



GOLD, RARE EARTH ELEMENTS
& TECH METALS
ASX:ORM

James Canning-Ure
Managing Director

27th October 2010

ABN: 89 096 142 737



Orion Metals Ltd. Board



Andrew Gillies Director, Adrian Day Director ,David Barwick Chairman, James Canning-Ure Managing Director, Bill Lyne Company Secretary



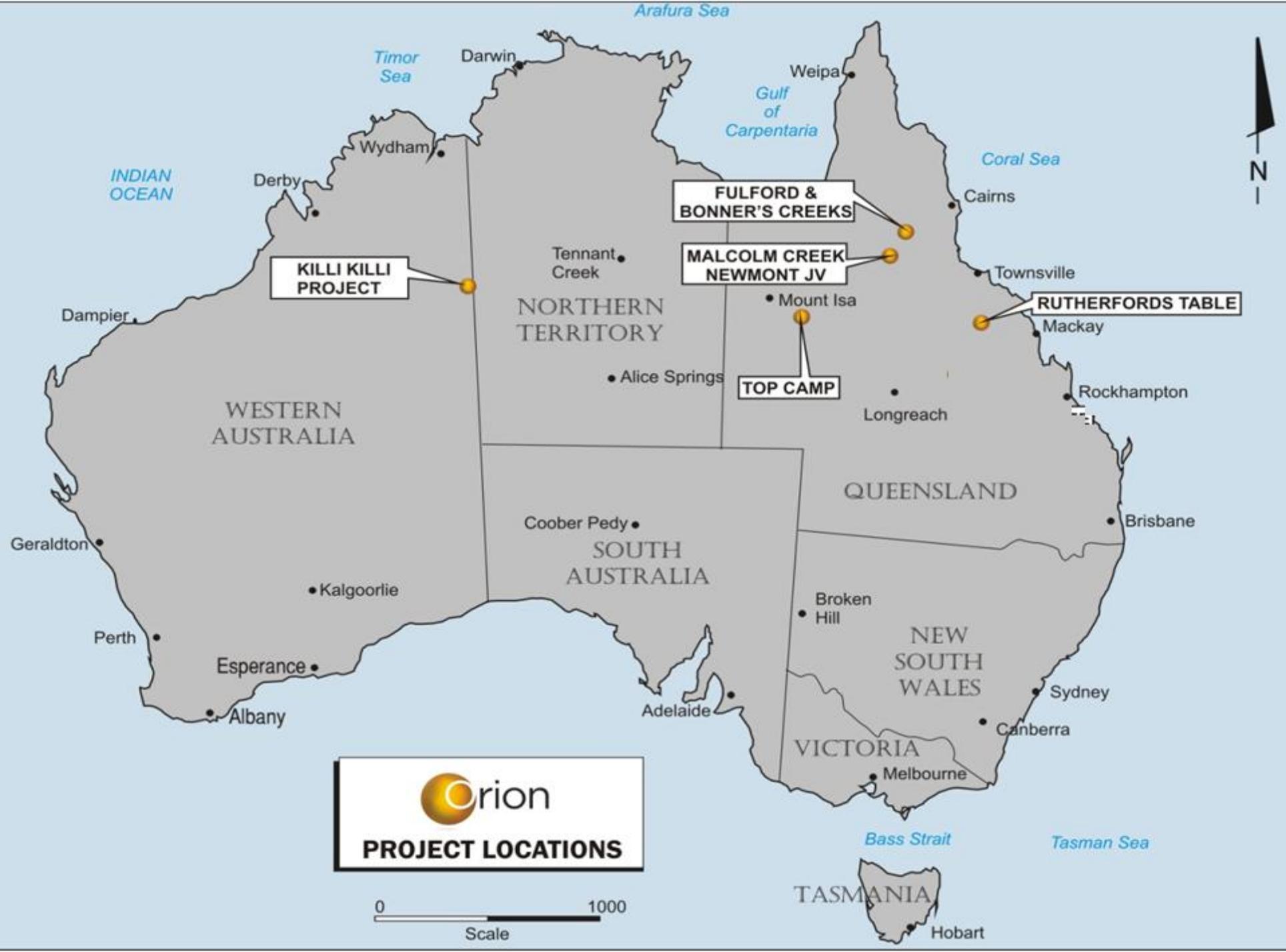
Corporate Overview

- **Shares on issue (ASX:ORM)**
 - 71,993,886 shares on issue
 - \$17.28 Million market capitalisation at 24 cents
- **Options on issue (ASX:ORMO)**
 - 7,695,728 options listed
 - Unlisted options 3.5M
- **Tight Shareholding**
 - Top 20 shareholders hold 74.6 % of listed Shares
 - Jien Mining (China) 15.44%
 - Metallica Minerals (ASX:MLM) 16.51 %
 - Conglin Yue (Conglin Group) 11.35%
 - Directors approximately 10%



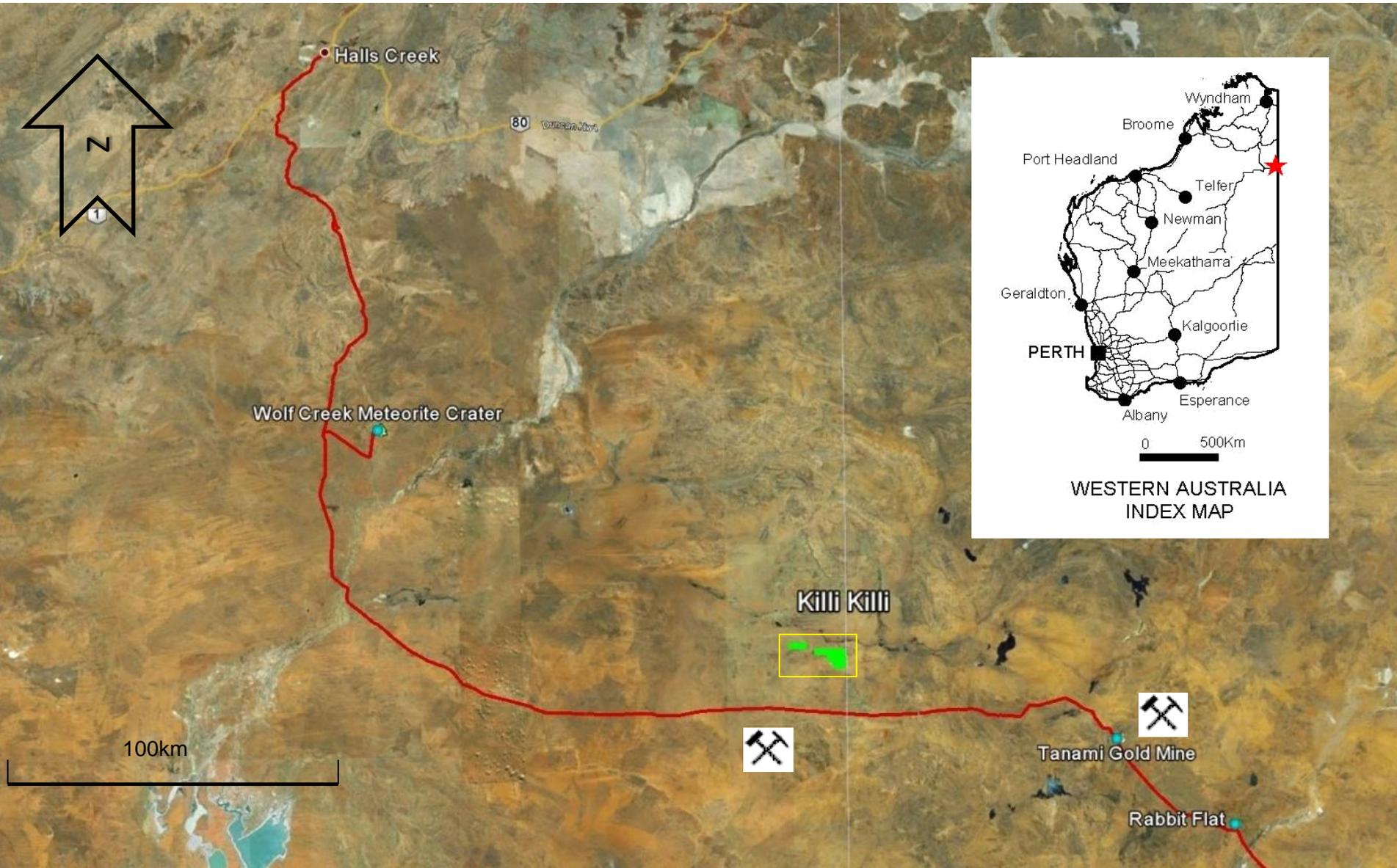
Exploration Strategy

- **Killi Killi HREE**
 - Highly prospective for REE, HREE, Gold and Uranium
 - 20 of 45 rock chip samples have 1%+ REE, Gold up to 9 g/t
 - 20% of REE are Heavy
 - On site exploration commencing next week
 - 35 RC drill holes planned at shallow depths
- **Top Camp gold**
 - Further drilling program for source of gold anomalies
 - Significant intercepts of magnetite with sporadic anomalous Cu & Au
- **REE (Bonner, Fulfords)**
 - 3 EPM's in North Qld
 - Monazite and Xenotime sources
 - High value / high demand Rare Earth Metals
- **Malcolms Creek gold**
 - Newmont JV
 - Drilling completed in September – assays due late November
- **Rutherfords gold**
 - Potential divestment of hard rock and alluvial gold tenements

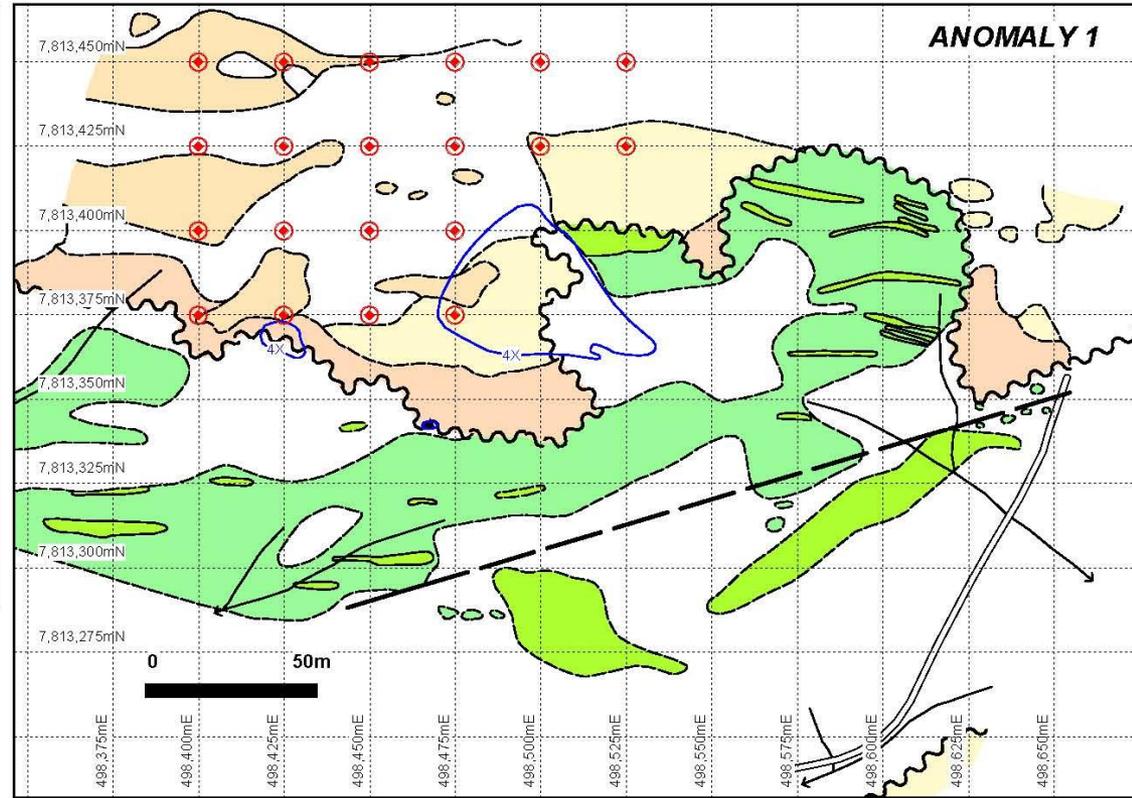
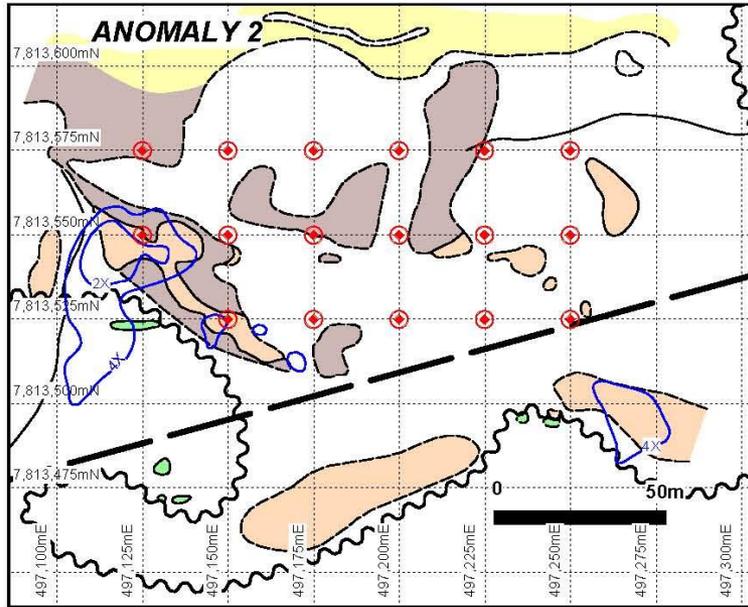




Killi Killi Hills location



Drilling November 2010



LEGEND

- Soil sand and rubble
- Micaceous sandstone
- Platey Maroon siltstone
- Cross bedded pebble conglomerate
- Silicified, gritty basal conglomerate, mineralised in places

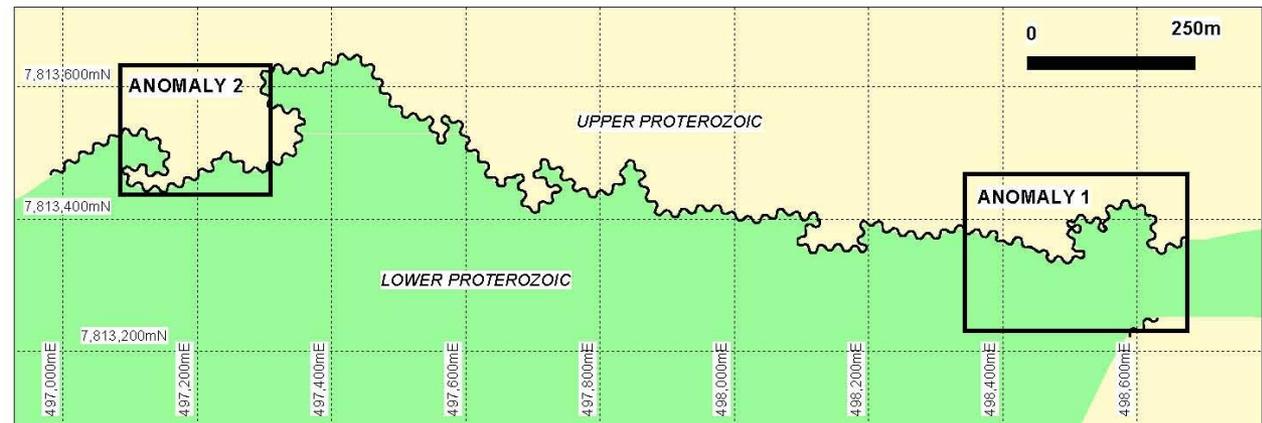
UPPER PROTEROZOIC

unconformity

- Greywacke and phyllite
- Massive quartzose greywacke

LOWER PROTEROZOIC

- Inferred fault
- Proposed Drill Hole
- Radiometric contours





Killi Killi Thorium hot spots

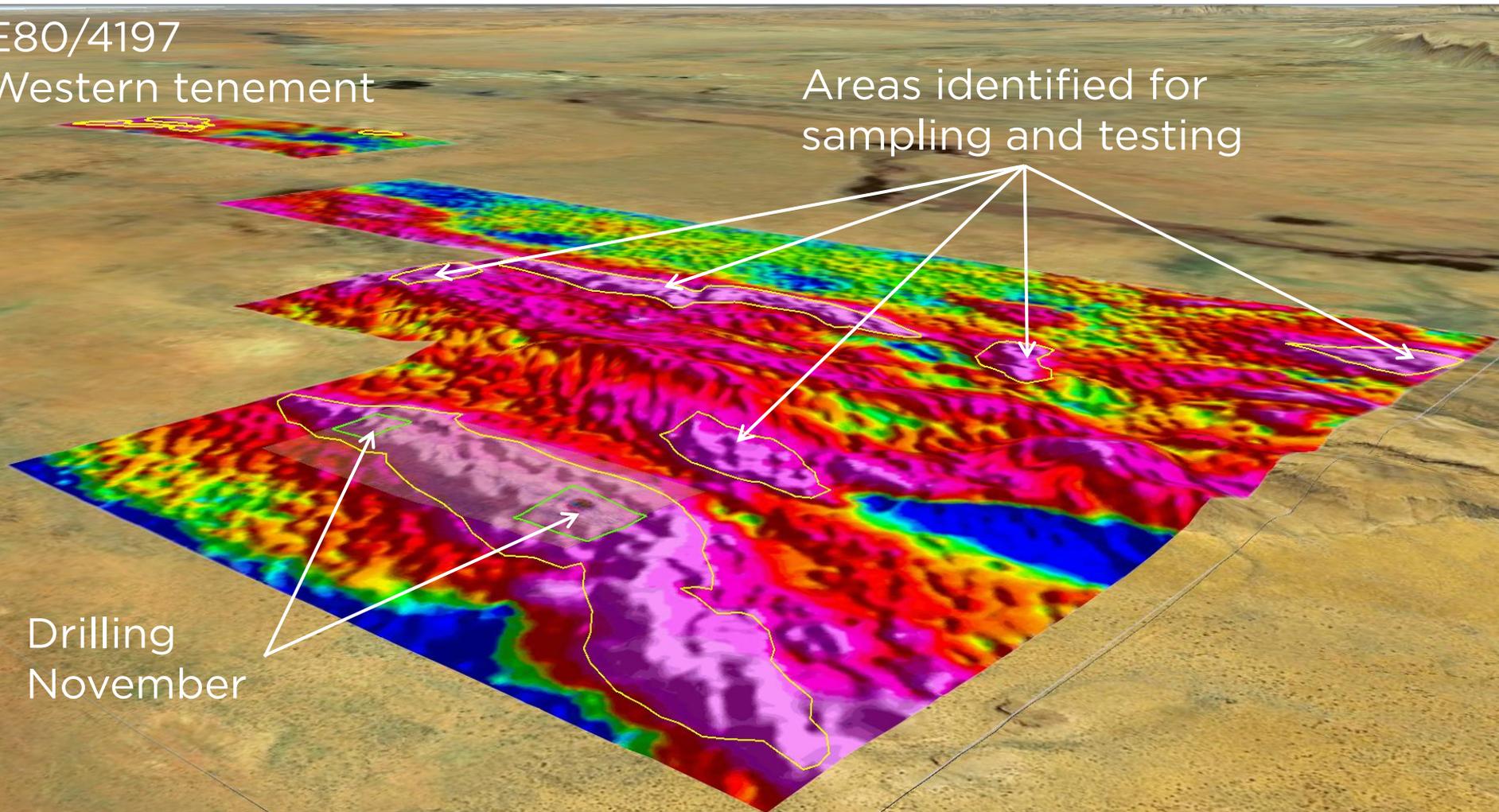
Eastern tenement E80/4029

E80/4197

Western tenement

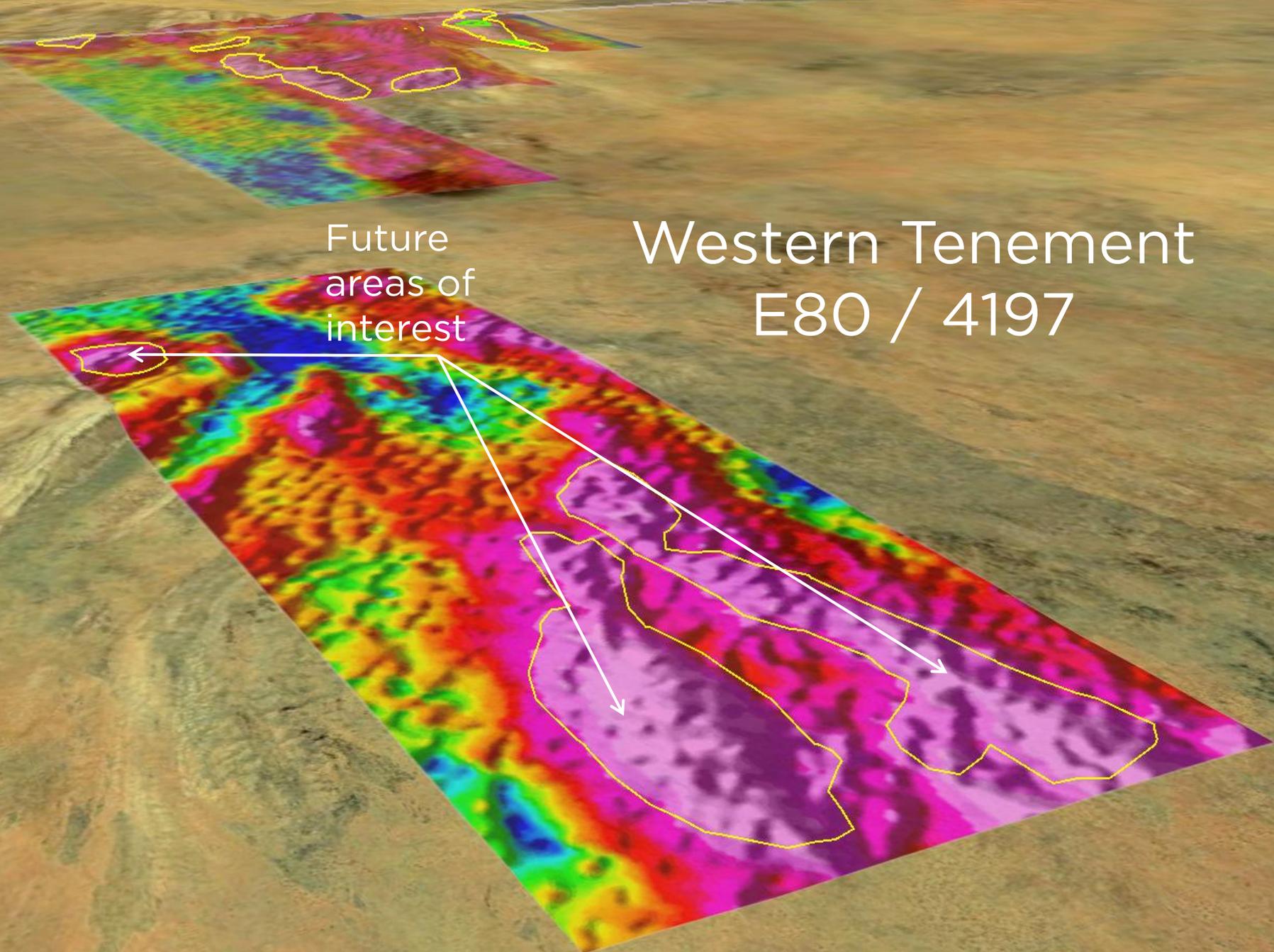
Areas identified for
sampling and testing

Drilling
November



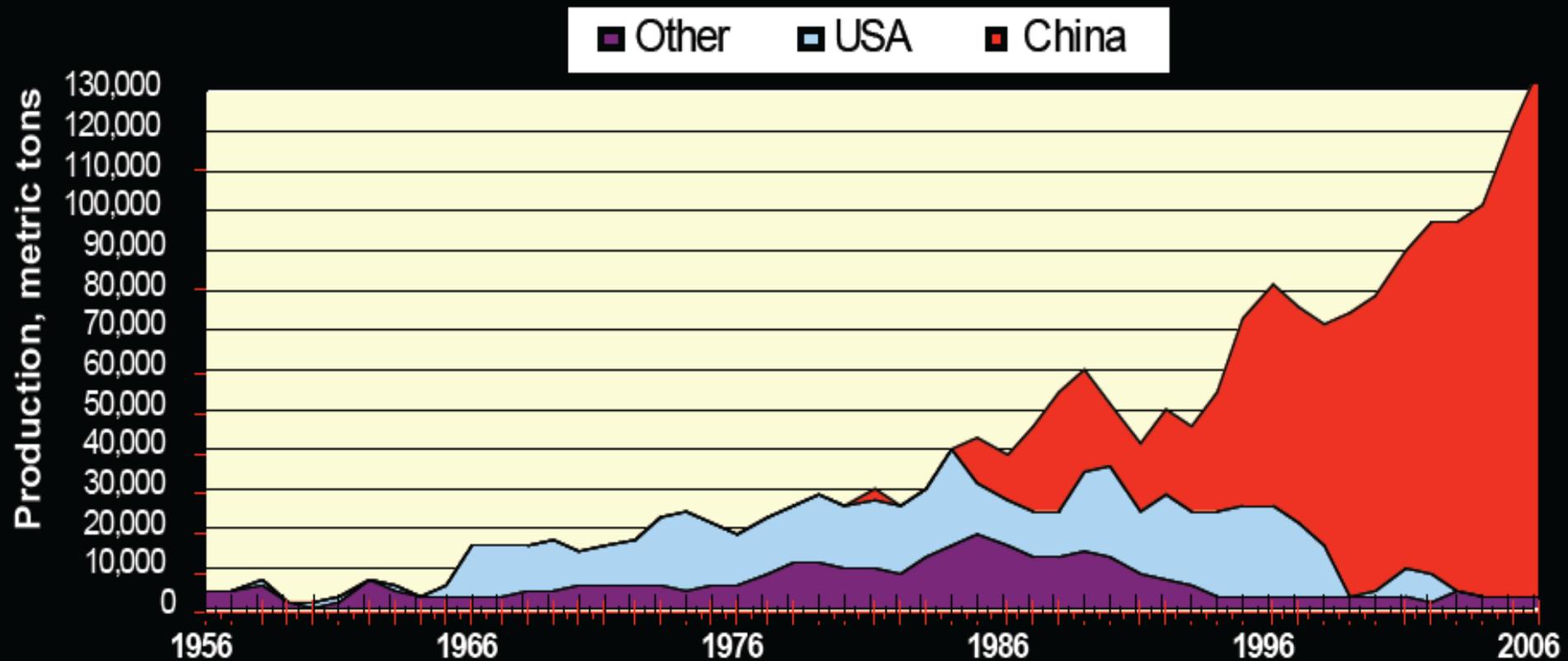
Western Tenement E80 / 4197

Future
areas of
interest





China dominates production 95- 97 % Worlds REE supply





Chinese chequers

Chinese Government Policy

- Strategic value of REO understood
- Mining quota of 74,680t
 - 2% increase vs. 2006
- Export quotas declining annually
 - -10% since 2004 - 43,600t in 2007
 - -13% to 38,000t in 2008
 - -16% to 31,888t in 2009
- Raising export tariffs to 15-25%
- Long-term domestic supply
 - for Chinese manufacturing
 - Force high tech to relocate
 - IP for REE play

Chinese Production Limits

- Largest REO mine Baotou
 - 50% of world supply
 - operating at capacity
 - REO is a by-product
 - Future ore selection forecast to result in lower REO grades
- Sichuan
 - Environmental issues
 - Underground mining
- Jiangxi, Guangdong, Hunan, Fujian
 - Fragile - over exploitation
 - Environmental issues
- Best portions of best deposits have been mined



Not all REE's are the same

- Two Completely Different Markets
 - Light & Heavy
- Light Rare Earths LREE
 - La, Ce, Nd, Sm - Polishing and Magnets
- Heavy Rare Earths HREE
 - Gd, Dy, Tb, Lu - Electronics and Magnets



REE APPLICATIONS

	Catalytic	Magnetic	Electrical	Chemical	Optical
Lanthanum (La)	✓		✓	✓	✓
Cerium (Ce)	✓		✓	✓	✓
Praseodymium (Pr)		✓	✓	✓	✓
Neodymium (Nd)	✓	✓	✓		✓
Europium (Eu)					✓
Gadolinium (Gd)		✓			✓
Terbium (Tb)		✓			✓
Dysprosium (Dy)		✓			✓
Yttrium (Y)					✓

Scandium (Sc) and Yttrium (Y) are key for Solid Oxide Fuel Cells



Supply Rare Earth Oxides (tonnes)

Byron Capital Markets, March (2010)



Oversupply	2010	2011	2012	2013	2014	2015	% 2015
La ₂ O ₃	1,119	3,142	11,384	10,875	13,233	15,455	27%
CeO ₂	2,129	5,791	19,311	18,304	23,348	26,508	25%
Pr ₆ O ₁₁	241	359	1,225	728	912	741	6%
Nd ₂ O ₃	718	1,198	3,666	2,026	2,812	2,129	6%
Sm ₂ O ₃	69	225	486	402	758	828	23%
Eu ₂ O ₃	8	40	70	56	106	99	23%
Tb ₄ O ₇	8	1	1	(16)	15	16	4%
Dy ₂ O ₃	45	(42)	(95)	(217)	(626)	(848)	-7%



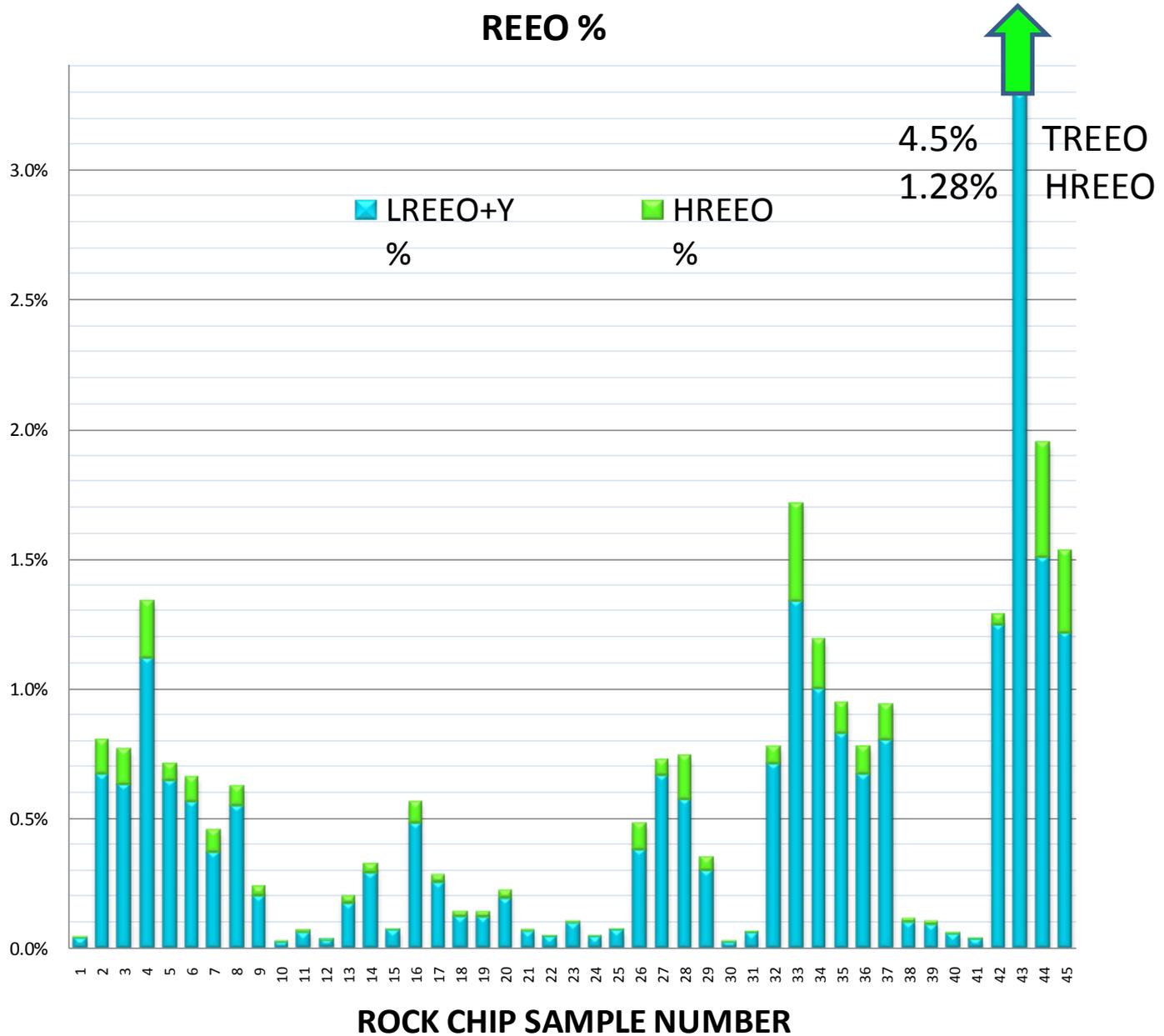
Killi Killi Rock Chip Samples

REE g/t

SAMPLE	LREE grams per tonne					HREE grams per tonne								
	Y	La	Ce	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
KK02	1,840	314	1,064	1,818	458	53	357	54	318	63	177	20	107	13
KK03	1,927	259	967	1,550	450	53	355	54	325	65	186	22	116	14
KK04	3,038	517	1,898	3,050	702	74	533	85	524	105	312	37	204	25
KK05	943	432	1,490	2,069	400	33	186	25	146	30	94	12	66	8
KK06	1,423	320	1,046	1,497	348	38	263	40	235	47	131	15	77	9
KK07	1,151	348	1,119	1,668	364	36	241	35	201	39	111	12	67	8
KK08	835	390	1,285	1,703	313	30	193	29	173	36	107	13	78	9
KK16	1,069	324	1,015	1,279	280	28	181	28	182	39	125	16	93	11
KK27	444	677	1,860	2,120	449	44	225	27	111	20	50	7	38	4
KK28	1,572	335	755	1,586	441	54	426	71	431	88	213	28	152	19
KK32	721	875	1,926	2,039	351	32	179	25	143	32	85	13	76	9
KK33	2,832	824	1,935	4,325	1,179	164	1,084	167	929	178	413	51	260	30
KK34	1,417	990	1,740	3,495	726	69	437	69	432	94	249	37	207	25
KK35	1,000	846	2,171	2,400	441	41	248	42	275	63	176	27	161	20
KK36	896	858	1,426	2,009	364	38	237	38	253	57	161	24	137	18
KK37	1,296	527	1,443	2,676	734	85	465	61	294	54	121	15	82	9
KK42	439	1,290	4,350	3,930	373	27	188	21	80	14	38	3	13	2
KK43	20,600	767	2,290	1,710	916	224	2,060	461	3,460	781	2,140	294	1,560	218
KK44	7,190	508	1,885	1,990	607	96	807	154	1,090	251	719	99	555	79
KK45	4,810	499	1,850	2,210	534	74	568	118	766	169	508	71	423	56

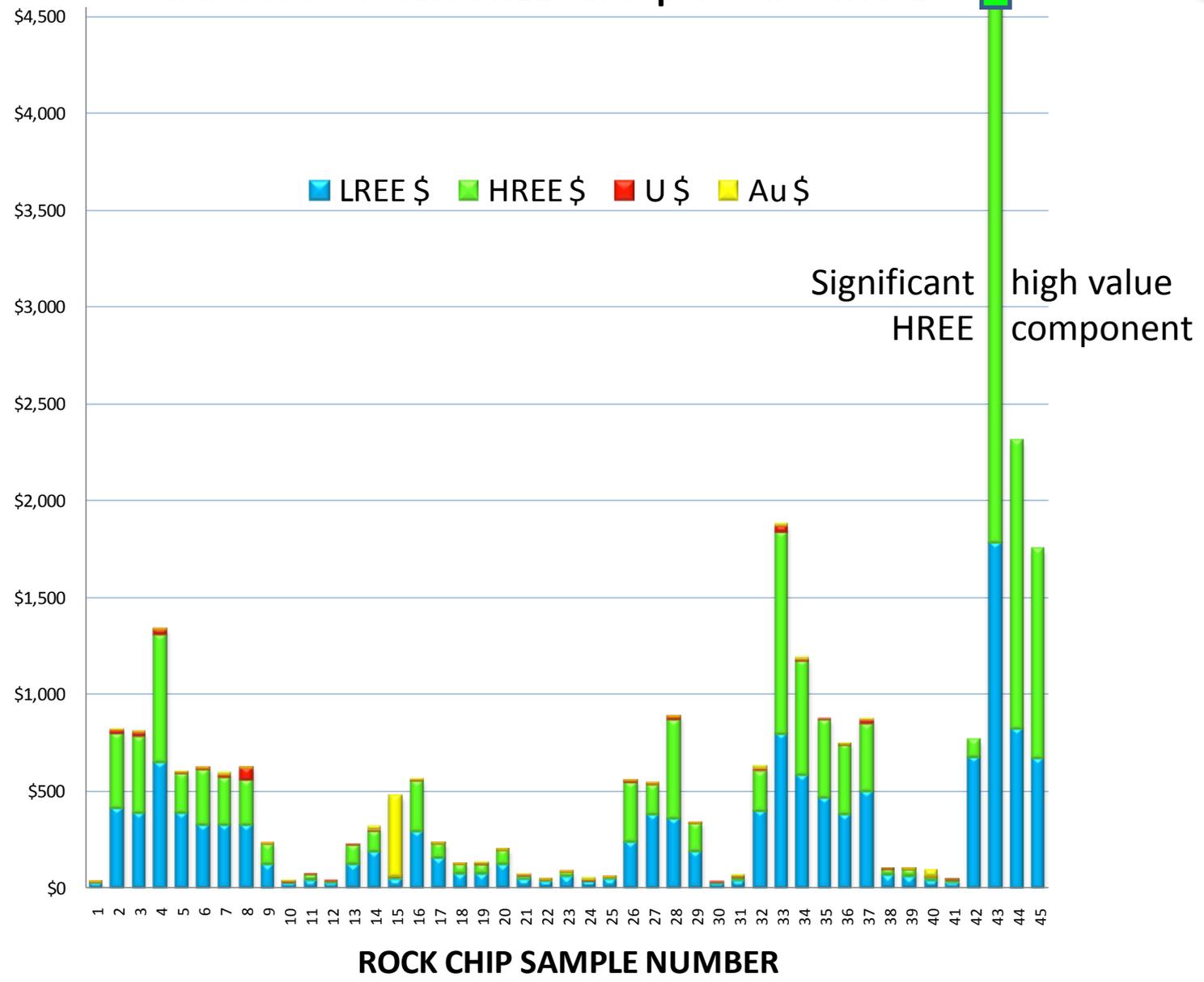
KILLI KILLI HILLS WA ROCK SAMPLES

REEO %



KILLI KILLI HILLS WA ROCK SAMPLES

Indicative contained REE value per tonne in AUD





Summary

- Emerging HREE player – with Killi Killi
- MLM, Jilin & Conglin shareholders
- Killi Killi Hills drilling program
 - Delayed by rain start next week
 - Expect assay results December 2010
- HREE, REE and gold acquisition
- Divest/non-core projects
- \$ 18 mill market cap, Cash \$ 3.8 Mill



Thank You

- Statements and material contained in this Presentation, particularly those regarding possible or assumed future performance, commodity prices, resources or potential growth of Orion Metals Limited (Orion), industry growth or other trend projections are, or may be, ***forward looking statements***. Such statements relate to future events and expectations and, as such, involve known and unknown risks and uncertainties.
- Orion is at an early exploration stage and although reasonable care has been taken to ensure that the facts stated in this presentation are accurate and or that the opinions expressed are fair and reasonable, no reliance can be placed for any purpose whatsoever on the information contained in this document or on its completeness.
- Actual results and developments may differ materially from those expressed or implied by these forward looking statements depending on a variety of factors.
- Nothing in this presentation should be construed as either an offer to sell or a solicitation of an offer to buy or sell shares in any jurisdiction.
- In accordance with Listing Rules 5.1 and 5.12 of the Australian Securities Exchange technical information contained in this report has been compiled by Mr. Adrian Day BSc (Geology), MAIG, MSEG, MGSA who is a competent person and member of the Australasian Institute of Geoscientists. Mr Day has relevant experience to the mineralisation being reported on to qualify as a Competent Person as defined by the Australasian Code for Reporting of Minerals Resources and Reserves. Mr Day is a non-executive Director of Orion Metals Limited and part-time consultant to the company. He consents to the inclusion in the report of the matters based on the information in the form and context in which it appears.