| After-tax IRR | 20.1% |
| After-tax NPV _{8.0%} | US\$967m |

The above summary of the Paradise FS economics is most sensitive to the long term DAP price that is assumed. According to the financial model a 5% change in the assumed DAP price creates a 1.9% change in the after tax IRR (addition/subtraction of 1.9% to/from 20.1%) and an 18.7% change in the after tax NPV_{8.0%} (addition/subtraction of US\$180.6M to/from US\$967M). These sensitivities however, are assuming that a change in the DAP price is unrelated to any changes in input raw materials i.e. it is reflecting a change in the value of phosphate or P_2O_5 only. In reality, changes in DAP price may be reflecting changes in sulphur and ammonia raw material inputs, and will therefore not affect the IRR or NPV in the order of magnitude stated above.



PROJECT BASE CASE OVERVIEW











15ktpa AIF₃



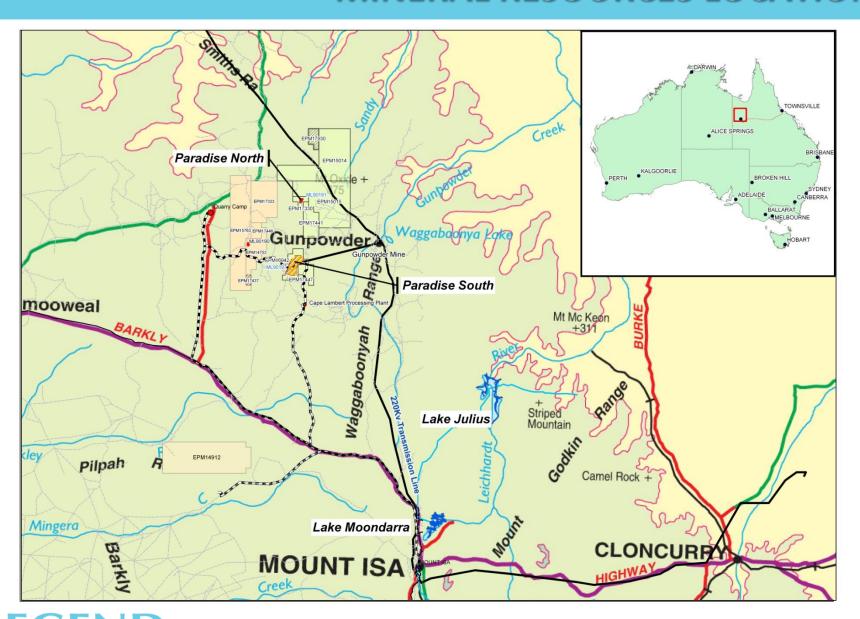
MINERAL RESOURCES

| | | Historic estimates | | | tes (Australia erred minera | n JORC 2004 indicated of resources) |
|--------------------|----------------------------------|--------------------------|---------------------------------|--|---------------------------------|-------------------------------------|
| Deposit | Classification | Estimated million tonnes | % P ₂ O ₅ | Estimated million tonnes | % P ₂ O ₅ | % Historic covered |
| Paradise South | Non-reserve mineralized material | 293 | 16.6 | 72 | 16.9* | Approx. 10% |
| Paradise North | Non-reserve mineralized material | 193 | 17.6 | 15 | 23.9* | Less than 5% |
| D-Tree | Non-reserve mineralized material | 339 | 16.0 | 305 | 15.0** | Approx. 90% |
| Lily Creek | Non-reserve mineralized material | 191 | 14.9 | New estimate pending future drilling results | | |
| Quita Creek | Non-reserve mineralized material | 54 | 17.3 | New estimate pending future drilling results | | |
| Sherrin Creek | Non-reserve mineralized material | 175 | 16.5 | New estimate pending future drilling results | | |
| Highland Plains | Non-reserve mineralized material | 84 | 13.4 | New estimate pending future drilling results | | |
| Total | Non-reserve mineralized material | 1,329 | 16.2 | 392 | 15.7 | Approx. 25% |

^{*} Grade reported at 12% P_2O_5 lower cut-off / ** Grade reported at 10% P_2O_5 lower cut-off



MINERAL RESOURCES LOCATION



MINING

- Paradise mining to be contracted to an international mining company.
- Open pit mining scenario models used to estimate mining costs and mine life.
- Base scenario considers use of both excavators and scrapers.
- Commencing in 2013, Paradise North mined for 5 years prior to beneficiation plant production of concentrate at Paradise South.
- Paradise South mining due to commence in year 2017



| Mineral resource | 9mt @ 27.6 P ₂ O ₅ |
|---------------------------------------|--|
| Potential reserve conversion | ~ 90% |
| Tonnes ore mined | 1,250ktpa |
| Average strip ratio over mine life | 2:1 |
| % Mass Recovery (dry screening) | 80% |
| Tonnes feed for phosphoric acid plant | 1,000ktpa @29.5% P ₂ O ₅ |



Paradise South mining parameters:

| Mineral resource | 72mt @ 16.9% P ₂ O ₅ |
|---------------------------------------|--|
| Potential reserve conversion | ~ 90% |
| Tonnes ore mined | 2,500ktpa |
| Average strip ratio over mine life | 1.25:1 |
| % Mass Recovery (Beneficiation) | 40% |
| Tonnes feed for phosphoric acid plant | 1,000ktpa @32.5% P ₂ O ₅ |



PROCESSING & LOGISTICS

- Phosphate rock to be dry screened at Paradise North for silica removal and P₂O₅ upgrade
- Approx. 1,000ktpa @ 29.5% P₂O₅ trucked to Mt Isa Phosphate Fertilizer Complex
- Starting year 5 ore mined from Paradise South will be processed through an on-site flotation beneficiation plant
- Approx. 1,000ktpa @ 32.5% P₂O₅ trucked to Mt Isa Phosphate Fertilizer Complex for +25 years







MT ISA PHOSPHATE FERTILIZER COMPLEX

 To be located south of Mt Isa on 650 acres; bordered to the east by the Mt Isa to Townsville railway line and adjacent to the Mica Creek power station









Sulfuric Acid Plant

- 600ktpa output
- Single production train

Producing sulfur dioxide (SO₂)

 \downarrow

Combined with oxygen (O_2)

 \downarrow

Forms sulfur trioxide (SO₃)

 \downarrow

Combined with water (H₂O)

 \downarrow

Forms sulfuric acid (H₂SO₄)

Heat recovery system used for power generation and heating in phosphoric acid plant

Phosphoric Acid Plant

- 300ktpa output
- Dihydrate wet process
- Mature, reliable & efficient
- Improves recovery
- Reduces phosphorous in byproduct gypsum

Rock grinding



Reaction with sulfuric acid

 (H_2SO_4)

 \downarrow

Filtering

 \downarrow

Storage and concentration

↓ Input for DAP/MAP

<u>Ammonium Phosphate</u>

<u>Plant</u>

- 600ktpa output
- Preneutralizer and pipe reactor process
- Stable & highly flexible

Acid neutralization



Ammoniation & granulation



Drying & screening



Collect dust & fumes, scrubbing



Product weighing & bagging

Aluminum Fluoride Plant

- 15ktpa output value addition
- Environmental & economic benefits
- Turns pollutants into high demand, marketable product

Concentrated sulfuric acid



Converts fluorosilicic acid



Anhydrous hydrogen fluoride



Gaseous AHF reacts with dry aluminum hydroxide (AI[OH]₃)

Aluminum fluoride (AIF₂)



ALUMINUM FLUORIDE

- What is aluminum fluoride (AIF₃)?
 - 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
 - Very favorable product when producing aluminum metal
- What is the market for AIF₃?
 - Australia's aluminum smelting industry currently consumes approximately 20,000tpa of AIF₃
 - Legend will produce approximately 15,000tpa of AIF₃
 - Global demand is met by only 1,000,000tpa supply
 - Most AIF₃ is currently made from depleting resources of fluorspar
 - 1/3 of all fluoride plants have been or will be closed
 - Wengfu estimates future prices of US\$1800-2000 per tonne

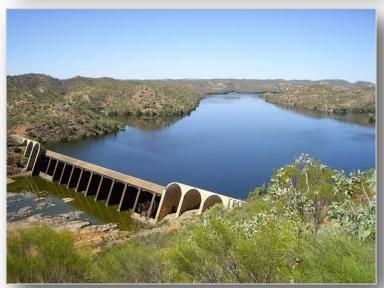




INFRASTRUCTURE

- Mine site readily accessible initially by sealed gazetted heavy vehicle road
 - Barkly Highway from Mt Isa (67km).
 - McNamara Highway previously used by Lady Annie operations for copper haulage.
 - Upgrades necessary to link to mine leases.
- Mt Isa Phosphate Fertilizer Complex power demand expected to be 24MW
 - Offset by 8MW cogeneration within complex.
 - Remaining 16MW sourced through application to CS Energy via the adjacent Mica Creek power station & Ergon Energy distribution
- Paradise South beneficiation plant power demand expected to be 8MW again sourced through application to CS Energy and Ergon Energy distribution.
- Water for the Mt Isa Phosphate Fertilizer Complex sourced from Lake Julius via Mt Isa Water Board.
- Water for the Paradise South beneficiation plant is available through existing aquifer allocation.







CAPITAL COST ESTIMATE

| ITEM | CAPITAL COST (US\$) |
|-------------------------------------|---------------------|
| Mining infrastructure | 7.7m |
| Beneficiation plant | 121.1m |
| Transportation infrastructure | 39.6m |
| Mt Isa Phosphate Fertilizer Complex | 585.53m* |
| Working capital | 54.29m |
| TOTAL CAPITAL COST (US\$) | 808.16m |

^{*} 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.

Legend's capital costs reported in the Paradise feasibility study are in line with CRU's estimate* that a 736ktpa DAP plant with a 350ktpa P_2O_5 phosphoric acid plant and a captive 1.3mtpa rock mine currently costs US\$750 million in development capital.

Legends estimate is within 10% of CRU's estimate once capacity differences are taken into account and the AIF_3 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 2009



OPERATING COST ESTIMATE

| ITEM | DAP (US\$/t) |
|-----------------------------|--------------|
| *Phosphate rock | 58.2 |
| *Sulfur | 48.1 |
| *Ammonia | 68.1 |
| Conversion costs | 87.3 |
| Production transport | 59.6 |
| TOTAL OPERATING COST (US\$) | 321.3 |

^{*} Includes any relevant mining, processing, handling and transport costs

Aluminum fluoride (AIF₃) credit

Operation of the AlF_3 Plant is included in the OPEX figures above. This means revenue from the AlF_3 sales must be included in the cash margin. The AlF_3 is estimated to generate US\$28.5M per year. This is \$47.6 per tonne of DAP per year which can be directly added to the cash margin.

<u>Legend's effective operating cost is actually US\$273.7</u> per tonne of DAP/MAP once AIF_3 credits are added.



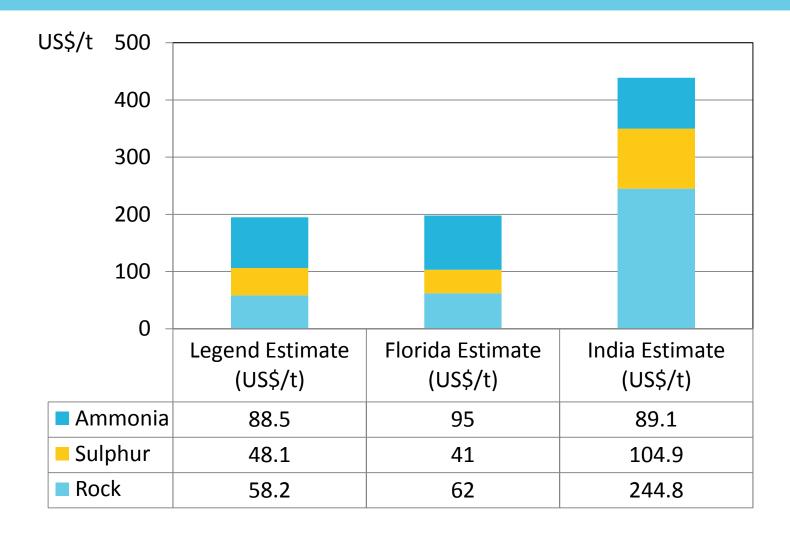
OPERATING COST ESTIMATE

- Legend's cash margin, using the long-term estimated DAP price of US\$531/t and the effective operating costs of US\$273.7/t, is <u>US\$257.3/t</u>
- This margin is well above the US\$180/t that CRU estimates is needed to justify investment in any new phosphate chemical complex*
 - * Based on CRU's estimate for a 736 ktpa DAP/MAP plant, a 350 ktpa phosphoric acid plant and a 1.3 mtpa captive rock mine with beneficiation plant in their Phosphoric Acid, DAP, MAP and TSP Ten Year Outlook 2009, Update 3.





DAP INPUT COSTS



Legend estimate based on long term forecast prices used in feasibility study. Florida and Indian estimate from CRU's Phosphoric Acid, DAP, MAP & TSP Ten Year Outlook 2009, Update 3 using April and May 2010 data.



MARKETING

 Detailed market analysis conducted by Wengfu for worldwide supply & demand for ammonium phosphate fertilizer and aluminum fluoride.









- Worldwide phosphate demand expected to grow at 3.1% per annum over the next 5 years.
- DAP prices on average expected to remain close to current levels
 - 10 year long term average US\$445/t fob US Gulf (Tampa, FL) utilized in Wengfu study
 - Within 2% of British Sulphur Consultants (A Division of CRU) 10 year forecast average
- Phosphate prices estimated to continue rising due to strong demand and depleting worldwide resources from 2019 onwards
- Import parity pricing mechanism for DAP for use in financial evaluation:

10 year average forecast shipping rate <u>US\$86/t</u> (Tampa to Townsville)

+

10 year average forecast DAP <u>US\$445/t</u> (DAP fob Tampa)

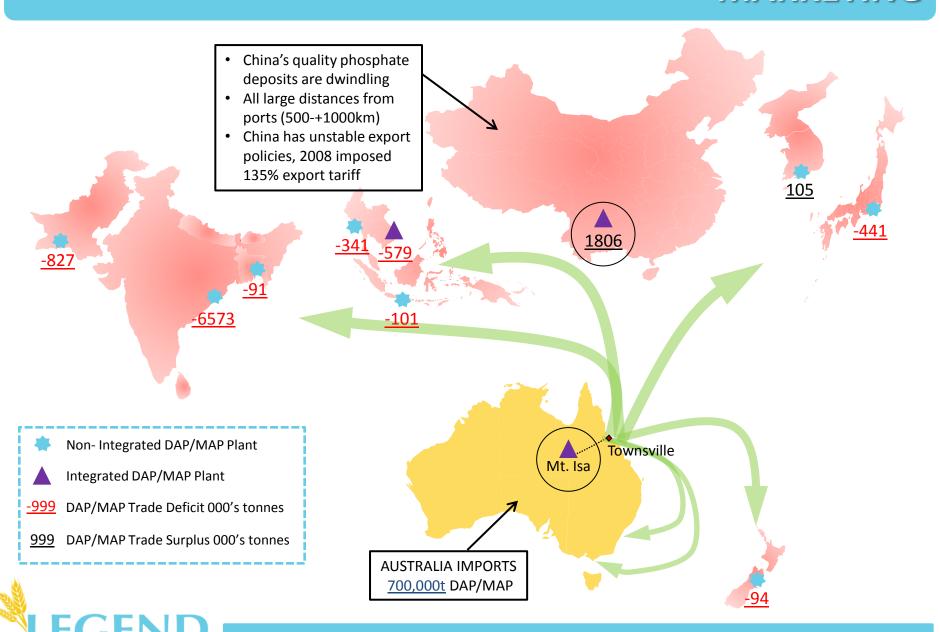
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Parity pricing
DAP <u>US\$531/t</u>
(DAP fob Townsville)

- Australia's aluminum smelting industry consumes approx. 20ktpa AIF₃
 - Estimate future price ranges between US\$1800-\$2000/t



MARKETING



DAP/MAP FORECAST 2010-2018

"Over 70% of future worldwide demand growth expected from this region"

From 2010 to 2018 MAP and DAP imports into this region will increase by 17% from a total of 10.5Mtpa to 12.3Mtpa.

Assuming China exports 100% of its MAP and DAP into this region, from 2010 to 2018 these exports will decline from 2.5Mtpa to 2.3Mtpa.

By 2018 a shortfall of 10Mtpa of MAP and DAP will need to be imported from outside this region and incur higher freight costs.

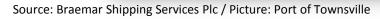
Legend is well placed to supply a large portion of this shortfall and will be highly competitive due to its freight advantage.



FREIGHT ADVANTAGE

| | Freight From Tampa /t US\$ | DAP/t FOB Tampa Price US\$ | DAP/t cfr (from Tampa) US\$ | Freight From Townsville US\$ | DAP/t FOB Townsville Price US\$ | Legend's freight advantage /t US\$ |
|-------------|----------------------------------|----------------------------------|-----------------------------------|------------------------------------|---------------------------------------|--|
| Indonesia | 62 | 470 | 532 | 25 | 507 | 37 |
| Malaysia | 66 | 470 | 536 | 26 | 510 | 40 |
| South Korea | 57 | 470 | 527 | 27 | 500 | 30 |
| Japan | 57 | 470 | 527 | 28 | 499 | 29 |
| Pakistan | 60 | 470 | 530 | 33 | 497 | 27 |
| India | 44 | 470 | 514 | 25 | 489 | 19 |
| Australia | 70 | 470 | 540 | - | 540 | - |





ENVIRONMENT & TENURE

Currently 3 Mining Lease Applications (MLA) being processed by the Queensland Government via approval through the Environmental Protection (EP) Act, Native Title Act (NTA) and Mineral Resources Act (MRA)



- MLA 90191 Paradise North / MLA 90197 Paradise South / MLA 90190 D-Tree North
- Queensland Department of Environment & Resource Management (DERM) have signed environmental authorities under the EP act for Paradise North and D-Tree North
- Legend granted 'Right to Negotiate' for Paradise North and D-Tree North mine leases and have signed agreements with local indigenous group under the NTA
- Requirements of the EP Act, NTA and MRA have been met
- Due to scale of the Paradise South production Legend has voluntarily submitted an application to undertake an Environmental Impact Statement (EIS)
 - Terms of reference agreed with DERM on June 30, 2010
 - Advertised in public notice on July 3, 2010
- Legend granted 'Right to Negotiate' under the NTA for Paradise South mine lease
 - Advertised in public notice on May 5
- Legend has a strong working relationship with local indigenous communities and historical land owners native to the Legend resource deposits



ABOVE: Joseph Gutnick, President/CEO, Legend signing native title agreement with the Kalkadoon Community

IMPLEMENTATION SCHEDULE

Legend Georgina Basin Phosphate Project Execution Schedule

Timeline

Project Planning Stage

Feasibility Study Assessment

Bid for EPC

EPC contract awarded

Project Execution Stage

Engineering Design

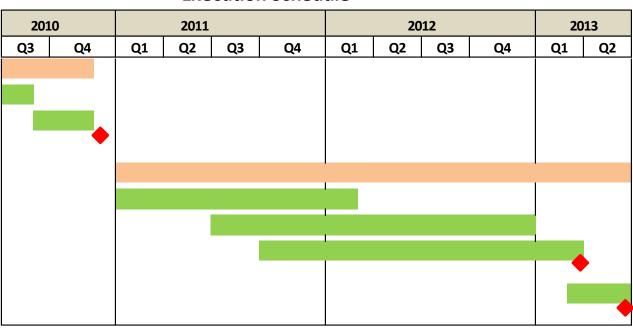
Procurement

Construction

Mechnical Completion

Commissioning

Start-Up





RECENT M&A ACTIVITY

Vale's Bayovar Project

| Investment | Project | Tonnes (Mt) | Grade P ₂ O ₅ | P ₂ O ₅ (Mt) | Transaction | US\$ | /t P2O5 |
|------------------------|---------|-------------|-------------------------------------|------------------------------------|-------------|------|---------|
| Vale's investment 2005 | Bayovar | 800 | 6.5% | 52.0 | US\$300m | \$ | 5.77 |
| 60% Mitsui/Mosaic 2010 | Bayovar | 247 | 17.2% | 42.5 | US660m | \$ | 25.88 |

Legend's Phosphate Project

| | Tonnes (Mt) | Grade P ₂ O ₅ | P ₂ O ₅ (Mt) | \$/t P2O5 | Valuation | Valuati | on/share |
|---------------------------|-------------|-------------------------------------|------------------------------------|-----------|-----------|---------|----------|
| Legend's Total Historical | 1,329 | 16.2% | 215.3 | 5.77 | \$ 1,242m | \$ | 5.49 |
| Legend's Current JORC | 392 | 15.7% | 61.5 | 5.77 | \$ 355m | \$ | 1.57 |
| Legend's Current JORC | 392 | 15.7% | 61.5 | 25.88 | \$ 1,593m | \$ | 7.04 |

Current share price US\$0.72 - A lot of upside potential



FUTURE PLANS

- Initial Feasibility Expansion Study results; positive with high likelihood that project profitability will significantly increase as compared to the base case scenario
- Legend has been progressing discussions with potential equity partners, including Wengfu, to achieve and finalize a suitable financing strategy for the project
- Legend has decided to combine the results of the recent Paradise Feasibility Study, the current and ongoing work of the Feasibility Expansion Study and the Paradise Ore Reserve estimates into one encompassing Definitive or Bankable Feasibility Study (DFS)
- Parts of the DFS will be used as a basis for EPC tendering documents for the engineering, procurement and construction of the Mt Isa Fertilizer Complex and the Paradise South Flotation Beneficiation Plant.
- The DFS will report estimates of Ore Reserves and capital and operating costs for the expanded production scenario of 1.2Mtpa of DAP/MAP and 30Ktpa of AIF₃ upon completion in early Q1,2011
- Further value addition through investigation of other specialty chemicals that can be made from Legend's rock
- Potential stand alone beneficiated rock project at D-Tree deposit



CORPORATE INFORMATION

| SECURITY CODE (OTC:BB) | LGDI |
|---|----------------------|
| Total issued shares | 226,399,674 |
| Market capitalization @ US\$0.77 | US\$174.33m |
| Key Shareholders | |
| Renika Pty Ltd | 21.2% |
| IFFCO | 15.2% |
| Soros Fund Management LLC Chabad House of Caulfield | 10.4% 8.8% |
| Cash | A\$47.0m |
| | (as of 30 June 2010) |



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DISCLAIMER

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.

Resource Explanatory Notes

All 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 1329 million tonnes is derived from the most recently published government¹ and academic records² 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.

At Lady Annie and Lady Jane it is known that historical landholding relinquishments occurred in order to retain the main 1973 reserve areas only. Publicly available maps³ for Lady Annie and Lady Jane showing deposit thickness, areal extent and 1973 reserve categories have been used to estimate that approximately 80% of the historical global resource estimate of 486 million tonnes is contained on current Legend landholdings and 100% of the 1973 reserve areas. This means that out of the total historical global estimates of 1329 million tonnes it is more likely that approximately 1240 million tonnes exist on our current landholding boundaries, although without detailed drilling data this is difficult to estimate accurately.

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.

3 Queensland Government Department of Mines and Energy – Open File Reports for EPM16942 & EMP14753

