

ABN 65 112 714 397

# The Integrated Uranium Company

October 2009 <u>www.uxa.com.au</u> ASX: UXA

#### **Acknowledgements & Disclaimer**

#### Acknowledgements

Uranium Exploration Australia Limited (UXA) thanks Geoscience Associates Australia Pty Limited, UTS Geophysics and each of the relevant State and Territory mines department bodies as well as UxC Corporation and The Uranium Information Centre for information and diagrams presented herein that have drawn extensively on data and information published or produced by them which has been compiled, diagrammed and mapped where appropriate by UXA's employees and/or consultants.

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# URANIUM EXPLORATION AUSTRALIA LIMITED

- In today's presentation.....
  - Corporate Strategy
  - Capital Raising completed
  - New borehole logging subsidiary Geoscience Associates Australia
  - New uranium discovery at Crystal Creek

## **UXA CAPITAL STRUCTURE**

#### New Capital Structure

- > 182.2 million ordinary shares (ASX: UXA)
- 0.5 million (employee) options
- Market Capitalisation A\$17.3 million
  - Based on \$0.095 per share on 27 October 2009
  - 2,090 shareholders
  - Top 20 hold 41.06%
- Cash \$7.0m (unaudited post GAA purchase)

#### Capital Raising Completed 16th September 2009

- Share Purchase Plan raised \$3.4 million
- > Placement raised \$5.2 million

#### **Use of Funds**

> GAA acquisition, exploration and working capital

## **OUR STRATEGY TO GROW UXA**

#### I. NEW CASHFLOW BUSINESS

- Purchase of Geoscience Associates (Australia) Pty Ltd (GAA) completed 1<sup>st</sup> October 2009
- Exposure to coal seam gas, coal, geothermal and uranium sectors
- Positive cashflow will be used in exploration

#### 2. ACQUIRE ADVANCED URANIUM PROJECTS

- Advance negotiations to acquire drill-ready uranium projects
- Tap management's expertise to fast-track development

# 3. FURTHER DEVELOP KEY AUSTRALIAN EXPLORATION PROJECTS

- JV with India's largest listed company
- Excellent ground position Australia's best uranium provinces
- New opportunities in South Australia & Northern Territory
- Follow up new discovery at Crystal Creek, Northern Territory

# **NEW CASHFLOW BUSINESS**

#### **Geoscience Associates Australia (GAA)**

- Highly profitable mining services (borehole logging) company since 1971
- Exclusive licence to use the Prompt Fission Neutron (PFN) technology in Australia
- State of the art logging technology applicable to the coal seam gas, coal, geothermal and uranium sectors
- GAA has 14 borehole logging trucks servicing the Australian mining and exploration industry
- Continues to operate as an independently managed contracting business

#### PROVIDES UXA WITH IMMEDIATE STRONG AND GROWING CASH FLOWS

## **GAA - COAL INDUSTRIES - QUEENSLAND**

- Coal Mining and Exploration industry
- Coal Seam Gas and Coal Gasification explorers
- > Very strong growth sector
- > GAA has competitive edge
  - > Workshop and technicians to service and build probes
  - GAA has logistical base in Queensland to provide borehole logging services to the industry



# **GAA - PROMPT FISSION NEUTRON (PFN)**



- PFN used in discovering Australia's most recent uranium mine – Beverley – and the Four Mile mine development in South Australia
- Eliminates the concern of missing uranium in the borehole DUE TO DIS-EQUILIBRIUM AND THE USE OF GAMMA LOGGING
- Provides immediate and fool-proof uranium analysis within the borehole by using neutron activation to measure U<sub>235</sub>
- GAA is the sole provider of PFN technology to the uranium exploration industry in Australia and has sole distribution rights
- Opening up of Western Australian uranium industry provides new opportunities for PFN

# GAA and UXA

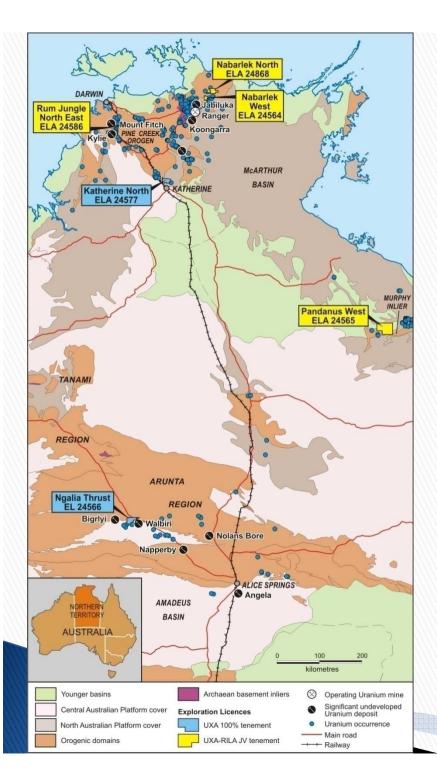
GAA will continue to operate and develop as a separately managed borehole logging company UXA will continue to pursue its prime objective of discovering an economic uranium deposit

### FURTHER DEVELOP KEY AUSTRALIAN EXPLORATION PROJECTS

#### **BACKED BY INDIA'S LARGEST LISTED COMPANY**

- > Reliance Industries, market capitalisation > US\$40 bn
- > JV with Australian subsidiary RIL (Australia) Pty Ltd
- > UXA 51% and operator
- > RILA contributing 49% to exploration on 7 projects
  - > 3 granted tenements in South Australia
  - > 4 tenement applications in Northern Territory
- Focus on Northern Territory tenements in 2009-10



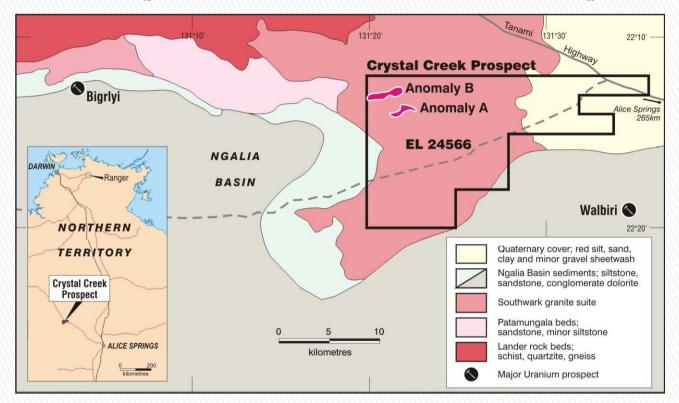


## **NT PROJECTS**

- 5 tenements subject to Native Title negotiations
  - Agreements finalised and successful Country meeting held for the 2 Nabarlek tenements, grant expected in January 2010
- 4 tenements in same geology as Ranger Mine - unconformity style U
- Pandanus West tenement in Westmorland U Province

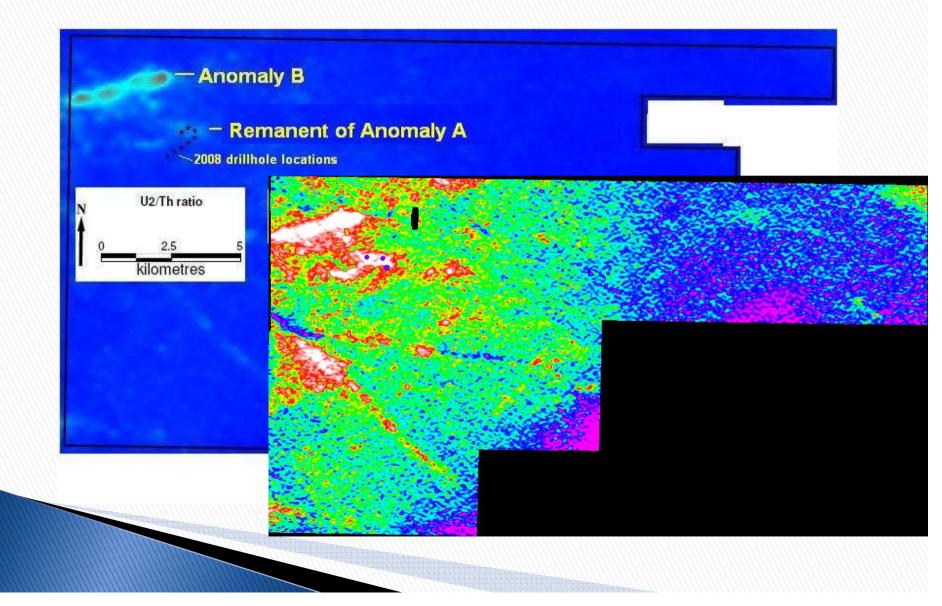
#### UXA plans to drill at recently discovered 3km mineralised structure at Ngalia Thrust

## NGALIA THRUST Crystal Creek Discovery

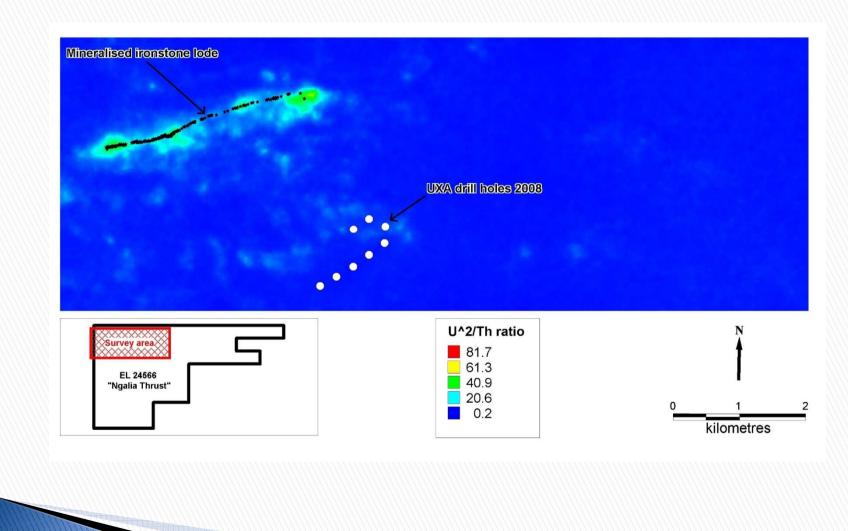


- > 100% owned UXA
- Recent discovery at Anomaly B
- > 30 km east of Energy Metals' Bigrlyi Uranium Project

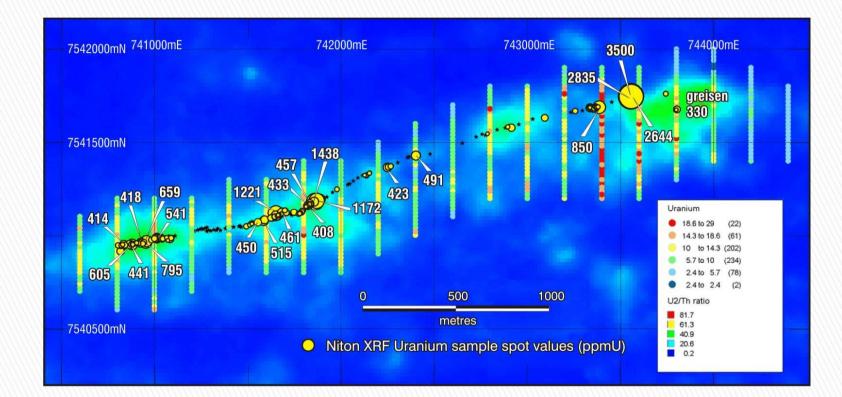
# **Crystal Creek Discovery**



# **Crystal Creek - geophysics**



# **Crystal Creek - geochemistry**



> 3,000m long structure with strong surface uranium values

XRF spot field values up to 4,123 ppm U3O8, confirmed by laboratory XRF geochemistry – up to 4,170 ppm U3O8

Soil sampling program completed

# **Crystal Creek - mineralisation**

Uranium is associated with ironstone in a structure up to 12m wide

SEM shows uranium associated with Ti/Fe minerals and possible presence of U minerals brannerite and coffinite

Very fine grained uraninite, coffinite and autunite identified by QEMSCAN

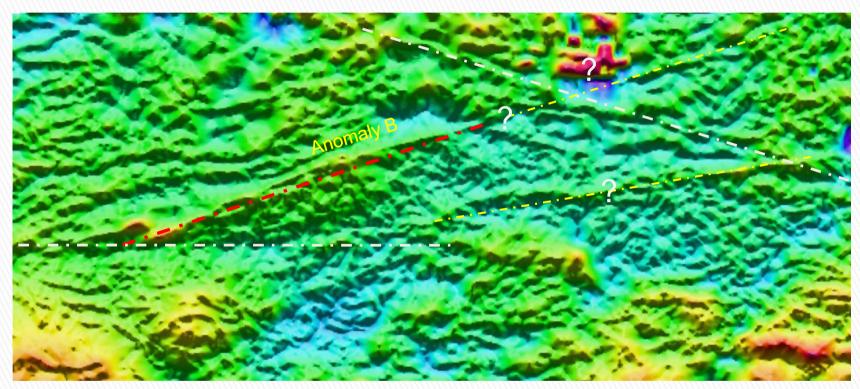
Thorium values are low (< 20 ppm in mineralised samples – XRF Analysis)</p>

Rare earth element abundances not strongly anomalous



Program of geochemistry and petrology underway to further evaluate uranium mineralogy and rare earth geochemistry

# **Crystal Creek – possible extensions**



UTS magnetics, RTP, HVD

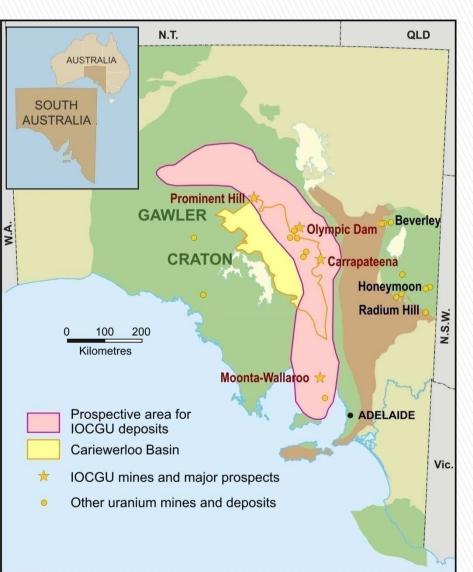
High Resolution Geophysics shows possible extensions and parallel repeat structure – additional drill targets

# Crystal Creek – Exploration Program 2009



- Airborne Survey high resolution 1,900 line km completed by UTS Geophysics
- Soil Sampling completed results received
- Geochemistry and Mineralogy underway
- RC percussion drilling drilling agreement signed, access clearances received – mid November expected start date

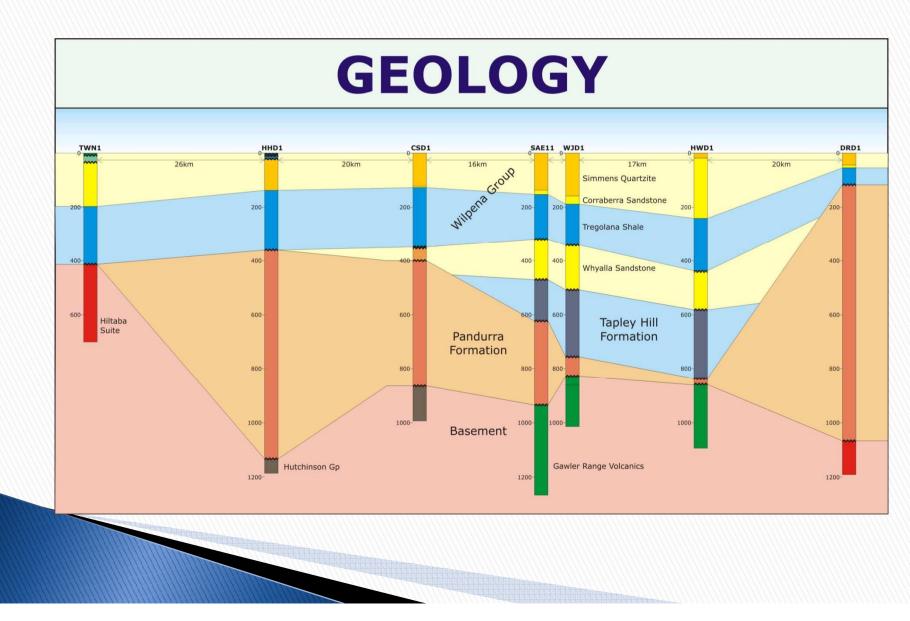
# **South Australia**



#### World's best endowed uranium province

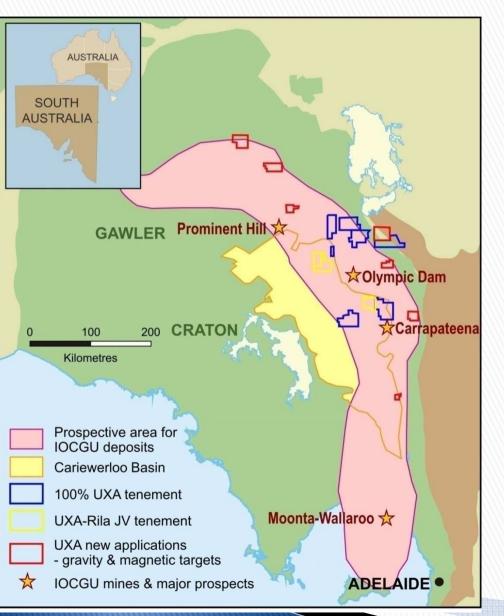
- 2 Major Uranium Mines and 2 under development
  - Olympic Dam Mine, haematite breccia complex (Iron Oxide Copper Gold Uranium deposit (IOCGU)) - world's largest U resource, annual production 4,100t U<sub>3</sub>O<sub>8</sub>
  - Beverley U Mine world's largest in-situ leach (ISL) operation, annual production 720 t U<sub>3</sub>O<sub>8</sub>
  - Honeymoon Mine, commencing 2010 to produce 400t U<sub>3</sub>O<sub>8</sub> annually
  - Four Mile new ISL commencing 2010, to produce 680 – 2,045t U<sub>3</sub>O<sub>8</sub> annually

# **South Australia – Stuart Shelf**



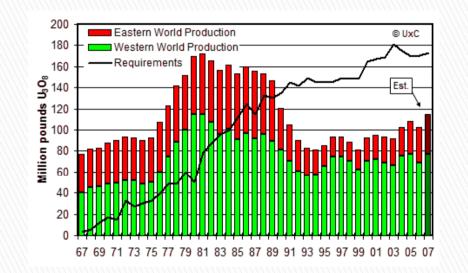
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# South Australia – UXA Projects



- > 7 new tenements
  - co-incident magnetic & gravity anomaly targets
  - Possible new drill targets for haematite breccia complex (IOCGU) deposits
- 9 EL's explored by UXA
  2006 08
  - > drilling revealed deep target areas
- Technical review nearing completion
  - New exploration strategy for the Stuart Shelf

## **GLOBAL URANIUM MARKET DRIVERS** *Fundamentally Strong Uranium Market*



- 1. Uranium mined supply shortfall
- Re-processing of weapons grade uranium – agreement ends 2013
- 3. New mines slow to come on stream

Uranium prices strong for the future

108 new nuclear power stations planned and 43 under construction



# WHY INVEST IN UXA?

With a market valuation of under \$20 million, UXA provides compelling value given:-

#### **1. COMMITMENT TO URANIUM EXPLORATION**

- Long term goal is to discover a major uranium deposit
- New Discovery at Crystal Creek drilling November 2009

#### 2. EXCELLENT FINANCIAL POSITION

- GAA acquisition provides UXA with a strong cashflow
- Exclusive access to PFN technology

#### 3. TWO STAGE GROWTH STRATEGY

- Acquisition of GAA has doubled the size of the Company
- Actively seeking major uranium project for farm in

#### 4. BACKED BY INDIA'S LARGEST LISTED COMPANY

Actively advancing uranium prospects in NT



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