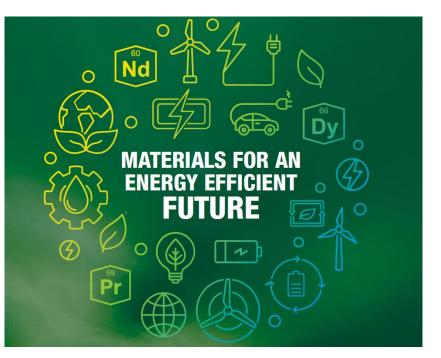
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Positioning Greenland To Be A Major International Rare Earth Supplier





Important Notice



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JORC Code (2012) Competent Person Statement – Mineral Resources and Ore Reserves

The information in this report that relates to Mineral Resources is based on information compiled by Mr Robin Simpson, a Competent Person who is a Member of the Australian Institute of Geoscientists. Mr Simpson is employed by SRK Consulting (UK) Ltd ("SRK"), and was engaged by Greenland Minerals and Energy Ltd on the basis of SRK's normal professional daily rates. SRK has no beneficial interest in the outcome of the technical assessment being capable of affecting its independence. Mr Simpson has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Robin Simpson consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information in the statement that relates to the Ore Reserves Estimate is based on work completed or accepted by Mr Damien Krebs of Greenland Minerals and Energy Ltd and Mr Scott McEwing of SRK Consulting (Australasia) Pty Ltd.

Damien Krebs is a Member of The Australasian Institute of Mining and Metallurgy and has sufficient experience that is relevant to the type of metallurgy and scale of project under consideration, and to the activity he is undertaking, to qualify as Competent Persons in terms of The Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code, 2012 edition). The Competent Persons consent to the inclusion of such information in this report in the form and context in which it appears.

Scott McEwing is a Fellow and Chartered Professional of The Australasian Institute of Mining and Metallurgy and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration, and to the activity he is undertaking, to qualify as Competent Persons in terms of The Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code, 2012 edition). The Competent Persons consent to the inclusion of such information in this report in the form and context in which it appears.

The mineral resource estimate for the Kvanefjeld Project was updated and released in a Company Announcement on February 12th, 2015. The ore reserves estimate was released in a Company Announcement on June 3rd, 2015. There have been no material changes to the mineral resource estimate, or ore reserves estimate since the release of these announcements.

This presentation is authorised for release by John Mair, Managing Director



[ASX:GGG]



- Operating in Greenland for over 10 years; well positioned to become a globally significant supplier of rare earth materials
- Rare earths are critical to electrification of transport systems, renewable energy through rare earth magnets [critical magnet metals - Nd, Pr, Tb, Dy]
- 100% owned Kvanefjeld Project one of the most significant, advanced rare earth projects globally: well-positioned for approaching development window
- Working closely with major RE international specialists Shenghe Resources to establish fully integrated supply chains to global end-users
- Outlook for rare earth demand particularly magnet metals continues to strengthen creating in optimal development window

Kvanefjeld Project Start Point of Major New Rare Earth Supply

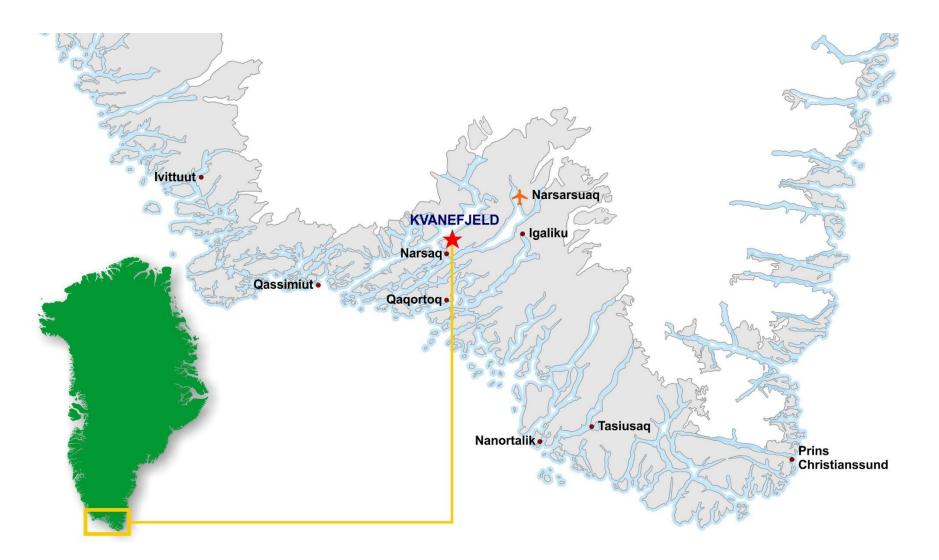




>1 billion tonne multi-element JORC resource, 108 Mt JORC ore reserve Initial 37 year mine life, scope for significant extension, expansion Close to existing infrastructure with year-round direct shipping access Simple configuration and processing, low technical risk Globally significant supplier of Nd, Pr, Dy, Tb, with U, Zn by-product credits Highly competitive economic metrics – long life, lowest cost quartile production Optimised by sector leader and major shareholder Shenghe Resources

Kvanefjeld Project Setting – Southern Greenland

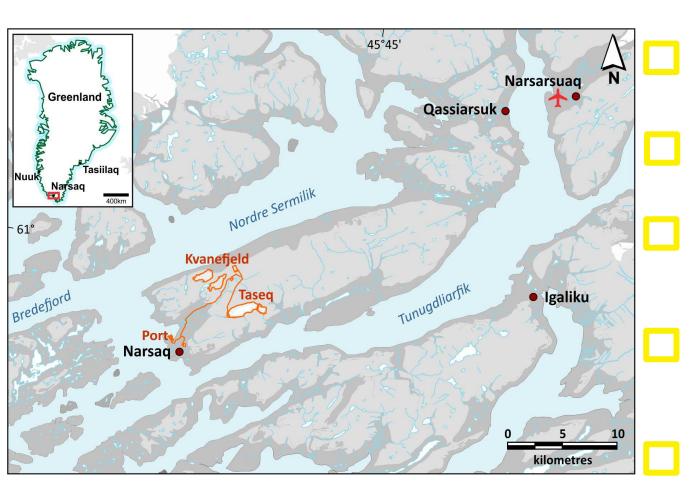




Kvanefjeld is located near existing infrastructure in southern Greenland, with year-round direct shipping access, airport nearby, and a mild climate; an optimal location

Kvanefjeld Project – Location and Access Deep water fjords provide direct shipping access





The Kvanefjeld Project area is favourably located in southern Greenland

Narsarsuaq international airport is located 35km away, 4h 50m flight from Copenhagen

Project area features year-round direct shipping access, via deep water fjords that lead directly to the North Atlantic Ocean

Climatically – mildest part of Greenland with average temperate ranging from -2 to +10°c

Narsaq town, located approximately 8-10km from project area

Kvanefjeld Project Setting – Narsaq Valley



- Direct shipping access to a world class ore body provides a major logistical advantage
- New industry and economic growth important to southern Greenland municipality

Project Components:

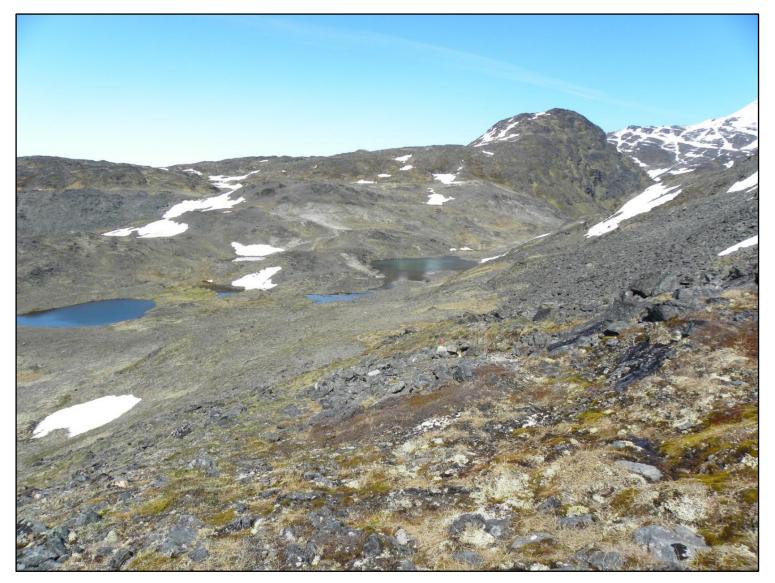
- Mine and concentrator (flotation circuit): REE mineral con, zinc con, fluorspar
- Atmospheric acid leach circuit & impurity removal: intermediate REE product, U by-product

Kvanefjeld Plateau (670 Mt Resource, 108 Mt Reserve)

Kvanefjeld Plateau – Mine Area

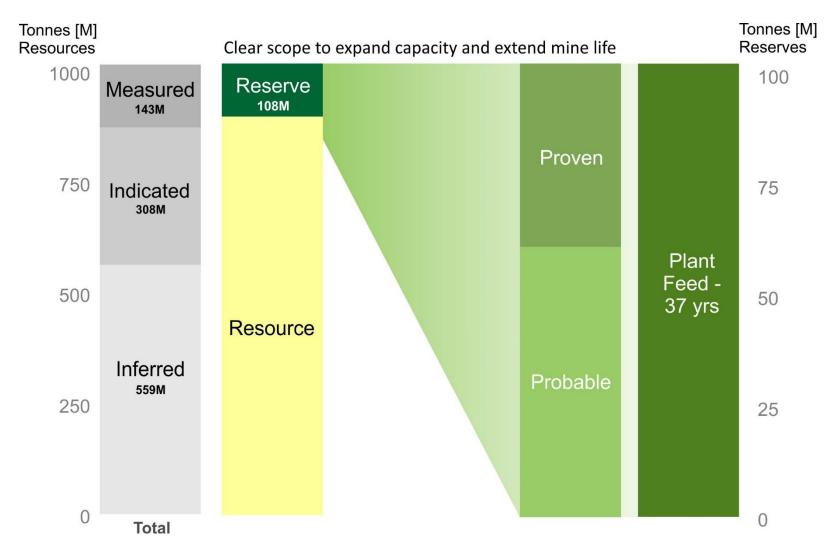


- Outcropping lujavrite (RE host rock) occurs throughout a broad natural bowl on the plateau
- Open cut operation to progressively mine into bowl area.



Vast Mineral Inventory > 11Mt REO, 590Mlb's U₃O₈, 2.4Blb's Zn

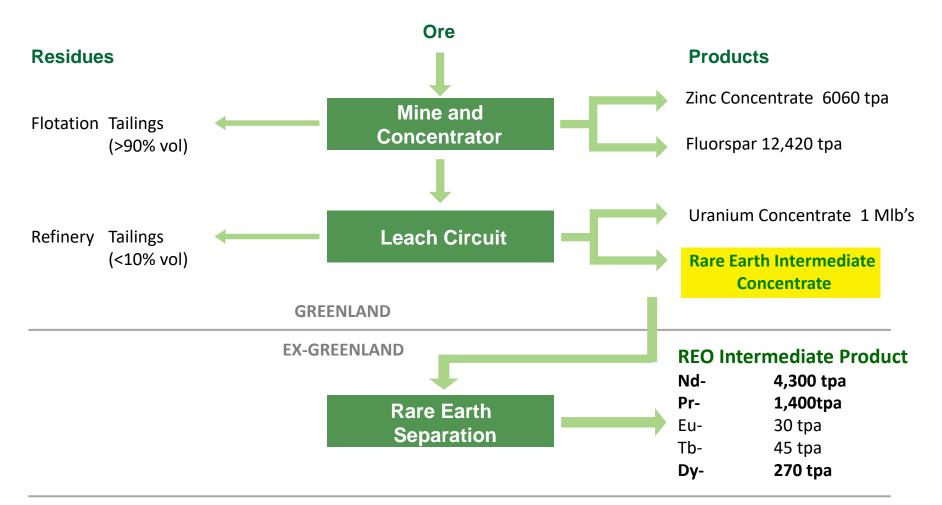




Mineral Resource Estimates and Ore Reserve Estimates are independently established by SRK Consulting

Process Flowsheet – Simple, Customised





Classification (JORC 2012)	Inventory (Mt)	REO (ppm)	U ₃ O ₈ (ppm)	Zn (ppm)
Proven	43	14,700	352	2,700
Probable	64	14,000	368	2,500
Total	108	14,300	362	2,600

37 Year Mine Reserves at Kvanefjeld Deposit (~10% of project resource base)

JORC 2012: 1.01 Bt through 3 deposits contains 11.13 Mt REO, 593 Mlbs U₃O₈, 2.42 Mt zinc

Technical Collaboration With Leading RE Specialist





Greenland Minerals has been engaging China's RE industry groups since 2012



Shenghe – publicly-listed, international growth strategy, rapidly growing (a sector leader/major)



Shenghe studied over 50 international projects, Kvanefjeld selected, alignment in strategy and timing recognised



In 2016, Shenghe invested in Greenland Minerals and commenced collaboration



Successful optimisation, now developing downstream processing strategy, off-take and marketing



Looking to strengthen ties with European Industry - a major new demand centre for REE's



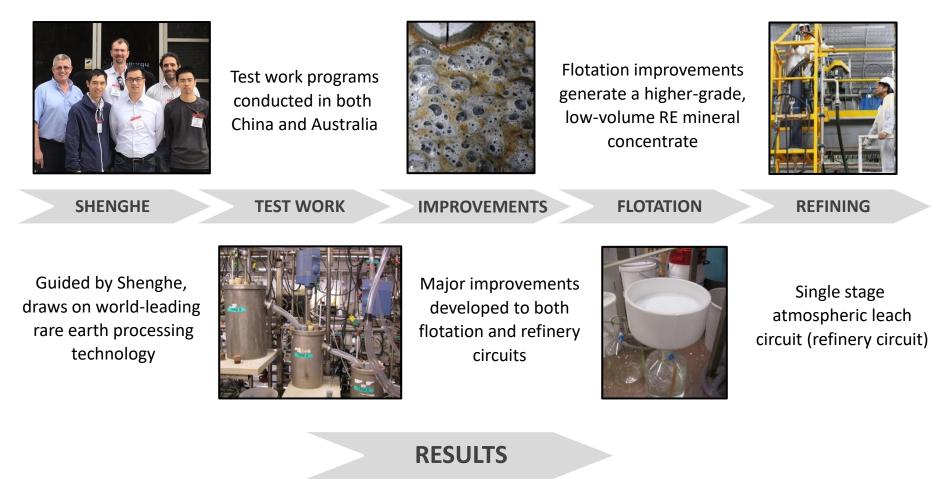


SHENGHE RESOURCES

Shenghe founder Mr Wang Quangen, and John Mair, October 2017 Shenghe HQ, Chengdu

Kvanefjeld Project: Optimised With Specialist Guidance

GREENLAND MINERALS LTD



Improved recoveries, 40% reduction in annual operating costs

Unit costs of <US\$4/kg of REO, net of by-product credits

(lowest of undeveloped REE projects in ASX-listed companies)

Engineering Optimisation



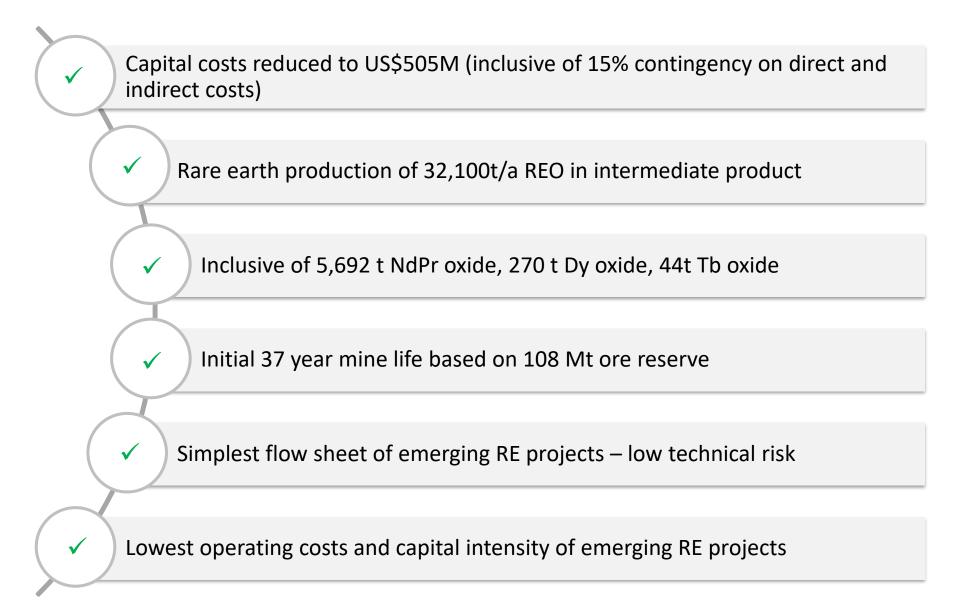


A team of leading international engineering firms visited Kvanefjeld in August 2018 for collaborative onsite surveys/studies

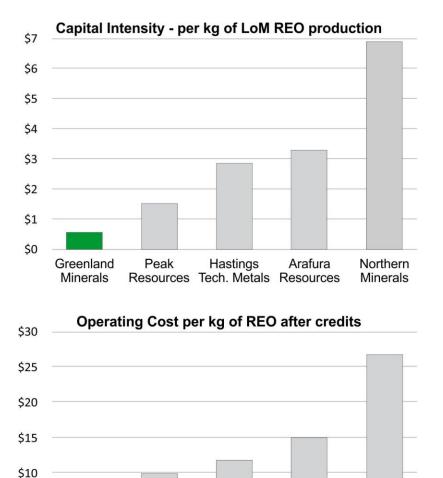
Nuna Logistics, Tetra Tech, PDN Engineers, China-CCC Follow-up studies have resulted in a **44% reduction** in civil construction costs to US \$175M – including indirect costs and contingencies Major reductions in civil construction costs accompany cost reductions achieved through metallurgical optimisation to reduce overall capital costs substantially

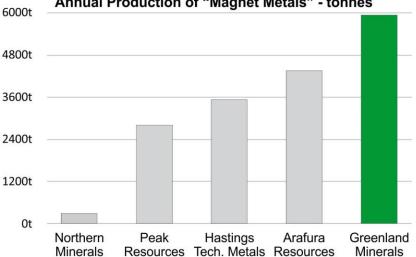
Optimised Feasibility Study - 2019

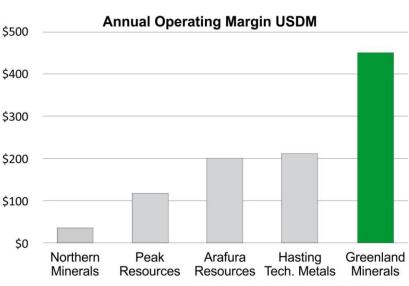




Optimised Project Emphasized Global Significance







* Consistent price forecasts used for all projects

Annual Production of "Magnet Metals" - tonnes

Sources – Publicly available information, ASX announcements, Company websites

Resources Tech. Metals

Arafura

Hastings

Northern

Minerals

Peak

Resources

\$5

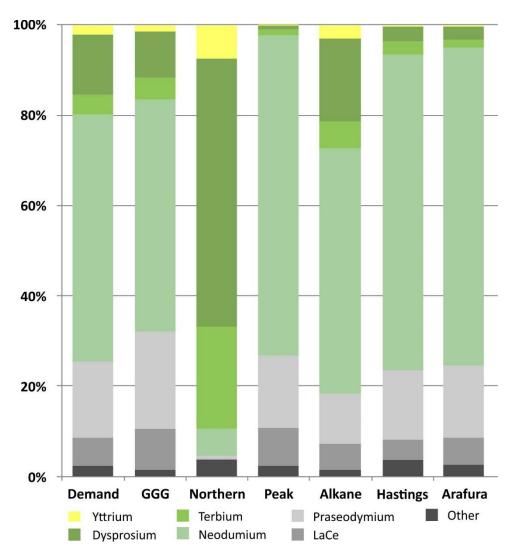
\$0

Greenland

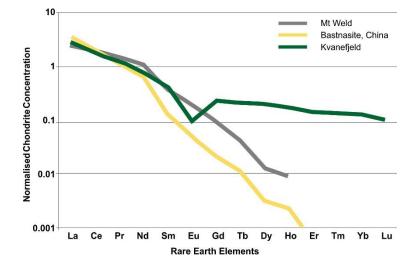
Minerals

GREENLAND

Kvanefjeld – A Complete Rare Earth Project Nd Pr Dy Tb



Demand approximates the current rare earth market by value (volume x current price). Projected output value distribution of select ASX-listed companies



Source: ANSTO

Rare earth plot highlighting the enrichment across the rare earth spectrum. Kvanefjeld is compared to Mt Weld, and typical bastnasite (Mt Pass).

Kvanefjeld's enrichment across the RE spectrum creates a strong alignment with RE market, through exposure to Nd, Pr, Dy and Tb: a complete RE project.



Rare Earth Value Chain Integration – Path to Market





- Shenghe Chairman Mr Hu Zesong presented at the 2019 Confederation of Danish Industry's Greenland Conference
- GML Shenghe updated Greenland, Danish governments on project status and development strategy
- With technical optimisation complete focus on commercial development – Europe strategy





Advanced Permitting Status

Kvanefjeld plateau



Project Permitting - Review phase nearing completion

Social Impact Assessment

Reviewed, updated and accepted for public consultation

Environmental Impact Assessment

Updated EIA lodged in May 2020, final review phase scheduled for late August completion

Thorough and rigorous approach to impact assessments:

Environmental Impact Assessment

GHD (International), Orbicon (Denmark/Greenland), KCB, Arcadis, Danish Hydraulic Institute, Environmental Resource Management, DTU, Blue Water Shipping, Wood Group, **Shared Resources:** Overseen 2020 update

Social Impact Assessment Shared Resources (International), NIRAS (Denmark)

Regulatory Framework & Permitting Process



IAEA Director General visits Kvanefjeld – May 2017



Jakob Rohmann Hard (Chief of Protocol, Foreign Department, Greenland), Liselotte Plesner (Danish Ambassador, Vienna), Nuka Møller (Greenland Business), Jørn Skov Nielsen (Deputy Minister, Industry Trade and Labour, Greenland), Kim Kielsen (Greenland Premier), John Mair (MD, GMEL), Yukiya Amano (Director General, IAEA)

The Governments of Greenland and Denmark have worked to establish a regulatory framework to manage the production and export of uranium from Greenland

In September 2016, Greenland formalised status as signatory to IAEA conventions

Enabling legislation passed by both respective parliaments to implement safeguards and export controls in accordance with IAEA and EURATOM



Routine site inspection conducted by IAEA in August 2018, with all in good order

Community









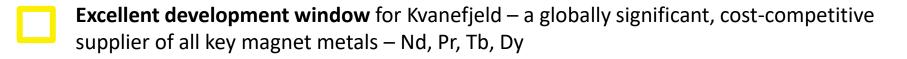


Kvanefjeld Project is located in Kommune Kujalleq (Southern Greenland Municipality), behind the town of Narsag Over 10 years of stakeholder engagement in the local community, including important input into project 'Terms of Reference', approved in 2015 In March 2019 MoU entered with municipality and local business council to negotiate a participation agreement to cover community involvement and capacity development Stakeholder meetings with specialist consultants and company representatives conducted in June 2019, presentation of impact assessments to municipality





- Expected to rebound quickly through 2021 toward CAGR of around 8% through to 2030
- Driven by demand growth across all categories (EV's, consumer appliances, electronics, wind power)
- Increasing shift from hybrid EV's to battery EV's drive further NdFeB demand as greater use of RE-magnets in battery EV's (more Nd, Pr, Tb, Dy/vehicle)
- Overall to 2030 demand for magnet RE's (Nd, Pr, Tb, Dy) to increase by 150% requiring a 2x increase in global production to keep up
- With limited new supply, and major Chinese producers expected to absorb great costs, pricing of key magnet metals expected to rise steadily through the decade



Strong Foundation Set for Development Success





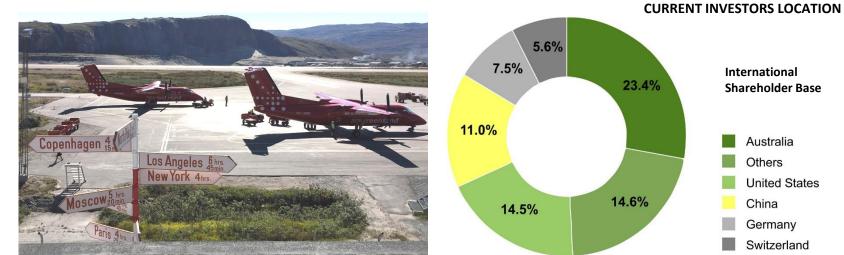
>1 billion tonne multi-element resource, largest REO inventory under JORC code
Project optimised in conjunction with major shareholder and industry leader
Highly efficient processing, lowest cost quartile production costs
Regulatory framework in legislated by Greenland and Danish governments
Permitting advanced, EIA reviews and updates soon to be complete (Q3 2020)
Developing a downstream processing strategy with Shenghe Resources
Well-positioned for upcoming development window to meet RE demand surge



Appendix

Corporate Snapshot





Board

Non-Executive Chairman	Tony Ho				
Managing Director	Dr John Mair				
Non-Executive Director	Simon Cato				
Non-Executive Director	Xiaolei Guo				
Top Shareholders					
Shenghe Resources Holdings	125M shares				
Tracor Limited	53M shares				

Capital Structure								
Shares outstanding	1,190 M							
Market capitalization	A\$214M (@18 cents)							

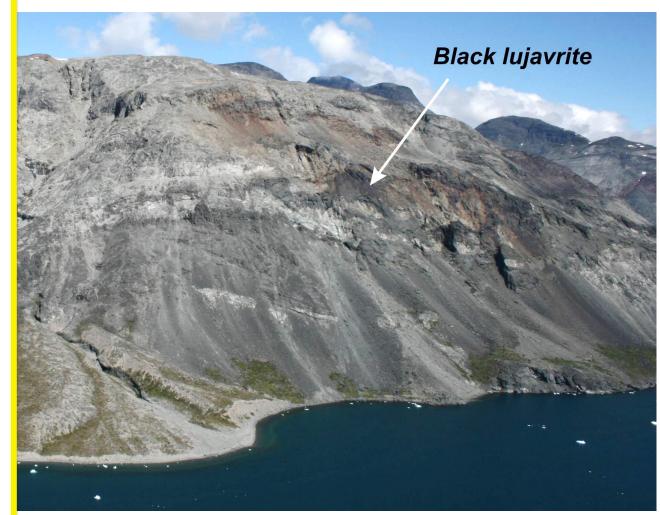
Kvanefjeld Project Ownership - 100%

Centred on a Multi-Billion Tonne Outcropping Ore Seam



The only known bulk occurrence of steenstrupine globally – a unique, nonrefractory rare earth mineral, that is conducive to simple, lowcost processing.

Kvanefjeld will be a step change in global rare earth supply



Advanced Project Status Technical Development Path





Prefeasibility Study	Ongoing metallurgical test work	Feasibility Study	Updated Feasibility Study	Metall optimisatio Shei	Updated operating & capital costs for optimised project	
2012	2013 2014	2015	2016	2017	2018	2019
	Continued resource development, mineralogy studies, variability test work	Pilot F Opera (EUR/	tions ARE) Shenghe technice	e invests, al input nences	Engineerin optimisatic to address c costs	on

Statement of Identified Mineral Resources (JORC – Code Compliant 2012)



Multi-Element Resources Classification, Tonnage and Grade											Contained Metal				
Cut-off	Classification	M tonnes	TREO ²	U₃O ₈	LREO	HREO	REO	Y_2O_3	Zn	TREO	HREO	Y ₂ O ₃	U₃O ₈	Zn	
(U₃O ₈ ppm) ¹		Mt	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Mt	Mt	Mt	M lbs	Mt	
Kvanefjeld - Fe	bruary 2015														
150	Measured	143	12,100	303	10,700	432	11,100	978	2,370	1.72	0.06	0.14	95	0.34	
150	Indicated	308	11,100	253	9,800	411	10,200	899	2,290	3.42	0.13	0.28	172	0.71	
150	Inferred	222	10,000	205	8,800	365	9,200	793	2,180	2.22	0.08	0.18	100	0.48	
150	Grand Total	673	10,900	248	9,600	400	10,000	881	2,270	7.34	0.27	0.59	368	1.53	
200	Measured	111	12,900	341	11,400	454	11,800	1,048	2,460	1.43	0.05	0.12	83	0.27	
200	Indicated	172	12,300	318	10,900	416	11,300	970	2,510	2.11	0.07	0.17	120	0.43	
200	Inferred	86	10,900	256	9,700	339	10,000	804	2,500	0.94	0.03	0.07	49	0.22	
200	Grand Total	368	12,100	310	10,700	409	11,200	955	2,490	4.46	0.15	0.35	252	0.92	
250	Measured	93	13,300	363	11,800	474	12,200	1,105	2,480	1.24	0.04	0.10	75	0.23	
250	Indicated	134	12,800	345	11,300	437	11,700	1,027	2,520	1.72	0.06	0.14	102	0.34	
250	Inferred	34	12,000	306	10,800	356	11,100	869	2,650	0.41	0.01	0.03	23	0.09	
250	Grand Total	261	12,900	346	11,400	440	11,800	1,034	2,520	3.37	0.11	0.27	199	0.66	
300	Measured	78	13,700	379	12,000	493	12,500	1,153	2,500	1.07	0.04	0.09	65	0.20	
300	Indicated	100	13,300	368	11,700	465	12,200	1,095	2,540	1.34	0.05	0.11	82	0.26	
300	Inferred	15	13,200	353	11,800	391	12,200	955	2,620	0.20	0.01	0.01	12	0.04	
300	Grand Total	194	13,400	371	11,900	471	12,300	1,107	2,530	2.60	0.09	0.21	159	0.49	
350	Measured	54	14,100	403	12,400	518	12,900	1,219	2,550	0.76	0.03	0.07	48	0.14	
350	Indicated	63	13,900	394	12,200	505	12,700	1,191	2,580	0.87	0.03	0.07	54	0.16	
350	Inferred	6	13,900	392	12,500	424	12,900	1,037	2,650	0.09	0.00	0.01	6	0.02	
350	Grand Total	122	14,000	398	12,300	506	12,800	1,195	2,570	1.71	0.06	0.15	107	0.31	

Independently Prepared by SRK Consulting

Statement of Identified Mineral Resources (JORC – Code Compliant 2012)



Multi-Element Resources Classification, Tonnage and Grade											Conta	ined Met	al	
Cut-off	Classification	M tonnes	TREO ²	U₃O ₈	LREO	HREO	REO	Y_2O_3	Zn	TREO	HREO	Y ₂ O ₃	U ₃ O ₈	Zn
$(U_3O_8 ppm)^1$		Mt	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Mt	Mt	Mt	M lbs	Mt
Sørensen - Ma	rch 2012													
150	Inferred	242	11,000	304	9,700	398	10,100	895	2,602	2.67	0.10	0.22	162	0.63
200	Inferred	186	11,600	344	10,200	399	10,600	932	2,802	2.15	0.07	0.17	141	0.52
250	Inferred	148	11,800	375	10,500	407	10,900	961	2,932	1.75	0.06	0.14	123	0.43
300	Inferred	119	12,100	400	10,700	414	11,100	983	3,023	1.44	0.05	0.12	105	0.36
350	Inferred	92	12,400	422	11,000	422	11,400	1,004	3,080	1.14	0.04	0.09	85	0.28
Zone 3 - May 2	2012													
150	Inferred	95	11,600	300	10,200	396	10,600	971	2,768	1.11	0.04	0.09	63	0.26
200	Inferred	89	11,700	310	10,300	400	10,700	989	2,806	1.03	0.04	0.09	60	0.25
250	Inferred	71	11,900	330	10,500	410	10,900	1,026	2,902	0.84	0.03	0.07	51	0.20
300	Inferred	47	12,400	358	10,900	433	11,300	1,087	3,008	0.58	0.02	0.05	37	0.14
350	Inferred	24	13,000	392	11,400	471	11,900	1,184	3,043	0.31	0.01	0.03	21	0.07
Project Total		·								· ·				
150	Measured	143	12,100	303	10,700	432	11,100	978	2,370	1.72	0.06	0.14	95	0.34
150	Indicated	308	11,100	253	9,800	411	10,200	899	2,290	3.42	0.13	0.28	172	0.71
150	Inferred	559	10,700	264	9,400	384	9,800	867	2,463	6.00	0.22	0.49	326	1.38
150	Grand Total	1010	11,000	266	9,700	399	10,100	893	2,397	11.14	0.40	0.90	593	2.42

¹There is greater coverage of assays for uranium than other elements owing to historic spectral assays. U₃O₈ has therefore been used to define the cutoff grades to maximise the confidence in the resource calculations.

²Total Rare Earth Oxide (TREO) refers to the rare earth elements in the lanthanide series plus yttrium.

Note: Figures quoted may not sum due to rounding.