NEW SOUTH WALES
MINERAL
INVESTMENT OPPORTUNITIES

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Geological Survey of New South Wales

Australian Mineral Exploration Investment Seminar,
Japan, March 2008
NSW creates 35% of Australia’s GDP

NSW Population
6.7 million people
Value of NSW Mineral Production 2006-07

Total A$12.3 Billion
New South Wales is a major producer of coal, gold, and base metals.
NEW SOUTH WALES

- Excellent infrastructure - rail, ports, power, roads, communications
- Skilled workforce
- 4 World-class mineral provinces
- Large areas under-explored
- Land access
- Government support - New Frontiers
- World-best geoscience
- Sydney - major financial hub
The NSW Government has provided enormous incentives for explorers to invest in NSW through its 7 year $30 million “Exploration NSW” and $8m “New Frontiers” exploration initiatives.

**Exploration NSW** and **New Frontiers** have produced:

- High resolution geophysical coverage - 80% of state
- Advanced geoscience mapping - 3D
- World leading geoscience information systems
NEW SOUTH WALES MINERAL OPPORTUNITIES

WORLD CLASS DEPOSITS
- COAL
- COPPER
- GOLD
- ZINC
- LEAD
- MINERAL SANDS

EXCELLENT POTENTIAL
- ANTIMONY
- TIN
- TUNGSTEN
- MOLYBDENUM
- NICKEL
- RARE EARTHS
NSW Mineral Provinces

Thomson Orogen
A major new mineral province

Delamerian Orogen
- Orogenic Au
- Magmatic Ni
- VMS Cu
- Porphyry Au-Cu

Curnamona Province
- World-class Zn-Pb
- IOCG
- MVT Zn-Pb

Murray Basin
World-class mineral sands province

New England Orogen
- Intrusive-related Sn-W-Mo-Au
- Orogenic Au-Sb

Lachlan Orogen
- World-class porphyry Au-Cu
- Cobar-type Zn-Pb-Cu-Au
- VMS Zn-Pb-Cu
- Lateritic Ni
- Orogenic Au
- Intrusive-related Sn-W-Mo-Au-Cu
Operating Mineral Mines, Coalfields, Coal Mines & Gas Sites
Base metal mines

**COPPER**
- Cadia Valley Operations (Au, Cu)
- Northparkes (Cu, Au)
- CSA, The Peak (Cu, Au)
- Tritton (Cu)

**ZINC, LEAD**
- Broken Hill (Zn, Pb, Ag)
- Endeavor (Zn, Pb, Ag)

**ANTIMONY**
- Hillgrove (Au, Sb)

**MINERAL SANDS**
- Ginkgo (rutile, zircon, ilmenite)
COPPER
- Copper Hill - (Golden Cross Resources)
- Southwestern porphyries - Monza (Cu, Au) - (Goldminco)
- Girilambone - (Straits Resources)
- Tottenham - (Mincor)
- Galwadgere - (Alkane Resources)
- Grasmere - (Black Range)

ZINC, LEAD, SILVER
- Broken Hill - Potosi & Flying Doctor (Perilya), Rasp (CBH Resources), Pinnacles (Pinnacles Mines)
- Cobar - Hera & Mineral Hill (CBH Resources), Gundaroo (Cobar Consolidated)
- Eastern VMS - Woodlawn & Lewis Pond (Tri-Origin), Kempfield (Golden Cross)
Before Mining Resource ~ 300Mt @ 20% combined Pb+Zn and 80ppm Ag

Approx. in ground value A$75b

Broken Hill
The big one
Broken Hill
- long history of reserve replenishment

Operating

<table>
<thead>
<tr>
<th>Southern Operations &amp; North Mine</th>
<th>Developing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reserve</strong> (as at 30 Jun 2006)</td>
<td><strong>Potosi Exploration Decline</strong></td>
</tr>
<tr>
<td>11.6mt @ 7.3% Zn</td>
<td>1.6mt @ 13.0% Zn, 3.1% Pb, 43g/t Ag</td>
</tr>
<tr>
<td>4.8% Pb</td>
<td><strong>Project status</strong></td>
</tr>
<tr>
<td>47.7g/t Ag</td>
<td>Exploration decline 448m from portal</td>
</tr>
<tr>
<td><strong>Production rate</strong></td>
<td><strong>Flying Doctor Open Pit</strong></td>
</tr>
<tr>
<td>1.9Mtpa</td>
<td><strong>Resource</strong> (as at 30 Jun 2007)</td>
</tr>
<tr>
<td></td>
<td>0.52mt @ 5.4% Zn, 7.1% Pb, 72 g/t Ag</td>
</tr>
<tr>
<td><strong>Mine life</strong></td>
<td><strong>Project status</strong></td>
</tr>
<tr>
<td>5 years</td>
<td>Feasibility study due Dec Qtr</td>
</tr>
<tr>
<td><strong>Ave annual metal production</strong></td>
<td><strong>North Mine Deeps Redevelopment</strong></td>
</tr>
<tr>
<td>120 kt Zn</td>
<td><strong>Resource</strong> (as at 30 Jun 2006)</td>
</tr>
<tr>
<td>70 kt Pb</td>
<td>4.2mt @ 11.2% Zn, 13.7% Pb, 214g/t Ag</td>
</tr>
<tr>
<td>2 Moz Ag</td>
<td><strong>Project status</strong></td>
</tr>
<tr>
<td></td>
<td>Pre-feasibility study due Sept Qtr</td>
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</tbody>
</table>
OTHER MINERALS

TIN, TUNGSTEN, MOLYBDENUM, BISMUTH
- Taronga (New England Tin), Glen Eden, Kingsgate (Auzex), White Rock (Paradigm), Doradilla (YTC Resources), Conrad (Malachite Resources)

RARE EARTH ELEMENTS
- Dubbo zirconia (Alkane Resources)

MINERAL SANDS
- Multiple Murray Basin deposits, eg Snapper (BeMax), West Balranald (Iluka Resources)

NICKEL
- Syerston (Ivanplats), Nyngan & Young (Jervois Mining)
Sn Deposits in NSW

THOMSON OROGEN (?)
Triassic

Doradilla
Tallebung
Kikoira
Ardlethan

WAGGA TIN BELT (Siluro-Devonian)

Ruby Creek
Mole

NEW ENGLAND OROGEN
(Carb, Permo-Triassic)

Gundle

- Alluvial
- Vein & Stockwork
- Skarn
- Breccia
- Disseminations
- Greisen
NSW Base Metal Exploration Opportunities

Thomson Orogen
Cu, Pb, Zn, Ni, Sn, Ni

Delamerian Orogen
Au, Cu, Pb, Zn, Ni

Curnamona Province
Pb, Zn, Ag, Ni, Co

New England Orogen
Sn, Mo, W, Bi, Au, Sb

Lachlan Orogen
Au, Cu, Zn, Pb, Ni Ag, REE

Murray Basin
Mineral Sands

Sydney
Rare metals

- Many metals have been recorded from mineral deposits in NSW
- There has been little systematic modern exploration for:
  - Mercury, rhenium, indium, cobalt, scandium, platinum group, tantalum, tellurium, lithium, beryllium, yttrium, niobium
Potential Indium-rich Sn-W-polymetallic Systems in New South Wales

1. Ruby Creek
2. Mole
3. Webbs
4. Conrad Howells/Tingha
5. Doradilla
6. Gumble
7. Wandandian
Numerous active exploration companies - many seeking partners

Metal exploration opportunities extend across the State
Find it in
New South Wales

Thank You