Cairns and Mining Conference "CAN MINING HELP THE BUSINESSES OF CAIRNS & REGION PROSPER?" 7 October 2011

Exploration and Mining Now, and in the Future

FNQ = Cairns to Kidston to the Gulf and Cape York

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An Outline of Activity at February & July 2011 Revised to 7 October2011

Aims of this presentation

- An overview of exploration and mining activities in FNQ only Only companies (private and public) and individuals with mining tenements in FNQ are included
- None of this is a promotion of any of the Companies mentioned.
- There is no pretence that this includes all some may have been accidently missed
- Originally prepared for February 2011, with updates for July and October 2011 Conferences
- It is aimed that none of the concurrent presentations are duplicated, or is there repetition of the well known operations

Targets and Companies

Targets

- Tin
- Gold
- Base metals
- Tungsten
- Bauxite
- Kaolin
- Marble
- Rare earths

- Diatomite
- Silica sand & for solar
- Beach Sands
- Tantalum
- Perlite
- Construction materials

- Coal
- Coal seam gas
- Uranium
- Geothermal Energy
- Petroleum
- Iron ore

Included are local companies, national companies & international companies.

Majors are essentially not represented – mainly because of their lack of exploration interests

37 Public Companies in FNQ

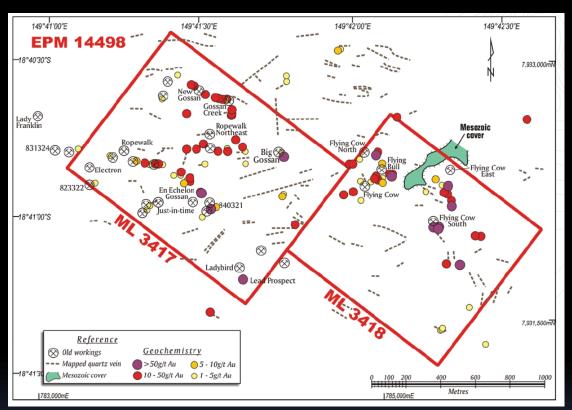
Company	FNQ Location	Commodity	Activity	
Altius	Forsayth	Au	Exploring, developing	
Auzex Resources	Khartoum	W, Au	quiescent FNQ, drilling in WA	
Axiom	Cardross, OK, Mt Molloy	Cu, Au	Exploring	
BHP Billiton			In JV	
Callabonna Uranium	Georgetown District	Uranium		
Centaurus Metals	Georgetown		dominantly Fe in Brazil	
China West International Holdings	Featherbeds	U	Quiescent	
Comalco - Rio	Weipa	Bauxite	Mining	
Consolidated Tin Mines	Mt Garnet,	Sn	Exploring	
Copper Strike	Einasliegh	Cu, Au	Exploring	
Diatreme Resources	Cape Bedford/Cape Flattery	Beach sands	Quiescent	
Deutsche Rohstoff AG	Georgetown, Wolfram Camp	Au, W	Mining, developing	
Genesis Resources	Laura	Au, PGMs	Quiescent	
Gulf Alumina	Cape York	Bauxite	Exploring	
Gulf Gold	Cape York	Au,	acquiring tenements	
Gulf Mines	Ebagoola	Au,	restructuring, exploring WA	
Hot Rock	Walsh R	Geothermal	exploring 2011	
Icon Resources	Mt Carbine	W	developing	
Kagara	Mt Garnet, Surveyor, Mungana	Au+base metals	Actively exploring, mining	
Kangaroo Resources	Herberton, Ewan, Mt Carbine	Sn, Fe,	concentrating on coal in Indonesia	

37 Public Companies in FNQ

Company	FNQ Location	Commodity	Activity	
Lodestone Energy	Limestone Creek	Cu	Exploring	
Mega Uranium	Maureen, Ben Lomond	Uranium	Exploring	
MGT Resources	Mt Garnet	Sn	Exploring	
Monax Mining	Pretender Ck, 165 SE Arukun	Bauxite	Quiescent	
Monto Minerals	Herberton	Sn	JVd tin from NQM, JVd Cu to Kagara	
North Queensland Metals	Pajingo, Herberton	Au, Sn, Cu	JV'dFNQ to Monto, mining Pajingo	
Orion Metals	Fulford Creek	W, Ta	quiescent	
Pepininni Minerals	Percyville, Forsayth, Gerorgetown	U, Au, base metals, P	drilling	
Planet Metals	Wolfram Camp	W, Bi, Mo	Sold out	
Platina Resources	Coen	Au, U, PGMs	Quiescent	
Plentex Mining	Georgetown	Au,	concentrating on non mining activities	
Queensland Epithermals	Georgetown, Sybil Graben	Au	exploring	
Red Metal	Mandalee	Base metals	exploring in rest of Aus	
Regalpoint Resources	Georgetown	U	exploring	
Renison Consolidated Mines	Agate Creek	Au	Drilling, resources	
Republic Gold	Hodgkinson basin	Au, Sb	tenements on the market/sold	
Volcan Australia Corporation	South Johnstone , Mt Garnet	Bauxite	exploring	

An Arbitrary Selection of Companies and their Activities

Gold: Altius Mining @ Forsayth



- A recent IPO
- Prospects include:

 Ropewalk, Flying Cow,
 North Arm,

 Queenslander, Nil
 Desperandum, Big
 Gossan
- Historically grades mined were in excess of 1 oz Au/t
- Orebodies are narrow vein

Silica Sands: Cape Flattery

- The Company describes itself as the Worlds biggest silica sand manufacturer. It reports an average grade of 99.9% SiO2
- It employs over 90 people, and ships direct from its own loading facility, offices in Cairns
- http://www.cfsm.com.au/contact.htm

Hard Rock: Koolgara

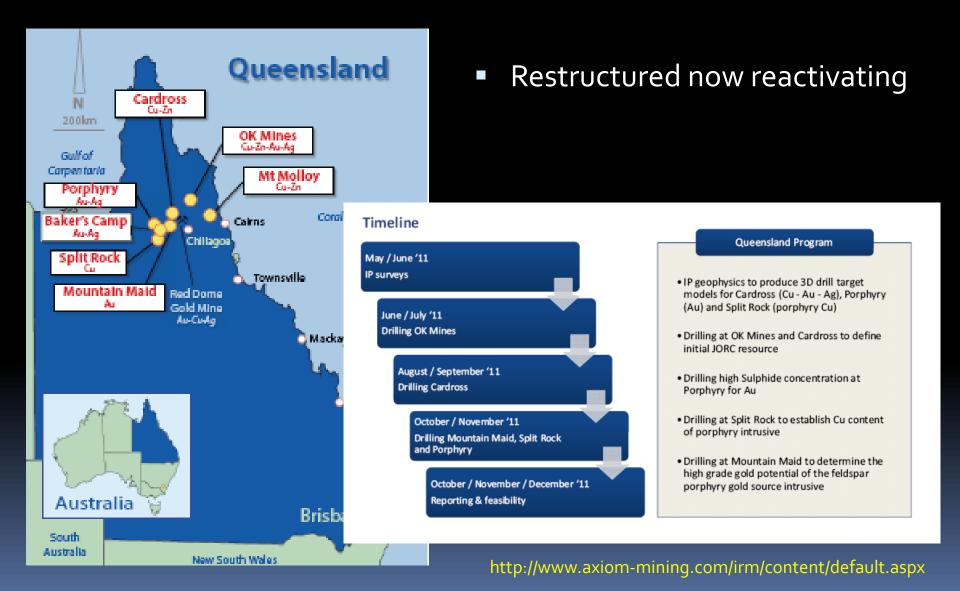
- Lighthouse ML at Einasleigh
- Planning to ship high grade silica ore to China for solar cells

Uranium Companies

- No mining leases will be granted for uranium in Old under current rules .
- A number of Companies exploring for uranium including:
 - Callabonna
 - AFMECO
 - China West
 - Mega Uranium
 - Pepinnini
 - Regalpoint

- Known resources include:
 - Maureen (Georgetown)
 - Ben Lomond (Townsville)
 - Westmoreland (Qld-NT border)

Gold & Base Metals: Axiom Mining

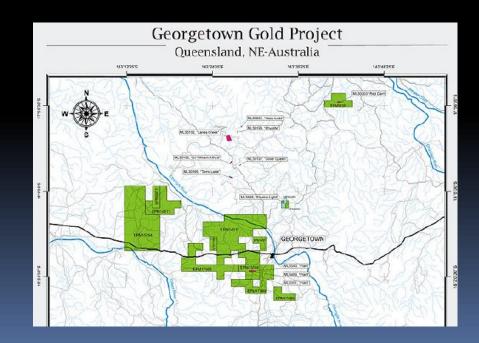


Gold + Tungsten: Deutsch Rohstoff

A Frankfurt listed company with offices in Brisbane

- DR have commenced mining Electric Light & Red Dam prospects at Georgetown
- Production of 8,000t/m anticipated.
- March was the first full months production with 8,000t at 8.04gm/t Au at 88.8% recovery

- Purchased Wolfram Camp off Planet Metals
- PM owned 85% of Wolfram Camp



Geothermal Companies

Hot Rock Ltd (1 x EPG - Walsh)

http://www.hotrockltd.com/irm/Content/home.html

Exploration due 2011

Kuth Exploration $(1 \times EPG - Weipa)$

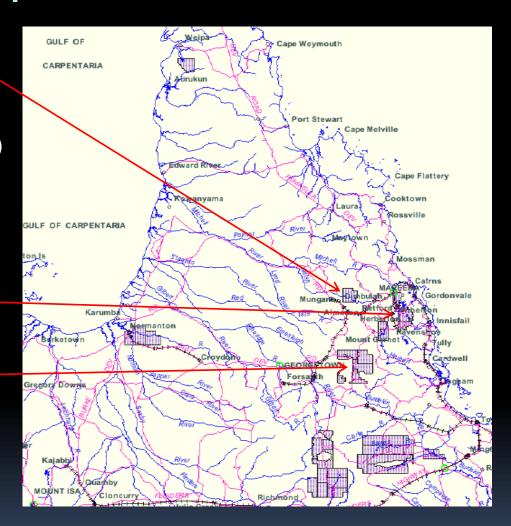
http://www.kuthenergy.com

Terra Estus Resources (3 x EPG Normanton)

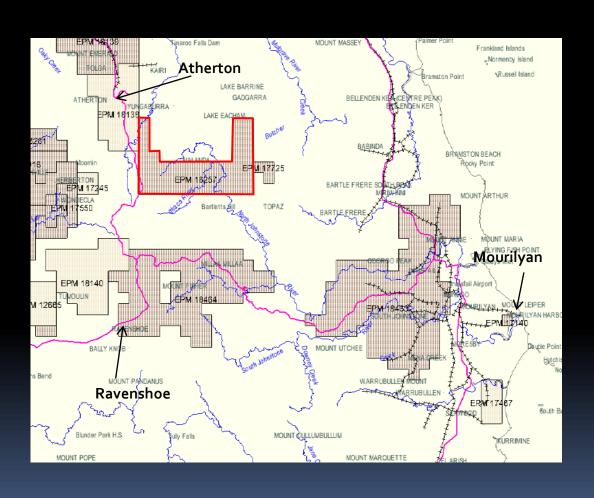
Geogen Victoria (3 x Atherton-Ravenshoe)

http://www.agk.com.au

Geogen Victoria (5 x Mt Surprise)

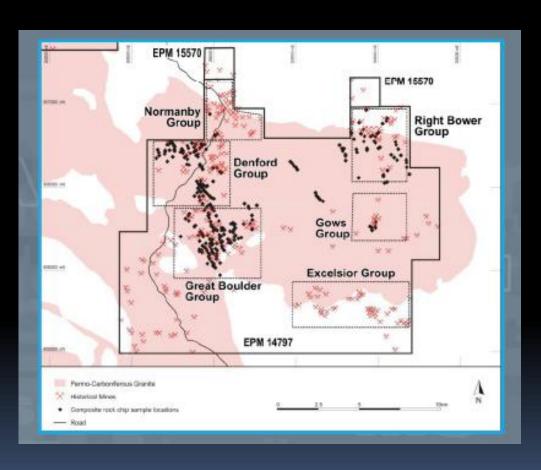


Diamonds: Jacaranda Minerals



- Target diamonds associated with Tertiary basalts
- In JV with Hancock Prospecting

Tin + Tungsten + Bismuth + Gold + Silver - Auzex Resources



- Herberton MtGarnet area
- World Class size
- 80-100mt at 0.2% -0.3% Sn
- Potentially \$4b in the ground?
- With W+Ag+Au+Bi

Tin + Base Metals + Gold: Monto Minerals

Arboult

Procentile

By Gusson

Stantal

Ontomide

Stantal

Adventure story Agnes

Cat. Southern Frend

Minerals

Airmags over EPMs, 14 "compelling targets"

- Herberton historic Tinfield underexplored
- Over 2,400 old mines
- Production of over 109,000t of tin concentrates
- 4 EPMs, 11 ML's, 9 MLA's
- Targets include
 - Arbouin drilled: 26.4m@2.78%Sn (unmined)
 - Sailor, Elaine-Boundary



Monto - Kagara - Baal Gammon

	Tonnes	Cu	Sn	Ag	In			
Category	(000t)	(%)	(%)	(g/t)	(g/t)			
Ore	2,676,282	1.07	0.23	38.1	33.5			
Low Grade Ore	430,725	0.26	0.13	9.6	5.3			
Total Ore Reserve	3,107,007	0.96	0.22	34.2	29.6			
Table: Summary of Probable Ore Reserves								

Based on the resource model generated by AMC and the Whittle modeling completed by Snowden, NQM generated the following Probable Ore Reserves in 2007:

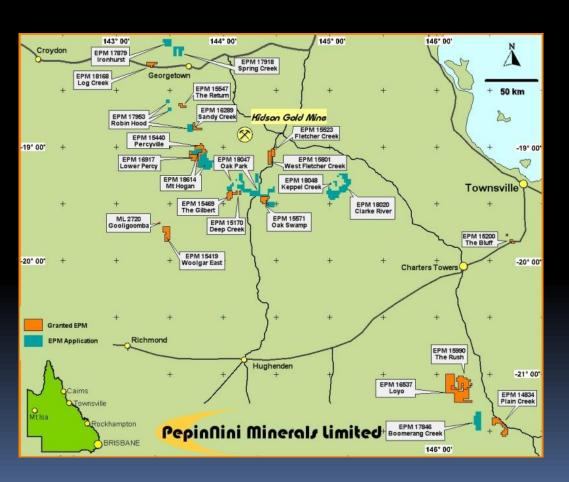
Table: Total Indicated +Inferred Resource:

Ore Type	Category	Tonnes (000t)	Cu %)	Sn (%)	Ag (g/t)	In (g/t)	CuEQ (%)*	Cu Metal (000t)+
Total Oxide + Sulphide	Ind + Inf	5,482	0.8	0.2	29	29	1.8	41.6

- Cu Sn Ag In
- Production to commence October 2011
- Sediment roof pendant intruded by UNA porphyry sill
- Cu is chalcopyrite + stannite
- 70% of Sn is cassiterite, rest is stannite
- It is anticipated that mine development will commence immediately with ore production scheduled for October
 2011

http://www.kagara.com.au/

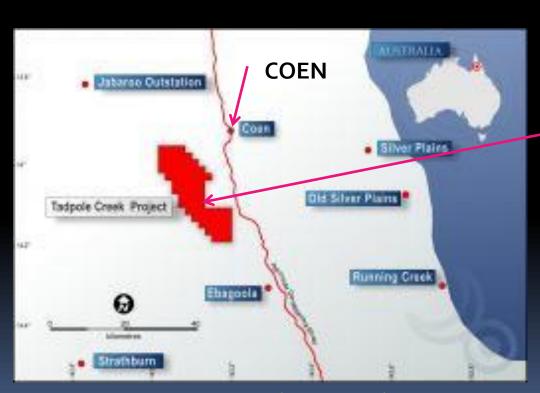
Gold + uranium + strontium: Pepinnini Minerals



- Targets U, Au, Sr, base metals
- Originally a Percyville Ind+Inf Resources Report: 12.8mt at
 2.5 g/t Au No longer current
- Latest activity: heli mag + drilling late 2010,
- 25 holes for 3,256m, for 1-2m intersections of high grade – Forsayth & Percyville

http://www.pepinnini.com.au/

Gold + uranium + PGMs: Platina Resources



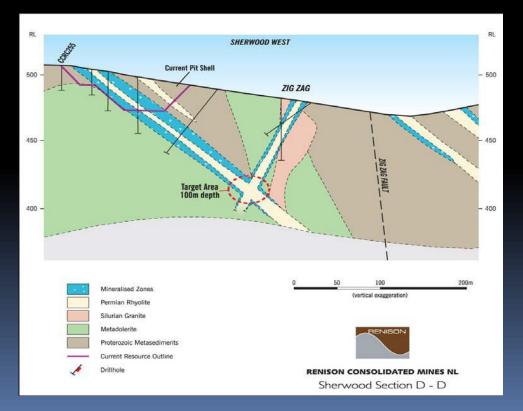
http://www.platinaresources.com.au/

- Mainly in WA and Greenland
- Gold and uranium exploration in Old
- Tadpole Creek area – west of Coen
- Planning soil programs in 2011

Gold: Renison Consolidated

The current resource estimates are set out in the tables below at a 0.3 g/t gold cut-off grade.

0.3 G/T CUT-OFF	TOTAL		SHERWOOD		SHERWOOD SOUTH			SHERWOOD WEST				
Resource	Mt	Gold	Gold	Mt	Gold	Gold	Mt	Gold	Gold	Mit	Gold	Gold
Classification		g/t	'000 oz		g/t	'000oz		g/t	'000oz		g/t	'0000z
Indicated	10.65	0.98	336	5.42	1.04	181	0		0	5.23	0.92	155
Inferred	6.36	0.88	180	2.61	0.91	76	0.43	1.05	15	3.32	0.83	89
Total	17.01	0.94	514	8.03	1.00	258	0.43	1.05	15	8.55	0.89	245



- Agate Creek area south of Forsayth
- Epithermal, qtz+Au, in narrow structures
- Prot meta seds, dolerite, Permian granites, rhyolites, agglomerates in subsidence cauldron
- Now 480 holes, latest in 2010
- Additional targets deeper and adjacent anomalies
- Barrick diluting out

Sectional View of Sherwood West Zig-Zag Intersection Target Area

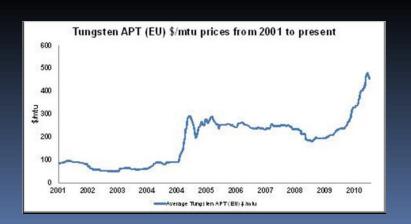
http://www.rcm.com.au

Mar Qtr 11

Tungsten: Vital Metals, Watershed

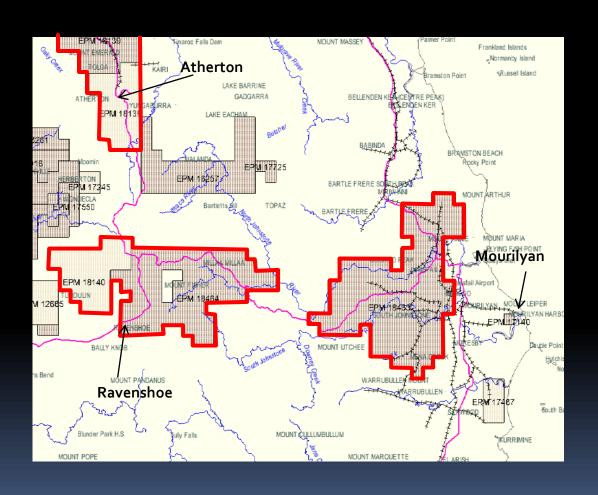
Advanced Tungsten Project, funded to BFS:

- World class, JORC compliant Resource 15.1mt @ 0.46% WO3 (0.1% WO3 cut-off undiluted)
- Extensive landholding, and mineralised structure largely unexplored exploration and resource growth potential
- Feasibility Studies largely complete, outlining a 610,000 tpa operation with a cash margin of ~\$57 per ton at conservative price assumptions
- \$5.4 million Earn In Agreement reached with credible partner, Japan Oil, Gas and Metals National Corporation (JOGMEC)
 - JOGMEC first instalment of \$800,000 by end September 2011
 - JOGMEC to complete a BFS to earn a 30% interest in the Project
- Work on BFS has started
 - Project manager appointed
 - Final metallurgical test-work commencing
 - Environmental approvals well advanced
 - Discussions underway with EPCM contractors





Volcan Queensland Bauxite PL-



- Target bauxite associated with Tertiary basalts
- Prelim estimates by CEC (1961) suggest >43mt at >35% Al2O3 (CR648)

Also:

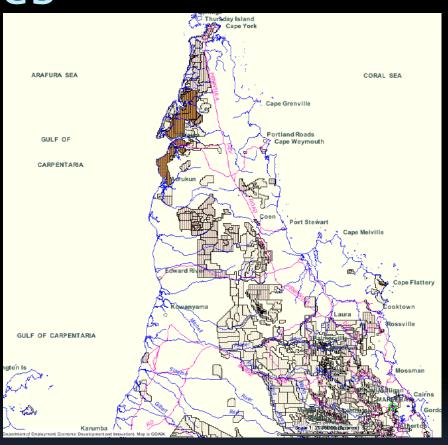
Volcan Australia Corporation PL, Volcan Holdings Inc who transferred the EPMs to Australia Gold Investments Limited and renamed to Queensland Bauxite Ltd

http://www.queenslandbauxite.com.au/

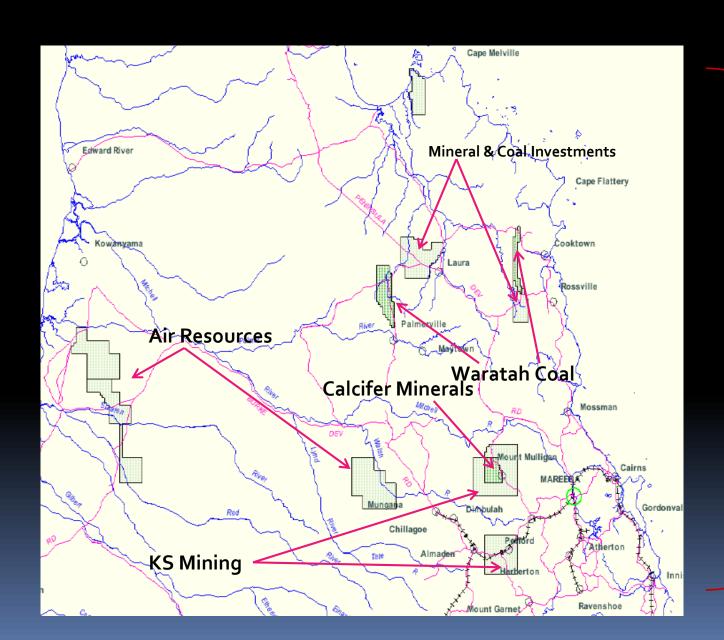
http://www.volcan.com.au/

Bauxite Companies

- Rio Comalco
- Cape Alumina
- Queensland Bauxite
- ACC Minerals
- Ridge Exploration
- Sunrise Minerals
- Charlotte Australia

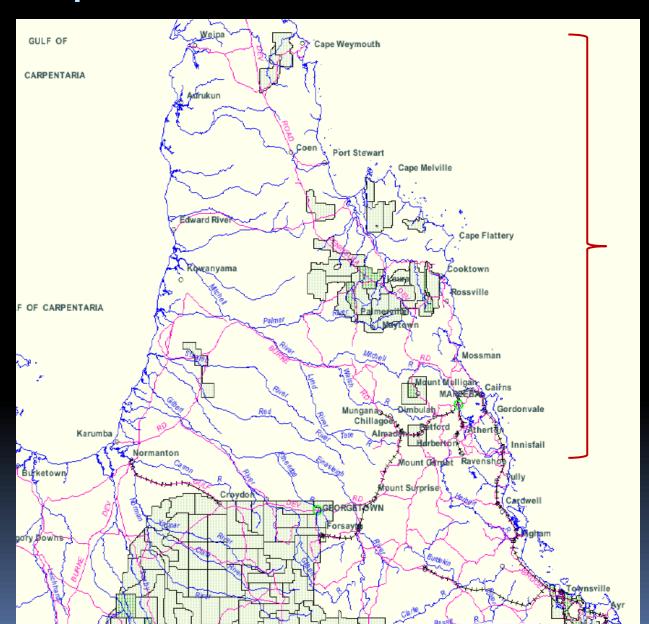


Coal Exploration - July 2011



11EPCs

Coal Exploration - October 2011



28 EPCs

Private Companies - Significant Tenement Holders in FNQ

Significant Landholders	No of EPMs	No of EPCs	General Location	Suggested Targets	
Tinpitch	>15		Alice R	Au	
rimpiten	, 13		/ wiec it	, iu	
KS Mining	>16	2	Georgetown	Si, Coal gas	
Charlotte Australia Holdings	>7		Central Cape York	Bauxite	
Gulf Gold	>7		Central Cape York	Au	
Patterson Mining	>9		Ebagoola	Sn	
Solomon Mines			Chillagoe	Producing Copper	
Phoenix Lime			Ootann	Producing Lime	
Plus associated Compar	Data off DEEDI "Intera	octive Maps"			

Over 70 private companies and over 20 individuals hold tenements (February 2011)

Comparison of Activity

2008

- Public Companies
 - Bauxite Weipa
 - Cape Flattery Silica Sand
 - Mt Garnet base metals
 - Metals X tin
 - Minerals Corporation kaolin
- Private Companies
 - Solomons Mines copper sulphate
 - Perlco Perlite
 - Alluvial gold mines (5?)
- Wolfram Camp, Kangaroo Ck under construction
- Under feasibility Watershed, Copperstrike, Baal Gammon, Chalco

2011

- Public Companies
 - Bauxite Weipa
 - Cape Flattery Silica Sand
 - Mt Garnet base metals
 - Mungana base metals, Au
 - Baal Gammon Cu-Ag-Sn-In
 - Mt Carbine W
- Private Companies
 - Deutsch Rohstoff Au
 - Solomons Mines copper sulphate
 - Phoenix Lime
 - Alluvial gold mines (?)
- Ropewalk, Mt Carbine, Baal Gammon Wolfram Camp under construction
- Oresome beach sands Feasibility
- Cape Alumina, Chalco rejected by State
- Incr Coal + Geothermal exploration

New Projects/Companies

- Deutsch Roschtoff Au
- Deutsch Roschtoff W
- Icon W
- Mungana Au
- Altius Ropewalk Au
- Coal exploration
- Petroleum exploration

- Oresome Beach Sands
- Baal Gammon Cu-Sn-Ag-In
- Monto Sn
- Vital DevelopingWatershed

Where to FNQ?

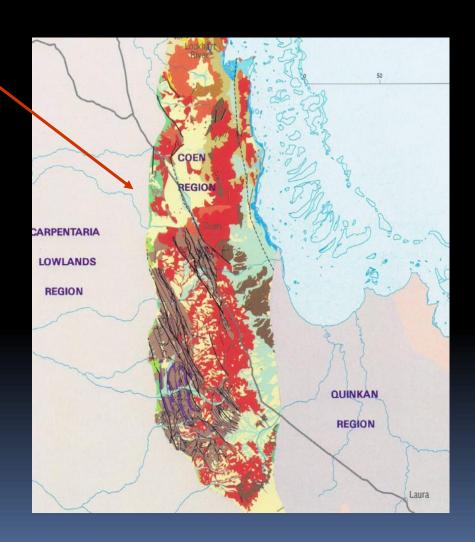
Exploration vs Mining Two Separate Industries

- If there is no exploration then there can be no mining. Exploration is conducted by "small" companies – not the majors!
- Exploration is based on Exploration Permit and mining is based on a Mining Lease.
- The fundamental unit of exploration is the "sub block which is 1 minute of latitude x 1 minute of longitude. The commitment to the Government is to spend of the order of \$1,000 per year on each sub block
- There are an estimated 30,000 of these in FNQ under application or granted for minerals, another 7,000 in coal. http://mines.industry.qld.gov.au/geoscience/interactive-resource-tenure-maps.htm
- Government is at best confused about actively discouraging and/or encouraging exploration

Cape York: Structures & Coen Inlier

NNW Trending Structures:

- Total combined length 740km
- Dilational zones
- Many are known to carry gold
- Significant breccia pipes have been recognised
- Compare these with other Bx pipes (Mt Leyshon 3m oz Au, Mt Wright >1m oz Au)
- Where are the other pipes in Cape York?
- How many jobs and how much State income could be generated?



Development of FNQ

- Under explored targets in FNQ:
 - Large low grade Sn (200kt of Sn)
 - Potential in ground \$4b
 - Large Intrusive Related Gold deposits (2.5m oz Au)
 - Potential in ground \$4b
 - Breccia pipe Au deposits (2m oz Au)
 - Potential in ground \$3b
 - Khazakstan model uranium
 - Numerous Base metal targets
- Jobs and \$ could be generated in the local areas on exploration and development of these mines
- Cairns could be a focal point for major exploration & development

- If one of these targets could be developed it would mean in excess of 600 jobs
- AMEC is growing into Old to support the industry
- Increasing activity by QRC, including public presentation



Target Example

The Welcome Breccia Pipe Denjim - Carpentaria JV -

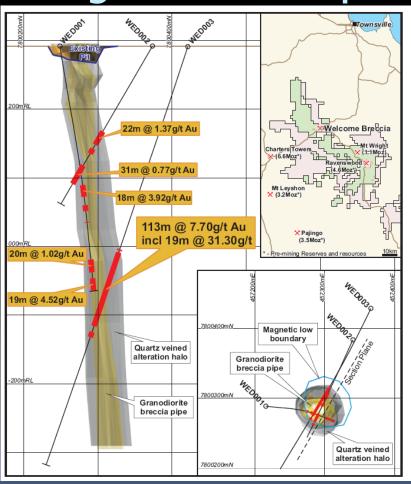


Figure 1: 3D MIMDAS block model coloured by chargeability (warm colours indicate more chargeable zones), with conductivity wireframe "contours" overlying block model (warm colours indicate more conductive).

Welcome breccia pipe outline and previous drilling shown (coloured for Au).



Similar bodies have been located in Cape York

My Challenge to the Businesses of Cairns

- Consider the benefits of Geothermal energy for Cairns - JV the Companies and push them to explore and produce – we need the power
- Any mining Company has geologists, miners, operators, accountants, trainers, lawyers, tradies

 anything a town has, a mine needs whatever you do, a mine needs.
- Don't wait for the Companies to come to you –
 be proactive and go to the Companies