

INVESTOR PRESENTATION



Fortune Mojapelo
Chief Executive Officer
November 2015



Disclaimer



These presentation slides and any other material provided with these slides (the "Presentation Materials") do not comprise an admission document, listing particulars or a prospectus relating to Bushveld Minerals (the "Company") or any subsidiary of the Company, do not constitute an offer or invitation to purchase or subscribe for any securities of the Company and should not be relied on in connection with a decision to purchase or subscribe for any such securities. The Presentation Materials and the accompanying verbal presentation do not constitute a recommendation regarding any decision to sell or purchase securities in the Company.

The Presentation Materials and the accompanying verbal presentation are confidential and the Presentation Materials are being supplied to you solely for your information and may not be reproduced or distributed to any other person or published, in whole or in part, for any purpose. No reliance may be placed for any purpose whatsoever on the information contained in the Presentation Materials and the accompanying verbal presentation or the completeness or accuracy of such information. No representation or warranty, express or implied, is given by or on behalf of the Company or its respective shareholders, directors, officers or employees or any other person as to the accuracy or completeness of the information or opinions contained in the Presentation Materials and the accompanying verbal presentation, and no liability is accepted for any such information or opinions (including in the case of negligence, but excluding any liability for fraud).

The Presentation Materials contain forward-looking statements, which relate, inter alia, to the Company's proposed strategy, plans and objectives. Such forward-looking statements involve known and unknown risks, uncertainties and other important factors beyond the control of the Company that could cause the actual performance or achievements of the Company to be materially different from such forward-looking statements. Accordingly, you should not rely on any forward-looking statements and the Company accepts no obligation to disseminate any updates or revisions to such forward-looking statements.

The Presentation Materials and their contents are directed only at persons in the United Kingdom who are "qualified investors" within the meaning of section 86(7) of the Financial Services and Markets Act 2000 ("FSMA") and who fall within the exemptions contained in Articles 19 and 49 of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (such as persons who are authorised or exempt persons within the meaning of FSMA and certain other persons having professional experience relating to investments, high net worth companies, unincorporated associations or partnerships and the trustees of high value trusts) and persons to whom distribution may otherwise lawfully be made. Any investment, investment activity or controlled activity to which the Presentation Materials relate is available only to such persons and will be engaged in only with such persons. Persons of any other description, including those that do not have professional experience in matters relating to investments, should not rely or act upon the Presentation Materials.

The Presentation Materials should not be distributed, published, reproduced or otherwise made available in whole or in part by recipients to any other person and, in particular, should not be distributed to persons with an address in the Republic of South Africa, the Republic of Ireland, Australia or Japan or in any other country outside the United Kingdom where such distribution may lead to a breach of any legal or regulatory requirement. No securities commission or similar authority in Canada has in any way passed on the merits of the securities offered hereunder and any representation to the contrary is an offence. No document in relation to the Company's securities has been, or will be, lodged with, or registered by, The Australian Securities and Investments Commission, and no registration statement has been, or will be, filed with the Japanese Ministry of Finance in relation to the Company's securities. Accordingly, subject to certain exceptions, the Company's securities may not, directly or indirectly, be offered or sold within Australia, Japan, South Africa or the Republic of Ireland or offered or sold to a resident of Australia, Japan, South Africa or the Republic of Ireland.

Neither this presentation nor any copy of it may be taken or released or distributed or published, directly or indirectly, in the United States of America (the "United States"). The material set out in the presentation is for information purposes only and is not intended, and shall not be construed, as an offer for securities for sale in the United States or any other jurisdiction.

The securities contemplated in these slides (the "Securities") have not been, and will not be, registered under the United States Securities Act of 1933, as amended (the "US Securities Act") or with any securities regulatory authority of any state or other jurisdiction of the United States and may not be offered or sold within the United States or to, or for the account or benefit of, any US Person as that term is defined in Regulation S under the US Securities Act except pursuant to an exemption from or in a transaction not subject to the registration requirements of the applicable securities legislation. The Company has not been registered and will not register under the United States Investment Company Act of 1940, as amended.

The Presentation Materials and their contents are confidential and should not unless otherwise agreed in writing by the Company be copied, distributed, published or reproduced (in whole or in part) or disclosed by recipients to any other person.

About us



- Junior exploration and development company
 - vanadium
 - tin
 - coal
- AIM-listed
- South Africa-focused asset base
- Empowered

Share price performance: three months



Chart by London South East

Share information

Ticker	BMN
Number of ordinary shares in issue	485,770,000
Share price*	3.15 p
Market capitalisation	£15.30M

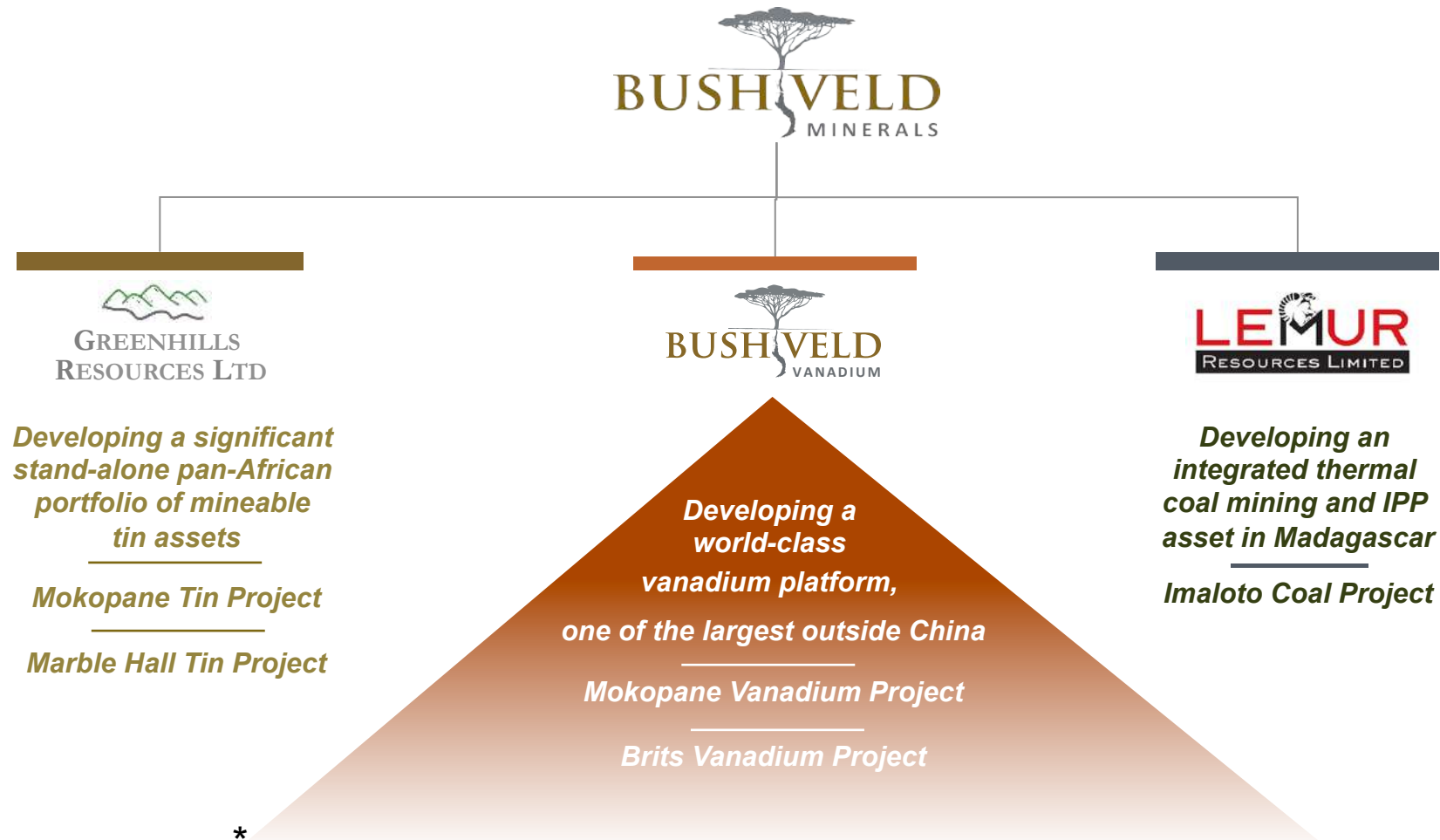
Top shareholders	Shares held	%
Acacia Resources Limited	99,340,000	20.4
Halifax Share Dealing	43,284,974	8.9
Mr Nicholas John Mallett	37,750,000	7.8
Hargreaves Lansdown Asset Management	36,777,121	7.6
Barclays Wealth Management (UK)	25,929,068	5.3
RiverRidge Ltd	25,000,000	5.1
Directors/Management	13,616,667	2.8
Total	281,697,830	57.9

*As at 10 November 2015

Emerging structure



Strategic shift to vanadium:
Bushveld Vanadium Resources (BVR)



Our people



Ian Watson

Non-executive Chairman

Mining engineer; 45 years' experience; Goldfields South Africa, Northam, Platmin, International Ferro Metals, Shaft Sinkers



Fortune Mojapelo

Chief Executive Officer

B.Sc (Actuarial Science), UCT; mining entrepreneur; strong track record in resource exploration, development in Africa; co-founder, director, VM Investment Company (Pty) Ltd



Geoff Sproule

Finance Director

Chartered accountant; 40 years' experience; former partner, Deloitte and Touche South Africa



Anthony Viljoen

Non-executive Director

Bachelor of Business and Agricultural Economics, University of Natal; post-graduate diploma in finance banking, investment management; mining entrepreneur, founding shareholder, director, VM Investment Company (Pty) Ltd

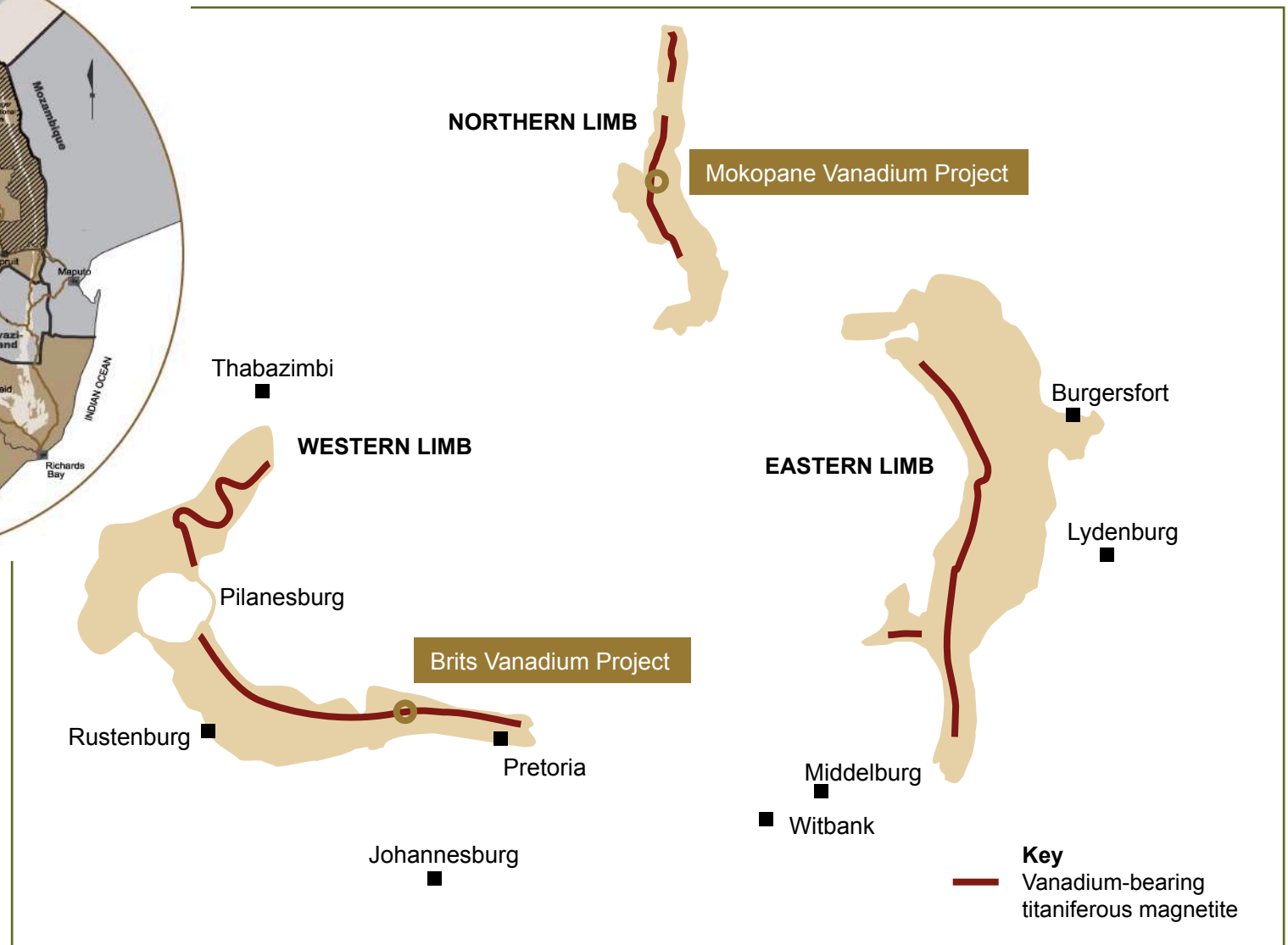
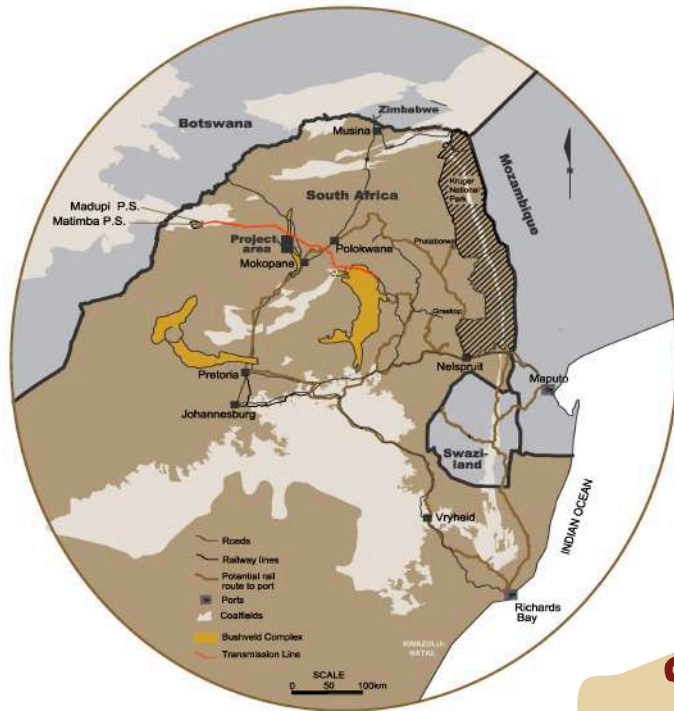


Jeremy Friedlander

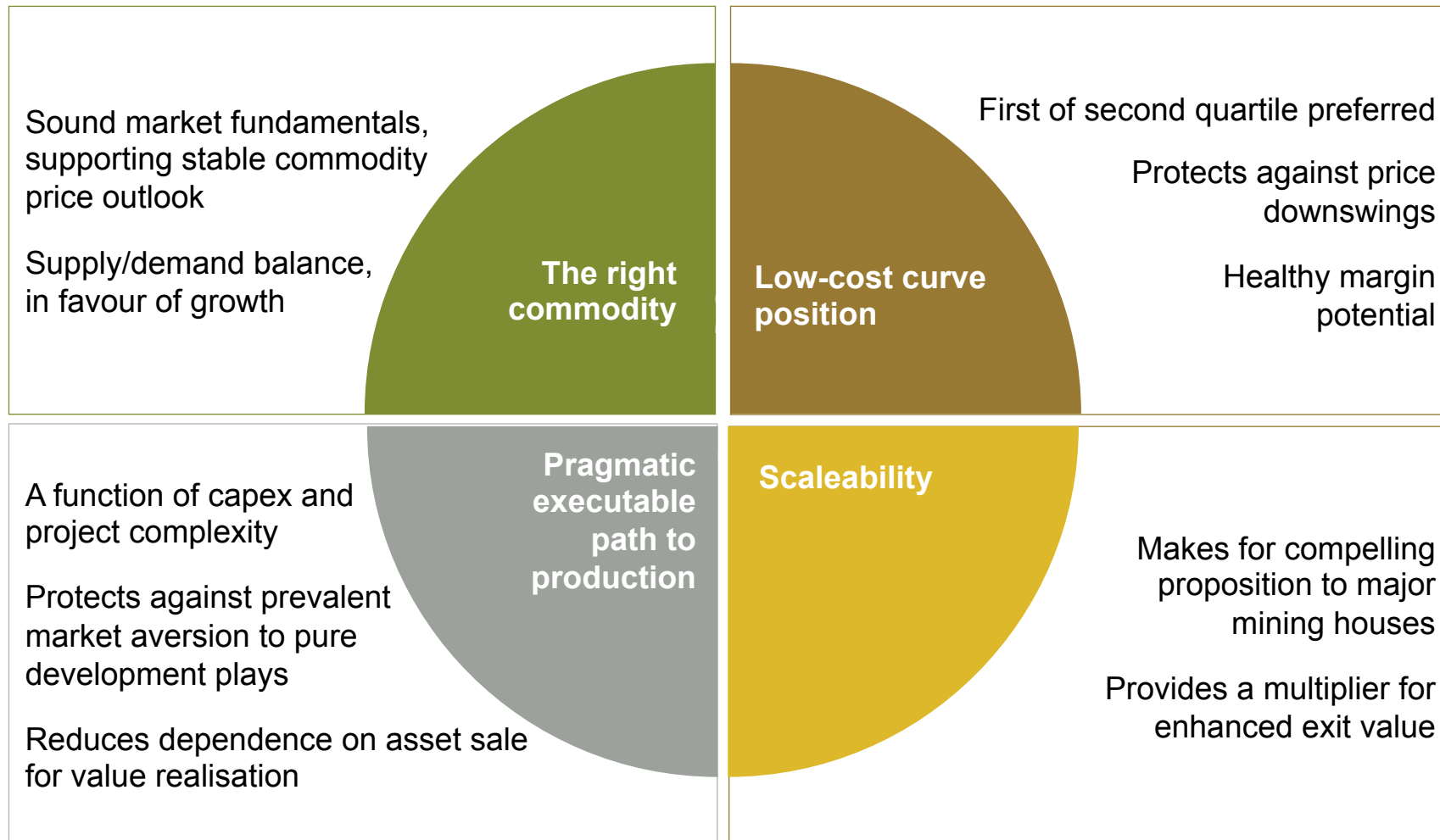
Non-executive Director

BA LLB, UCT; former Old Mutual legal advisor; founder of premier property group McCreeedy Friedlander; business development experience in uranium, coal, gold, industrial minerals, gas

Project locations



Four strategic principles



The right commodity – vanadium



- **Positive market outlook for vanadium**
- **Concentrated and limited supply growth profile provides support for price**
 - 67% of supply linked to co-product steel producers with strained economics: low margins, low iron ore price present significant threat to vanadium co-production
 - High-grade primary vanadium concentrated in South Africa
 - With a first quartile cost curve position, SA primary vanadium production is relatively protected in low price environment
 - At US\$3/lb SA based primary producers are in the lower first quartile of the cost curve.
- **Demand is solid and anticipated to outpace supply driven by**
 - Growth in steel sector:
 - on-going urbanisation in emerging markets
 - infrastructure build programmes in developed markets
 - regulation-driven increasing intensity of use of vanadium in steel production
 - Growing intensity of use of vanadium in steel sector
 - **Potential demand step-change from energy storage applications**
- **Forward looking price outlook positive, in spite of current low prices**
 - Cost curve suggests that current prices unsustainable
 - Current prices driven by very thin spot vanadium supply (10% of total supply vs a historic normal of ~40%)

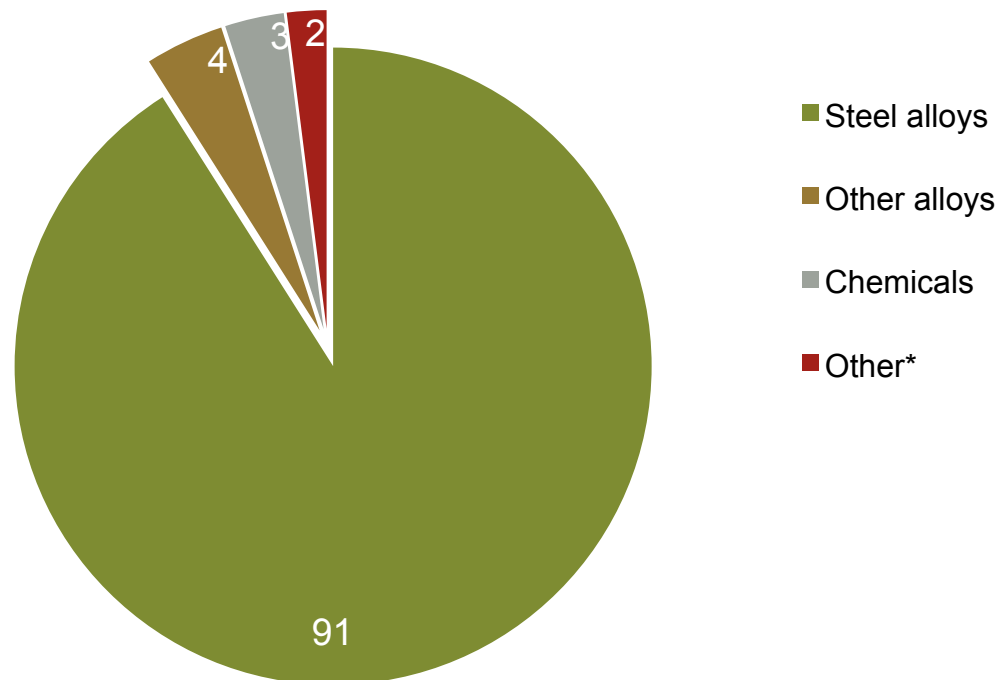
The right commodity – vanadium cont.



Demand anchored in steel sector where consumption outlook remains positive

- Around 0.2% vanadium content increases steel strength up to 100% and reduces weight up to 30%.
- The steel sector is forecast to keep growing
 - Global growth expected to have a muted growth of 1% p.a. through 2025
 - Growth in emerging markets to remain strong at >3% p.a

Global vanadium consumption
%, 2014



Source: CRU, Terry Perles/Atlantic Ltd.;
www.vanadiumcorp.com/tech/price;
SAMI, 2009; South Africa Mining Industry Business
Opportunities Handbook, 2013; USGS, 2014



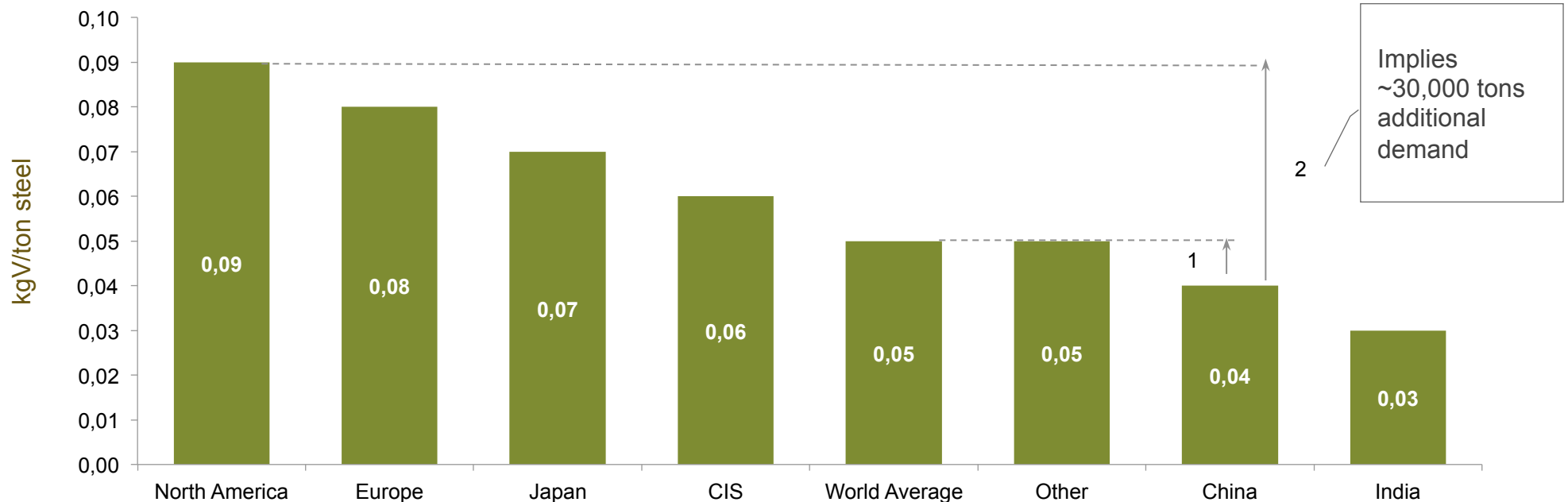
The right commodity – vanadium cont.

Demand anchored in steel sector where vanadium intensity of steel will lead to vanadium demand growth of ~4%, which is faster than that for steel

- Chinese and emerging markets vanadium intensity of use in steel lags
- Regulation driven shift to higher strength rebar driving up vanadium intensity of use in China
- Vanadium intensity in steel in Chinese and other emerging markets lags behind rest of the world, creating significant opportunity for higher vanadium demand
- China has already enacted regulation to shift to higher driving up its vanadium intensity

Vanadium intensity of steel among global regions

Kg vanadium per ton of steel





The right commodity – vanadium cont.

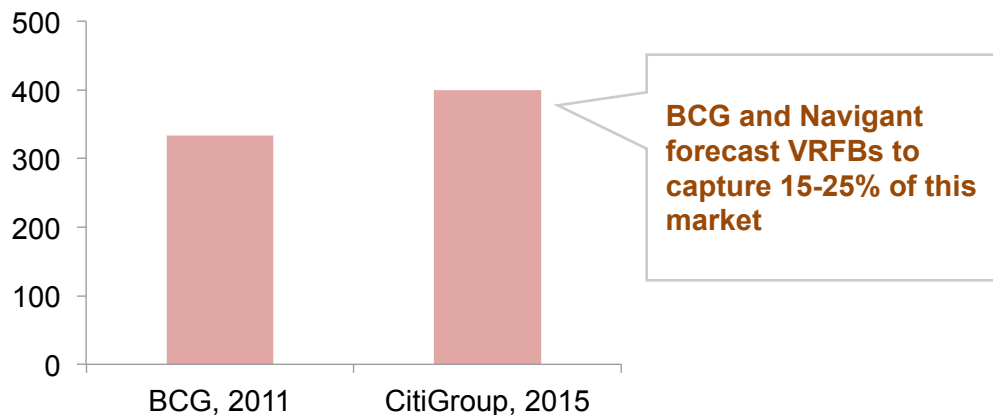
Significant demand upside from energy storage

Utility scale battery energy storage is a potential US \$350-400 Bn industry by 2030

- Utility scale energy storage has **a diverse set of applications** in the power sector, including peak demand shaving; storing electricity from solar PV for use at night; lowering system costs for micro grids and islands; reducing CAPEX and energy losses in transmission & distribution; balancing PV and wind intermittency; and regulating load frequency.
- **This presents significant opportunities for vanadium demand through vanadium redox flow batteries (VRFBs)**

Utility scale energy storage market forecast

USD billions (real) per annum by 2030



Source: EIA, IHS, 2013, SA IRP 2010 (revised 2013), CitiGroup, BCG, Navigant Research, McKinsey & Company

As a region, Africa offers a unique and immediate commercial & social opportunity for energy storage

- **~600 million people** live without electricity in Sub Saharan Africa and grids are too weak to support major industry
- **7,000MW**: new energy generation capacity required each year in Africa to sustain growth – only **1,000 MW** is created
- Africa's largest utility, SA's Eskom's **reserve margin deficiency** requires more energy storage
- Electricity **demand growth of 4.5% per annum** expected for the next 25 years
- Renewable programme in **South Africa is adding over 5 GW to the grid** and likely to allow for battery storage in Q2, 2016
- African off-grid mines and consumers are already paying **\$0.30-0.40/kWh**, which is much higher than the cost of storage

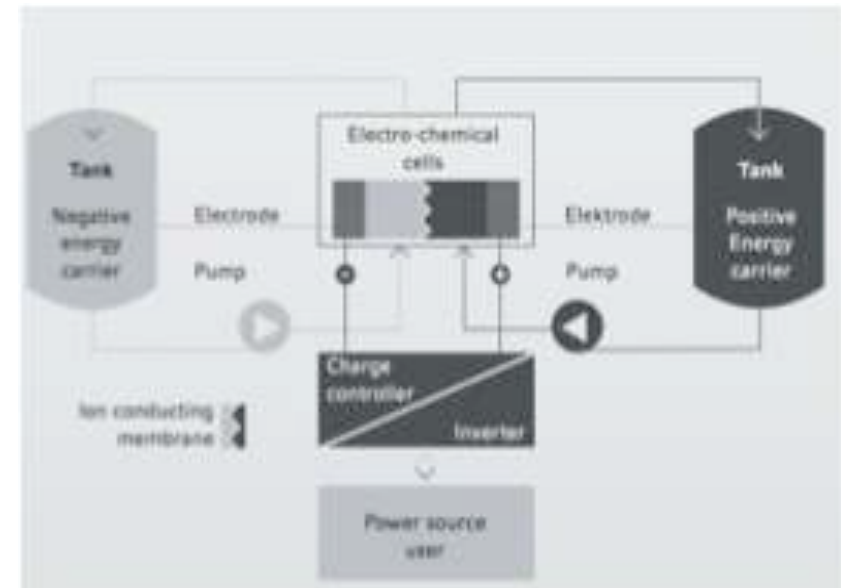


The right commodity – vanadium cont.

Significant demand upside from energy storage

Vanadium redox flow batteries have several features that make them ideal for utility scale, stationary energy storage applications:

- a) **Lifespan cycles** - able to charge and discharge repeatedly (>35,000 times) giving it a long (>20 years) lifespan
- b) Capacity for **100% discharge** without performance degradation is unique
- c) **Capacity** to store large quantities of energy and **scalable** up into the MW-range
- d) **Very fast response time (<70ms)**
- e) **Only one battery element** - therefore no cross-contamination – unique among flow batteries
- f) **100% of vanadium is reusable** upon decommissioning of the system



- VRFB employs vanadium ions in the different oxidation states to store and release chemical potential energy

The right commodity – vanadium cont.

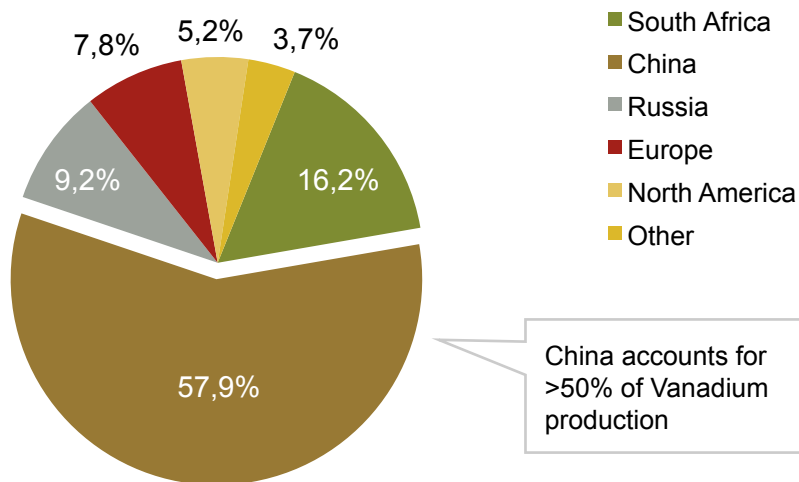
Supply is concentrate geographically, with some higher cost, slag producers in China most likely to exit



85% of vanadium production is concentrated in 3 countries, with 2/3rds as slag coproduced with iron ore

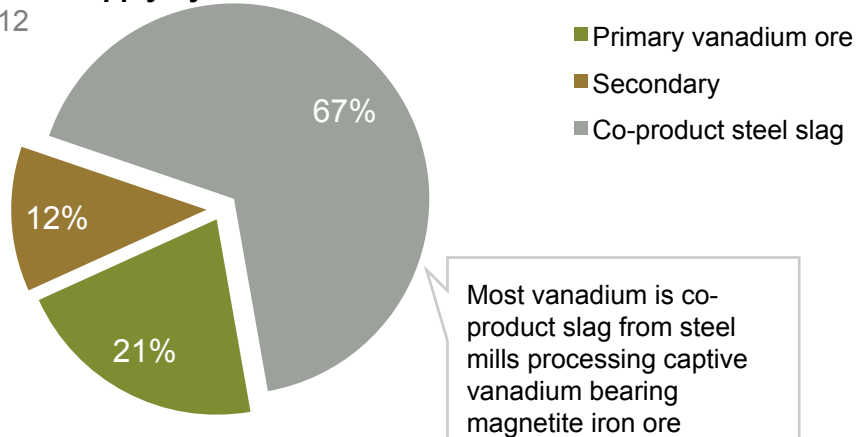
Global vanadium production

%, 2014 (100%=86,000MT)



Vanadium supply by raw material

%, 2012

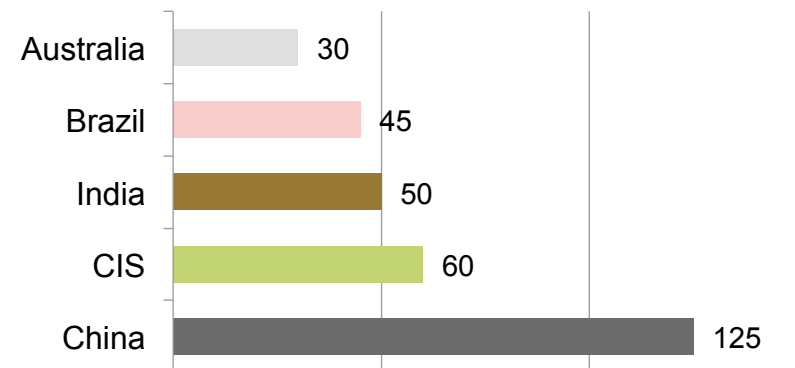


These producers are at risk, with decreased vanadium production likely

- The economics of coproducing iron ore and vanadium plants are primarily driven by iron ore/ steel
- Once the steel production is loss-making, the entire coproduction process becomes unsustainable (e.g. Highveld Steel & Vanadium)
- This is especially true in China
 - China has some of the highest iron ore costs (see chart below)
 - Coastal locations are expected to shut down in the short to medium term, taking up to 11% of vanadium off the market

Iron ore production costs

USD/ton, 2012



The right commodity – vanadium cont.

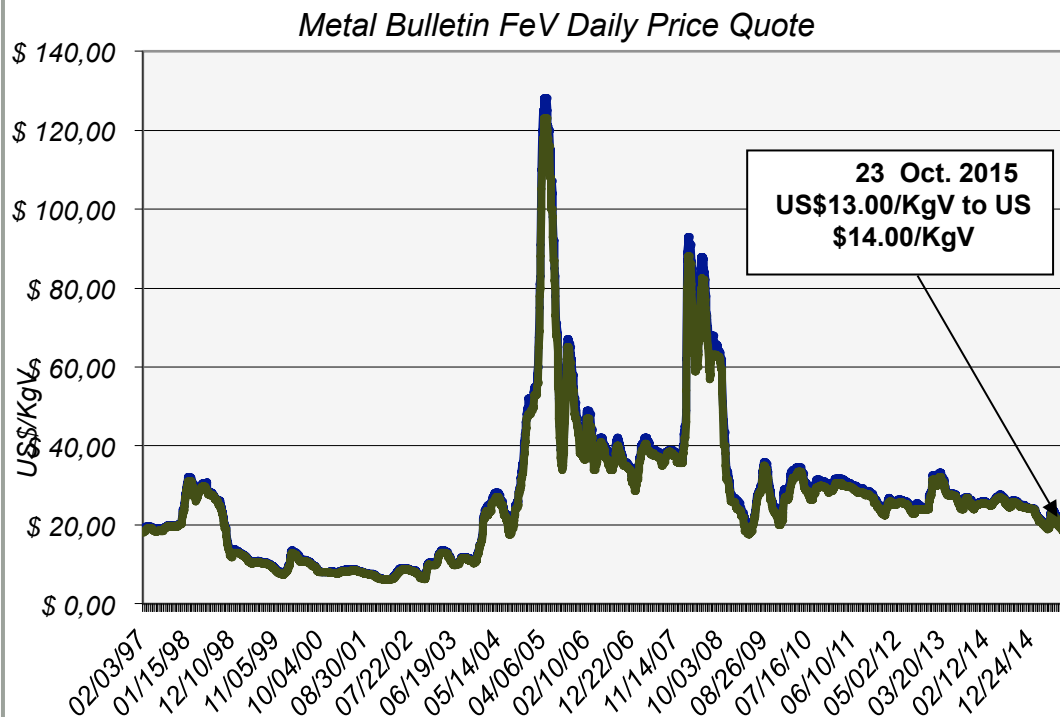


The vanadium market is at the bottom of its commodity cycle, making it an ideal investment opportunity

Although vanadium market prices are the lowest they have been for years...

FeV price history

USD / kgV, March 1997- October 2015



Source: TTP², MetalB Bulletin, 2015

...both supply and demand factors suggest a short to medium term rebalancing

1 Supply

- Vanadium supply is concentrated geographically, with ~85% located in China, South Africa and Russia
- Supply will likely decrease due to exit of Chinese vanadium slag producers
- Low probability of new entrants with production costs low enough for profitable operations

2 Demand

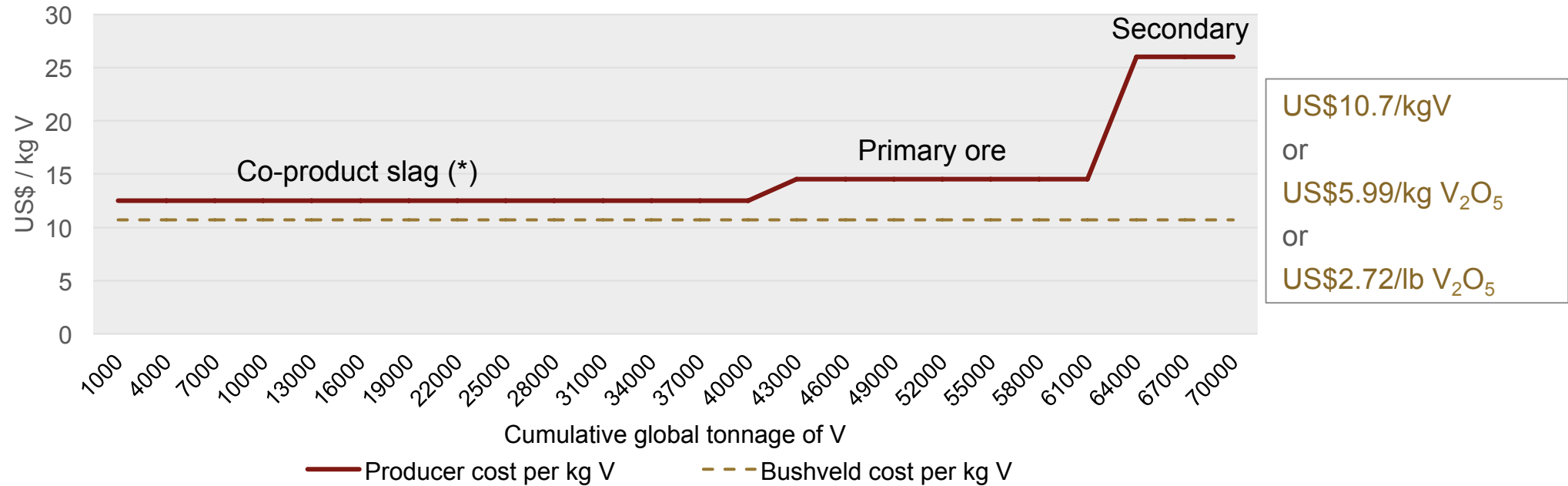
- Over 90% of Vanadium demand is anchored in steel for the construction and automotive sectors
- Vanadium intensity in construction steel in China and other developing market will lead to increased demand growth despite slowing steel demand
- Vanadium demand will diversify with increased use in utility scale energy storage, offering a potential step change in overall demand

The right commodity – vanadium cont.



Cash cost curve points to a higher V price than current levels

Vanadium industry cash cost curve (2012)



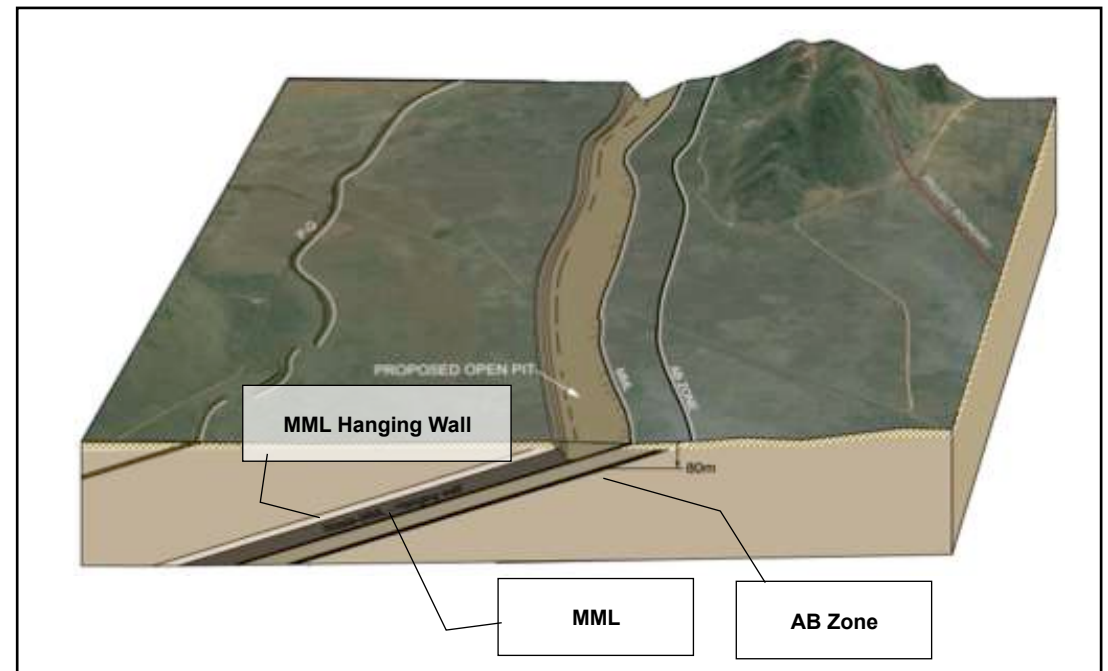
- *
 - Assumes co-product slag input cost of zero for the slag, not entirely correct
 - Production dependent on viability of steel operations, many of which are significantly constrained, being based on low grade ore feed
 - Co-product slag threatened by alternative low-cost sea-borne hematite iron ore feed



Low-cost curve position

Mokopane Vanadium Project

- **300 Mt** JORC resource
 - outcropping
 - defined on three adjacent and parallel layers (MML; MML Hanging Wall)
- **5.5 km** strike
- **High V₂O₅ grades**
 - in-situ: 1.48% V₂O₅
- **Low-cost**, established Salt Roast processing flowsheet with at least three existing operations using it
- US\$10.7/kgV/ US\$5.99/kg V₂O₅ operating cost in first quartile (Based on Mokopane Vanadium Project Scoping Study 2014)



Pragmatic executable path to production



- Proven Salt Roast process with several precedents existing in South Africa
- Well-developed mining region with sound mining supportive infrastructure
- Modest capex requirements
- Deep local talent pools for envisaged processing route
- Robust economics*: pre-tax
 - NPV_{10%} = US\$562m
 - pre-tax IRR = 35.6%
- Existing brownfields processing infrastructure in close proximity to projects

** Based on 2014 Mokopane Vanadium Project Scoping Study, pre-feasibility study currently underway*



Economics



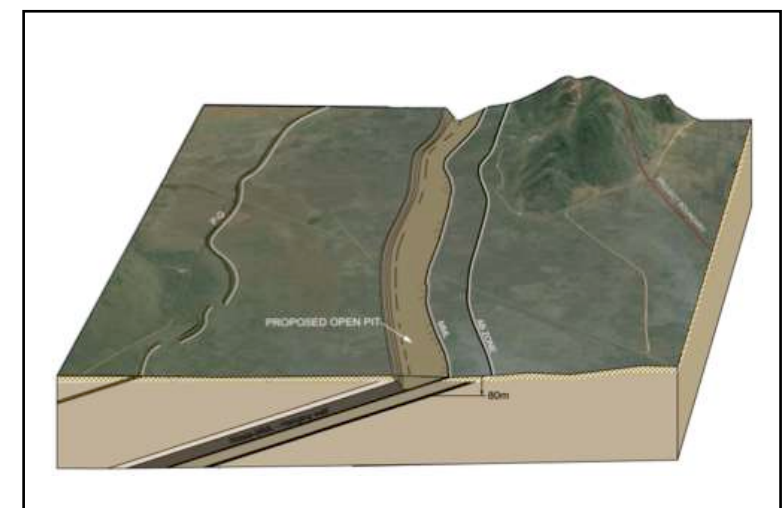
- Scoping study completed 2014, PFS underway
- Study undertaken on MML only (JORC-compliant 52Mt resource)
- Base case RoM of 1Mtpa to produce 10,350tpa V₂O₅ flakes product underscores viability of project
- Attractive operating costs: US\$5.99/kg or US\$2.72/lb of V₂O₅ produced
- Long-term V₂O₅ flakes price (US\$16.53/kg or US\$7.50/lb or US\$) utilised in study is approximately 8% lower than 10-year historical average price (June 2004 – June 2014)

Bushveld Vanadium Project – Salt Roast 1Mtpa ROM scenario			
Item		Unit	Value
Resource		Mt	52
Life of mine		Years	30
V ₂ O ₅ production		kt	10,350
Operating costs		US\$/kg V ₂ O ₅ flakes	5.99
		(US\$/lb V ₂ O ₅ flakes)	(2.72)
Capital costs	Initial	US\$m real	261.5
	Sustaining	US\$m pa	1.90
Cash flow		LOM US\$m real	1,612
			Pre-tax Post-tax
NPV @ 10% real		US\$m	561.9 263.6
IRR real		%	35.57 24.10
Payback (based on DCF) from start of mining		Years	4 years and 4 months

Scaleability



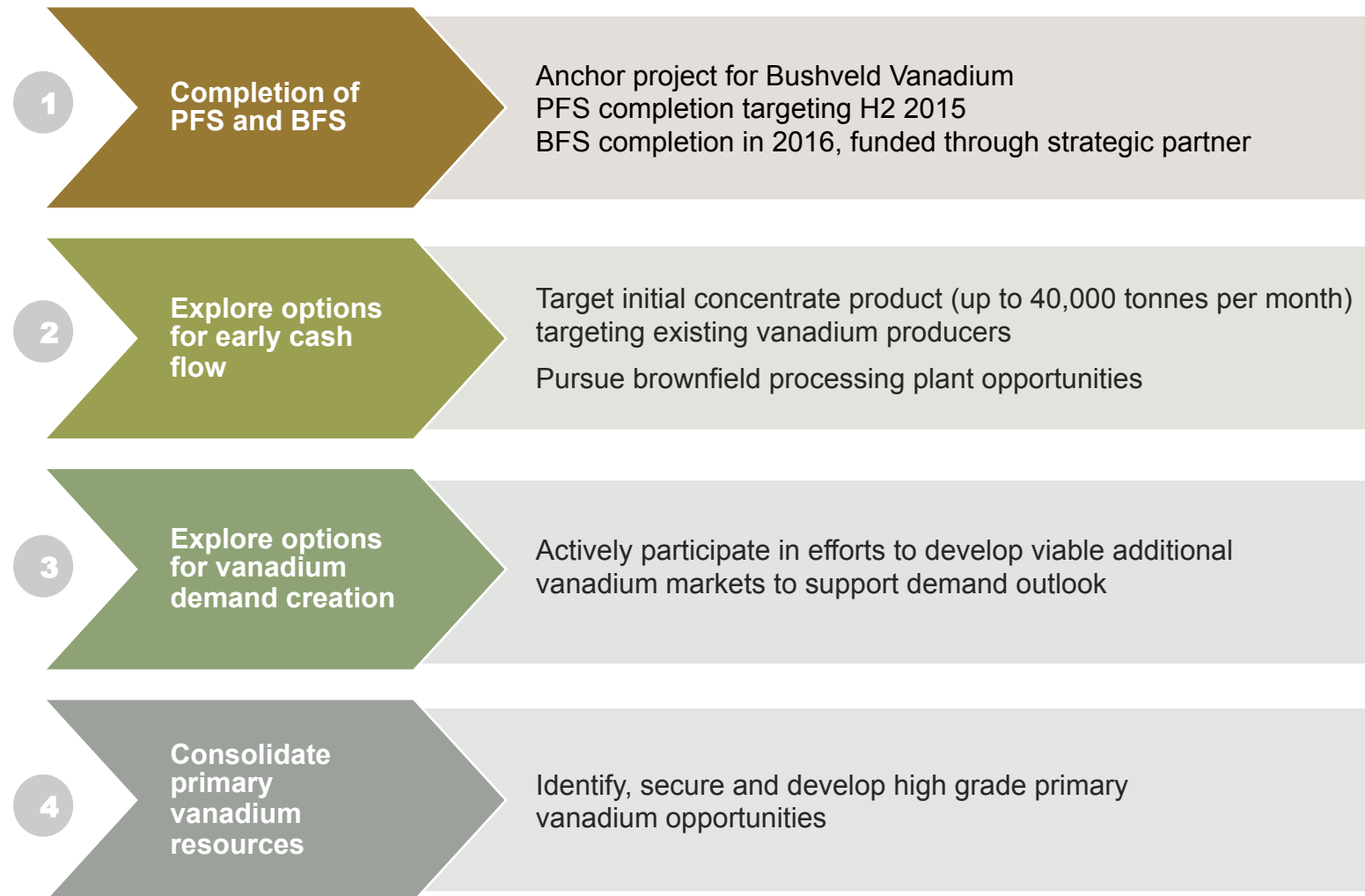
- Bushveld Complex well known for consistency, extent of mineralisation
- Scoping study, pre-feasibility study (PFS) based on only 10% of current resource
- Resource open-ended at depth and along strike
- Project designed to accommodate scale-up option
- Potential upside from monetising of 56% Fe calcine dump



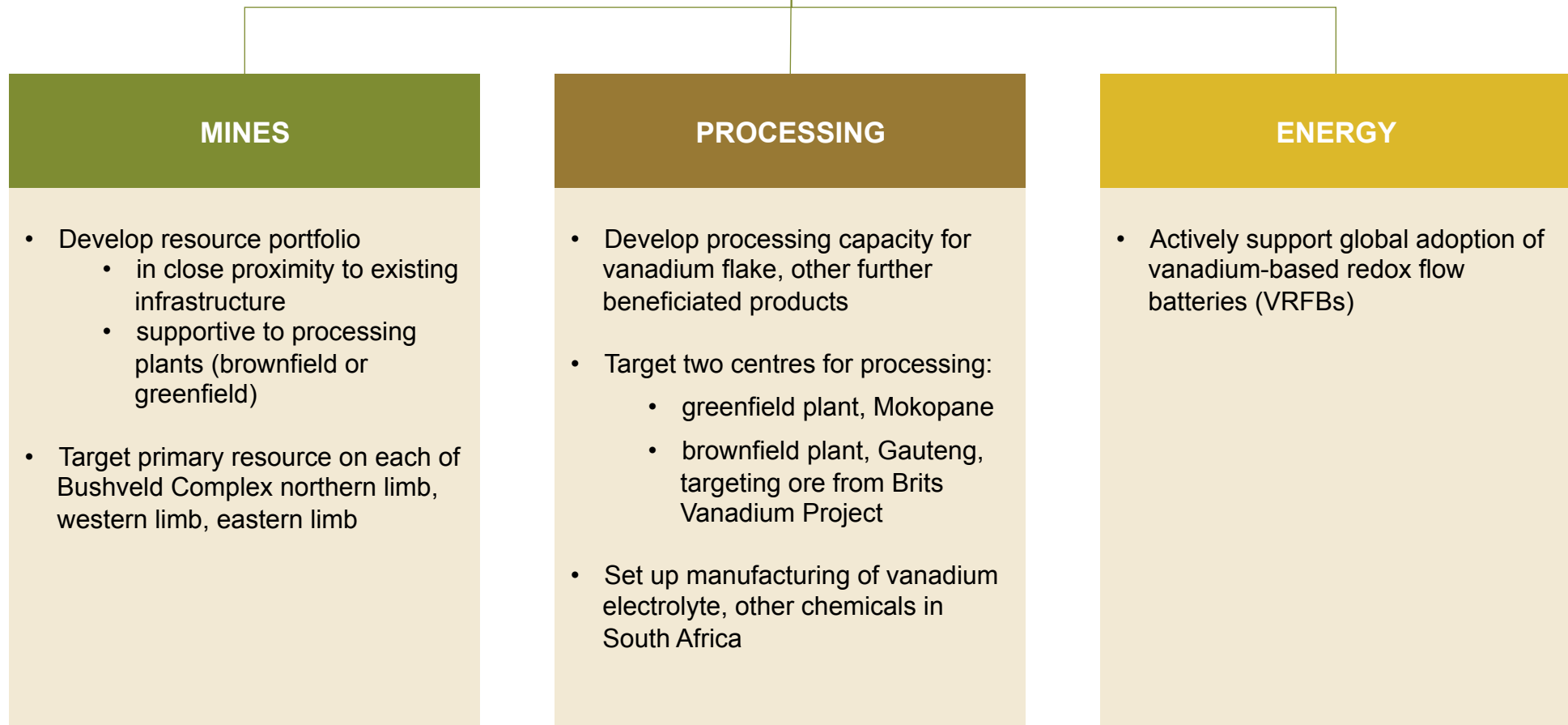
Bushveld vanadium priorities



Bushveld vanadium strategy pillars



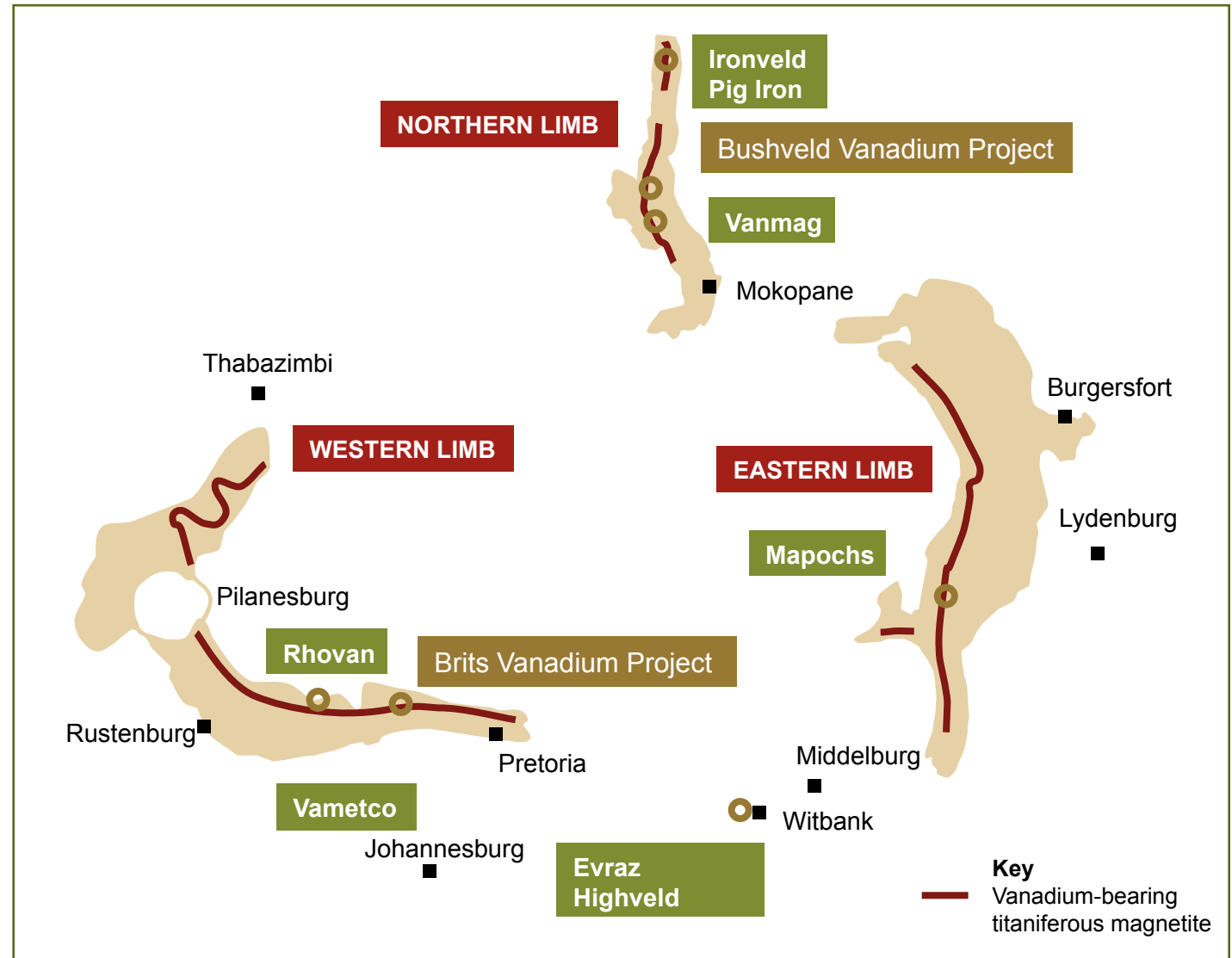
Bushveld vanadium priorities



Bushveld vanadium priorities - consolidation



- Consolidation objective:
 - establish high-grade vanadium deposits on all three limbs, in close proximity to logistics, processing infrastructure
- Extensive database developed
 - all Bushveld Complex vanadium-bearing mineralisations

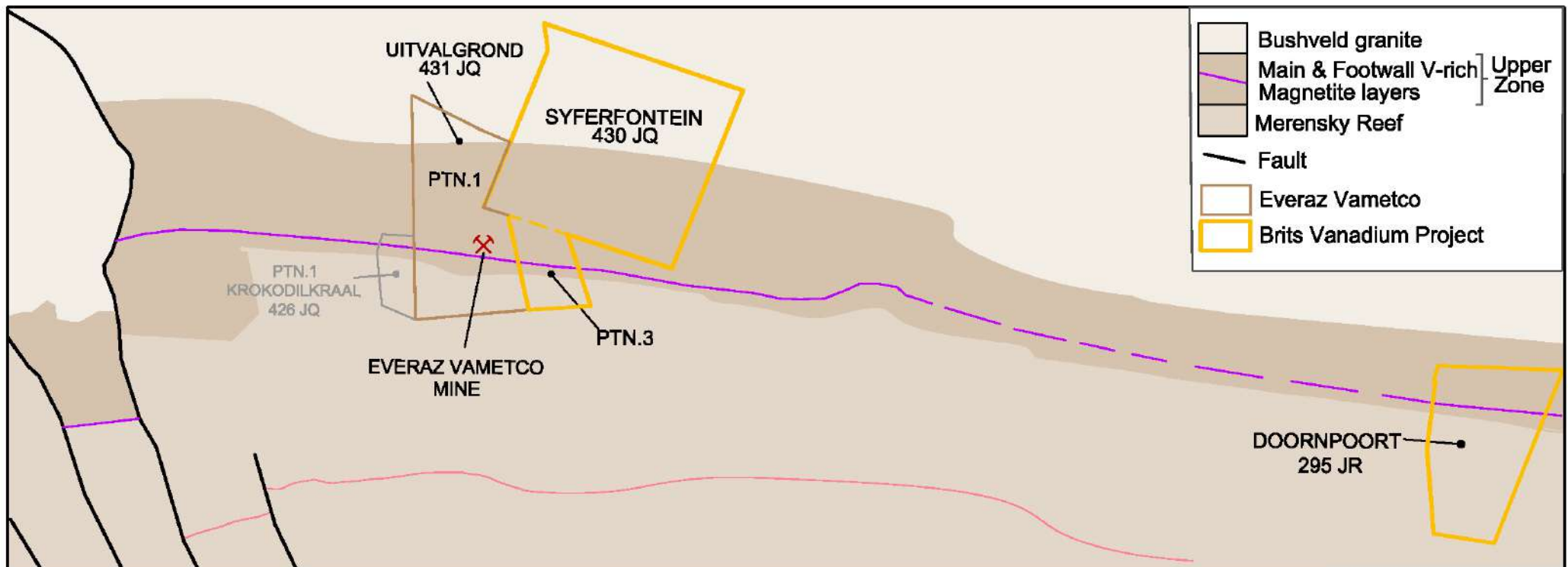


Bushveld vanadium priorities - consolidation



Brits Vanadium Project

- Adjacent to Evraz Vametco's vanadium operations & close to Glencore's Rhovan vanadium operations
- Identified continuation of Vametco mine's orebody onto project area
- Historical data points to in-concentrate V_2O_5 grades in excess of 2% in part
- Within 150km radius of processing infrastructure & well serviced by rail



Bushveld vanadium priorities – demand support



Leveraging vanadium's energy storage potential

RATIONALE

- Steel sector concentration of consumption (90% poses risk)
- Need to develop alternative sources of demand
- Energy storage poised to create step-change in demand
- Global energy storage market estimated to exceed US\$300 billion by 2030
- Contribution of renewable (intermittent) energy to energy mix a significant factor



VANADIUM REDOX FLOW BATTERY (VRFB)

- Long-life (>15 years), large capacity and scalable energy storage system
- Capacity for 100% discharge without performance degradation is unique
- Very fast response time grid connectivity
- 100% of vanadium is re-usable upon decommissioning of the system

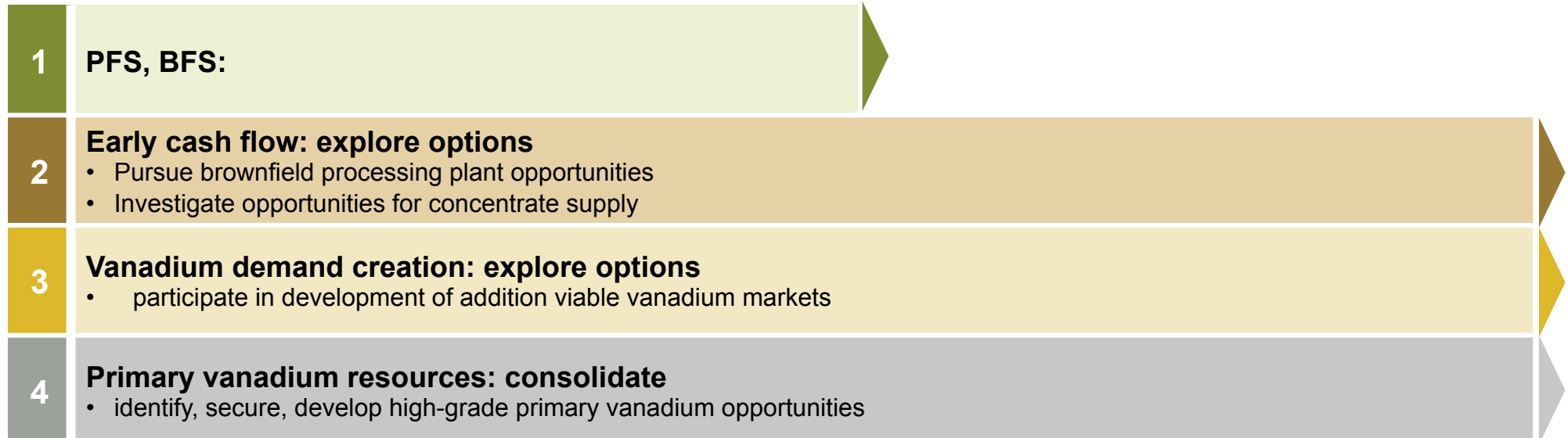


ENERGY

- Actively support global adoption of vanadium-based redox flow batteries (VRFBs)
- Three points in our favour:
 - large, high-quality vanadium deposits
 - low-cost, first-quartile vanadium production
 - supportive deployment business models



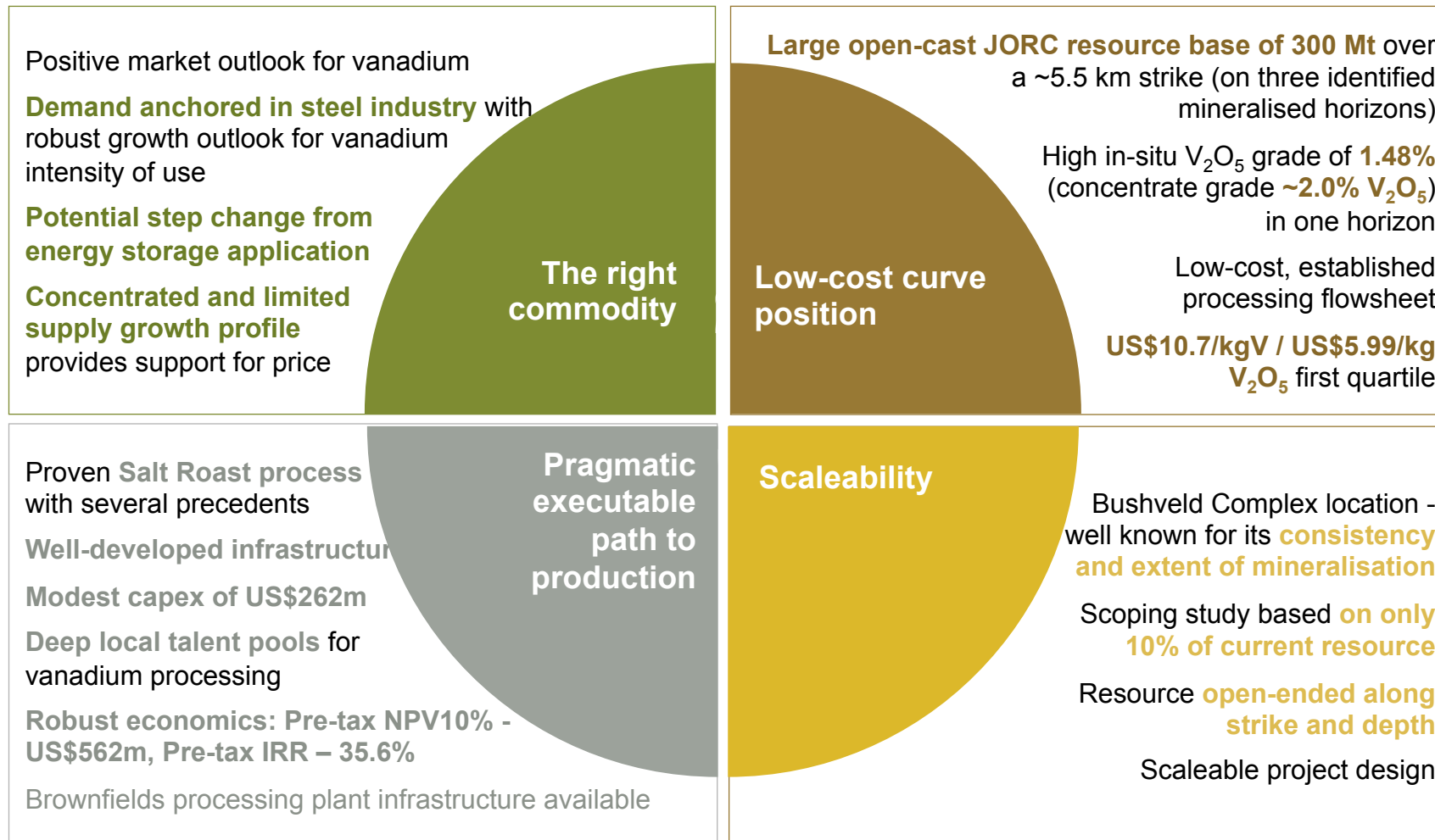
Bushveld vanadium timeline



2015	2016				2017				2018			
Q4	H1		H2		H1		H2		H1		H2	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4

PFS estimated completion

Investment proposition



Contacts



South Africa

Fortune Mojapelo

Chief Executive Officer

Tel +27 11 268 6555

Fax: +27 11 268 5170

Email: Fortune.mojapelo@bushveldminerals.com

Twitter @BushveldMin_Ltd

Block A,
24 Fricker Road, Illovo
Johannesburg, 2116
South Africa

Guernsey

Tel: +44 (0)1481 722 584

Fax: +27 11 268 5170

18-20 Le Pollet
St Peter Port
Guernsey
GY1 1WH

Investor relations contacts

Russell and Associates

Jane Kamau Appiah-Yeboah | James Duncan

Tel +27 11 880 3924

Tavistock Communications

Jos Simson/Nualla Gallagher

Tel +44 (0) 207 920 3150

Mobile +44 (0) 7899 870 45/+44 (0) 7715 164 296