Panel Session: The Other Resources Boom and Australia's Technology Edge

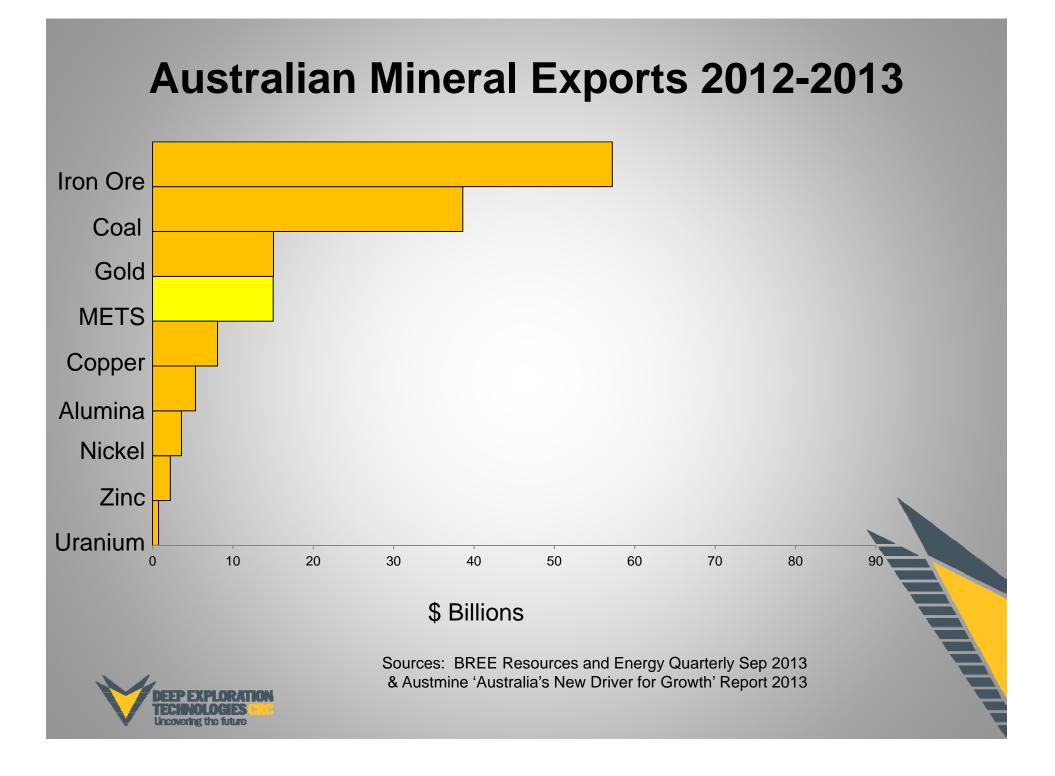




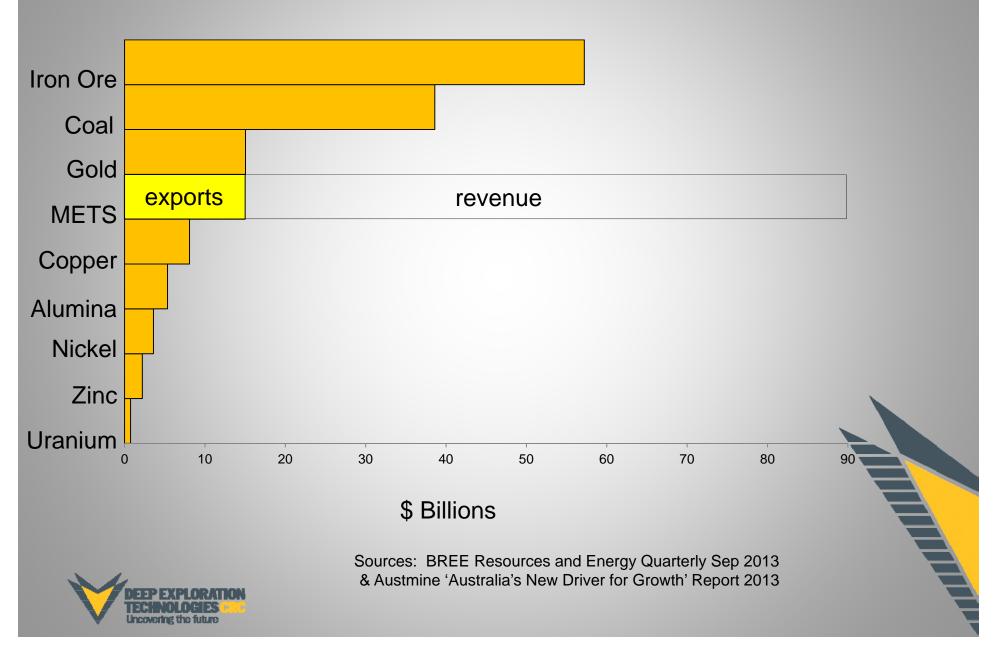
Richard Hillis, CEO, DET CRC CRCA Conference, Perth Wednesday 21 May







Australian Mineral Exports 2012-2013









GOLD FIELDS





Department for Manufacturing, Innovation, Trade, Resources and Energy









An Australian Government Initiative







Curtin University







THE UNIVERSITY OF WESTERN AUSTRALIA













Vinerals















Corporaal L

5 DOWNHOLE SURVEYS

DRILLCO TOOLS

CONSTRU

Absolute Precision





GEOMOLE

BAL

DOWNUNDER MINING & EXPLORATION

HARD

DIAMOND PRODUCTS

GL





















Department of Mines and Petroleum



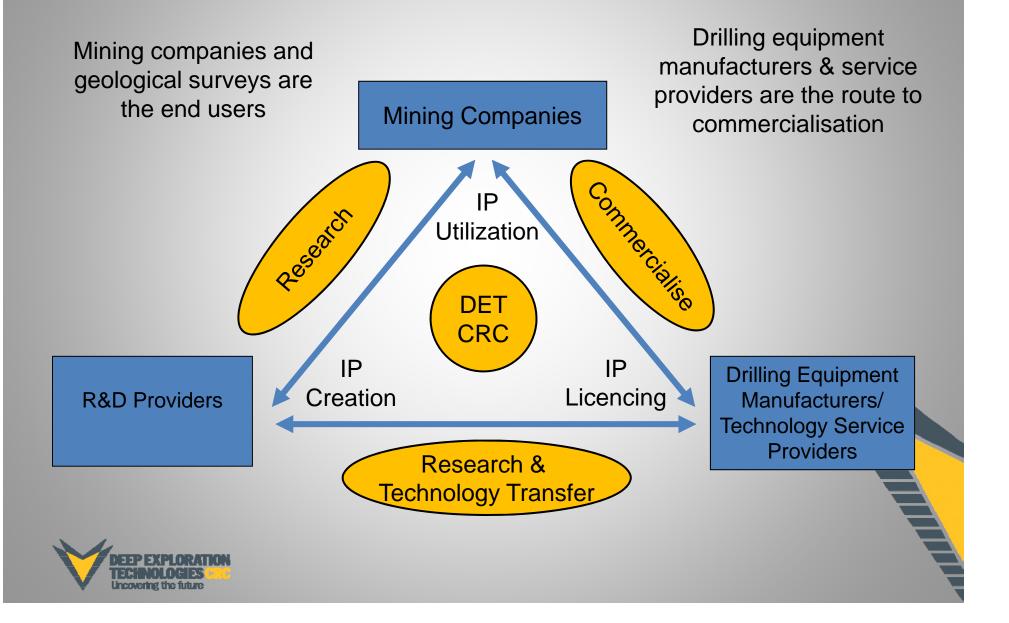
Australian Government

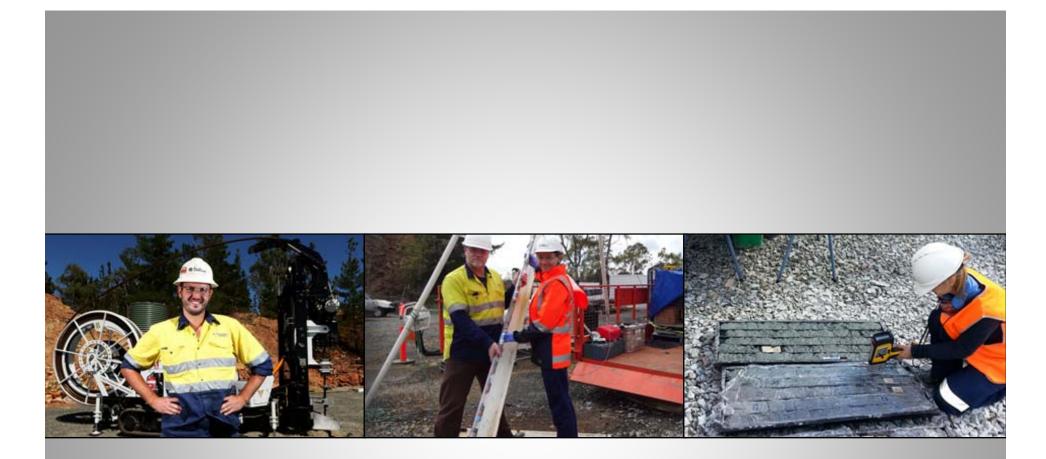
Geoscience Australia





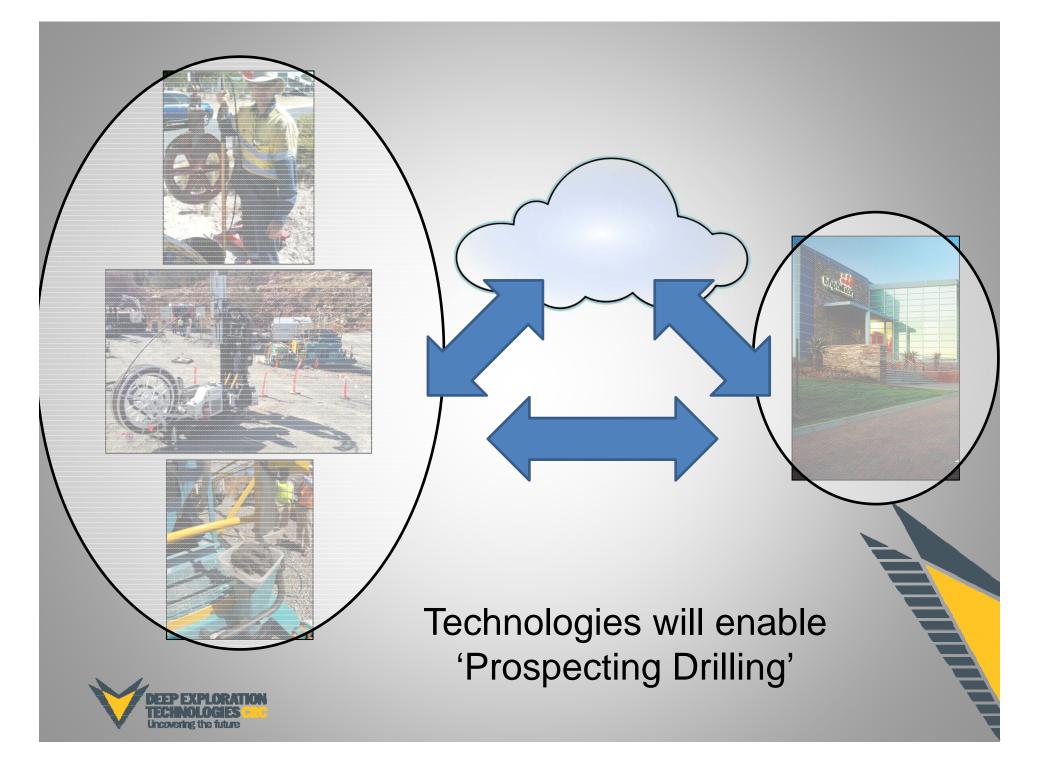
IP and Role of Service Providers

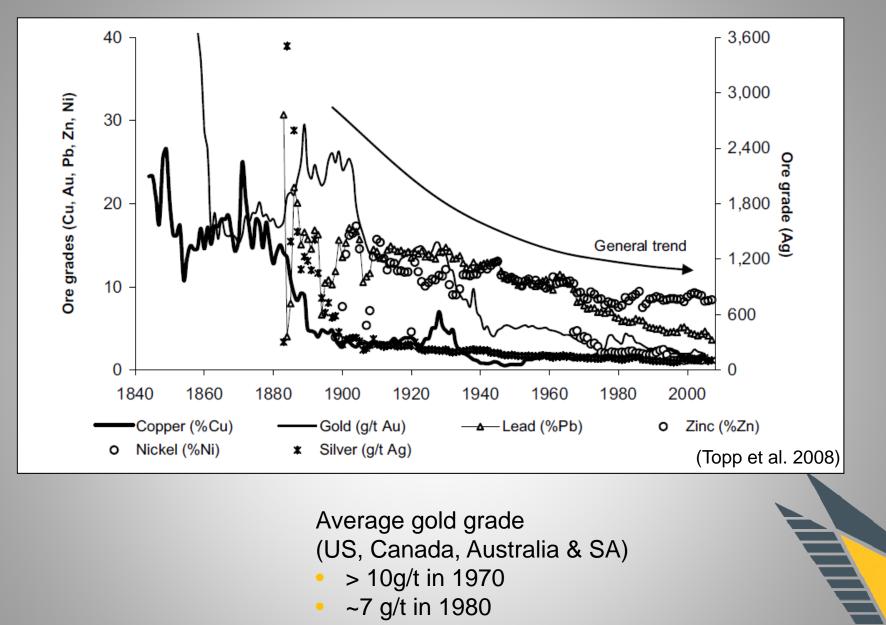






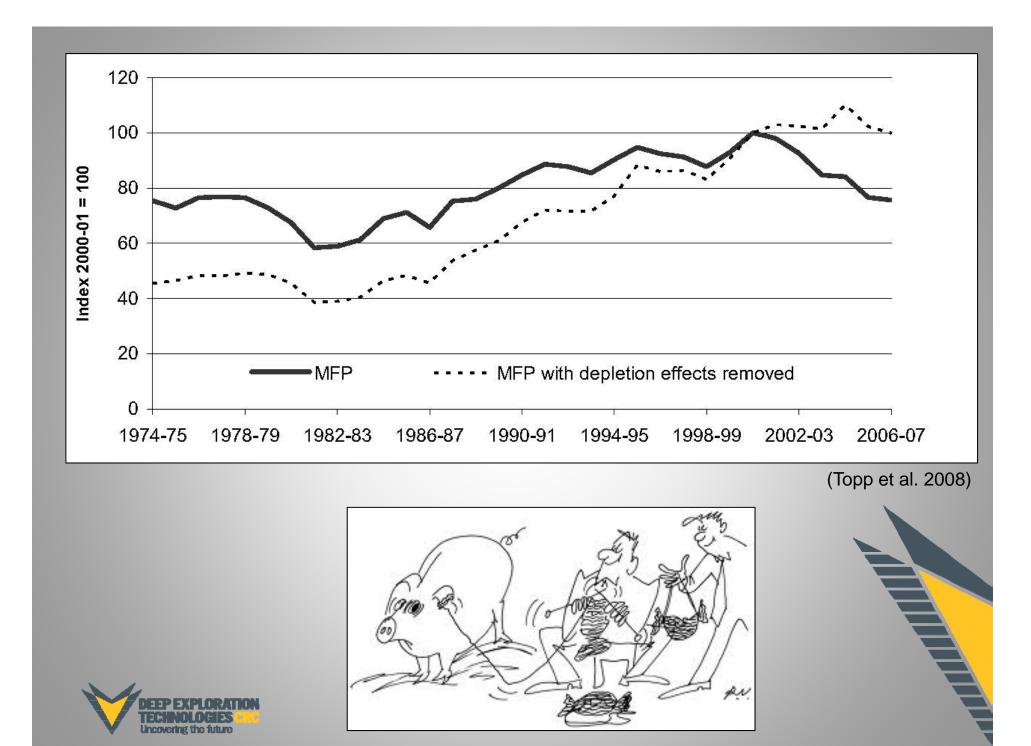






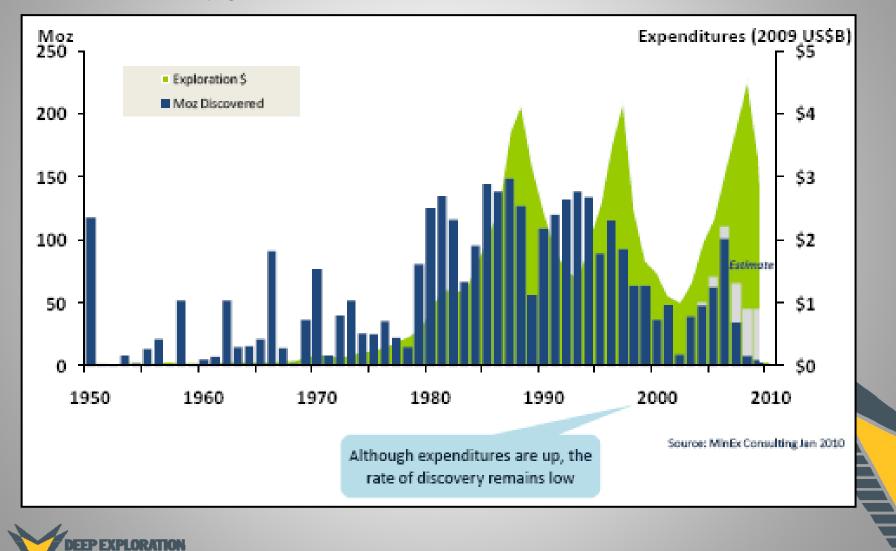
- < 3 g/t in 2000
- ~1 g/t currently





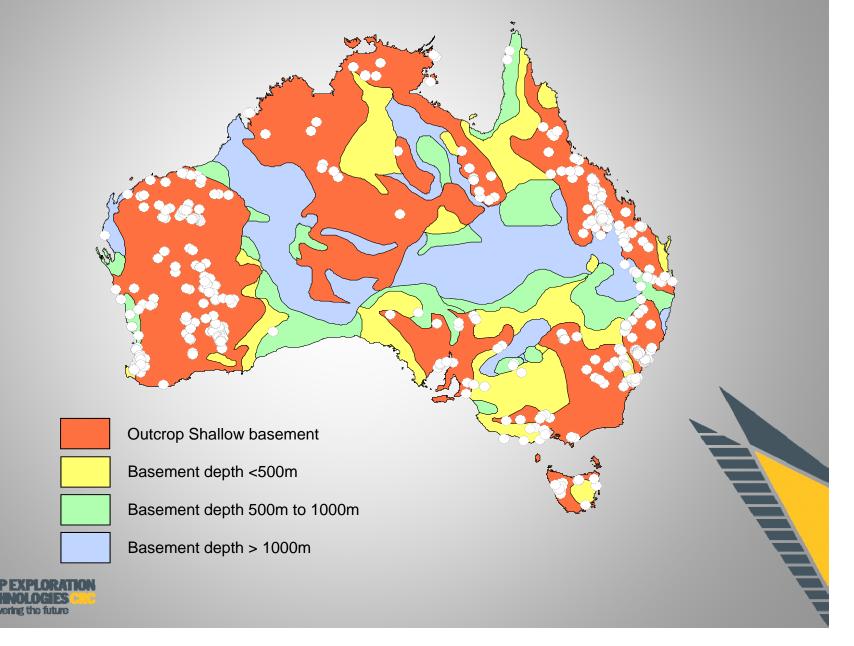
Gold Exploration

Primary gold deposits found in western world: 1950-2009

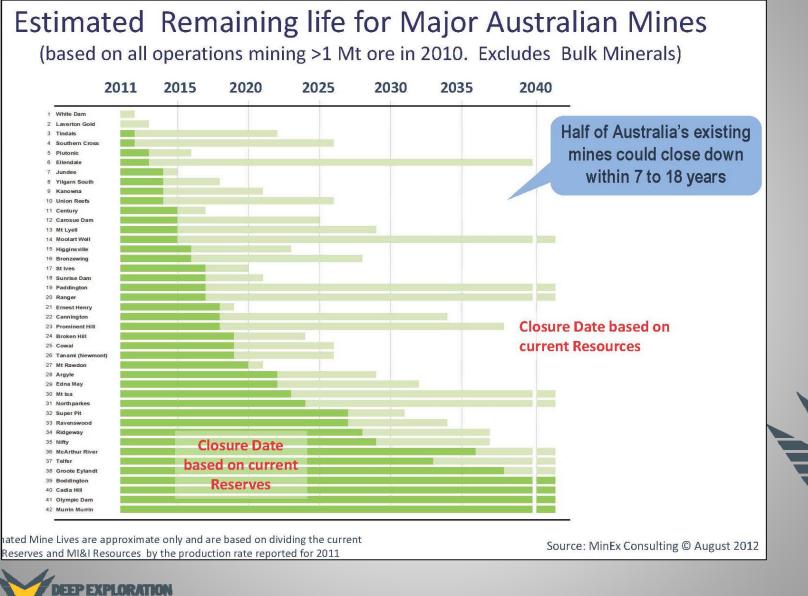


Uncovering the future

Mines in Outcropping or Shallow Basement



Australia's Long-Term Mining Future at Risk



Uncovering the future



Example Drilling Program

- remote 5,000m Australian greenfield mineral exploration drilling program in covered environment to 250m depth
- test cover sequences and target basement

| | Metres Drilled | Metre Rate Cost | Addtnl. Costs | Total Drill Program Cost | Time (Days) |
|---------------|-------------------|-----------------------|------------------|--------------------------------|----------------|
| Diamond | 5,000 | \$2M | \$1.25M | \$3.25M | 100 |
| RC | 5,000 | \$0.75M | \$1M | \$1.75M | 25 |
| Coiled Tubing | 5,000 | \$0.25M | \$0.25M | \$0.5M | 20 |

DD \$650/m total program costs*: RC \$350/total program costs* CT \$50/m metre rate, \$100/m total program costs* DD 50m/day; RC 200m/day; CT 250m/day *total program costs include: metre rate, failed holes, mob/demob, drill pads, rehab, surveying, supervision/field salaries and analytical costs (assay, mineralogy & petrophysics)





