





# **Alcan Investor Workshop**

# Toronto, October 3, 2006

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### **Discussion Topics**



Group Performance

Update on Current Portfolio

Alumina Market / China

Additional Growth Opportunities

Summary

### **EHS** Performance



### Improving trend on environment, health and safety performance

#### **Recordable Case Rate**



0.54

2004

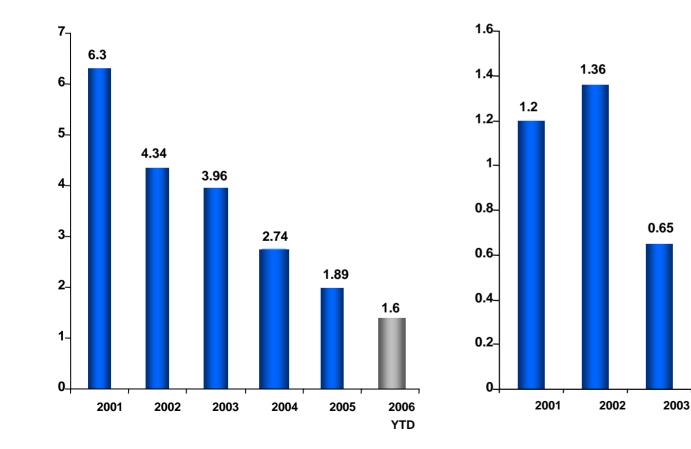
0.65

2005

0.48

2006

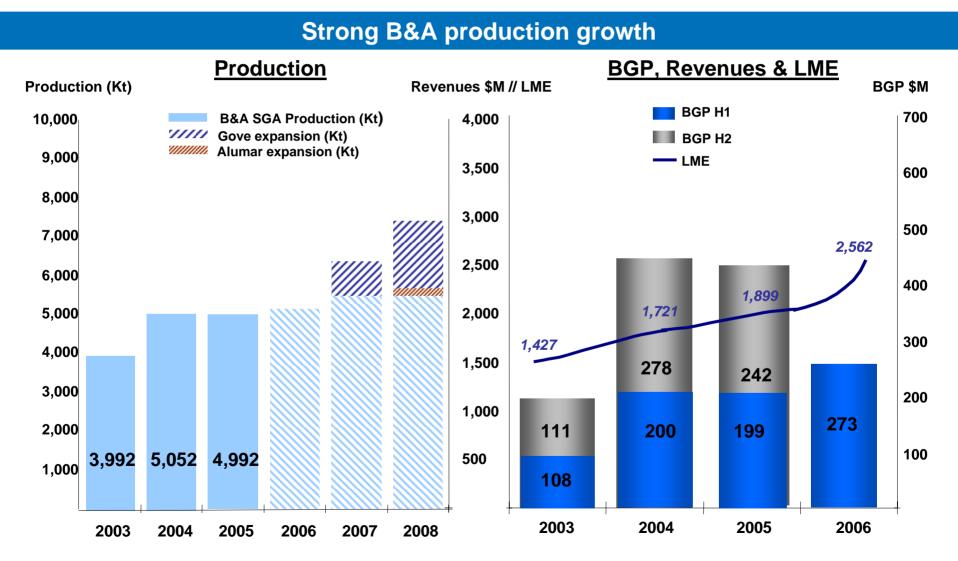
YTD



#### LTII C

### **Alumina Production & Revenues**





### **Alcan Bauxite and Alumina Balance**



	<u>Current</u>	Post-Approved
Balance of Bauxite Portfolio (Kt)		<b>Expansions</b>
Internal Production	16,500	19,900
Internal Demand	<u>13,500</u>	<u>17,300</u>
Internal Balance	3,000	2,600
Balance of Alumina Portfolio (Kt)		
Internal Production	5,200	7,200
Internal Demand	6,600	<u>7,100</u>
Internal Balance	(1,400)	100

# **Key Competitive Advantages**



### Low cost position

with completion of the Gove expansion, the gas to Gove project and the Alumar expansion, B&A will have 50% of its production in lowest cost quartile

#### Technology/engineering capabilities

best commercially available technology

#### Preferred partner

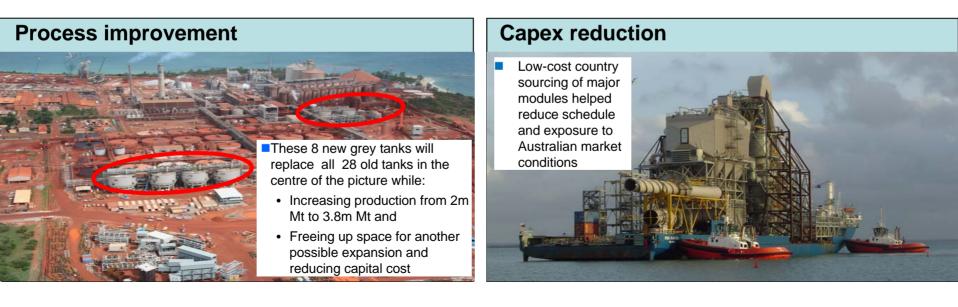
sustainability consolidates our "license to operate" and supports access to new resources

### **Technology and Innovation**



### Alcan's technology is well-recognized

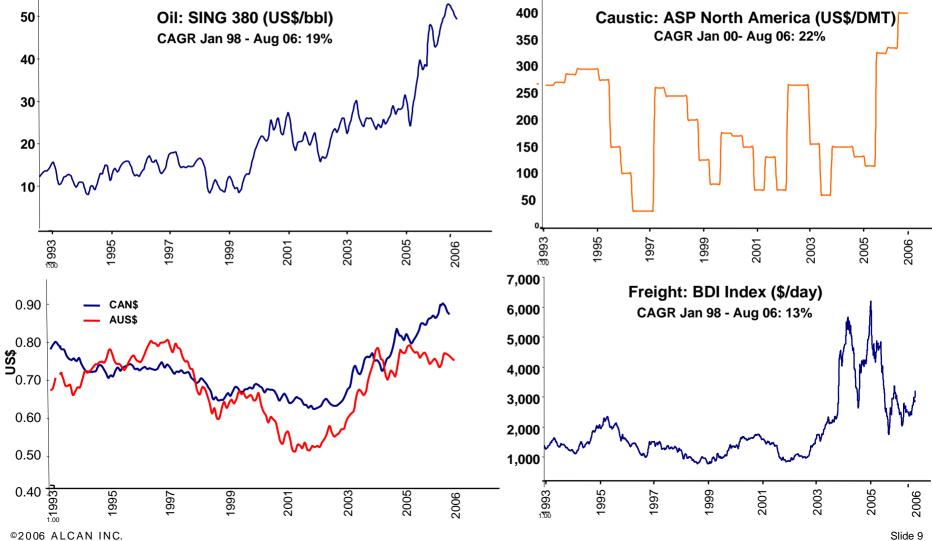
- Breakthroughs are being realized in process improvement with impact on capital costs, footprint and schedule
- Alcan uses advanced exploration techniques with the contribution of satellite imaging and 3D modelling, providing a new, sophisticated, low-cost exploration approach



### **Raw Material Price & Currency Volatility**



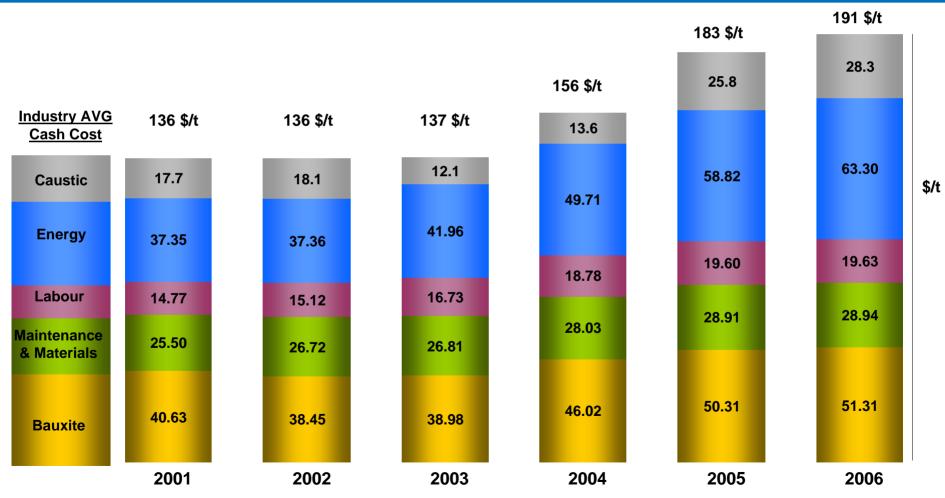
#### The alumina industry has been affected by unprecedented price increases...



# Alumina Industry Block Cost 2001-2006



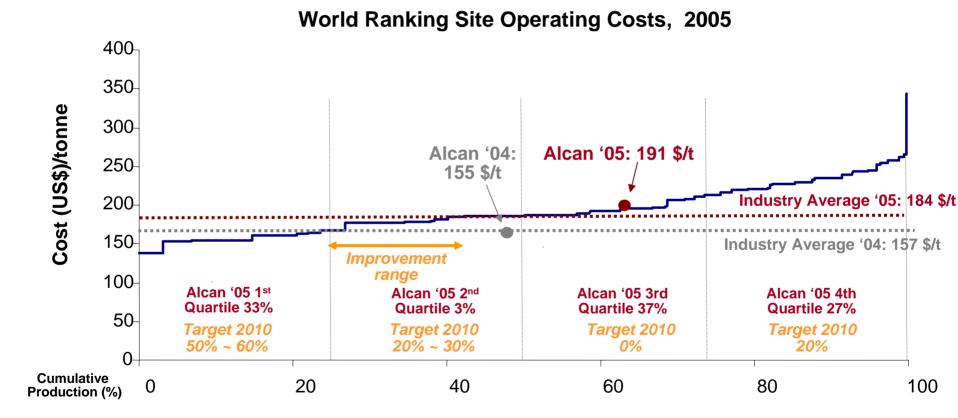
#### ... impacting substantially the industry cost curve



Source: CRU



### Target 50% of production in 1st quartile by 2009



Source: CRU & Alcan Internal.

### **Gove Expansion**



### Project on schedule despite challenging industrial environment in Australia

- Excellent EHS performance
- Some 25-30% of the capital cost enhances current operating efficiency and environmental performance
- Assembly of modules in low-cost countries allowed for:
  - Rapid construction schedule (27 months)
  - Partial mitigation of exposure to high-cost environment in Australia
- Unplanned hours for brownfield work became obvious in July-August as we started commissioning of some systems
- Expansion reduces cash cost by 30\$/t
- Gas conversion is also exposed to tight construction environment in Australia and we are assessing other options while maintaining support for PNG



# **Gove Expansion**





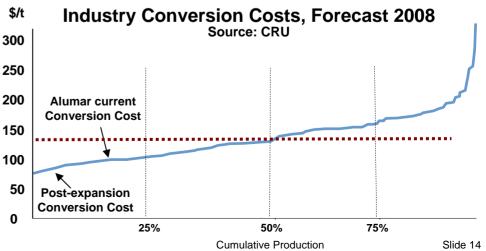
### Alumar



### **Construction underway with excellent EHS performance**

- Expansion of 2.1 Mt from existing capacity of 1.4 Mt.
- Alcan owns 10% with Alcoa and BHP holding the remaining 90%
- Construction underway (20% in overall progress) with outstanding EHS performance
- First production in Q3-2008 (expected 33-month construction)





### **Cost Optimization**



#### Gardanne

- Continue concentration on value-added products
- Closure of UPCA and migration of products to Gardanne

#### Vaudreuil

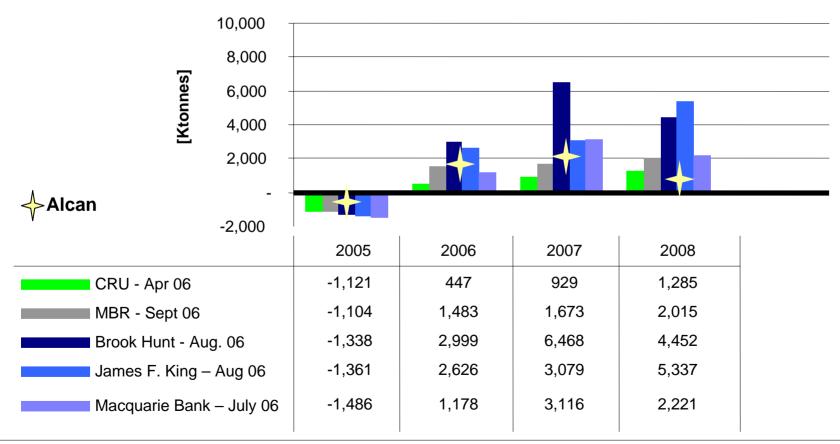
- Productivity improvements and cost cutting measures being implemented
  - Hydrate production increased by 11% in the last two years
- Increased outsourcing offering reduced labour cost and flexibility to adjust to changing market conditions

### **Alumina World Balance**



#### Moving from supply deficit to near-term surplus

#### **Alumina World Market Balance Forecast**



Sources : CRU, Metal Bulletin (MBR), Brook Hunt, Macquarie Bank, James F. King

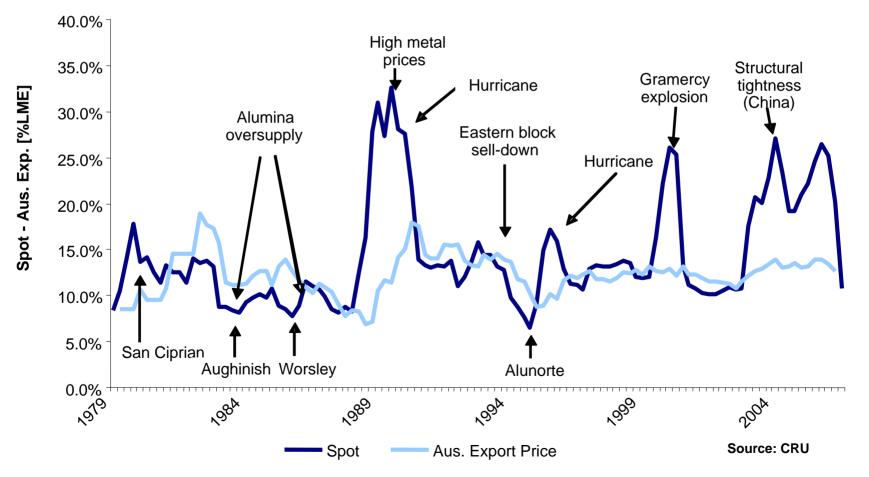
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### **Historical Prices**



Market returns to surplus – immediate impact on spot prices

#### **Spot and Australian Export Price Evolution**



# China Alumina Landscape



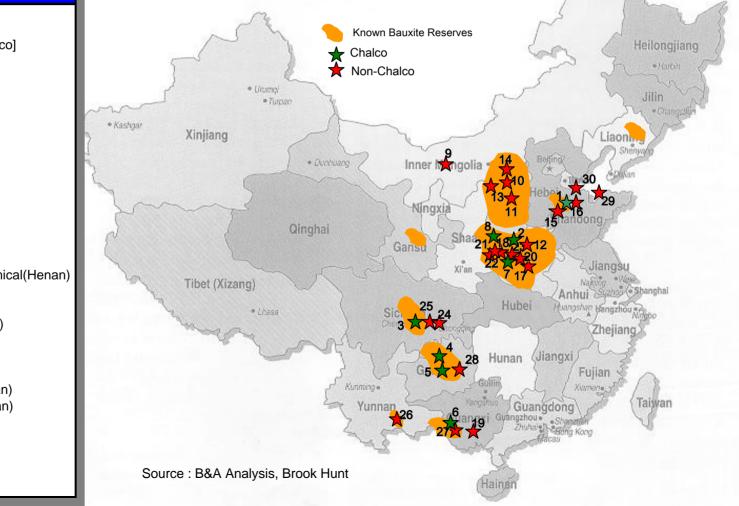
#### China could have up to 30 alumina refineries up and running by 2010

#### REFINERY MAP Shandong [Chalco] 1 Zhongzhou [Chalco] 2 Chongging-Nanchuan [Chalco] 3 Zunyi-Guizhou [Chalco] 4 Guizhou [Chalco] 5 Pingguo [Chalco] 6 7 Zhengzhou [Chalco] Shanxi [Chalco] 8 Mengxi (Inner Mongolia) 9 Luneng Jinbei (Shanxi) 10 Yangguan (Shanxi) 11 Weilai Aluminum (Henan) 12 Tongde (Datong- Shanxi) 13 Feicheng (Shanxi) 14 Xin-fa Chipping (Shandong) 15 Weigiao (Shandong) 16 Pingdingshan Huiyuan Chemical(Henan) 17 Yimei (Henan) 18 Guangxi project (Guangxi) 19 Zhongmei (Henan-Dengfeng) 20 21 East Hope (Henan) 22 Cayman (Henan) Wanji(Henan) 23 Chongquing -Dingtai (Sichuan) 24 Bosai (Chongquing-Nanchuan) 25 26 Yunnan Aluminum (Yunnan) Guangxi Huayin (Guangxi) 27

28 Kaili (Guizhou)

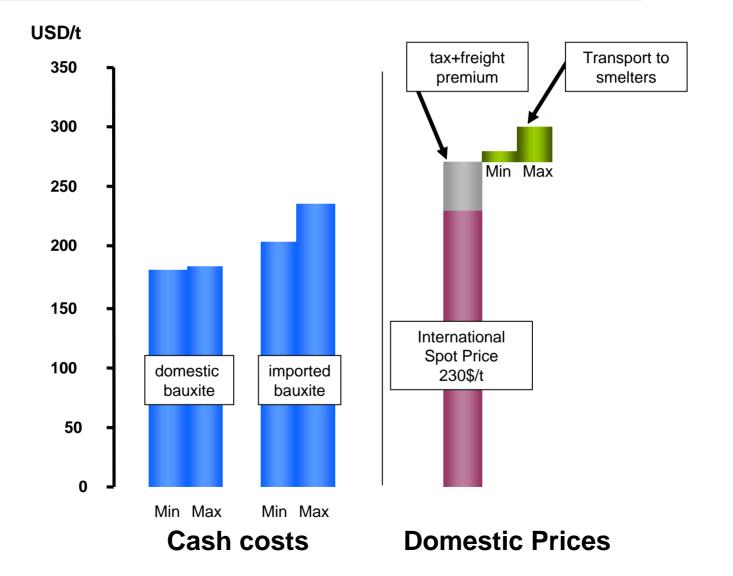
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- 29 Nanshan (Shandong)
- 30 Shandong Lubei Group



# **China New Alumina Refineries**





# 2007 Alumina Cash Cost Curve



USD/t **Alumina Demand Price zone Chinese capacity** 

tpy of production

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### **Market Outlook**



- Alumina market expected in surplus for the next 2~3 years
- China alone will represent more than 50% of the global growth in supply and demand
- Chinese alumina imports expected to decrease
- Due to the poor quality of the Chinese bauxite and the use of imported bauxite, the Chinese refineries are expected to be on the 3<sup>rd</sup> and 4th quartile of the industry cost curve
- Self-regulating price is expected to remain in the 250~300\$/mt range



### **Opportunities in lowest cost quartile**

Project	Description and Benefits
Guinea	<ul> <li>Greenfield project of 1.5Mt in Guinea</li> </ul>
	<ul> <li>Alcan to own 40% with Alcoa holding another 40%</li> </ul>
	<ul> <li>Basic Agreement with the Government of Guinea now effective</li> </ul>
	<ul> <li>Expect to make a decision on DFS by the end of 2006</li> </ul>
Utkal	<ul> <li>Greenfield project of 1.5 Mt in the province of Orissa, India</li> </ul>
	<ul> <li>Alcan owns 45% with Hindalco holding the other 55%</li> </ul>
	<ul> <li>Investment decision expected by H1-2007</li> </ul>
Ghana	<ul> <li>MoU signed for the analysis of a mine and an alumina refinery project in joint venture with the State</li> </ul>
	<ul> <li>Conceptual and pre-feasibility studies underway</li> </ul>
Cameroon	<ul> <li>Potential development of a large-scale integrated aluminium facility (bauxite mine + alumina refinery + aluminium smelter)</li> </ul>
	<ul> <li>Large high-quality bauxite resources (in excess of 500 Mt)</li> </ul>

### **Summary and Key Priorities**



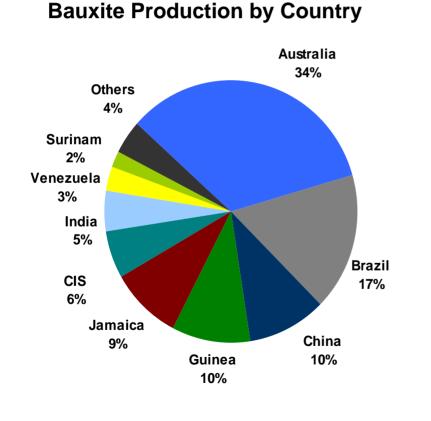
- Leverage AIMS operational excellence
- Complete construction and start-up of Gove
- Complete expansion of Alumar
- Continue action on high-cost facilities
- Leverage our sustainability & technology/engineering know-how to
  - pursue growth opportunities of large-scale assets in lowest cost quartile



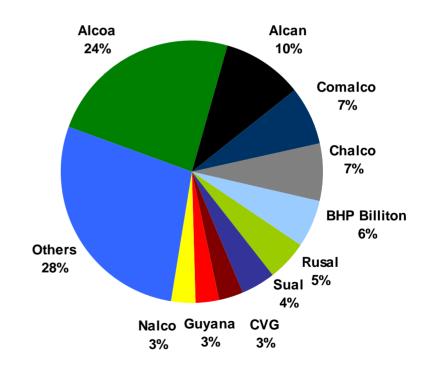
### **Bauxite**



### 10% of world bauxite production



#### Bauxite Production by Company



Source: James King, B&A analysis

### Alumina



### 9% of world alumina production

#### Eastern Africa Europe 1% Australia 3% 27% Other Asia 6% North America 11% Western Europe 10% CIS Brazil 10% 20% China 12%

**Alumina Production by Region** 

#### **Alumina Production by Company**

