Strategic Resources Exploration Program

Queensland Exploration Council – Technical Forum 28 Feb 2018

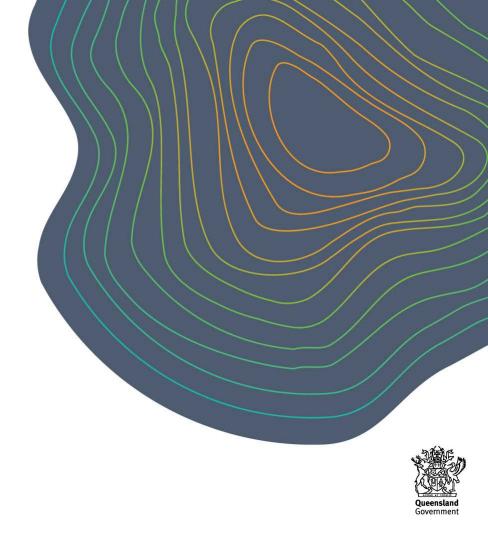
Tony Knight - Chief Government Geologist

Geological Survey of Queensland

Celebrating 150

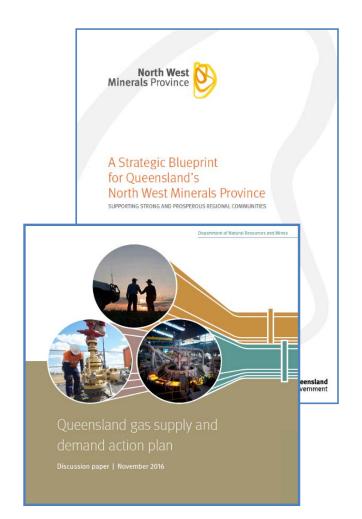
Exploring Queensland's Resources

Years



Strategic resources exploration program What is it?

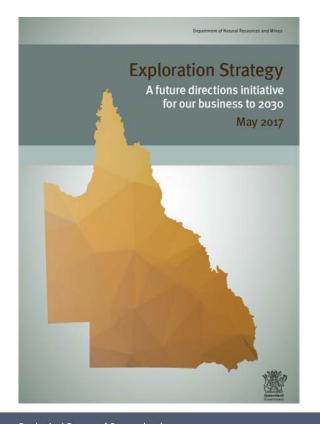
- Application made in March 2017 to government to fund a four-year pre-competitive geoscience program.
- Justification for request based providing strong support to:
 - Northwest Minerals Province Strategic blueprint (public document)
 - Gas Supply and Demand Action Plan (not public)
- Granted **\$27.125M** over four years (FY17/18 FY20/21)
 - Geoscience \$20M
 - Geoscience data \$7.125M

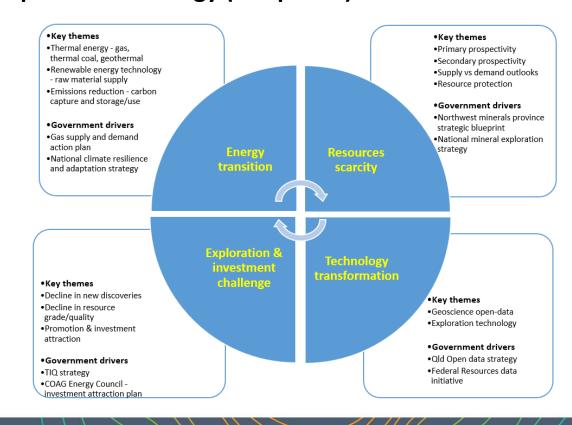


Strategic resources exploration program How much?

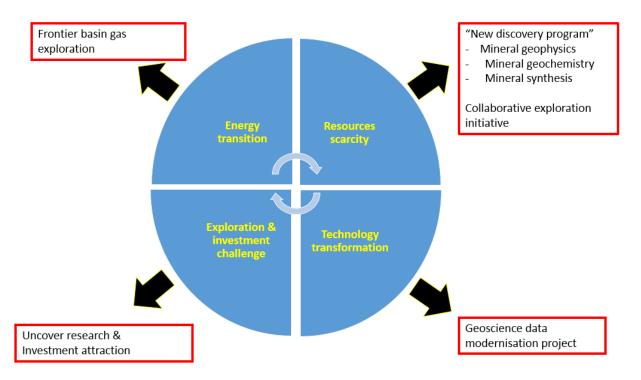
Activity	2017/18	2018/19	2019/20	2020/21	Sub-total
	\$'000	\$'000	\$'000	\$'000	\$'000
Mineral geophysics	1150	1475	1250	400	4275
Mineral geochemistry	350	500	400	200	1450
Mineral synthesis	1250	1800	1500	400	4950
Uncover research	200	225	250	250	925
Collaborative exploration	0	1200	1800	600	3600
Investment attraction	300	300	300	300	1200
Frontier basin gas exploration	250	1500	1500	350	3600
Total Operating	3500	7000	7000	2500	20000
Geoscience data	2,595	3,545	435	550	7,125
Total Capital	2,595	3,545	435	550	7,125
Total program	6,095	10,545	7,435	3,050	27,125

Strategic Resources Exploration Program Alignment with Queensland Exploration Strategy (not public)



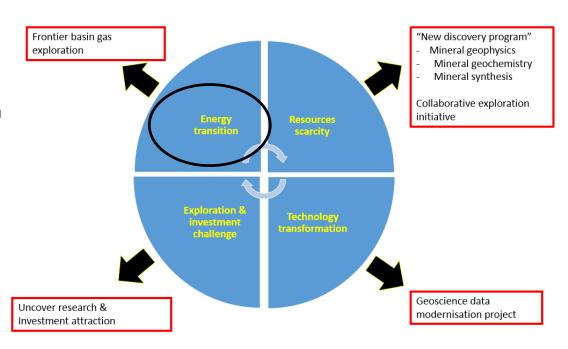


Strategic Resources Exploration Program Alignment with Queensland Exploration Strategy (not public)

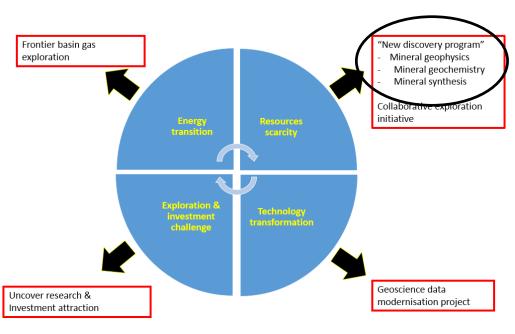


Good alignment between SREP and GSQ Exploration Strategy

- Targetting frontier basins in NW of state:
 - South Nicholson
 - Isa Super
 - Georgina
- Uses petroleum systems approach
- > FY17-18
 - SEEBASE update (basin architecture)
 - Completed
- > FY18/19 FY20/21
 - Major seismic program
 - In planning phase



New Discovery Program

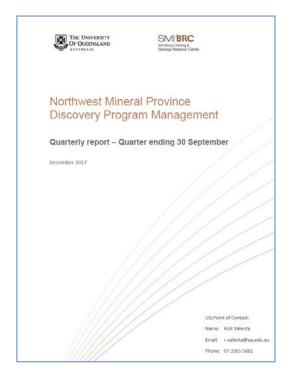


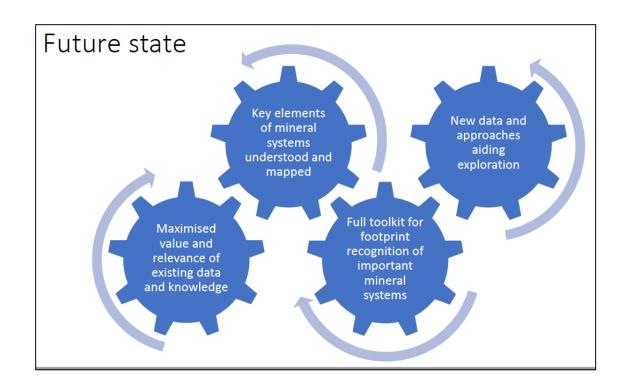
Basic aims:

- To provide an integrated understanding of the entire province – from deep earth to surface
- Make best-use of existing data and knowledge
- Developed agreed set of "future state" objectives via industry engagement in Mt Isa (Aug 2017)
- Four year program
- Strategic lead Prof. Rick Valenta (U.Q)
- Multiple projects underway
- Integrated with Cth "Exploring for the Future" program

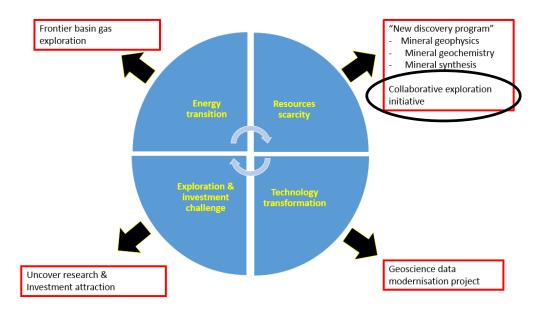


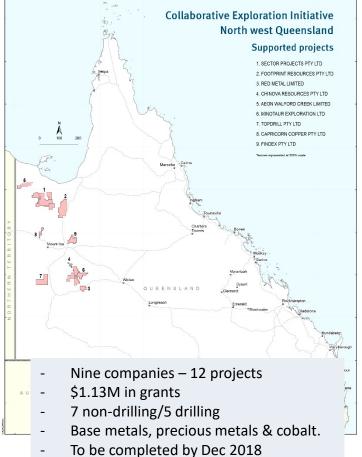
New Discovery Program (cont.)

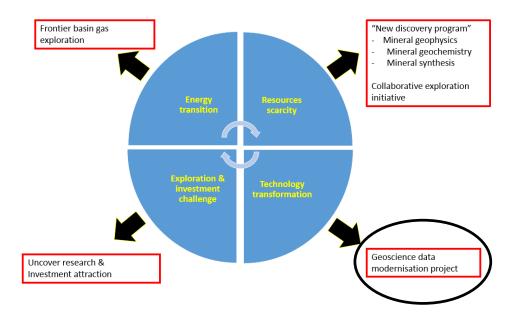




Collaborative exploration initiative



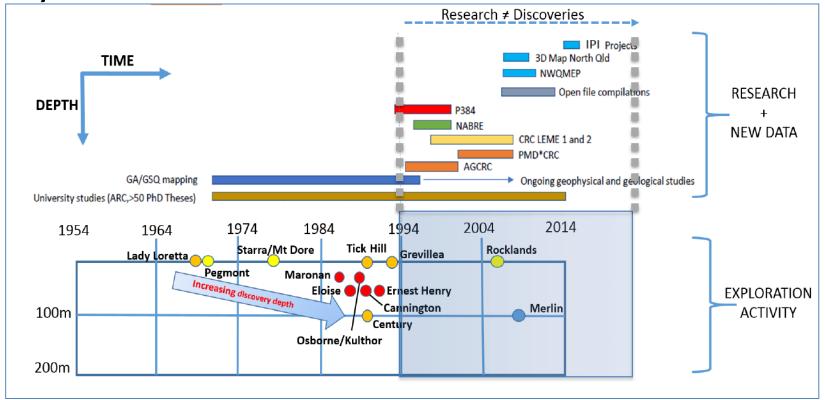




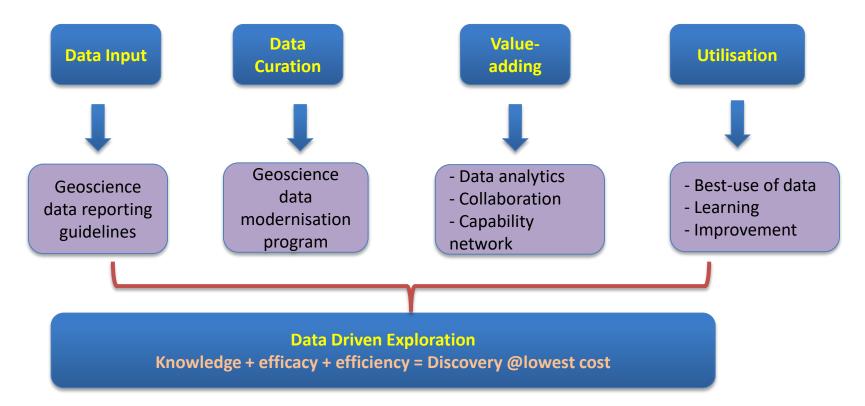




Why?



How?





Integration

→ Queensland government policy directions

- -Digital 1st strategy
- -Open data policy and action plan

➤ National level geoscience platforms

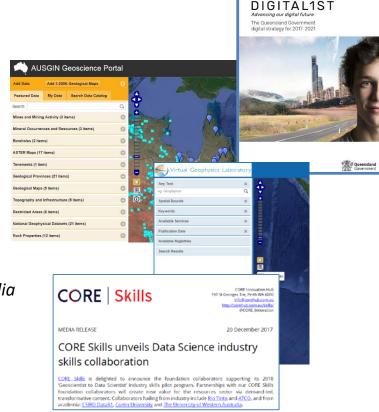
- -AUSGIN geoscience portal
- -National Virtual Core Library
- -National Virtual Geophysics laboratory

Capability network

- -CSIRO Data 61
- -CSIRO Minerals
- -Geoscience and exploration centres of expertise around Australia

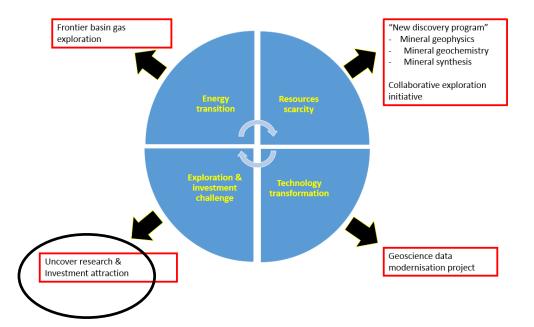
➤ National support mechanisms

- ➤ NERA collaborative projects
- ➤ NERA (& others) COREHUB initiative





Investment attraction



Opportunity promotion

Key messages for Queensland Resources Investment Strategy

The following key messages support the communication of various initiatives currently underway through the Queensland Resources Investment Strategy.

This document has been prepared for internal use only and aims to complement the communication framework that has been developed by Strategic Communication & Engagement.

Key messages



Key message 1: Investment attraction

Queensland is one of the world's leading destinations for mining and resources investment.



Key message 2: Minerals for energy

Queensland has the range of minerals needed to support the transition from thermal coal to renewable energy.



Key message 3: Minerals for industry

Queensland has a world-class minerals for industry sector, with the availability and potential for the sector unmatched anywhere in the world.



Key message 4: Minerals for technology

Queensland is well placed to supply the wide array of minerals essential for the manufacture of advanced and energy efficient technologies.



Key message 5: Capability

Queensland's strength lies not only in its rich deposits of minerals and energy, but also its experience, capability and professionalism in operating a world-class resource sector.



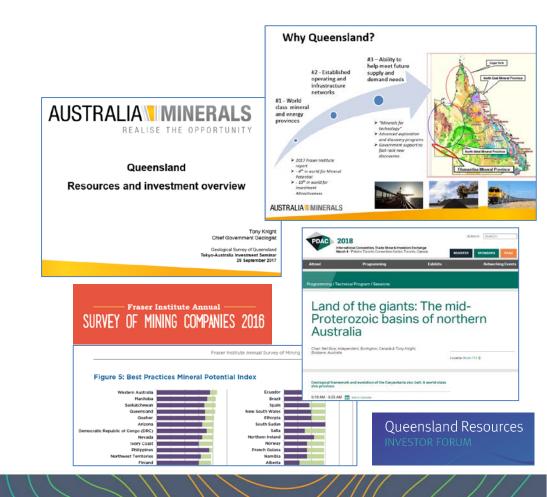
Investment attraction

International

- Delivered via COAG Energy Council "Australia Minerals" program in Nth America & Asia
- Key events
 - PDAC (~25,000 attendees)
 - o China Mining
 - Investment seminars
- Strong co-operation with TIQ & Austrade

Domestic

- Investor Forum (in conjunction with QEC) Dec 6 2017
- AEGC Sydney Feb 2018





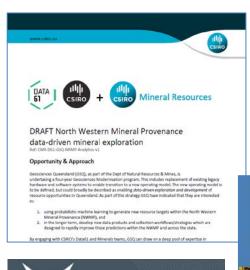
Uncover Research

➤ State (in support of New Discovery Program)

- Agreements in place with leading geoscience research providers around Australia:
 - Bryan Research Centre (U.Q)
 - Economic Geology Research Unit (James Cook)
 - Centre of Excellence in Ore Deposits (U.Tas)
 - CSIRO Minerals
 - o CSIRO Data 61
 - University of Adelaide

≻National

- Support to Co-operative Research Centres
 - Deep Exploration Technologies (existing)
 - Minerals Exploration (proposed)
 - Uncover initiative



Uncovering the future



MinEx crc

