

ORICA MINING CHEMICALS

2010 Orica Investor Event
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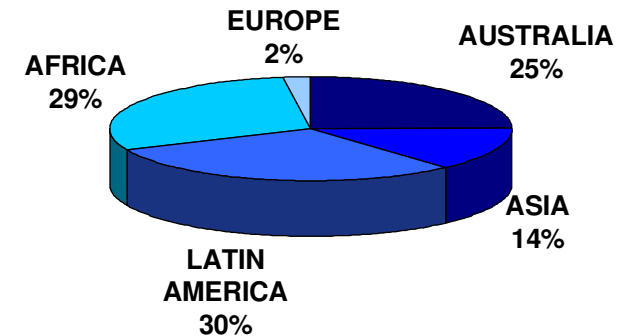
Thursday, 15 July 2010

The Power
of Partnership



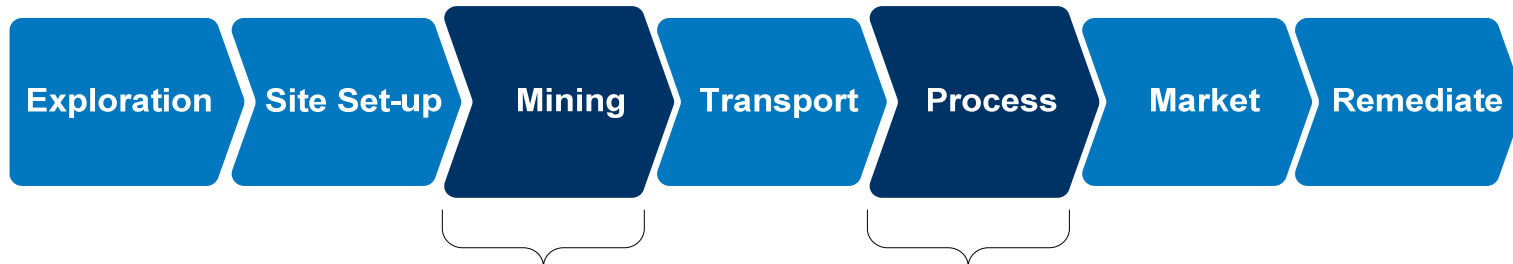
Orica Mining Chemicals

- A leading producer and global supplier of chemicals for the mining industry
- Products offered include sodium cyanide, a wide range of commodity chemicals, specialty collectors and frothers, and emulsifiers
- Committed to providing quality products and services, supported by strong technical expertise
- Safe and efficient management of international supply chain



Geographic Sales by volume
2009A

Markets We Supply

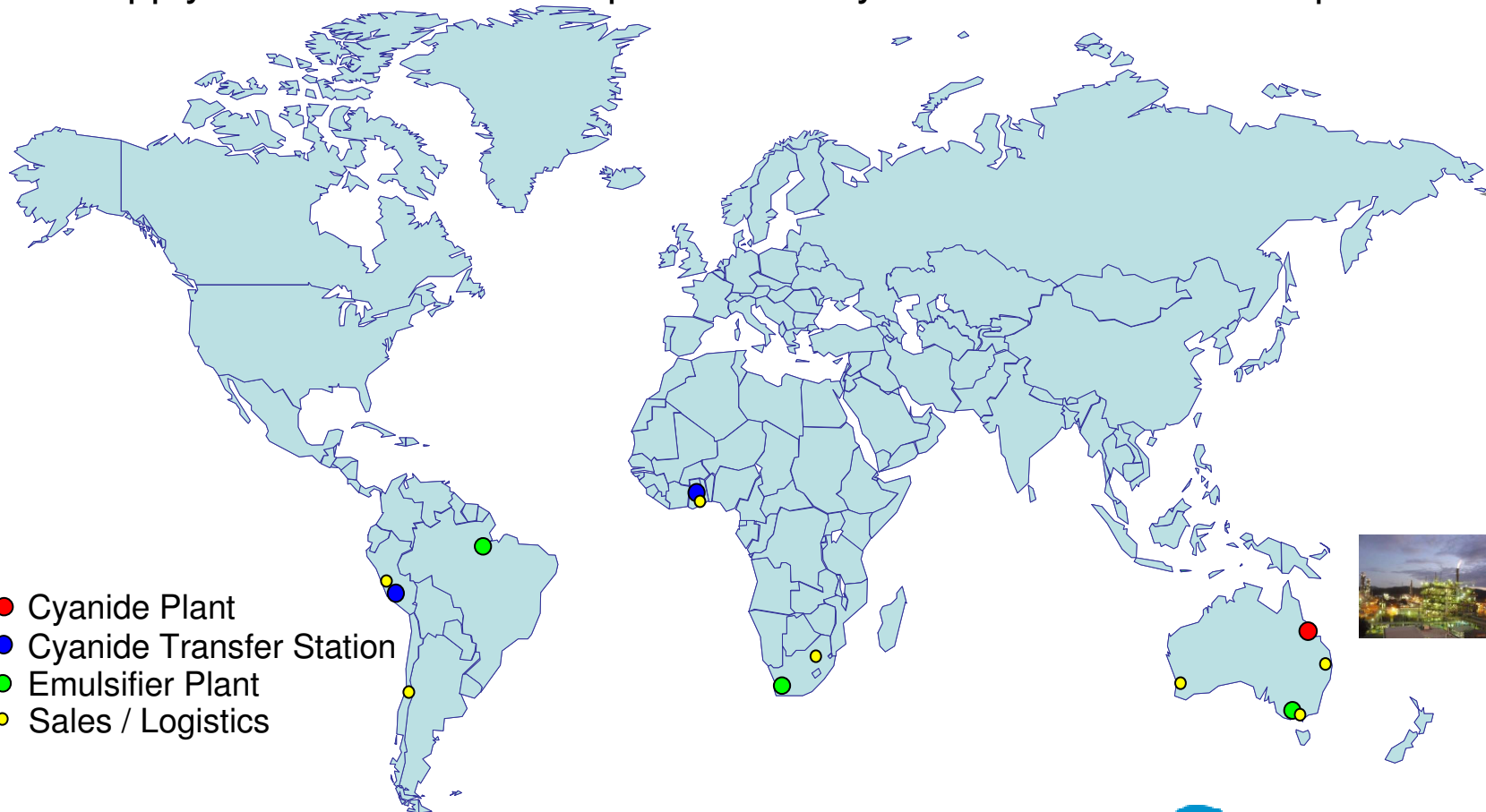


- Sodium Cyanide → Gold Recovery
- Emulsifiers → Blasting Agents
- Other Chemicals → Mineral Recovery



Global Capability

- Supply to over 40 countries predominantly in the Southern Hemisphere



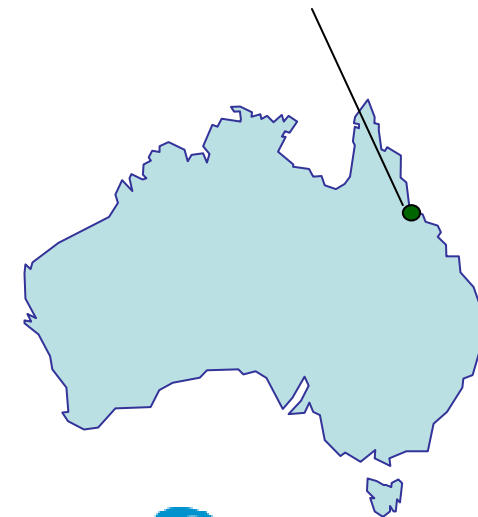
- Cyanide Plant
- Cyanide Transfer Station
- Emulsifier Plant
- Sales / Logistics

Sodium Cyanide

- Long manufacturing history, spanning more than 100 years
- First company (ICI at the time) to manufacture sodium cyanide
- Current plant commissioned in 1990 with capacity of 20Ktpa
- Today a world scale facility with capacity of 80Ktpa, being expanded in early 2011 to 95Ktpa
- ISO 9002 and full accreditation to International Cyanide Management Code – foundation signatory
- Plant can be further expanded to meet growing market demand



Yarwun, Australia



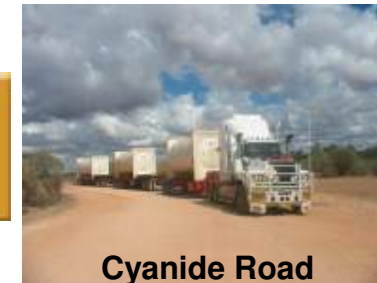
How Sodium Cyanide is Used

- Heap Leach
 - Dilute cyanide solution trickled through ore pads to complex with gold.
 - Carbon recovers gold
 - Used for bulk low grade ore bodies
 - Higher levels of cyanide used for low capital cost infrastructure
- Carbon in Leach (CIL)
 - Dilute cyanide solution added to finely ground ore to complex with gold
 - Carbon recovers gold
 - Cyanide destruction is becoming common prior to disposal of tailings
- No commercially viable alternative to sodium cyanide



The Supply Chain

- Manufacturing Risk Management
 - Orica has achieved ISO 9002 and full compliance with the International Cyanide Management Code for manufacturing
 - International Emergency Response Capability
- Transport Risk Management
 - Orica has achieved full compliance with the International Cyanide Management Code for transport
 - Transport Providers have risk management plans including operator training programs
 - Transport Emergency Response Plans in every country we operate in.
 - Mine Staff Safety Training Programs
 - Mine site audits for compliance to safety standards



Cyanide Road
Train



Cyanide Briquettes



Bulk Sparge

Sparge Technology



Box Packaging



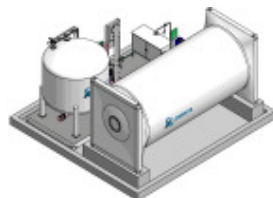
Box Mixing



Peru Transfer Station






Bulk Sparge



Mini-Sparge

- Orica has developed an innovative, safe and efficient bulk sparging sodium cyanide delivery system
- Eliminates need for mixing boxes at minesite
- Employed at more than 30 mine sites in Australia and internationally.
- Transfer Stations in Peru and Ghana allow bulk delivery of dry product to the minesite
- Waste packaging is almost eliminated
- Lowers risk in road transport

Strong Relationships with Major Gold Producers

	Gold (tpa)			
Barrick Gold	232	✓	✓	✓
Newmont Mining	164	✓	✓	✓
Anglogold Ashanti	142	✓	✓	✓
Gold Fields Inc	114	✓	✓	✓
Goldcorp	74	✓	✓	✓
Freeport McMoran*	70	x	✓	x
Kinross Gold	69	x	✓	✓
Newcrest	51	✓	✓	✓
Harmony Gold Inc	46	✓	✓	✓
Rio Tinto	38	✓	✓	✓

Top 10 produce over 40% of the world's mined gold

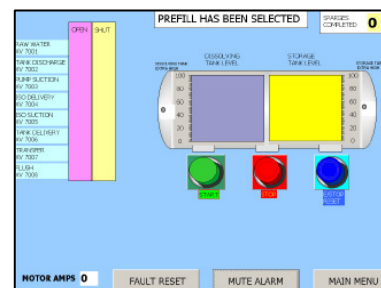
* Freeport does not use sodium cyanide

Source: Company Reports 2009



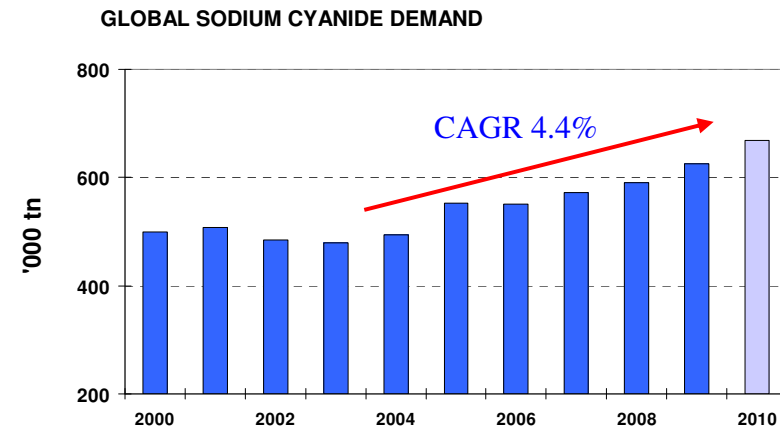
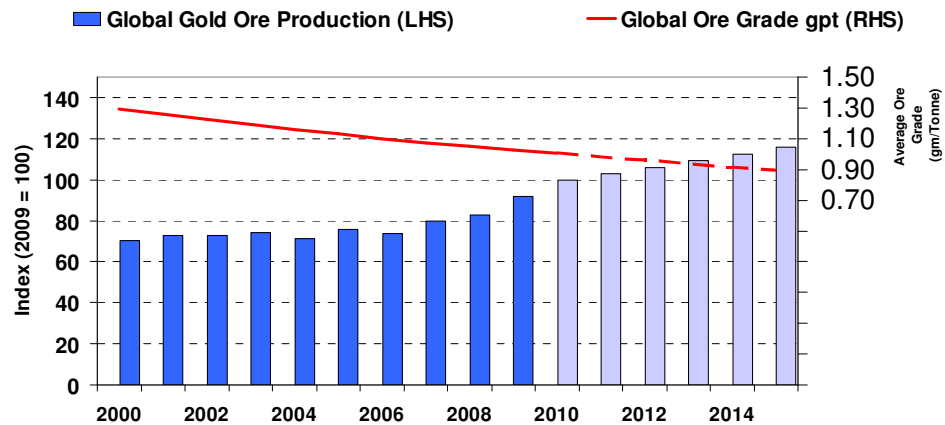
More than just a supplier

- Innovate to ensure a strong differentiation in our dealings with customers.
 - Cyanide efficiency programs.
 - Stock management systems and tools such as internet telemetry to manage product delivery
 - Cyanide analysers to optimise performance and minimise costs.
 - Collaboration with industry R&D programs.



Gold Mining Trends

- The Growth rate in Ore Production is reflected in Cyanide demand

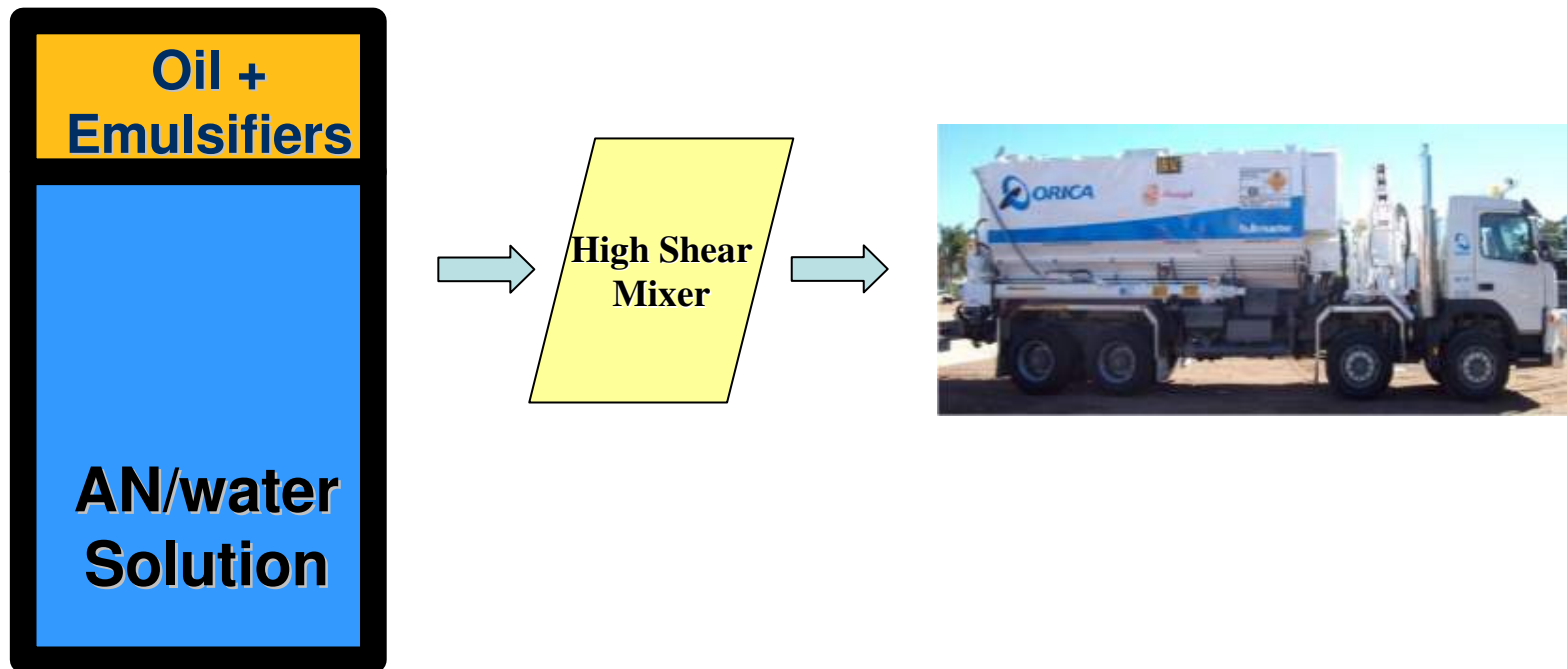


Sodium Cyanide Summary

- Strong growth rates given declining gold ore grades
- No viable alternative for gold recovery
- Effective risk management is a critical success factor
- Orica is a key player – scale, reach and mining focus
- Solid customer base
- Well positioned for growth

Specialty Chemicals

- Emulsifiers are an essential component in modern industrial explosives
- They homogenise and stabilise fuel and ammonium nitrate mixtures



Specialty Chemicals

- Manufacture emulsifiers and emulsifier - oil blends
- Manufacturing facilities in Victoria, South Africa, Brazil
- Capacity of 20,000 metric tonnes p.a.
- End-users are mining industry blasting service providers (internal and external)
- Reach over 31 countries
- Growth Rate over last 5 years (CAGR of 8.5%)
- Backward integration into raw materials – manufacture of PIBSA late 2010

Flotation Chemicals

- Froth Flotation is used in mineral processing to recover valuable minerals from the ore by changing the surface characteristics of these minerals
- Flotation chemicals are broadly broken into the following:-
 1. Frothers, (Commodity and Specialty)
 2. Collectors (Commodity and Specialty)
 3. Modifiers, (General Commodity Chemicals)
- Market predominantly sulphide base-metal minerals (Copper/Gold, Zinc/Lead, Nickel)



Flotation Chemicals

- Orica has specialty frothers and collectors sales in Australasia, Africa and South America
- Manufacturing and storage facilities in Australia and South America
- Highly skilled technical support is provided, a key value driver for mineral processing
- Growing business that commenced in 2004
- Small presence (~5%) in a large and growing global market of \$530 million*

* Management estimate

Business Summary

- Track record of growing the business : >25% sales CAGR over last 5 years
- Solid customer base with excellent growth prospects
- Strong customer relationships
- Value adding through technical support and innovative supply chain
- Effective risk management
- Well positioned for above average growth

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