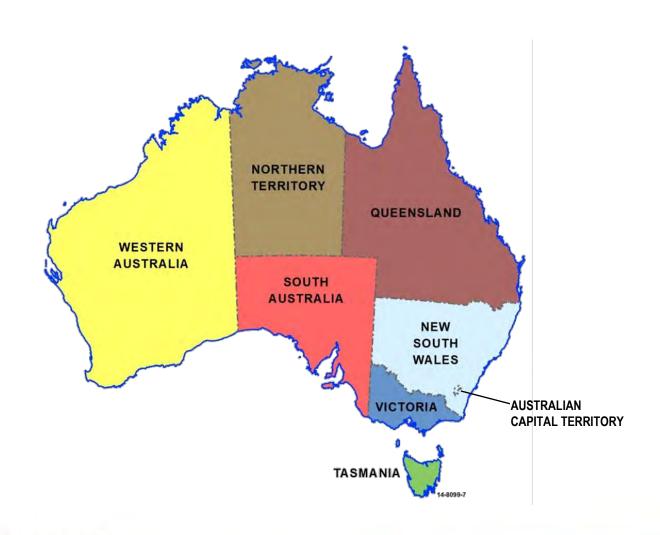


# Australia – a land of opportunities

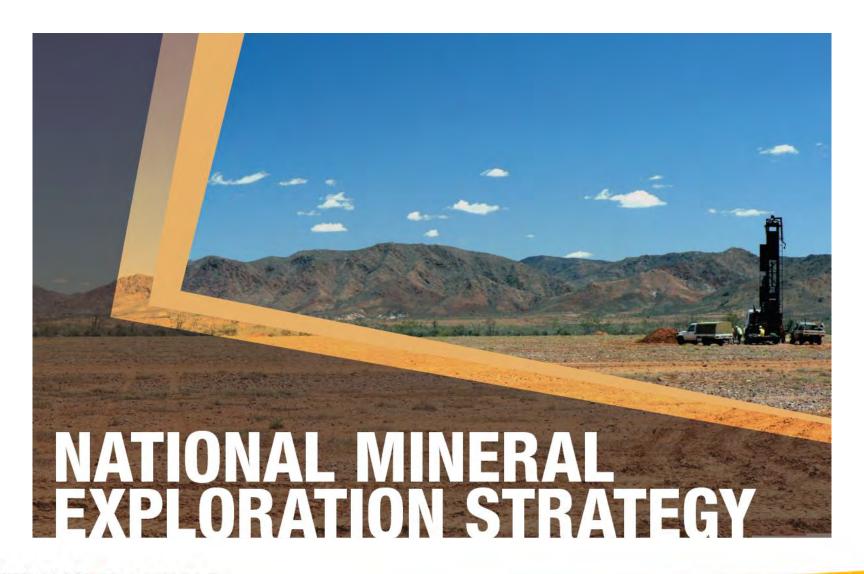
Dr James Johnson
Deputy CEO, Chief Resources Division
Geoscience Australia



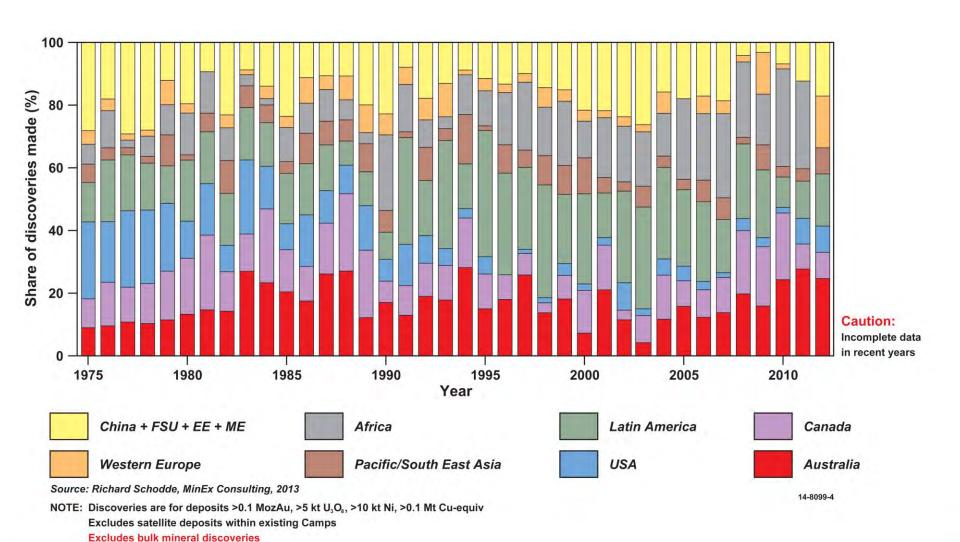
### **Federation Australia**



### **Federation Australia**



# Minerals potential





## A wealth of resources

			ources	2-2-7-12-1	45.000	of Visionia	100	12000						104.713	ration		
		**	Actinium Ac	Thorium Th	Protactinium Pa	Uranium											14-80
		*	Lanthanum La	Cerium Ce	Praseodymium	Neodymium Nd	Promethium Pm	Samarium Sm	Europium Eu	Gadolinium Gd	Terbium Tb	Dysprosium Dy	Holmium Ho	Erbium Er	Thulium Tm	Ytterbium Yb	Lutetiun Lu
Francium	Radium Ra	**															
Caesium	Barium Ba	*	Hafnium <b>Hf</b>	Tantalum Ta	Tungsten	Rhenium	Osmium	Iridium 	Platinum Pt	Gold Au	Mercury Hg	Thallium TI	Pb	Bismuth Bi	Polonium	Astatine At	Radon
Rubidium	Strontium	Yttrium	Zirconium Zr	Niobium Nb	Molybdenum M O	Technetium TC	Ruthenium	Rhodium	Palladium Pd	Silver Ag	Cadmium	Indium [n	Sn	Antimony Sb	Tellurium Te	lodine 	Xenon
Potassium	Calcium	Scandium	Titanium Ti	Vanadium V	Chromium	Manganese Mn	Fe Fe	Cobalt	Nickel Ni	Cu	Zinc Zn	Gallium	Germanium Ge	Arsenic As	Selenium Se	Bromine Br	Kryptor
Sodium Na	Magnesium Mg											Aluminium	Silicon	Phosphorus	Sulfur	Chlorine	Argon Ar
Lithium	Beryllium Be											Boron	Carbon	Nitrogen N	Oxygen	Fluorine	Neon Ne
Н																	He

**AUSTRALIA** MINERALS

# World ranked supplier

Commodity	World ranking					
	Resources	Production				
Iron ore	1	1				
Gold	1	2				
Uranium	1	3				
Copper	2	5				
Zinc	1	2				
Nickel	1	4				
Coal (black)	5	4				

Source: Geoscience Australia, USGS

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# Record of exploration success

#### 2003-2012

Region	spe	eration end 2 \$b)	Ma discov		Estin va (201	Value/ spend	
	Value	Share	Number	Share	Value	Share	
Australia	\$12	10%	14	17%	\$13	14%	1.12
Canada	\$21	18%	15	18%	\$15	16%	0.71
USA	\$9	8%	6	7%	\$5	6%	0.60
Latin America	\$27	23%	15	18%	\$23	24%	0.84
Pacific/South East Asia	\$6	5%	2	2%	\$4	4%	0.63
Africa	\$16	14%	20	24%	\$22	24%	1.38
Western Europe	\$3	3%	1	1%	\$1	2%	0.48
Rest of World	\$22	19%	11	13%	\$10	11%	0.46
Total	\$116	100%	86	100%	\$94	100%	0.81

#### NOTE:

Analysis excludes bulk materials, and excludes satellite deposits found within existing camps.

Discoveries refer to Moderate-, Major- and Giant- sized deposits.

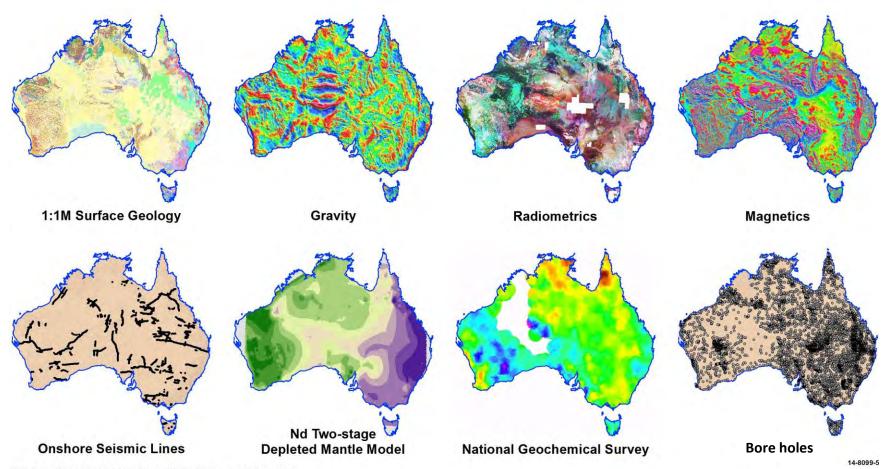
The Estimated Value is approximate only and ignores the value of unreported discoveries

Source: Richard Schodde, MinEx Consulting, 2013





### **Unrivalled information**

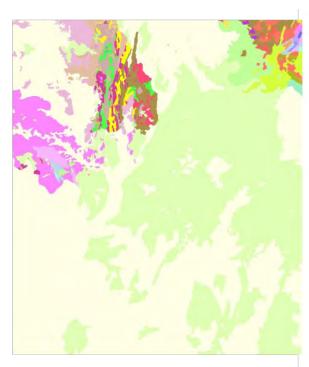


Data from Geoscience Australia and State/NT geological surveys

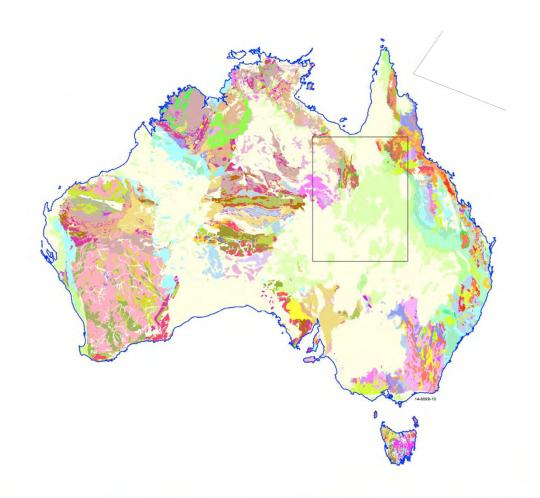


# **World-class expertise**

### Seeing through cover

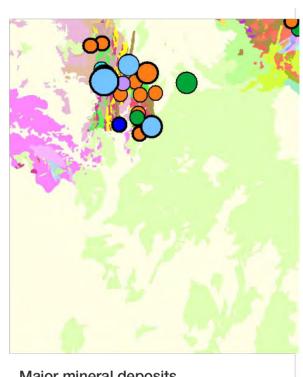


Surface geology 1:2.5 million

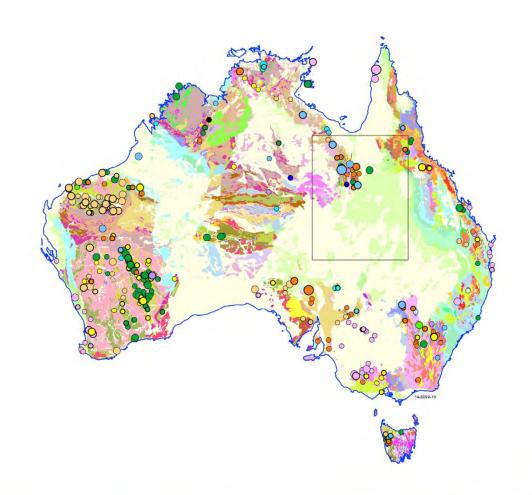


# **World-class expertise**

### Seeing through cover

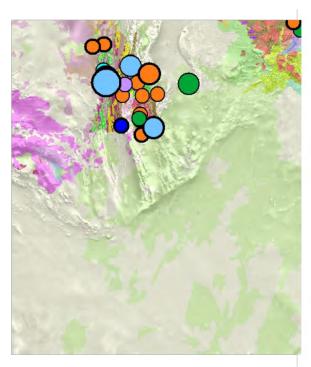


Major mineral deposits

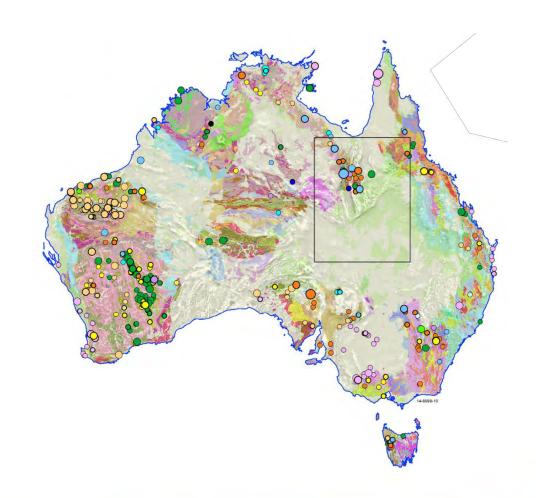


# World-class expertise

### Seeing through cover

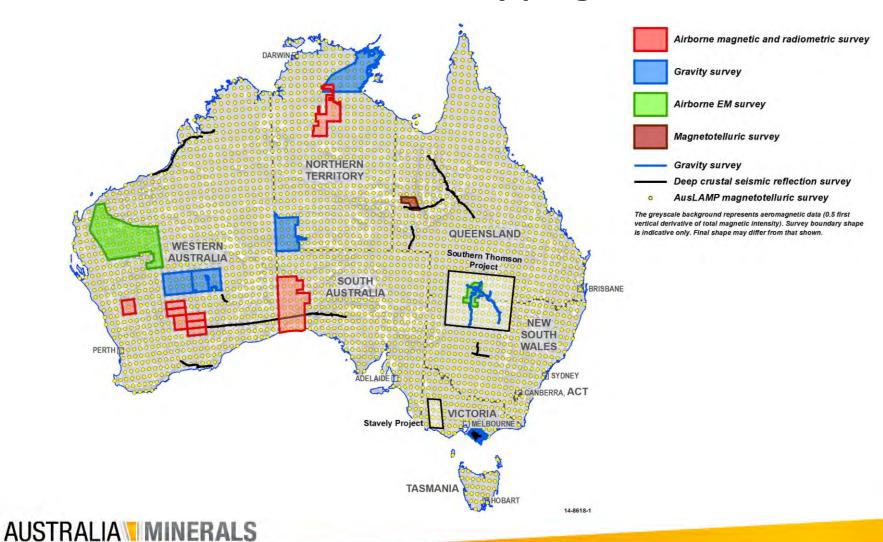


Aeromagnetics (0.5 vert. deriv.)





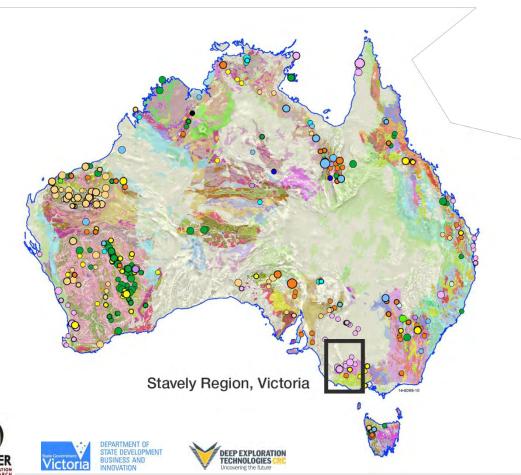
#### **Current survey program**



**UNCOVER – Stavely Project** 

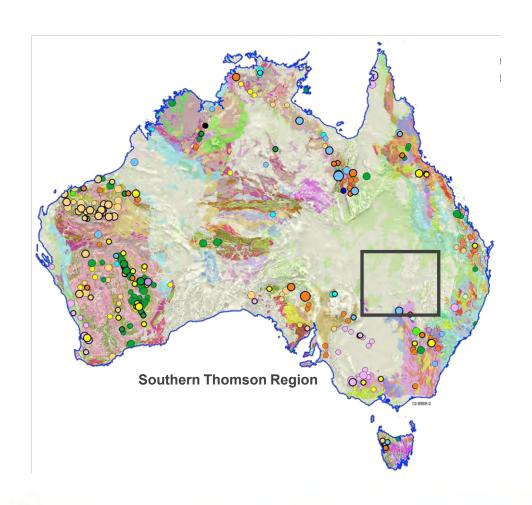




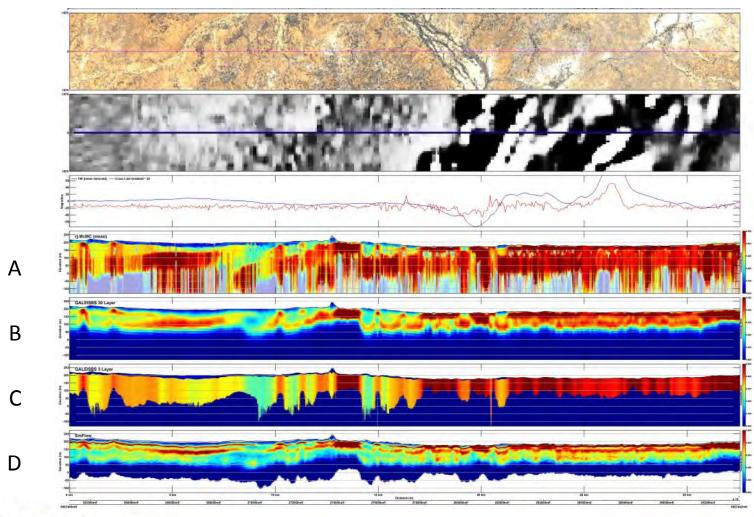




#### **UNCOVER – Supercomputing**



**UNCOVER – Supercomputing** 



### Confidence to invest in Australia



**Mineral** potential

**Exploration** success

**Unrivalled** pre-competitive information

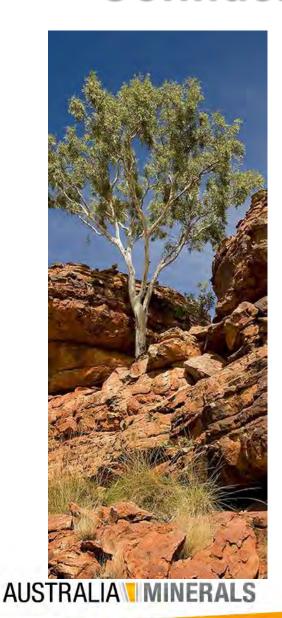
> World-class expertise

**Innovation** 



**AUSTRALIA** MINERALS

### Confidence to invest in Australia



**Supportive** governments

Streamlined processes

**Legal protection** 

Skilled workforce

Established services sector



# Australia – Realise the opportunity

For free national and regional geoscientific datasets visit:

www.geoscience.gov.au/











