



# Beijing Mines and Money 2012 Investor Presentation

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# MEDCALF VANADIUM PROJECT

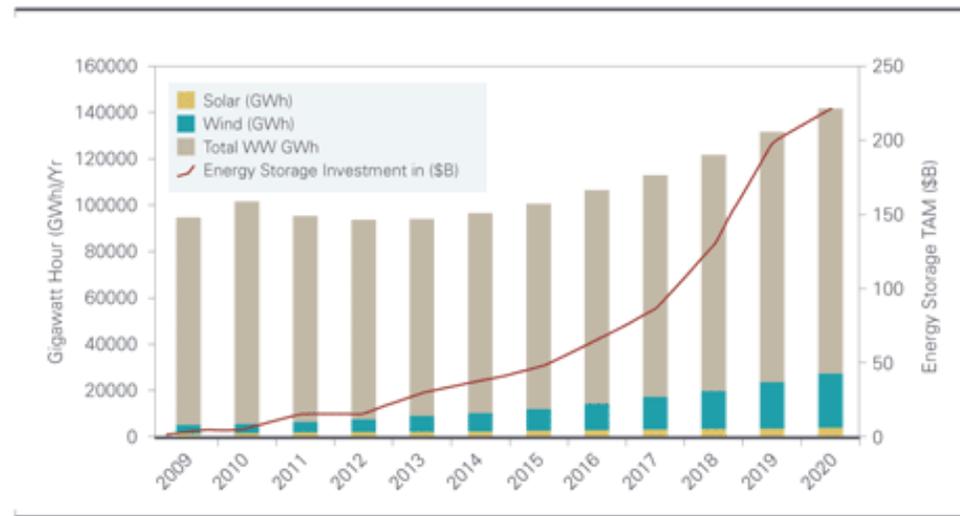


- ❖ 百分之百由澳大利亚资源有限公司所拥有。
- ❖ 被授予涵盖8平方公里的开采执照。
- ❖ 位于矿产资源丰富的西澳Yilgarn。
- ❖ 由主要公司Unimin, Amoco, Cyprus, Arimco, Lionore开采。近期Norilsk开采的镍，铜，金，铂族金属及钒和钛。
- ❖ 阿莫科Amoco（1982）预计了1600万吨0.8%级钒及12%级钛。

# 什么是钒？

- ❖ 钒为柔软，灰色，具有高强度的过渡金属。
- ❖ 钒在碱性，酸性及盐水状态下保持稳定并可抵抗腐蚀。
- ❖ 钒自19世纪末起用于提高钢铁的强度及韧度。高强度低合金钒钢铁的制成大幅度减少了能量，运输及生产成本。
- ❖ 钒近期被用于电池技术的进步并扮演着超级充电器的角色。
- ❖ 预计在2020年，10%的机动车市场将以电池作为动力（目前估计有2亿5千万机动车）。
- ❖ 2020年之后，用于家居，商业及铁格架的能源使用估计将达到1000万吨。

### Market Potential for Energy Storage

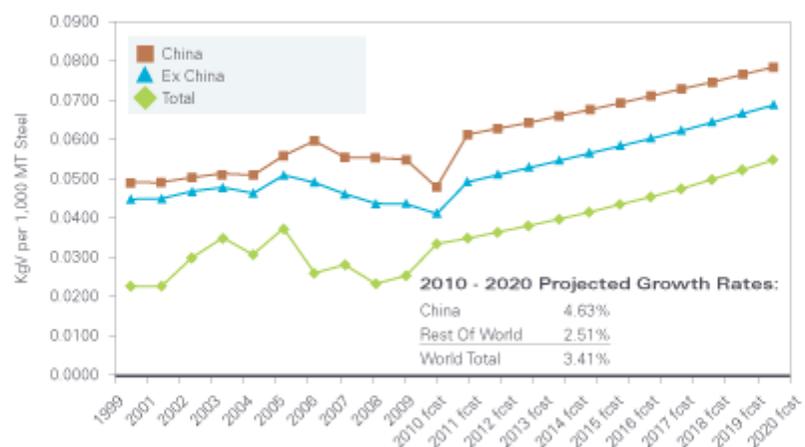


Data Source: Piper Jaffray, World Wind Energy Association, EPIA

- ❖ 能源储存预计在2020年将成为6000亿美元工业，这其中51%预计来源于电池技术。

# 钒的消费及使用

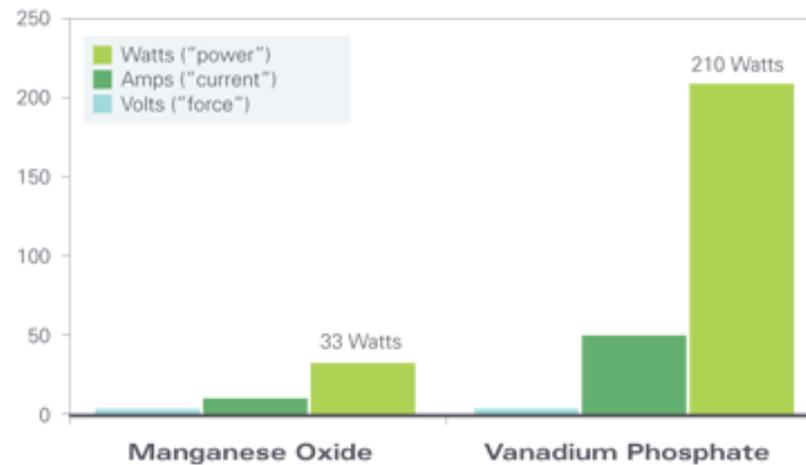
Specific Vanadium Consumption Rate: 1999-2020



Source: Vanadium Market Fundamentals And Implications. Terry Perles/TTP Squared, Inc., Nov. 16, 2010

- ❖ 国际金属顾问公司TTP预测未来2010年到2025年，钢专用钒的消耗将以每年4.8%的速度稳健增长，80%以上的增长将发生在BRIC国家。

**Comparison of Lithium Battery Types**  
manganese oxide vs. vanadium phosphate



Data Source: The Gold Report website (Jon Hykawy interview), Jan. 7, 2011

❖ 钒-锂-磷酸盐提供最高能源密度及任何电流电池化学的电压。

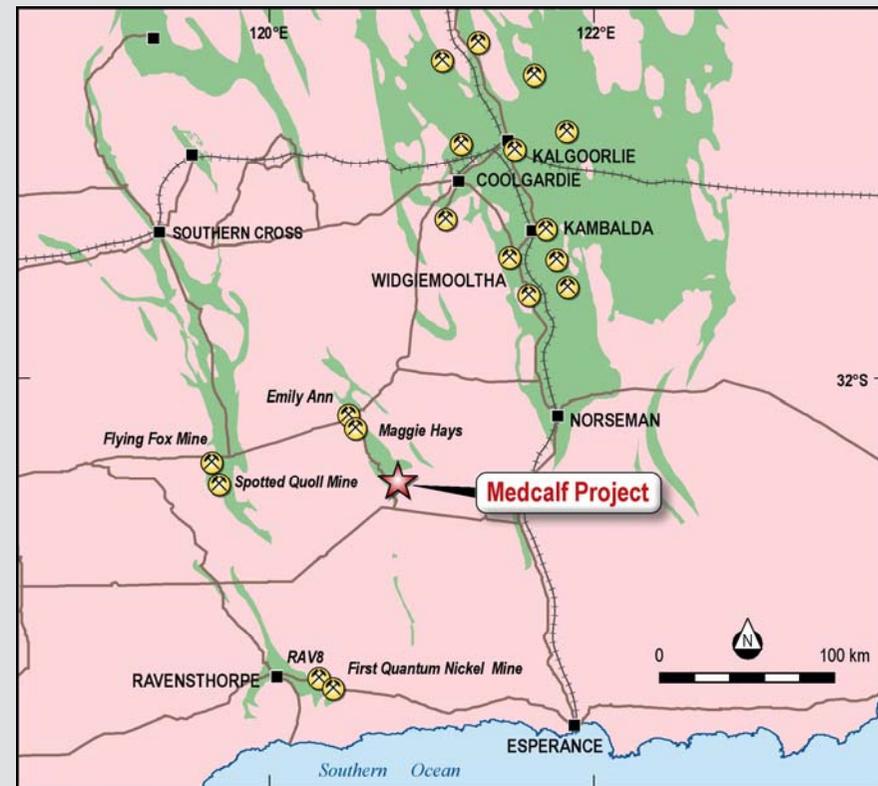
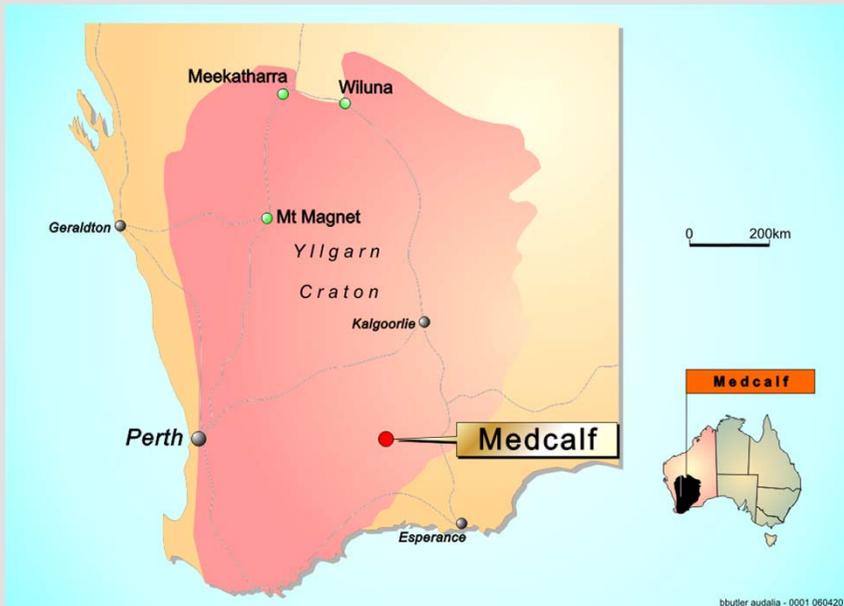
- ❖ 最大的钒产地为中国，南非及俄国。
- ❖ 钢厂目前消耗了大约92%的钒，然而据估计如今只有9%的钢中含钒。
- ❖ 未来预计随着新兴经济的增长，特别是BRIC国家及亚洲国家，将密集使用钒以应对兴建新的基础设施。（如2008年美国使用的钒是中国使用量的3倍多）。
- ❖ 伴随着2003年至2009年间钢产量每年13%的增加，中国对钒的需求已经显示出大幅度增长。

# World Laboratories Focussing On Vanadium



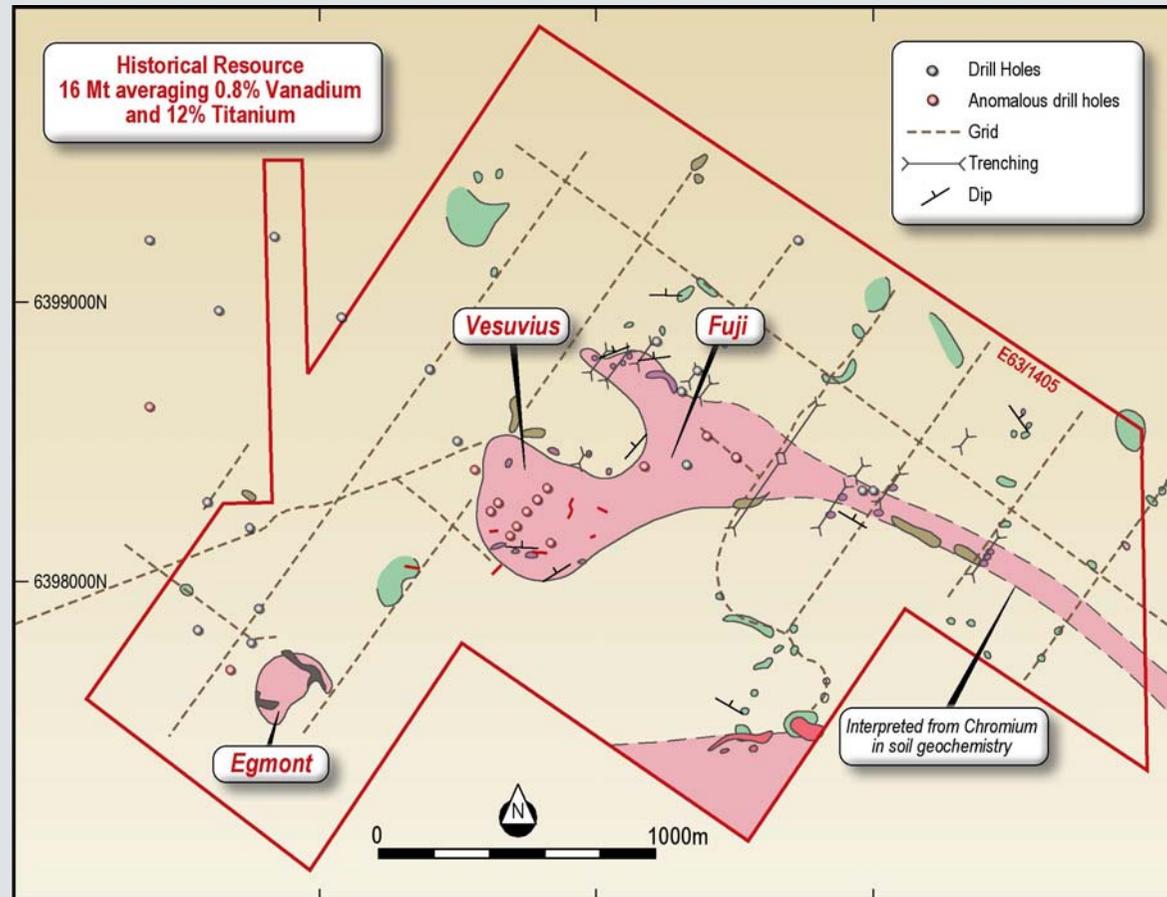
- ❖ *The United States Department of Energy's Pacific Northwest National Laboratory* announced the ability to increase the energy storage capacity of the vanadium redox batteries (VRBs) by 70 percent and to expand the temperature range in which they operate by modifying the battery's electrolyte solution which would mean that smaller tanks could be used to generate the same amount of power (March 17, 2011).
- ❖ *Germany's Fraunhofer Institute* announced that it would be focusing on and expediting the development of VRBs, and in particular, are working on new membrane materials and battery designs, with their long-term goal to build a 20 MWh capacity VRB installation, which would represent the world's largest VRB (March 31, 2011).
- ❖ *The Chinese Academy of Sciences* announced the discovery of a new nanofiltration membrane material that enhances the efficiency of VRBs and therefore, will reduce a key cost component of the battery (April 13, 2011).

# Medcalf Project Location



- ❖ Located 470km south-east of Perth. Esperance port 400km by road.

# Medcalf Project Location



❖ Three mineralised areas, Egmont, Vesuvius and Fuji outlined to date.

# Medcalf Significant Historical Drill Intercepts

Hole No	Maximum V <sub>2</sub> O <sub>5</sub> %	Maximum TiO <sub>2</sub> %
LJ1	0.48	9.7
RM1	1.11	14.8
RM2	1.11	16.5
RM3	0.86	10.9
RM4	0.87	11
RM5	1.49	25
RM6	0.77	9.8
RM7	0.57	10.4
RM8	1.05	12.7
RM9	0.75	8.9
RM10	0.52	12.1
RM11	0.42	9.9
RM13	0.61	11.6
RM15	0.7	14
RM19	0.36	16.1

- ❖ 间隔大约1.5米兰。
- ❖ 钻头钻入风化露头石岩单位。
- ❖ 岩石单位为缓倾，这样在开采时就会有较低的矿石剥采比。

- ❖ 2009年5月Reed资源完成了对Barrambie储藏的钒产量的最终可行性研究。
- ❖ 此研究的重要结果为：
  - 以平均钒铁价格每公斤30美元以及以一澳元兑0.60美元来计算，每年平均的。
  - 钒的营运成本低于每公斤20美元。
  - 初始采掘0.82%V<sub>2</sub>O<sub>5</sub>钒矿石储藏3970万吨。
  - 每年320吨产量，最少12年开采寿命。
  - 资金成本估计为澳币6.289亿。

## Medcalf的优势

- ❖ 级别相似。
- ❖ 矿石剥采比方面将有更好的经济效益。
- ❖ 邻近Esperance港口。

- ❖ 搜集样本进行冶金测试。
- ❖ 完成钻探以验证及确定阿莫科（Amoco）资源的预测估计。
- ❖ 完成工程项目经济效益的概略研究。

# GASCOYNE 贱金属项目



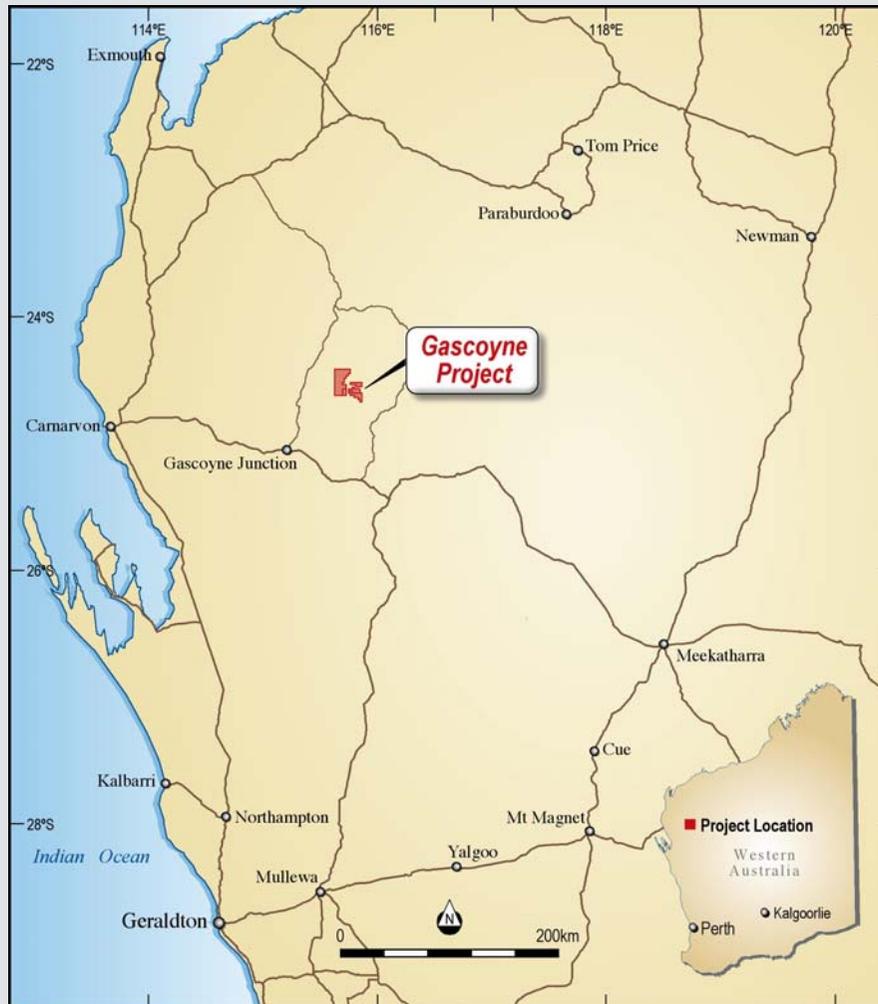
## Gascoyne 项目-主要特点

### 处于新的贱金属省



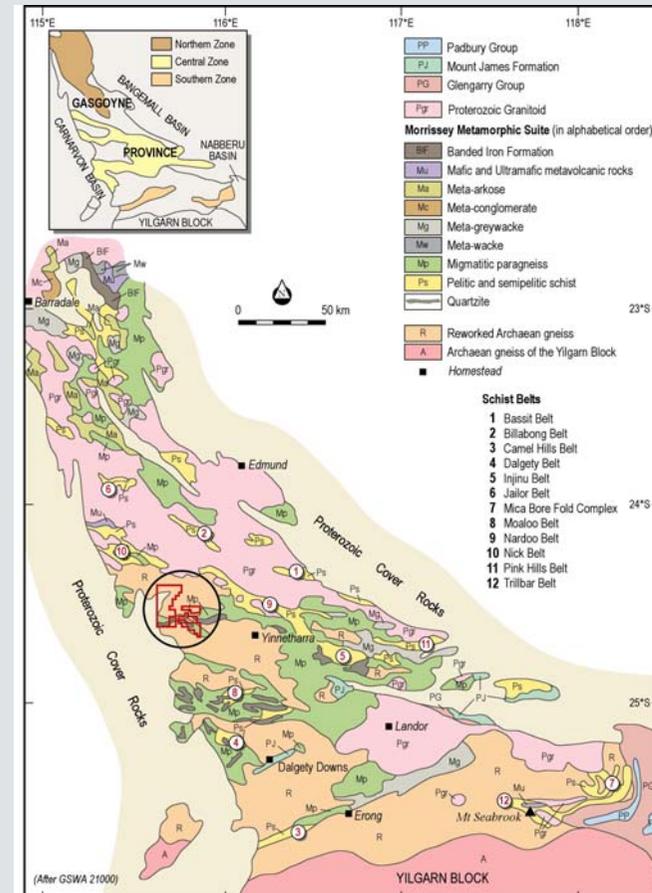
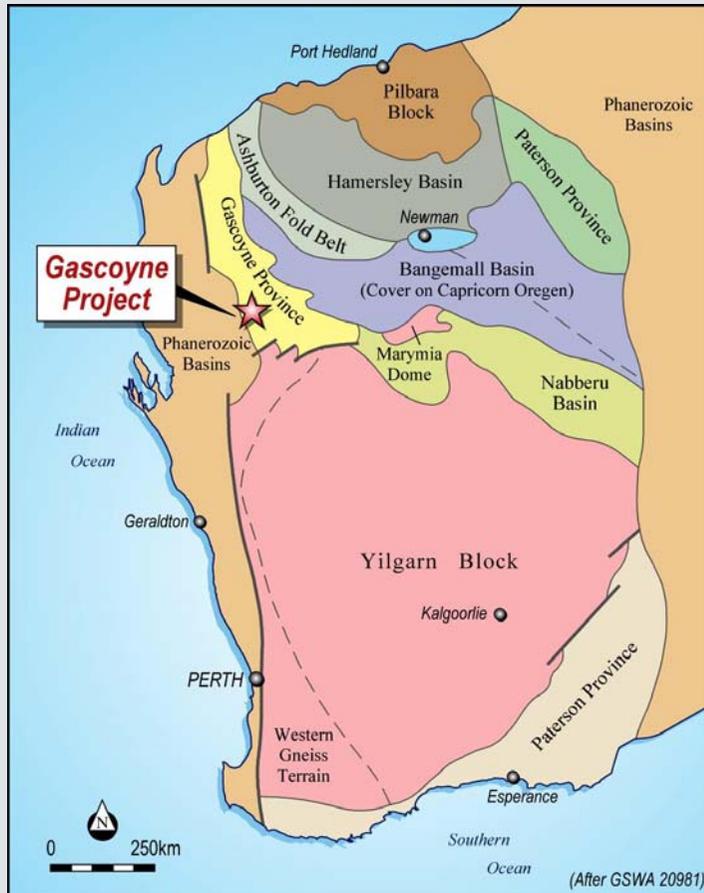
- 百分之百拥有西澳Gascoyne地区面积311平方公里富含铅，锌及铜的矿权。
- 勘探及钻探证明了公司贱金属矿化的地质模型与重回土壤异常以及"指纹"磁异常。
- 第一个在这些目标上的钢筋混凝土钻孔获得了2.3%的铅及0.9%的铜。
- 钻探已确定了相距9公里的两个贱金属矿化，矿化在各个方向保持开放。
- 众多由BHP之前勘探勾画出的指纹目标以及重力异常尚未得到测试。
- 抽样异常岩石块含有高达953ppm铅及487ppm的锌。
- 澳大利亚资源的目标为一个断峰SEDEX型块状硫化物铅|锌的储藏。

# Gascoyne 贱金属项目



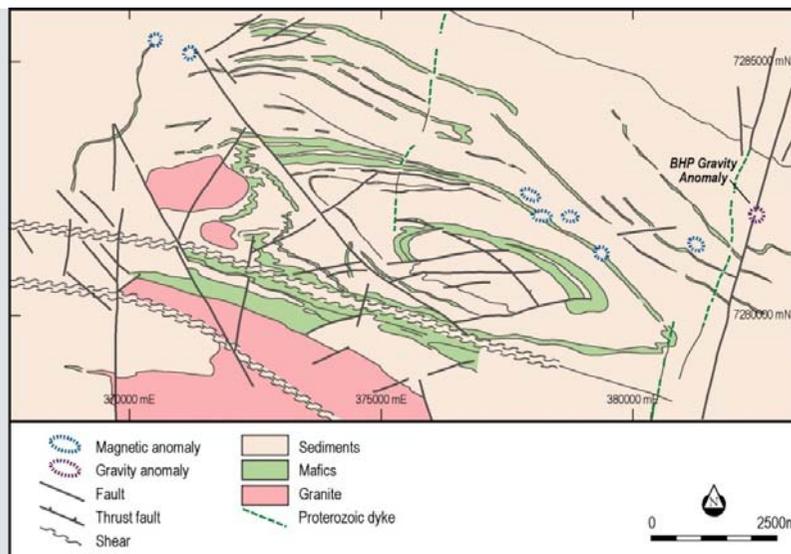
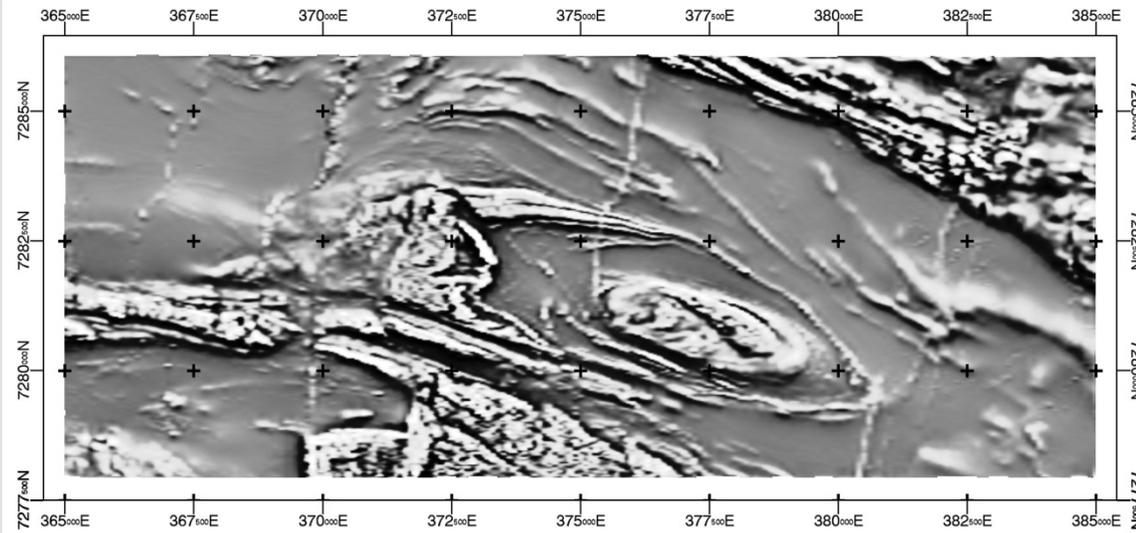
- 距离珀斯1200公里。
- 工程项目覆盖面积达311平方公里。
- 出入道路为高质的沥青及砾石道路。
- 距离Carnarvon 3小时车程，人口为5000人，从珀斯乘飞机只需75分钟。

# Gascoyne Project Geology



Proterozoic Morrissey Metamorphic Suite – clastic sediments, granitoid intrusions and intercalated mafic igneous rocks.

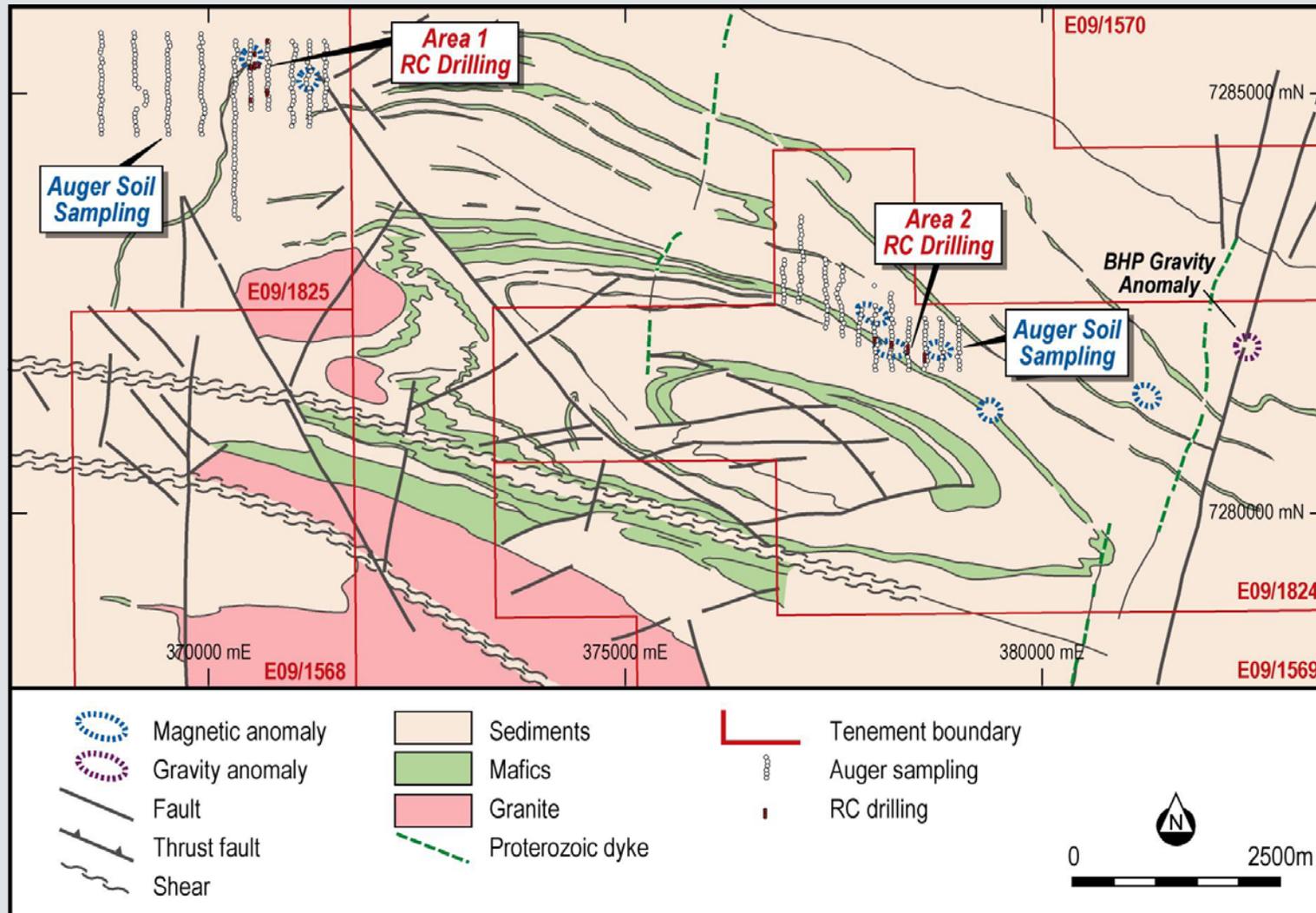
# Gascoyne Airborne Magnetic Survey



➤ Interpretation of 100m spaced magnetic data shows structure dominated by west-northwest faults/lithologies ( $290^\circ$ ) which are domal in nature –possible sedimentary basin.

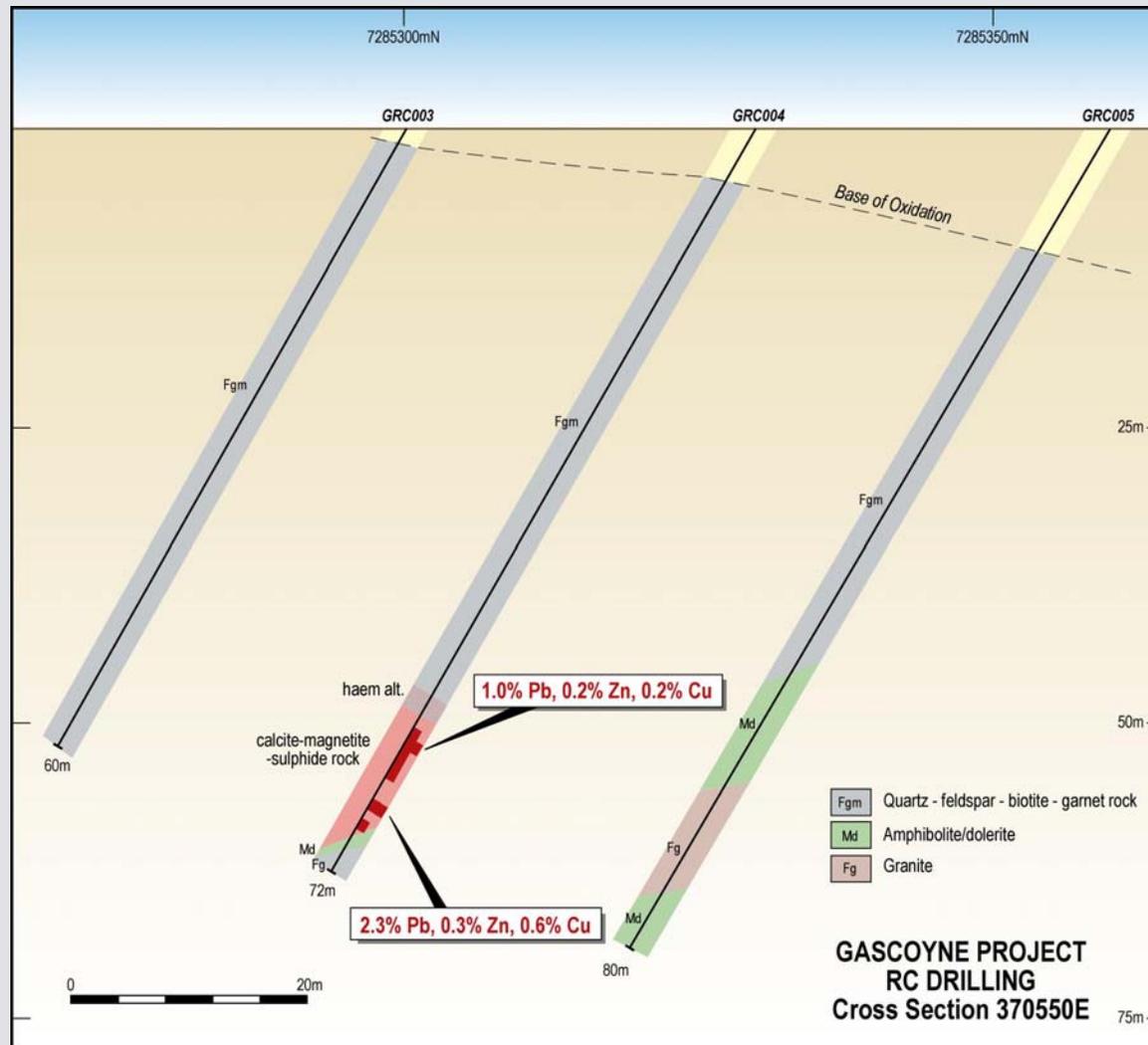
➤ “Thumbprint” magnetic anomalies/targets outlined which are coincident with anomalous geochemical samples.

# Gascoyne Auger Geochemistry and RC Drilling



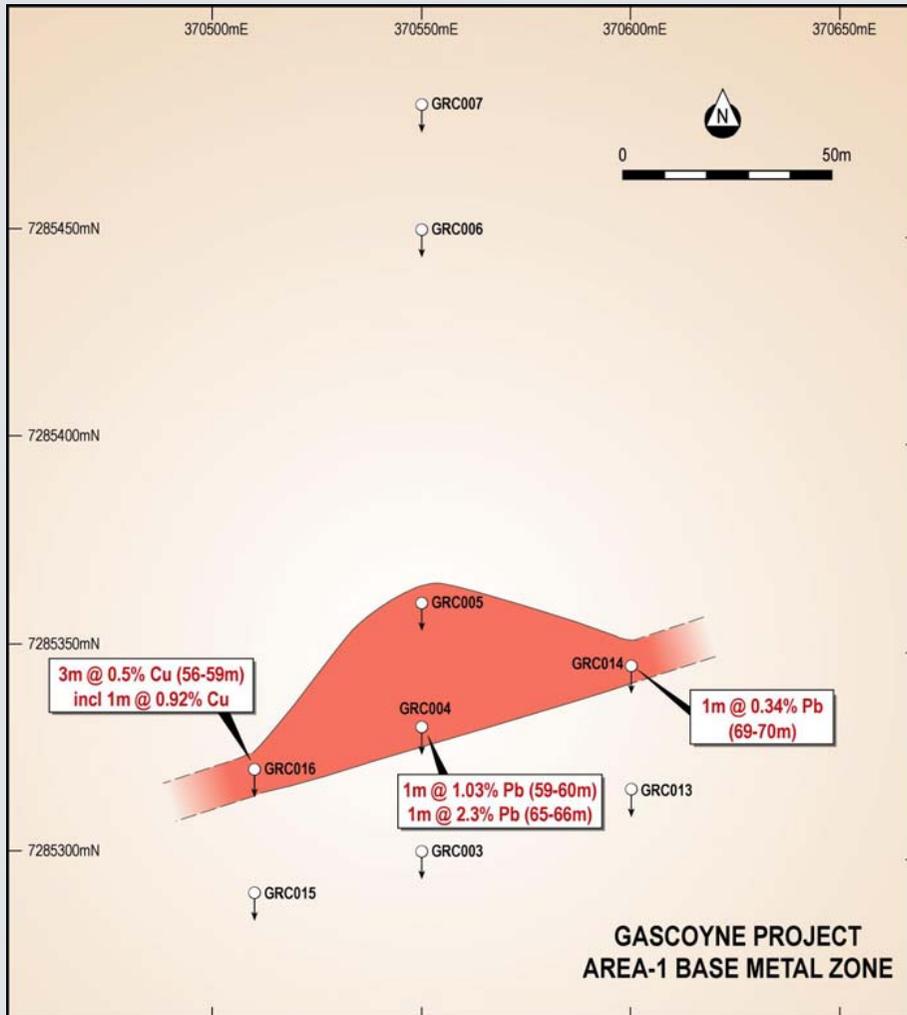
# Gascoyne Project - Area 1 Drill Section

## New base metal discovery



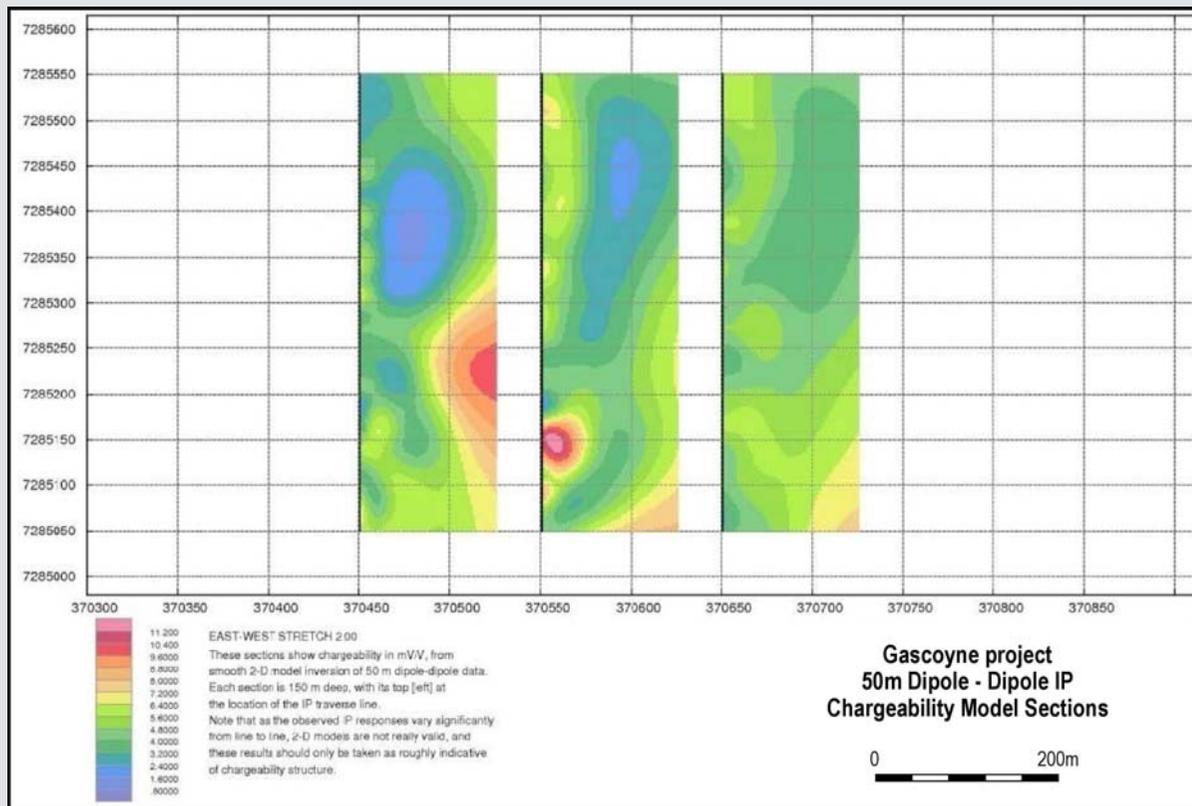
- RC drilling completed at the project has resulted in positive results for a potential new base metal discovery with significant results of up to 2.3% Pb and 0.9% Cu.
- Lead sulphide (galena) and copper sulphides (chalcopyrite) identified in drill chips.

# Gascoyne Project - Area 1 base metal zone



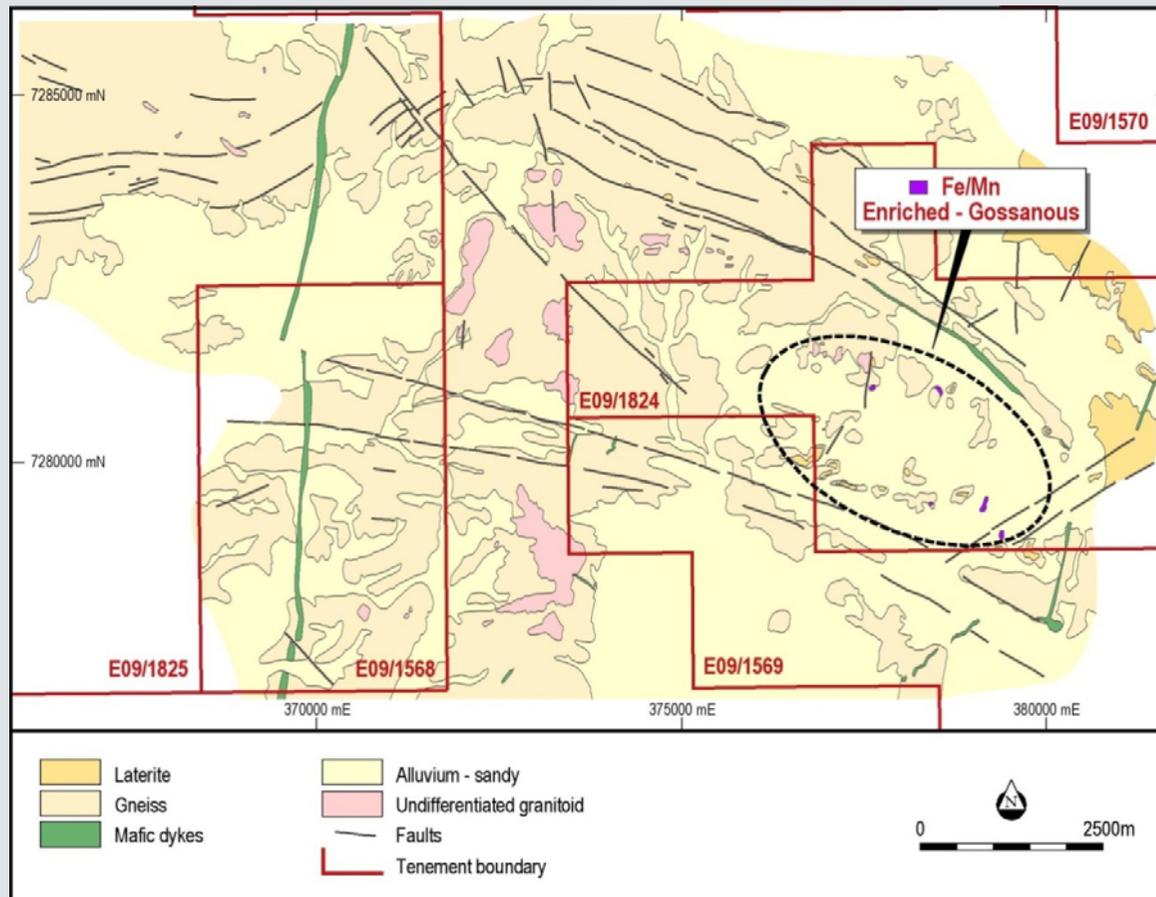
- Significant base metal results on three consecutive RC drill sections with strike length of over 100m established.
- Lead and copper mineralisation outlined remains open along strike.

# Gascoyne Induced Polarisation (IP) survey



- A deeper and larger chargeable zone indicated from the IP dipole-dipole data.
- Further investigation with additional IP surveys planned.
- Two-dimensional modelling suggests that this zone lies below 100 m depth.

# Regolith/Geology Interpretation - Gossan Zones



- Iron/manganese-stained outcrops identified.
- These are significant and may prove to be gossanous have been identified by interpretation aerial photography data and confirmed by field visit.

# Gascoyne Proposed Exploration Works To Commence



- Systematic auger drill testing of thumbprint anomalies.
- Geophysical – IP surveys.
- Follow-up drilling of ore grade lead and copper intersections of 2.3% Pb and 0.9% Cu.
- Numerous thumbprint targets and a gravity anomaly outlined from previous exploration by BHP remain untested.
- Audalia's target is a Broken Hill sedimentary exhalative (SEDEX) massive sulphide lead, zinc and copper deposit.

# Why You Should Invest In Audalia Resources



- Medcalf Project with a 16 Mt historical resource averaging 0.8% vanadium and 12% titanium poised at position of initiating a scoping study to examine economics of the project.
- Gascoyne Project has potential for the discovery of a Company maker SEDEX massive sulphide lead zinc and copper deposit.
- Small, focussed and multi-faceted board with strong base metal technical team.

# Capital Structure

Stock Exchange	ASX
Issued Common Shares	80,160,001
Options	6,830,004
Fully Diluted Shares	86,990,005
Year trading range	\$0.10 - \$0.26
Current price at 4th April, 2012	\$0.23
Market Cap at 4th April, 2012	\$18,436,800



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