Lycopodium

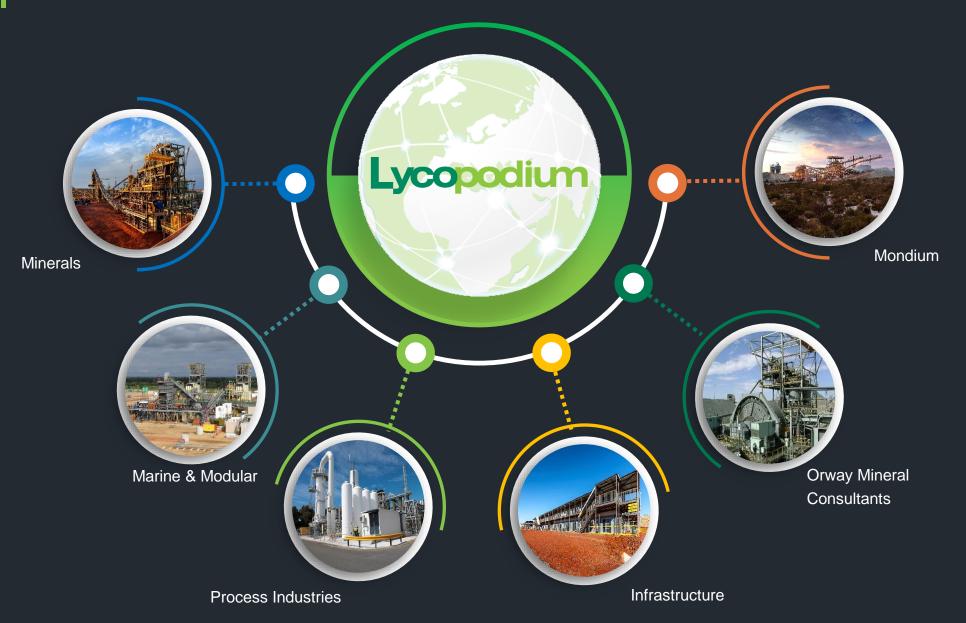
Delivering engineering excellence, value and innovation



Company Overview



Corporate Structure



Lycopodium Minerals



Marine & Modular

MARINE AND MODULAR





- Diamond Processing
- Mineral Processing
- Fixed and Modular Process Plants
- Underwater Mining

Process Industries

PROCESS INDUSTRIES





- Specialty Chemicals
- Pharmaceuticals
- Research & Development
- Food and Beverage
- Manufacturing

Infrastructure



- Civil
- Rail, Roads, Aviation
- Mine Infrastructure & Accommodation
- Industrial, Commercial & Public Works Buildings
- Asset Management

INFRASTRUCTURE



Orway Mineral Consultants



- Comminution Circuit Design, Modelling and Optimisation
- Hydrometallurgy
- Process Plant Consulting and Commissioning

ORWAY MINERAL CONSULTANTS



MONDIUM



- A Lycopodium / Monadelphous JV
- Large scale EPC
- Australia-focussed





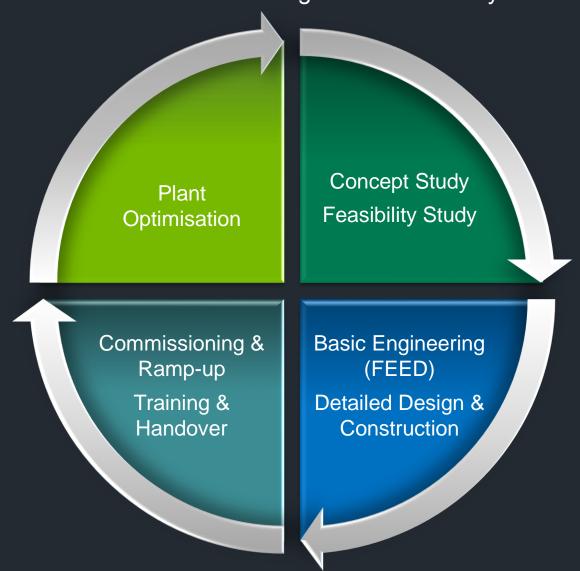
Lycopodium Operating Centres



MINERALS

Services

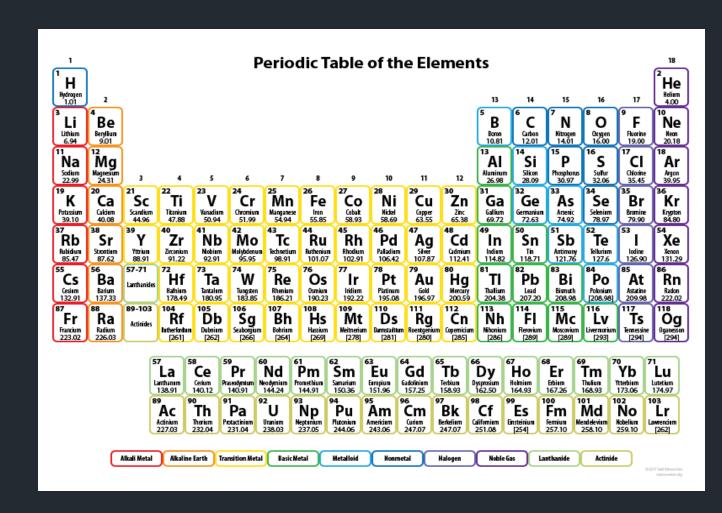
Lycopodium's services extend through the entire life cycle of a project



STUDIES

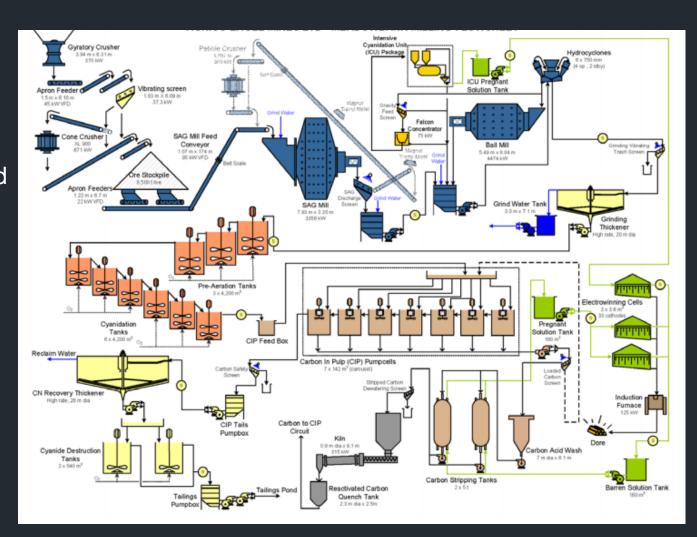
Studies

 Unlock the chemistry and metallurgy



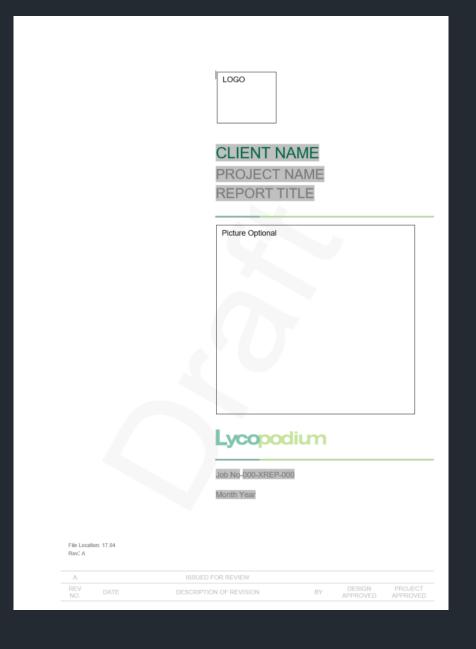
Studies

- Unlock the chemistry and metallurgy
- Solve problems and move the project forward



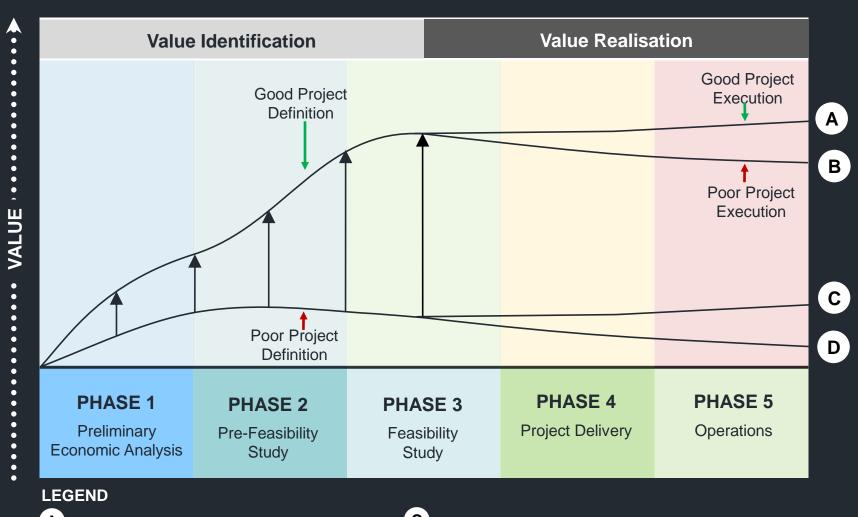
Studies

- Unlock the chemistry and metallurgy
- Solve problems and move the project forward
- Produce a document that can be relied upon





Studies – Where the Value is Added



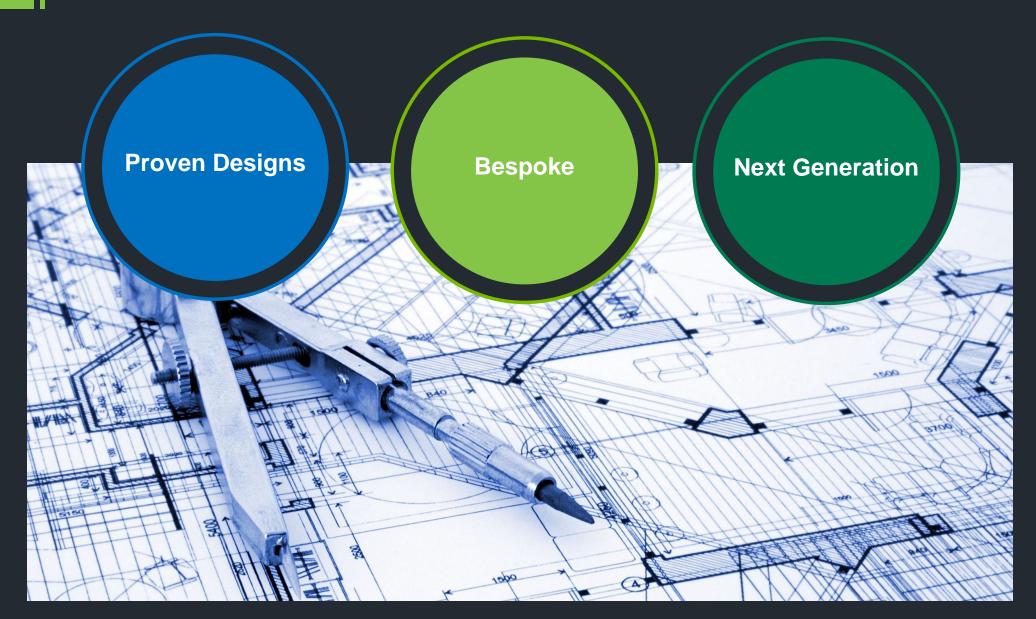
- A Good Project Definition and Execution
- B Good Project Definition and Poor Project Execution
- C

Poor Project Definition and Good Project Execution

D

Poor Project Definition and Poor Project Execution

ENGINEERING



 Bespoke solutions next generation designs



Sampling for diamonds in the surf zone - Skeleton Coast, Namibia

- Bespoke solutions next generation designs
- Digital engineering

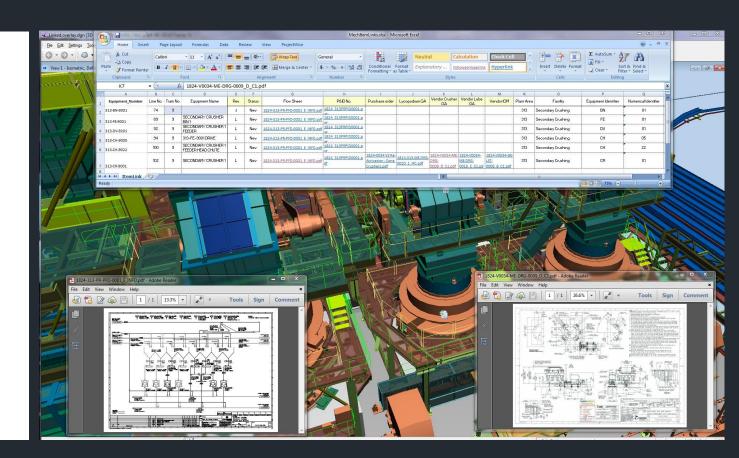


Cobre secondary crushing

- Bespoke solutions next generation designs
- Digital engineering
- Virtual reality



- Bespoke solutions next generation designs
- Digital engineering
- Virtual reality
- BIM



PROJECT DELIVERY

Project Delivery



Safety

Period	TRI	TRIFR*	LTI	LTIFR*	Hrs
2018 CY	3	1.10	0	0.00	2,720,945
2017 CY	12	2.36	1	0.20**	5,083,883
2016 CY	3	1.18	1	0.39**	2,546,977
2015 CY	2	1.47	1	0.74**	1,361,164
2014 CY	8	2.68	1	0.33**	2,981,819
2013 CY	31	2.72	2	0.18**	11,389,138

Statistics as at 31 December 2018



^{*} Frequency rates based on 1 million manhours

^{**} Indicates result is above target

Project Delivery – Flexibility in Contracting Models



EPCM

Engineering and project delivery services under fixed price, reimbursable and incentivised models.



EPC

Delivery of Projects with Lycopodium as stand alone EPC Contractor, Lump Sum, D&C approach including supply and install all equipment & materials.



EP as part of Client Self Perform

Engineering, drafting and technical procurement services as part of Client Self Performed project delivery.



Integrated Approach

Integrated team
involving
Lycopodium and
Client for full
delivery of project
with "best for
project" approach on
scope split.



PMC

Prime Management
Contractor appointed
by the Client to
manage large
projects.

OPTIMISATION

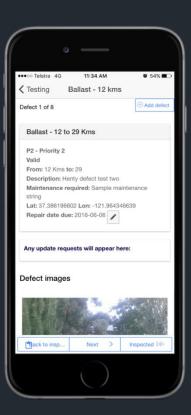
Optimisation – OMC's Track Record

PROJECT	COUNTRY	BENEFIT		PROJECT	COUNTRY	BENEFIT	
		IDENTIFIED	REALISED			IDENTIFIED	REALISED
Gold 1	Ghana	17.6%		Copper 1	Zambia	9.6%	
Gold 2	Ghana		15.8%	Gold 13	Indonesia		12.5%
Gold 3	Mongolia		18.3%	Gold 14	Qld, Australia		10.5%
Gold 4	Tanzania	10.0%		Copper 2	Qld, Australia		10.0%
Gold 5	USA		11.0%	Nickel 3	Western Australia		5.3%
Gold 5	USA		22.0%	Gold 15	Russia	15.3%	
Gold 6	NSW, Australia		9.3%	Gold 16	Tanzania	9.6%	
Gold 7	Ghana		3.5%	Copper 3	NSW, Australia		12.2%
Gold 8	Indonesia		31.3%	Gold 17	Dominican Republic		16.2%
Gold 9	Australia		44.0%	Gold 18	Western Australia	11.5%	
Gold 10	Western Australia		19.0%	Copper 4	Zambia		22.9%
Gold 11	DRC		11.5%	Gold 19	Ghana	10.6%	
Nickel 1	Australia		15.0%	Gold 20	Indonesia		38.0%
Nickel 2	Finland		13.6%	Gold 21	Western Australia		38.7%
Gold 12	Western Australia	12.9%		Gold 22	Canada		10.0%

Optimisation – Asset Management

- Asset management portal for scheduling of maintenance and management of defects through to closure for linear systems
- Field inspections using hand held devices via a LycoMMS app (available in the app store)
- Systems operates even in areas without mobile coverage

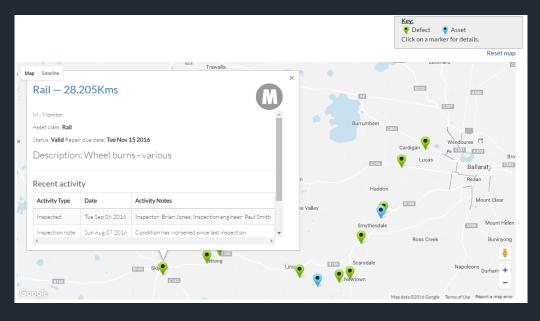


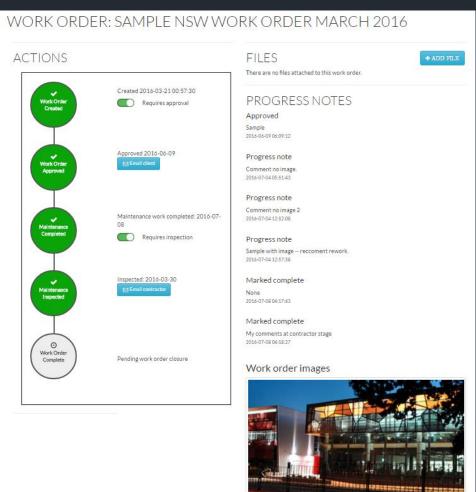




Optimisation - Maintenance

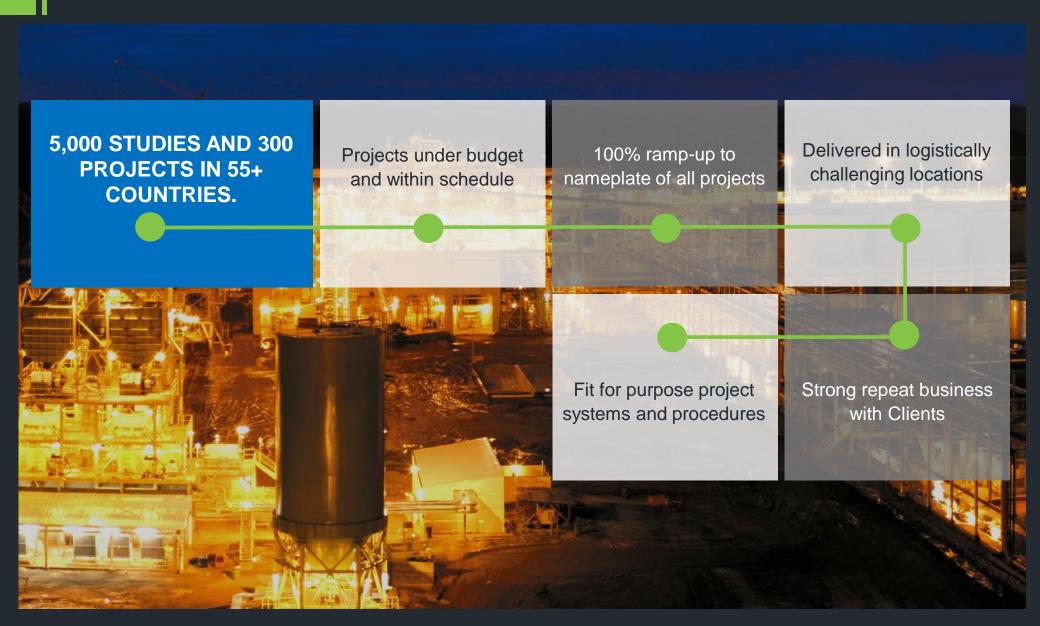
- Map defects and assets pop up with details
- Fully automatic work order process with notes and images





Work order image Sample image

Track Record of Achievement





Range of Commodities

Gold



Range of Commodities

- Gold
- Copper



Range of Commodities

- Gold
- Copper
- Nickel



- Gold
- Copper
- Nickel
- Base Metals



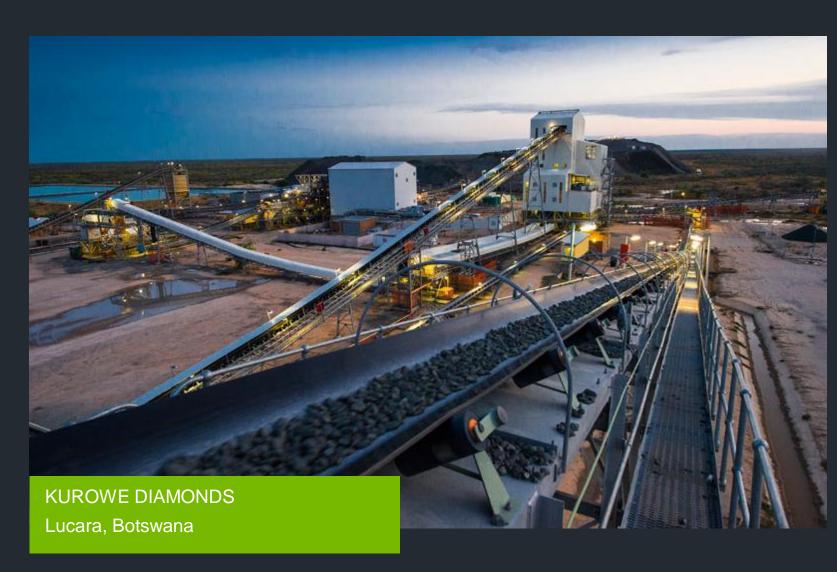
- Gold
- Copper
- Nickel
- Base Metals
- Iron Ore

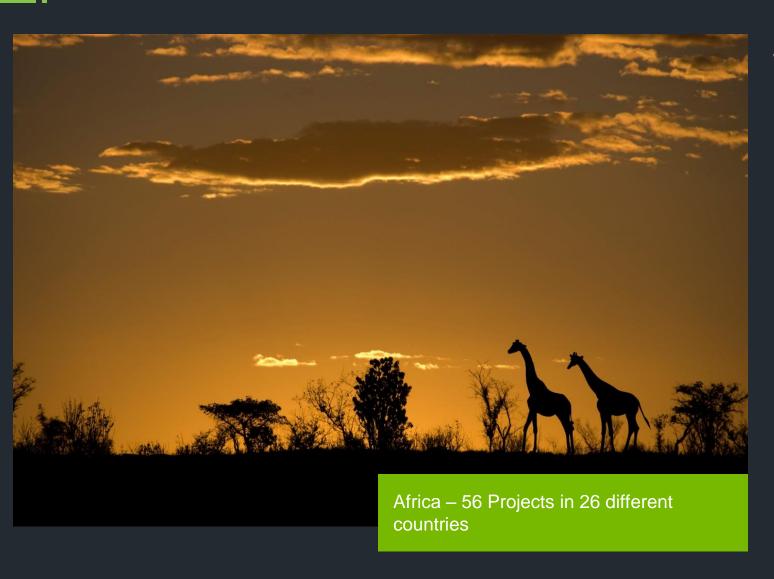


- Gold
- Copper
- Nickel
- Base Metals
- Iron Ore
- Battery Minerals



- Gold
- Copper
- Nickel
- Base Metals
- Iron Ore
- Battery Minerals
- Diamonds





Specialists in Africa



- Specialists in Africa
- All continents (except Antarctica)

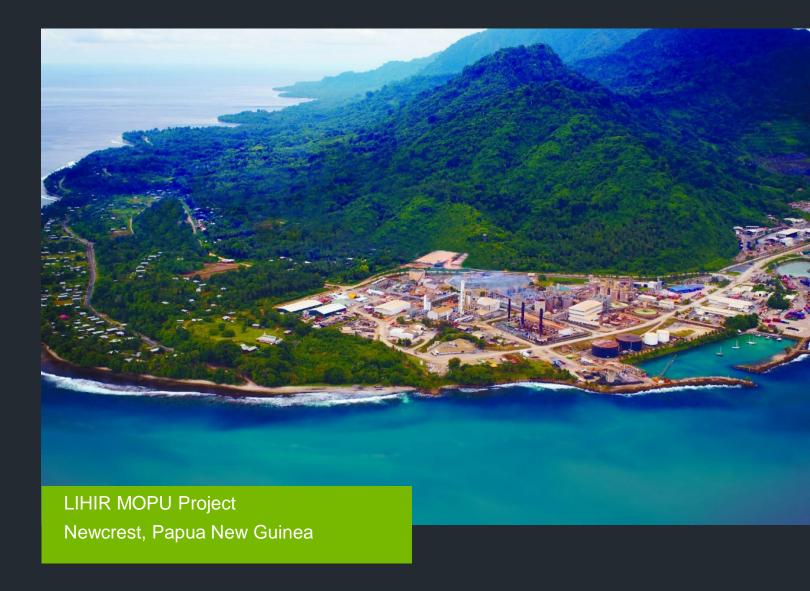


- Specialists in Africa
- All continents (except Antarctica)
- Language no barrier



- Specialists in Africa
- All continents (except Antarctica)
- Language no barrier
- Logistics no barrier

Tropical



- Tropical
- Desert

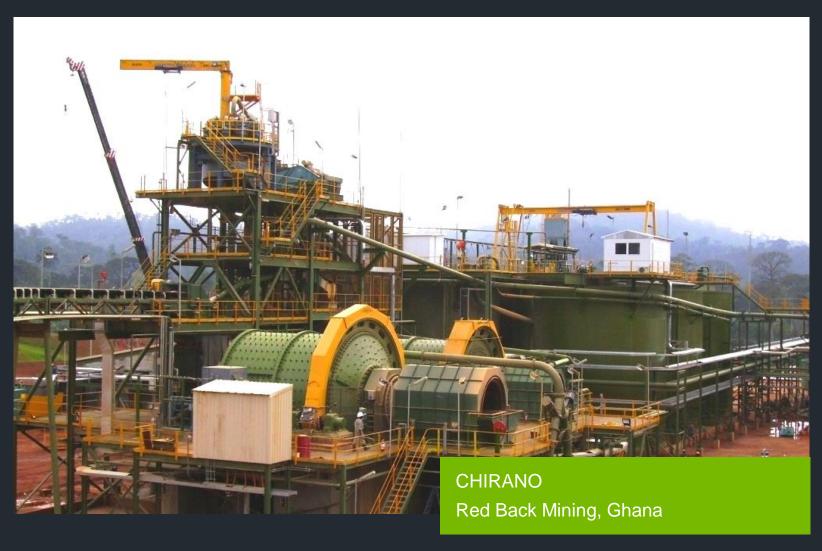


- Tropical
- Desert
- Cold Weather



- Tropical
- Desert
- Cold Weather
- Marine





Juniors



- Juniors
- Mid-tiers



- Juniors
- Mid-tiers
- Majors



- Juniors
- Mid-tiers
- Majors

PROCESS INDUSTRIES

Process Industries

- Chemical and energy
- Pharmaceutical and biotechnology
- Food and beverage
- Sustainability and environment
- Manufacturing and R&D



Hydrogen sulphide plant, Sumitomo, Philippines



Alkaloid extraction plant GlaxoSmithKline, Vic



Sauce manufacturing plant, Cerebos Foods, NSW



Stuart Energy Project

INFRASTRUCTURE

Infrastructure

- Rail
- Non-Process Infrastructure
- Roads
- Asset Management









SOCIAL LICENCE

Community Engagement



Supporting volunteer services and employee fund raising efforts.

Organise, coordinate and distribute educational supplies amongst schools in the vicinity of our Projects.

Providing on the job education and training.

Setting local recruitment targets for each project.

Monitoring against KPI's

Engaging with local and regional schools and universities to provide supplemental training of our local work force.

Work with our clients to enhance their community engagement plans.



Cultural Engagement

- Supporting Clontarf
- Supporting Murlpirrmarra Connection
- Interaction with the community
- Local Engagement Strategy









FINANCIAL

Current Financial Summary

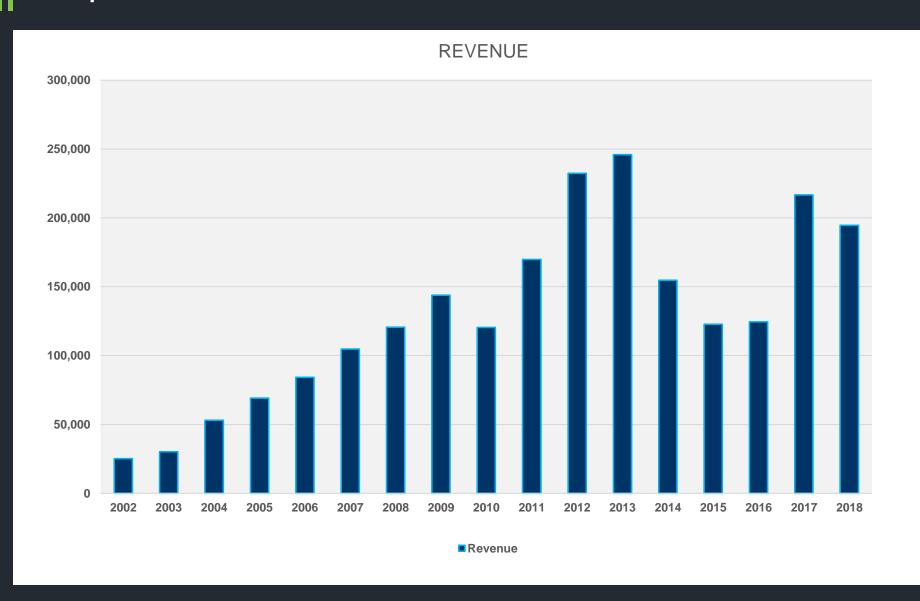
Half Year Results	31/12/2018 \$000's	31/12/2017 \$000's
Revenue from Operations	73,053	91,466
Net Profit After Tax (for Half Year)	8,523	7,301
Cash & equivalents	61,405	74,283



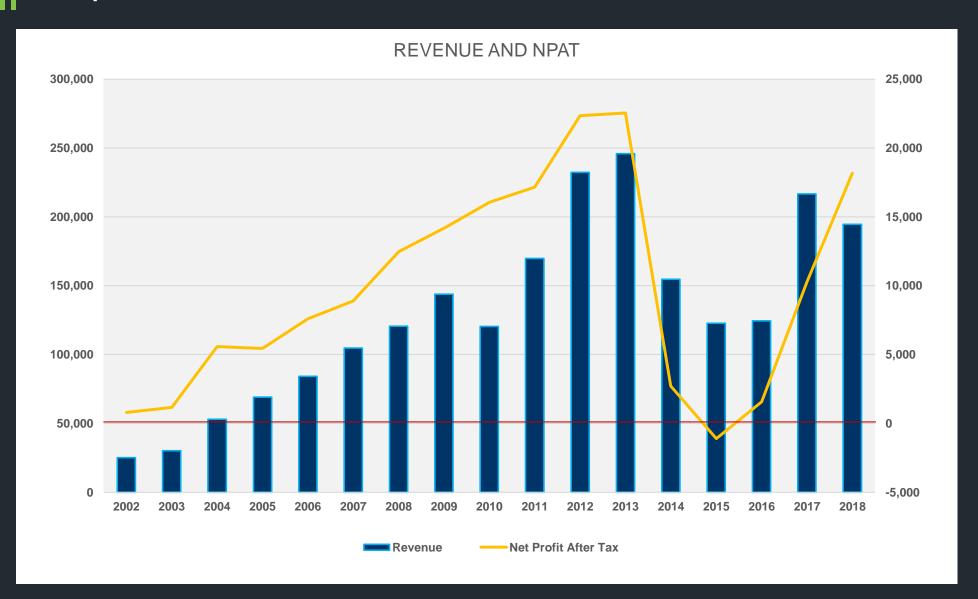




Corporate Financial Performance

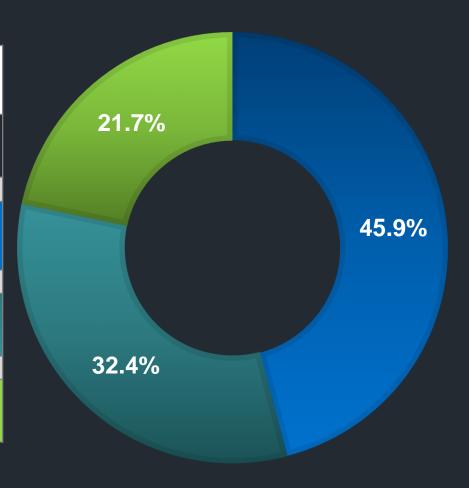


Corporate Financial Performance

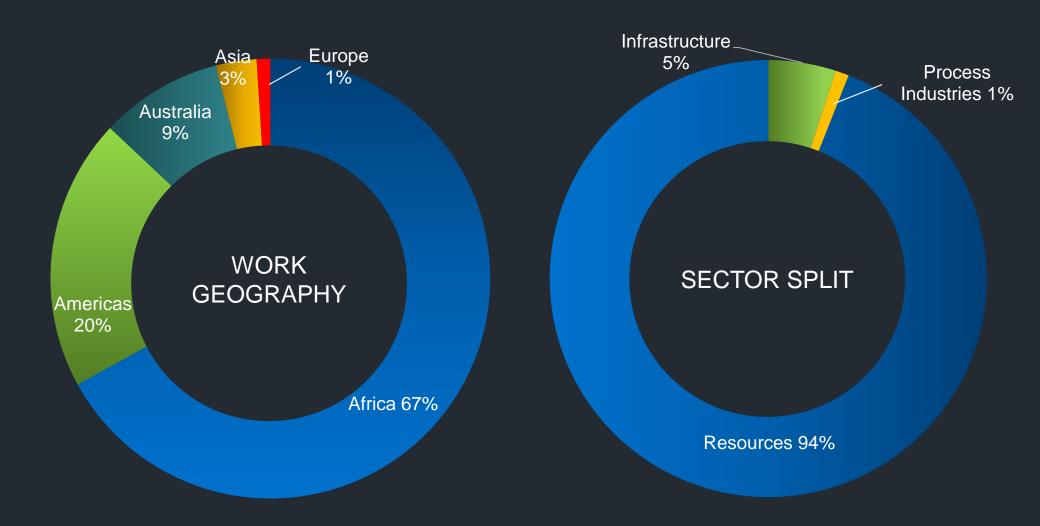


Shareholding

Category *as at Aug 18	Shares	% of total issued shares
Total Issued Shares	39,732,373	100%
Directors, Management and related parties	18,234,145	45.9%
Institutional Investors	12,259,422	32.4%
Other	9,268,820	21.7%



Geography and Sectors



Lycopodium is:

- Delivering
 - natural resources projects
 - complex chemical and industrial projects
 - infrastructure projects
- Operating in Africa, SE Asia, North America and Australia.
- Arguably the world's preeminent engineering and project delivery company in gold
- Active in iron ore, copper, nickel, lithium, graphite, diamonds and other precious stones (among many other metals and minerals).
- Servicing a full spectrum of clients from juniors and mid-tiers to majors

A quiet achiever exporting Australian skills and know-how to a global market

THANK YOU