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TIGERS REALM COAL

**ASX RELEASE**
**14 February 2018**



# Corporate Presentation

Tigers Realm Coal is pleased to release its February 2018 Corporate Presentation highlighting the company's successful first year of production at Project F during 2017 and plans going forward.

# Project F Update

The year has commenced positively at Project F. January 2018 production was 50 kt of coal delivered to port, a 114% improvement compared to 23.3 kt of production in January last year. The production in January 2018 exceeded budget and demonstrates the impacts of the improvements to the haulage road and increase in fleet.

With over 110 kt in coal stocks at the port, the company is well placed to deliver its 2018 targets of up to 560 kt of coal mined, and up to 480 kt of coal transshipped and sold.

TIG's financial position as at the end of January was in line with expectations. Cash at the end of the month was A$2.4 million. This balance, combined with a payment for the last cargo shipped in 2017, other expected receipts and available credit from the Sberbank working capital facility provides estimated cash resources of A$14.3m million. TIG forecasts these cash resources are sufficient until revenues from sales are received (starting from July 2018).

**For further information, please contact:**


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TIGERS REALM COAL



# Building on 2017 Performance and Moving Forward with Expansion Plans

Corporate Update

February 2018

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# Disclaimer

Tigers Realm Coal Limited ("TIG", "Tigers Realm Coal" or "the Company") is an Australian based resources company. TIG's aim is to continue to grow to become a significant producer of coking coal supplying the seaborne market.

**This presentation ("Presentation") has been prepared by Tigers Realm Coal Limited ("Company") and is provided solely for information purposes.**

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**Competent Persons Statements**

The information presented in this report relating to Coal Resources At Amaam North is based on information compiled and modelled by Anna Fardell, Consultant (Resource Geology) of SRK Consulting (Kazakhstan) Ltd, who is a Fellow of the Geological Society of London; and reviewed by Keith Philpott, Corporate Consultant (Coal Geology) of SRK Consulting (UK) Ltd, who is a Fellow and Chartered Geologist of the Geological Society of London. Keith Philpott has worked as a geologist and manager in the coal industry for over 40 years and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity he is undertaking 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". Keith Philpott 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 compiled in this report relating to exploration results, exploration targets or Coal Resources at Amaam is based on information provided by TIG and compiled by Neil Biggs, who is a member of the Australasian Institute of Mining and Metallurgy and who is employed by Resolve Coal Pty Ltd, and has sufficient experience which is relevant to the style of mineralization and type of deposit under consideration and to the activity he is undertaking to qualify as a Competent Person as defined in the JORC Code. Neil Biggs consents to the inclusion in the announcement of the matters based on his information in the form and context which it appears.

The information in this report relating to the Project F, Amaam North Reserve Estimate is based on information compiled by Maria Joyce, a Competent Person who is a Chartered Engineer of the Australasian Institute of Mining and Metallurgy. Maria Joyce is the head of the Technical Services division and full-time employee of MEC Mining Pty Ltd. Maria Joyce has sufficient experience that is relevant to the style of mineralization, 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'. Maria Joyce consents to the inclusion in the report of the matters based on her information in the form and context in which it appears.

**Note A – Tigers Realm Coal's interests in the Amaam Coking Coal Project**

Amaam Licences: TIG's current beneficial ownership is 80%. TIG will fund all project expenditure until the Board of the JV Company approves a Decision to Mine (which TIG anticipates would occur after the completion of a bankable feasibility study) in accordance with the Amaam Shareholders Agreement. After the approval by the Board of the JV Company of the Decision to Mine, each joint venture party, TIG and Bering Coal Investments Limited (BCIL) is required to contribute to further project expenditure on a pro-rata basis, unless BCIL exercises it right to convert its 20% interest to a 2% royalty of gross sales revenue. If BCIL elects to participate in the relevant mining and development proposal, it will be subject to dilution and its 20% interest will convert progressively to a royalty of up to 2% gross sales revenue in the event it fails to meet cash calls. Siberian Tigers International Ltd is entitled to receive a royalty of 3% gross sales revenue from coal produced from within the Amaam licenses.

Amaam North Licenses: TIG's current beneficial ownership is 100%. Under a Sale and Purchase Agreement with its former joint venture partners in the Amaam North Project, TIG has an obligation to pay up to US$25 million (in aggregate) to such former joint venture partners within 20 years in annual payments calculated as a percentage of gross sales revenue from coal sales from the Amaam North Project on the following terms. A) Subject to certain rights of TIG to defer payment of any annual payment, annual payments are 1.5% of gross sales revenues for the first five years, 2.25% of gross sales revenues for the three years following, and 3% of gross sales revenues thereafter. B) Under certain circumstances, TIG may elect to pay up to 50% of the amount due for any year in kind by issue of TIG shares. C) Irrespective of the amount paid, annual payments will cease after 2037.

# Disclaimer

**Note B – Inferred Resources**
According to the commentary accompanying the JORC Code an 'Inferred Mineral Resource' is that part of a Mineral Resource for which quantity and grade (or quality) are estimated on the basis of limited geological evidence and sampling. Geological evidence is sufficient to imply but not verify geological and grade (or quality) continuity. It is based on exploration, sampling and testing information gathered through appropriate techniques from locations such as outcrops, trenches, pits, workings and drill holes. An Inferred Mineral Resource has a lower level of confidence than that applying to an Indicated Mineral Resource and must not be converted to an Ore Reserve. It is reasonably expected that the majority of Inferred Mineral Resources could be upgraded to Indicated Mineral Resources with continued exploration

**Note C – Indicated Resources**
According to the commentary accompanying the JORC Code an 'Indicated Mineral Resource' is that part of a Mineral Resource for which quantity, grade (or quality), densities, shape and physical characteristics are estimated with sufficient confidence to allow the application of modifying factors in sufficient detail to support mine planning and evaluation of the economic viability of the deposit. Geological evidence is derived from adequately detailed and reliable exploration, sampling and testing gathered through appropriate techniques from locations such as outcrops, trenches, pits, workings and drill holes, and is sufficient to assume geological and grade (or quality) continuity between points of observation where data and samples are gathered.

**Note D – Measured Resources**
According to the commentary accompanying the JORC Code a 'Measured Mineral Resource' is that part of a Mineral Resource for which quantity, grade (or quality), densities, shape, and physical characteristics are estimated with confidence sufficient to allow the application of Modifying Factors to support detailed mine planning and final evaluation of the economic viability of the deposit. Geological evidence is derived from detailed and reliable exploration, sampling and testing gathered through appropriate techniques from locations such as outcrops, trenches, pits, workings and drill holes, and is sufficient to confirm geological and grade (or quality) continuity between points of observation where data and samples are gathered. A Measured Mineral Resource has a higher level of confidence than that applying to either an Indicated Mineral Resource or an Inferred Mineral Resource. It may be converted to a Proved Ore Reserve or under certain circumstances to a Probable Ore Reserve.

**Note E – Exploration Target**
According to the commentary accompanying the JORC Code an 'Exploration Target is a statement or estimate of the exploration potential of a mineral deposit in a defined geological setting where the statement or estimate, quoted as a range of tonnes and a range of grade (or quality), relates to mineralisation for which there has been insufficient exploration to estimate a Mineral Resource. Any such information relating to an Exploration Target must be expressed so that it cannot be misrepresented or misconstrued as an estimate of a Mineral Resource or Ore Reserve. The terms Resource or Reserve must not be used in this context.

**Note F – Reserves**
According to the commentary accompanying the JORC Code a 'Reserve' is the economically mineable part of a Measured and/or Indicated Mineral Resource. It includes diluting materials and allowances for losses, which may occur when the material is mined or extracted and is defined by studies at Pre-Feasibility or Feasibility level as appropriate that include application of Modifying Factors. Such studies demonstrate that, at the time of reporting, extraction could reasonably be justified.

**Forward Looking Statements**
This release includes forward looking statements. Often, but not always, forward looking statements can generally be identified by the use of forward looking words such as "may", "will", "expect", "intend", "plan", "estimate", "anticipate", "continue", and "guidance", or other similar words and may include, without limitation statements regarding plans, strategies and objectives of management, anticipated production or construction commencement dates and expected costs or production outputs. Forward looking statements in this release include, but are not limited to, the capital and operating cost estimates and economic analyses from the BFS.

Forward looking statements inherently involve known and unknown risks, uncertainties and other factors that may cause the company's actual results, performance and achievements to differ materially from any future results, performance or achievements. Relevant factors may include, but are not limited to, changes in commodity prices, foreign exchange fluctuations and general economic conditions, increased costs and demand for production inputs, the speculative nature of exploration and project development, including the risks of obtaining necessary licences and permits and diminishing quantities or grades of resources or reserves, political and social risks, changes to the regulatory framework within which the company operates or may in the future operate, environmental conditions including extreme weather conditions, recruitment and retention of personnel, industrial relations issues and litigation.

Forward looking statements are based on the company and its management's good faith assumptions relating to the financial, market, regulatory and other relevant environments that will exist and affect the company's business and operations in the future. The company does not give any assurance that the assumptions on which forward looking statements are based will prove to be correct, or that the company's business or operations will not be affected in any material manner by these or other factors not foreseen or foreseeable by the company or management or beyond the company's control.

Although the company attempts to identify factors that would cause actual actions, events or results to differ materially from those disclosed in forward looking statements, there may be other factors that could cause actual results, performance, achievements or events not to be anticipated, estimated or intended, and many events are beyond the reasonable control of the company. Accordingly, readers are cautioned not to place undue reliance on forward looking statements.

Forward looking statements in this release are given as at the date of issue only. Subject to any continuing obligations under applicable law or any relevant stock exchange listing rules, in providing this information the company does not undertake any obligation to publicly update or revise any of the forward looking statements or to advise of any change in events, conditions or circumstances on which any such statement is based.

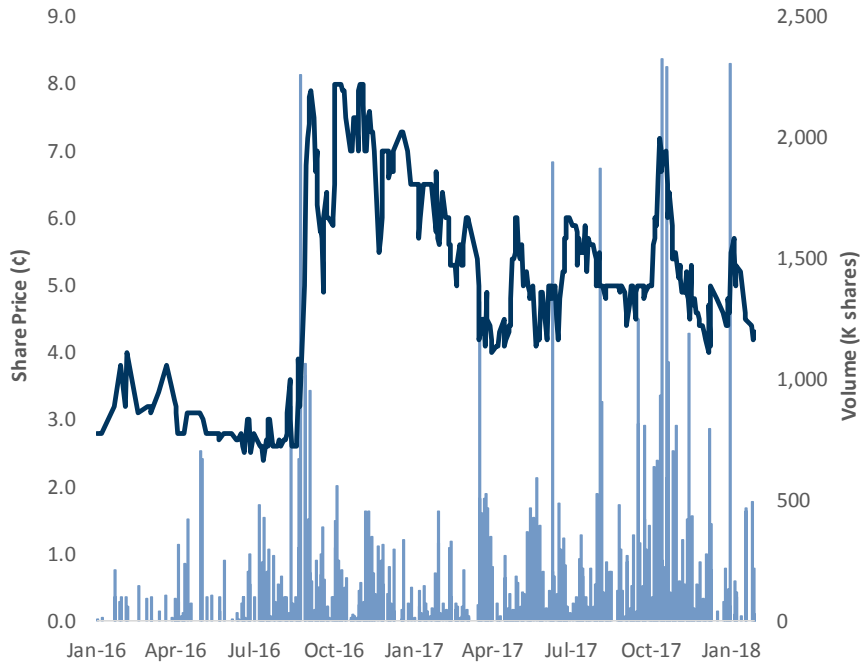
# Corporate Information


Transshipping at the end of the 2017 season

## Equity Capital Structure, Financial Position and Resource Base

| | |
|---|---|
| Shares on issue | 1,791.7M |
| Options (Board and Management) | 59.4M |
| Share Price (ASX:TIG - average January 2018) | 4.9¢ |
| Market Capitalisation (fully diluted) | $90.7M |
| Pro-forma cash 31 December 2017 | AUD 2.1M |
| Debt 31 December 2017 | AUD 1.4M |
| Resource Tonnes (100% basis) | 632 Mt |
| Resource Tonnes (equity interest) | 527 Mt |

## Share Price Performance




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# Tigers Realm Coal Ltd (TIG) – Key Investment Highlights

1. A 632 Mt resource base of high quality metallurgical coal with potential for further growth in a stable, supportive jurisdiction – Chukotka, Far East Russia

2. An outstanding project location on the Bering Sea coast, 37 km by road to the TIG owned coal port with competitive delivery routes to Asian customers

3. Phase One of Project F (Amaam North) in production, ramping up to 480 kt of sales in 2018 and growing to 600 kt of sales in 2019

4. Working on raising funding for Phase 2 of Project F, expansion to 1 Mtpa, with potential for growth to 2+ Mtpa thereafter

5. Tigers Realm Coal is on track to become one of the lowest cost metallurgical coal producers in the world

6. Strong support from major shareholders and in-country stakeholders through pre-development phase into production

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# Tigers Realm Coal Ltd (TIG) – 2017 Highlights




| 2017 Key Operational Indicators | |
|---|---|
| ROM coal mined (kt) | 248.2 |
| Coal to Port (kt) | 226.0 |
| Waste mined (kbcm) | 942.9 |
| ROM strip ratio[1] (bcm:t) | 3.8:1 |
| Thermal coal sold[2] (kt) | 122.4 |
| Coking coal coal[2] (kt) | 42.2 |
| Total TIG coal sold (kt) | **164.6** |

## Operations

**Safety**

- TRIFR (Total Reportable Injury Frequency Rate) of 4.5 per million hours since operations commenced in July 2016

**Capital investments**

- Construction of year-round coal haulage road
- Initial open pit infrastructure and environmental controls
- Infrastructure upgrades: camp, offices and workshop facilities
- Port upgrades: expansion of stockpile areas and port customs checkpoint
- Procurement of equipment to support 2018 expansion plan

**Production and sales**

- Mining and hauling of 226 kt of coal to the port
- Coal sales of 165 kt
- Coking coal sold to customers in Japan and China, and thermal coal sold to customers in Chukotka, Taiwan and China

## Finance, Corporate and Stakeholders

**Finance**

- Obtained first debt financing: a working capital facility for Russian Rubles 600 million (A$13.3 million) from Sberbank, Russia's largest commercial bank

**Corporate**

- Moved to 100% ownership of Amaam North by converting 20% stake held by JV partners into 20 years royalty scheme (sliding scale of between 1.5% to 3%)
- Acquisition of a mining and extraction licence over the Nadezhny area at the Amaam Project

**Community/Government Relations**

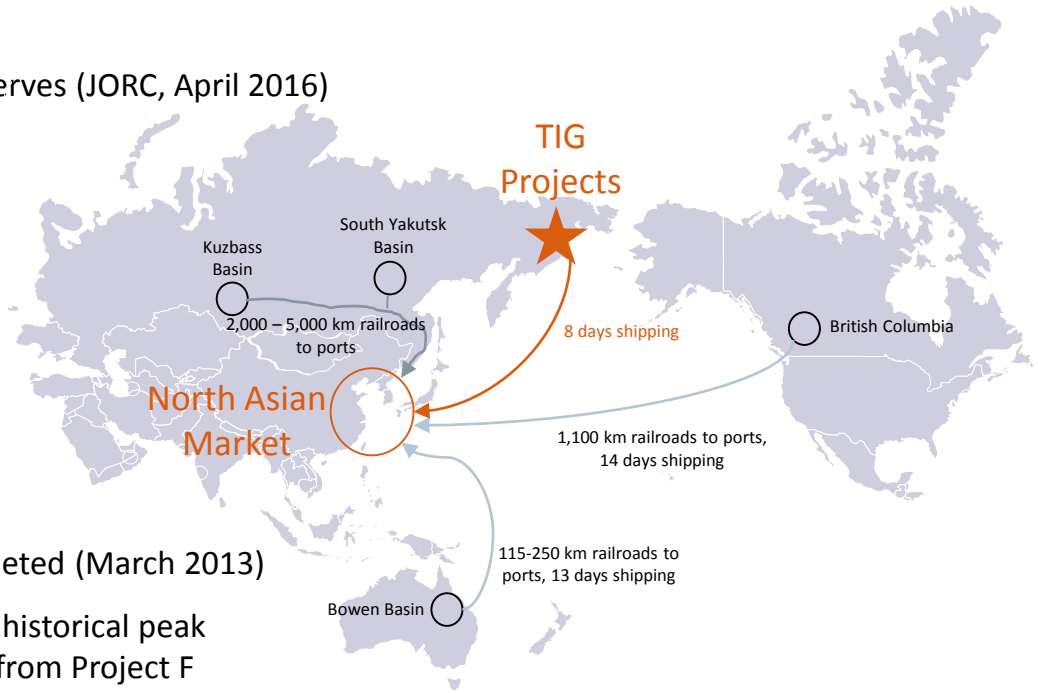
- Positive community and government relations initiatives including presentations by the company at the Far East Economic forum in Vladivostok and presenting the company's progress to the President of the Russian Federation

1. bcm waste : tonne ROM coal 2. TIG coal transshipped and sold

# TIG Resources, Infrastructure Assets and Location

**World-class coal assets with existing infrastructure in close proximity to main customers in North Asia**

- TIG's Amaam North and Amaam projects comprise two large coal basins with a combined 632 Mt in Resources (JORC, Dec 2015 and Jul 2015) and 115 to 410 Mt Exploration Target in the Chukotka Autonomous Region in Russia's Far East
- Amaam North Coal Basin (TIG has 100% interest)
  - 111 Mt Resources, 16.1 Mt Marketable Coal Reserves (JORC, April 2016)
  - Semi-hard coking coal
  - Project F Feasibility Study for 1 Mtpa open pit completed
  - Phase One of Project F in production
- Amaam Coal Basin (TIG has 80% interest)
  - 521 Mt Resources (JORC, April 2016)
  - High vitrinite coking coal
  - Pre-Feasibility study for a 5 Mtpa open pit completed (March 2013)
- TIG owns Beringovsky Port and Coal Terminal with historical peak throughput capacity of 700 kt/year located 37 km from Project F




- TIG marketing efforts primarily target steel producers and industrial customers in North Asia. Agency agreements are in place for Japan and first sales into Asia and the Chukotka local market have been completed
- TIG's projects have a strong geographic position with the potential for a significant logistical cost advantage over all major basins delivering seaborne coal to the North Asian market

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# Chukotka, Russia – A Supportive Jurisdiction

**TIG continues to work closely with its local and federal stakeholders to positively advance the Project**

## Strong Support from Federal & Regional Governments and Local Communities

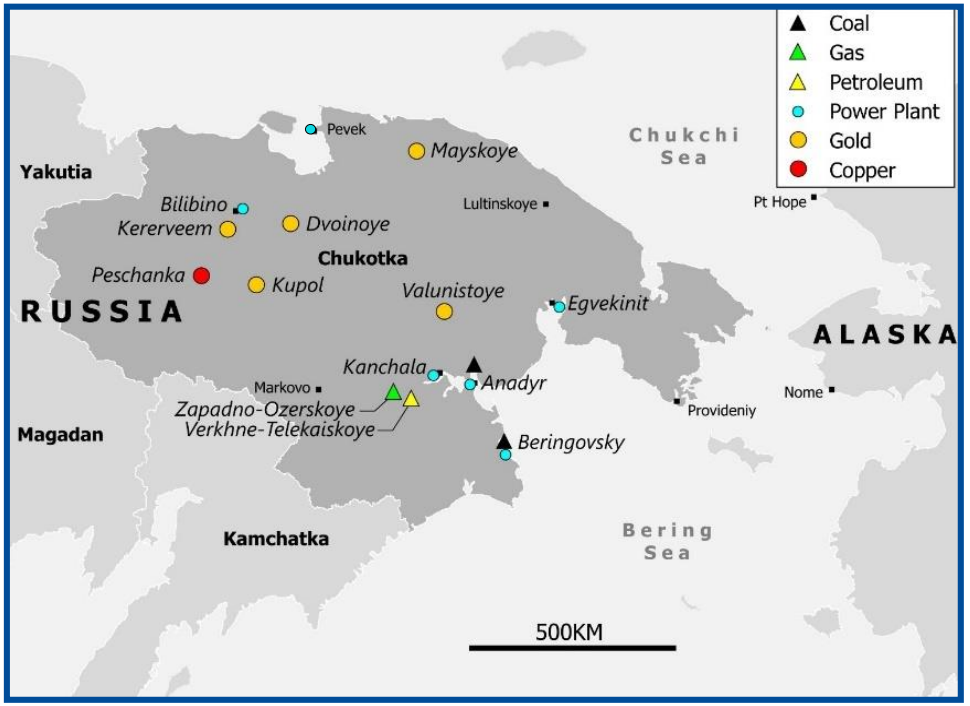
- Mine construction permitted and launched
- First coal production and export sales initiated
- Russia's Sovereign Wealth Fund, RDIF, is a 14.4% TIG shareholder
- The Government and Governor of Chukotka recognise the importance of TIG's projects to the region and actively support the company
  - Establishing the Advanced Development Zone (ADZ) in Beringovsky provides TIG with tax, customs and social security advantages
  - Assisting with the establishment of the port's new custom checkpoint
- Federal Government Ministers and the Ministry for the Development of the Far East of Russia have consistently demonstrated their support for TIG



Signing of a memorandum of cooperation with the Governor of Chukotka

## Chukotka – An Excellent Mining Jurisdiction

- A supportive local Government and Administration
- Proximate location to Asian markets
- Prior foreign (Kinross) and Russian minerals investment experience
- Advantageous investment and administration framework due to TIG residence in the Advanced Development Zone (ADZ) at Beringovsky

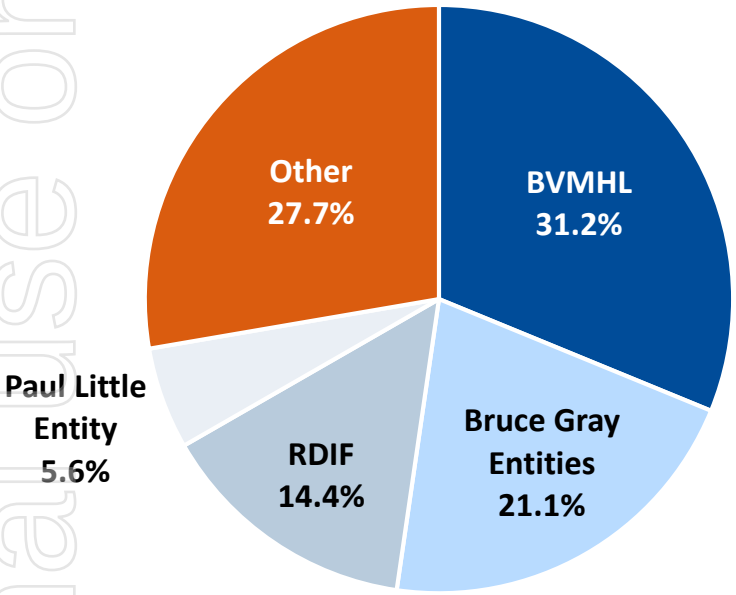



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# Support from Key TIG Shareholders

**TIG's large Australian and Russian public, private and institutional investors have demonstrated strong financial support and enhanced relationship building with government and financial organizations in Russia**

## Shareholders as at 13 February 2018




Total Shares on Issue: 1,791.7M

## TIG's Key Shareholders

- **Baring Vostok Mining Holdings Limited (BVMHL)** is held by Fund V, 1 of 5 PE funds advised by Guernsey based Baring Vostok Capital Partners Limited:
  - Initially invested in April 2014, and invested in and partially underwrote the 2016 rights issue
  - One of Russia's leading private equity firms with over US$3.0B invested in more than 80 companies in Russia and CIS since 1994
- **Bruce Gray:**
  - Invested in TIG's 2011 IPO, subsequent placements in July 2012, March 2013 and April 2014 and invested in and partially underwrote the 2016 rights issue
  - 2003 EY Entrepreneur of the Year (Western Region Australia) for Technology, Communications, E-Commerce and Life Sciences
- **Russian Direct Investment Fund (RDIF)** was created in 2011 under the leadership of the Russian President and Prime Minister:
  - Initially invested in April 2014, and invested in and partially underwrote the 2016 rights issue
  - Invests alongside top global investors, acting as a catalyst for foreign direct investment in Russia
- **Paul Little:**
  - Invested in placements in July 2012, March 2013 and April 2014 and the 2016 rights issue
  - Leading Australian businessman and philanthropist

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# TIG Board and Senior Management

## Board

**Craig Wiggill – Independent Non-Executive Chairman**
- 30+ years of coal and mining industry experience
- Chairman of GlobalCOAL and Buffalo Coal Corp, former CEO of Anglo Coal Americas
- Experience covers operational roles to commercial, trading and marketing responsibility, corporate strategy and business development, new mining projects in remote and challenging environments

**Owen Hegarty – Independent Non-Executive Director**
- 40+ years industry experience, Senior Executive at Rio Tinto
- Founder and CEO of Oxiana Limited
- Director Highfield Resources
- Founder TIG
- Executive Chairman EMR Capital

**Bruce Gray – Non-Executive Director**
- Long and distinguished career in the medical profession
- Founded and operated a number of highly successful start-up businesses in the medical sector

**Tav Morgan – Non-Executive Director**
- Partner at Baring Vostok Capital Partners (Moscow)
- Director Magnitogorsk Metallurgical Kombinat
- Former Managing Director, Goldman Sachs, Global Natural Resources
- Former Director and COO, Norilsk Nickel
- Former Partner, McKinsey & Co, Moscow

**Tagir Sitdekov – Non-Executive Director**
- Director at Russian Direct Investment Fund
- Director of OGK (power industry)
- Former Managing Director, A1, part of Alfa Group, Russia's largest private conglomerate

## Senior Management

**Peter Balka - Interim Chief Executive Officer**
- 30+ years in the resources industry – Rio Tinto, BHP, AMC Consultants, Newcrest, Oxiana, OZ Minerals
- Mining Engineer - broad experience in management, open cut and underground mining operations, project development and management, feasibility studies and due diligence

**Denis Kurochkin - CFO**
- ACCA accredited chartered certified accountant with Russian and international resource industry experience
- Formerly CFO at Gazprom Drilling BU and LSE listed Imperial Energy

**Sergey Efanov - General Manager Project F Operations and General Director for TIG's Russian subsidiaries**
- Mechanical and mining engineer with 25+ years in coal operations
- Extensive experience in coal mines in Vorkuta for Severstal and Kuzbass for Magnitogorsk Metallurgical Kombinat, large integrated steel companies

**Scott Southwood - General Manager Marketing**
- Chemical Engineer, 20+ years in coal marketing and mining operations with Rio Tinto, Shell Coal, Anglo Coal, Idemitsu and Aspire Mining
- Extensive coal marketing network across Asia

**Marcus Trost – Exploration Manager**
- Geologist with 10+ years in coal field geology and exploration management in Australia and Russia
- Formerly geotechnical engineering roles for major consulting firms and construction surveying for roadway projects

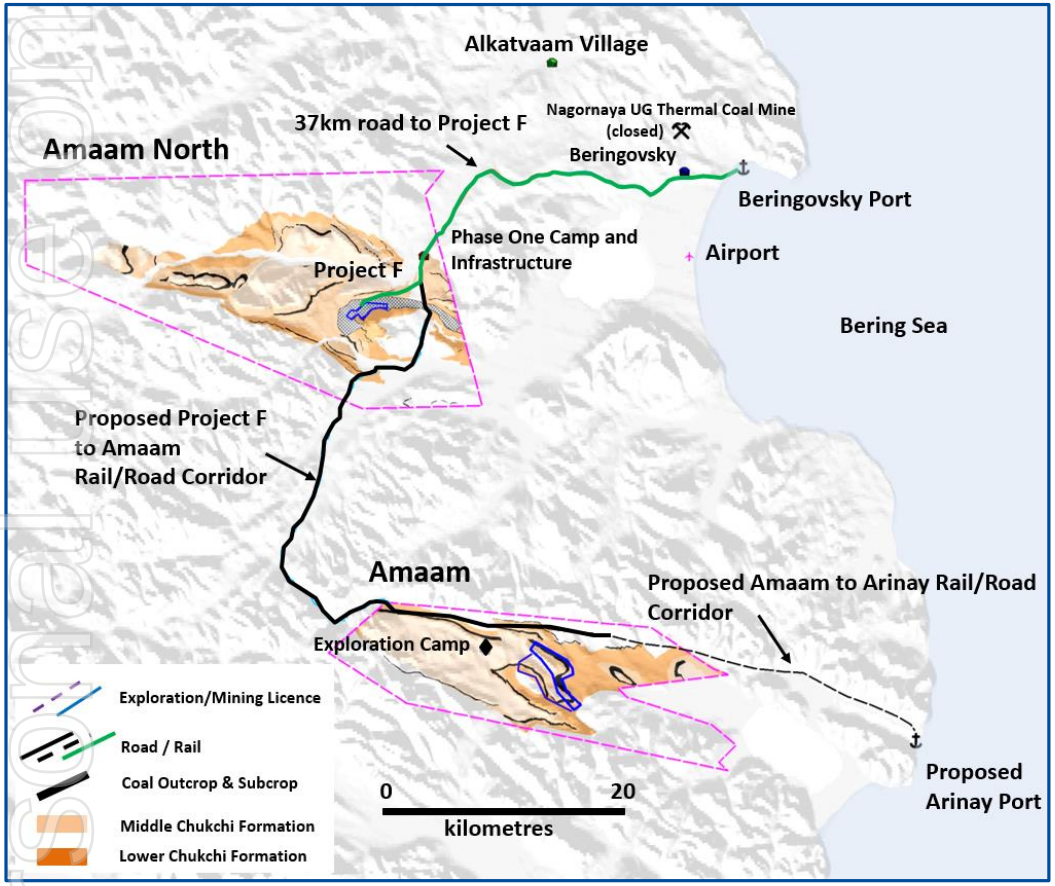
**Gennadiy Fandyushkin - Chief Geologist**
- Geologist (PhD), Associate Member of Russian Academy of Natural Sciences
- 50+ years in 5 major Russian coal basins including 30+ years in Chukotka covering Anadyr, Beringovsky and Amaam deposits

Preliminary Information Memorandum

# TIG Resource and Mining Development Strategy

**TIG's strategy is to continue to grow to become a significant supplier of 5 to 10 Mtpa of coking coal to the seaborne market via the progressive development of the Amaam North and Amaam coal basins**

## Project Stages and Key Components




### Stage 1 – Amaam North Project F

- Development of Project F to 1.0 Mtpa semi-hard coking coal operation shipping through TIG owned Beringovsky Port
  - **Phase One in production and building to a production rate of 0.6 Mtpa**
  - Phase Two to 1.0 Mtpa with construction of coal handling and preparation plant (CHPP) and infrastructure, port and mining fleet upgrades

### Stage 2 – Amaam North

- Production increases from **Project F to 2.0+ Mtpa** which is open to depth and along strike, and from many other **prospective areas of outcropping coal on Amaam North**

### Stage 3 – Amaam

- Development of **Amaam to full capacity** and the establishment of a transportation corridor to a year-round port at the deep water Arinay Lagoon
- Open pit PFS estimated **5 Mtpa of production over 20 years**

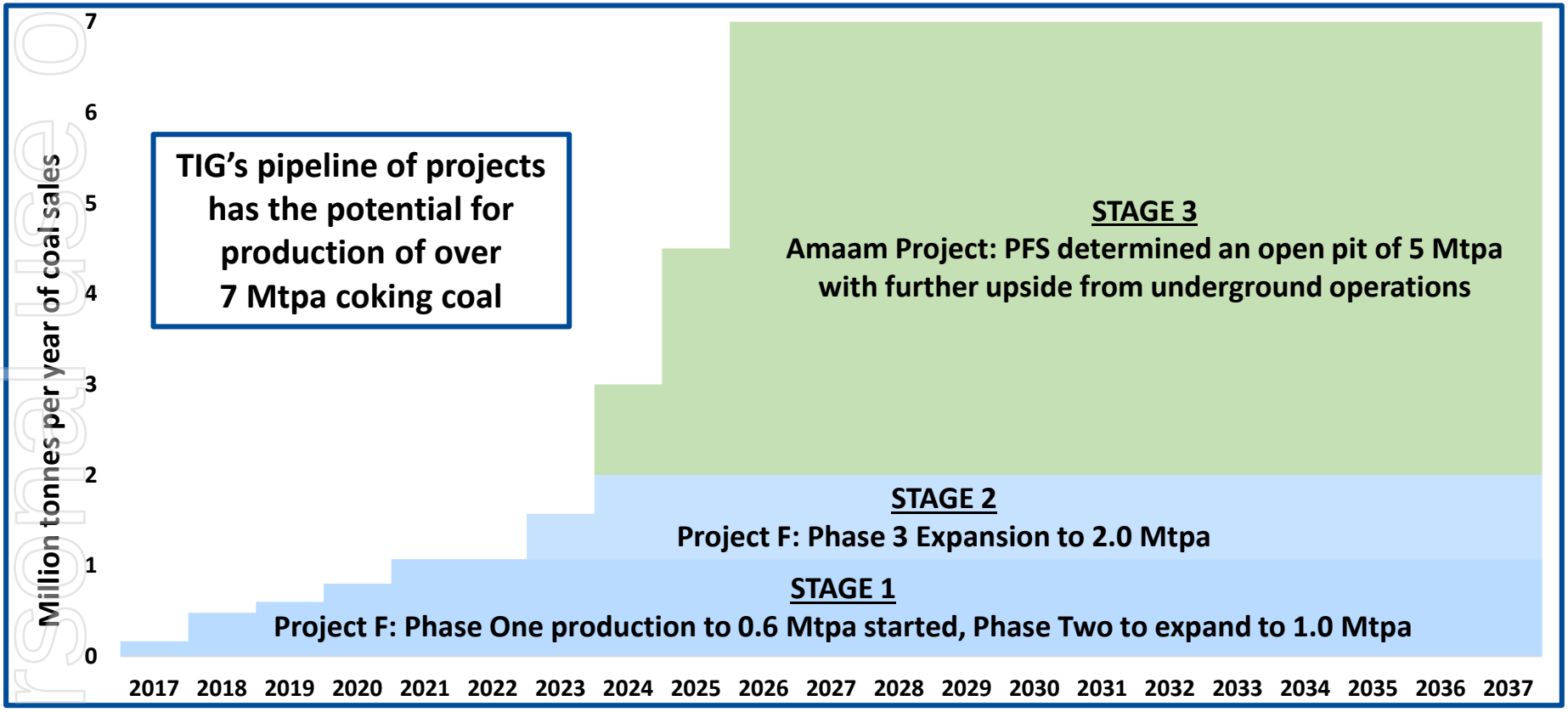
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# Flexible Management of TIG Development Strategy

**With the support of funding from key shareholders, TIG has consistently advanced the Amaam North and Amaam projects towards production**

- **2013** Deposit discovery, initial drilling, PFS, baseline studies
- **2014** Further drilling, baseline studies, DFS
- **2015** Further drilling, engineering, permitting
- **2016** Fund raising, construction, first production Q4
- **2017** Mining, Haulage, Sales, Debt Financing

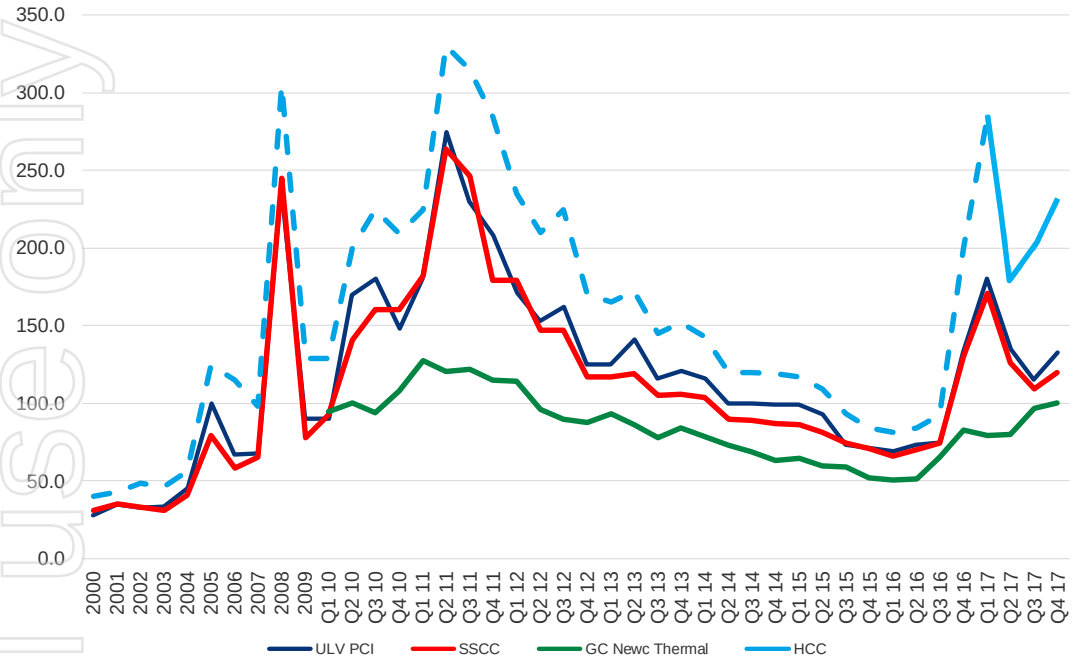
**TIG has focused on Project F since early 2013 and achieved first production in less than four years**




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# Coal Market Activity

## FOB Benchmark Coal Prices (US$/t)




Source: Wood Mackenzie and McCloskey

## Coking Coal

- 2017 prices finished strongly, with solid demand driving HCC spot prices up to US$250/t before end of year, due to ship-loader maintenance outages at Dalrymple Bay Coal Terminal in Queensland - a reminder of the concentration of global HCC supply
- Q4 2017 SSCC benchmark prices ranged from US$121 to US$125/t. Early Q1 2018 SSCC benchmark prices were settled at up to US$143/t

## Thermal Coal

- Thermal coal demand remained strong into early 2018, with the December 2017 monthly Newcastle index price (for 6000 kcal/kg NAR coal) at over $100
- Lower quality coal price discounts are expected to lengthen as Indonesian supply responds to high prices

## Market Analysts Opinion

- The supply interruptions in Q4 at Dalrymple Bay Coal Terminal and continuing strong demand has supported metallurgical coal prices into 2018
- Coking coal buyers are nervous about weather-related impacts as Queensland moves into cyclone season
- General customer concern persists, particularly in the coking coal sector, about lack of capital commitments to new and replacement capacity coal projects, as well as consolidation of producing assets

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# Overview of Project F







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# Project F – Development Strategy

- **Project F is a world-class coking coal project with strong operating and financial parameters**
- **Phase One low cost start up has moved Project F forward and improved funding options for expansion**

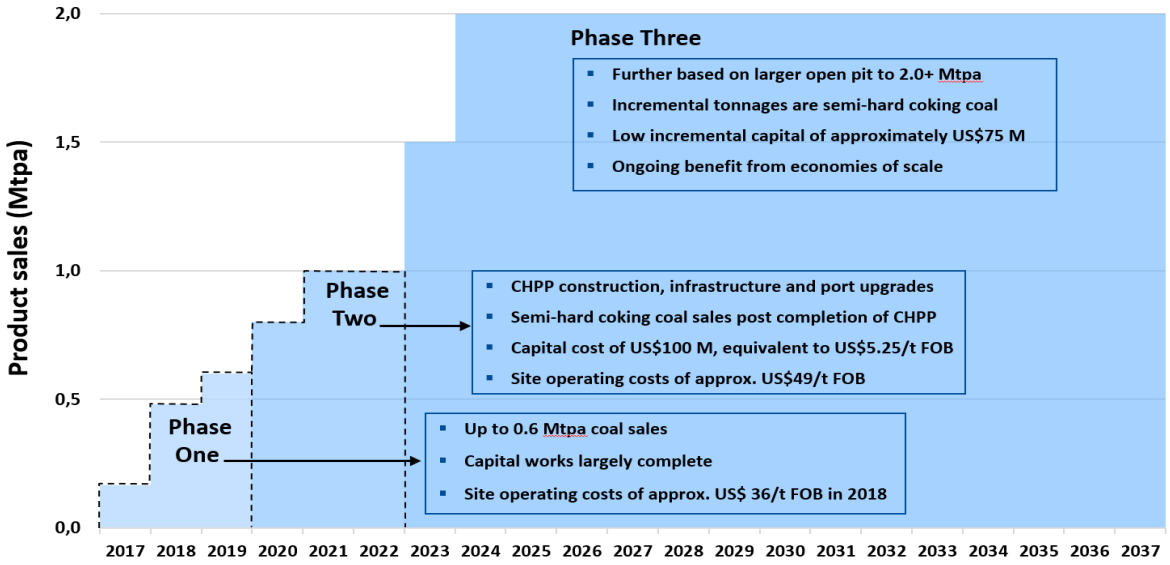
## Project F Feasibility Study, April 2016

- 1 Mtpa coal sales per year
- 4.9:1 waste to saleable coal stripping ratio
- Life of Mine (LOM) production of 18.9 Mt, comprising 13.4 Mt of semi-hard coking coal and 5.5 Mt of thermal coal
- Initial capital expenditure estimated at US$100M and operating costs at US$49/t FOB
- Expansion to 2 Mtpa based on larger open pit with over 30 Mt of saleable coal; costs due to higher stripping ratio offset by economies of scale

## Phase One Development

- 3.8 Mt of unwashed saleable coal with a 2.8:1 waste to saleable coal stripping ratio
- 2017 capital expended, 2018 forecast operating costs of US$36/t FOB Beringovsky Port[1]
- First unwashed coal sales July 2017
- Building to production of up to 600 ktpa of thermal and semisoft coal sales

## Project F Development Plan Timeline




1. FOB (free on board) and estimated using a Russian Ruble to US$ exchange rate of 58:1

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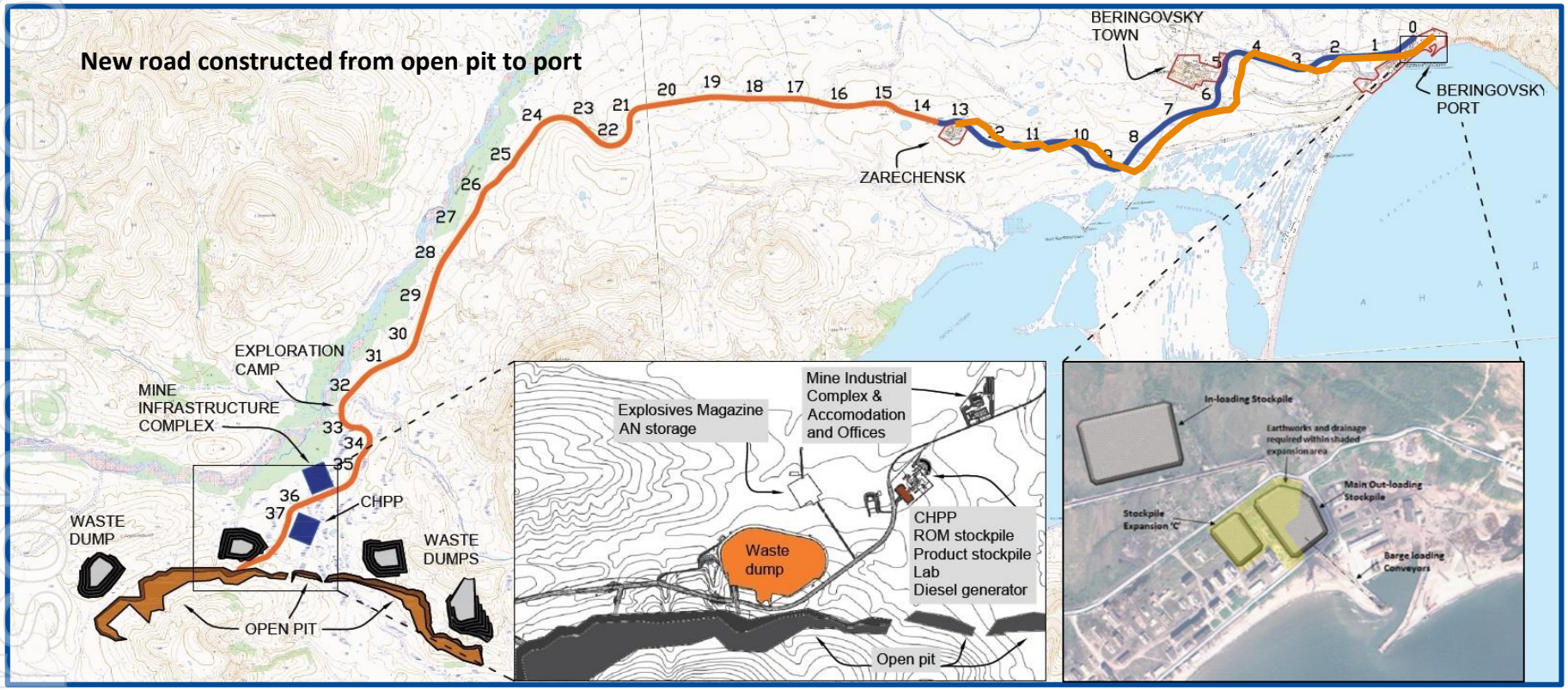
# Project F – Operations Layout

**Project F operations encompass the open pit and a 37km road from the planned CHPP to the wholly owned port**

| Project F 1 Mtpa Life of Mine Production Statistics | | | |
|---|---|---|---|
| ROM Coal[1] (Mt) | 24.4 | **Product Stripping Ratio (bcm : t)** | **4.9:1** |
| Waste (Mbcm) | 93.2 | Proved JORC Reserves Product (Mt) | 6.1 |
| **ROM Stripping Ratio (bcm waste : ROM t)** | **3.8:1** | Probable JORC Reserves Product (Mt) | 10.0 |
| Coking Coal Product (Mt) | 13.4 | **Total JORC Reserves Product (Mt)** | **16.1** |
| Thermal Product (Mt) | 5.5 | | |
| **Total Product[1] (Mt)** | **18.9** | **Seam 4 UG Resources below open pit (Mt)** | **56.0** |

**Port Beringovsky**

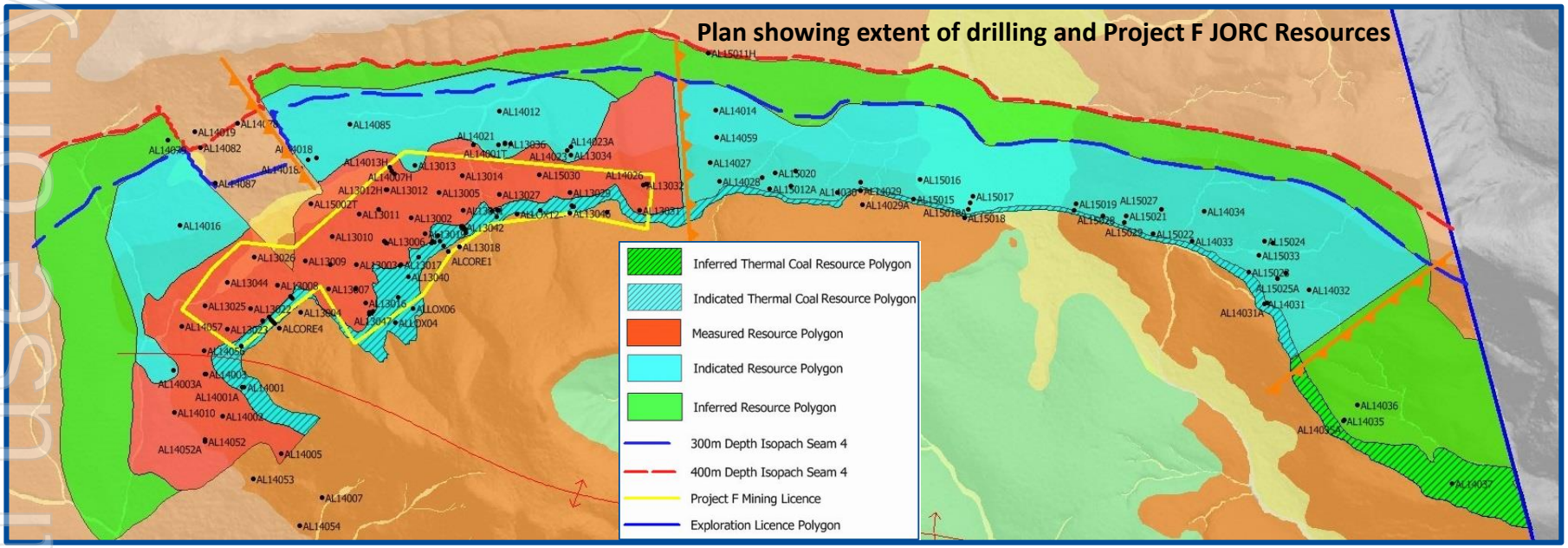
- **Fully operational transshipment port with offshore loading points for handymax and panamax vessels**
- **Peak historic coal throughput of >0.7 Mtpa; port requires refurbishment during expansion to 1 Mtpa**




1: ROM and Product Coal in plan comprise 85% Measured and Indicated, and 15% Inferred Resources

# Project F – Coal Resources & Reserves

- **Project F's resources of 110 Mt have the potential to support a 2 Mtpa open pit with 30Mt+ of coal sales, with additional potential production from underground mining of seam 4**
- **The low ash seam 4 comprises 45% of the resource base; future wash plant yields are forecast to be 65%+**



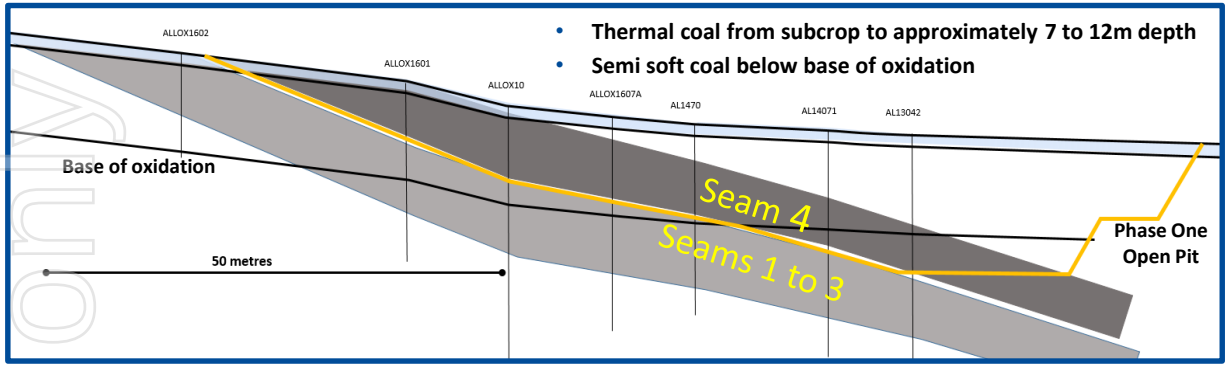

| Resources | Mt | Moisture, % | Ash, % | Volatile Matter, % | Fixed Carbon, % | Sulphur, % | CV, kCal/kg |
|---|---|---|---|---|---|---|---|
| **Seam 4** | 48.3 | 1.28 | 13.98 | 27.46 | 57.37 | 0.30 | 7,020 |
| **Seam 1 to 3 & 5** | 62.3 | 1.08 | 19.15 | 25.98 | 53.75 | 0.27 | 6,567 |
| **Total** | **110.6** | **1.17** | **16.90** | **26.63** | **55.33** | **0.28** | **6,765** |

| Resource Category (JORC) | Mt |
|---|---|
| Measured Resources | 22.0 |
| Indicated Resources | 55.7 |
| Inferred Resources | 32.9 |
| **Total Resources** | **110.6** |
| Proved Reserves Product | 6.1 |
| Probable Reserves Product | 10.0 |
| **Total Reserves Product** | **16.1** |

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# Project F - 2018 Plans

**TIG has successfully completed construction and proven the operation's mine to vessel logistics chain**




- Thermal coal from subcrop to approximately 7 to 12m depth
- Semi soft coal below base of oxidation










## Production and Sales

- Mine and deliver between 500 and 560 k tonnes of coal to the port at a 2.5:1 stripping ratio. Quarterly production ranges are as follows:
  - Quarter 1 - 110 to 125 kt
  - Quarter 2 - 115 to 130 kt
  - Quarter 3 - 155 to 170 kt
  - Quarter 4 - 120 to 135 kt
- Transship and sell between 420 to 480 k tonnes of coal during the shipping season from June to October
- Site cash costs for sales are budgeted to be US$36/t FOB Beringovsky Port[1]

## Marketing and Sales

- Agency agreements in place with major Japanese trading houses
- Building on 2017 sales to Asian markets: Japan, Taiwan and China
- Continued thermal coal sales into the local Chukotka market
- Forecast coal sales are expected to include at least 3 cargos of unwashed coking coal with the remainder a high CV thermal coal (approximately 6000 kcal/kg)

## The Tigers Team

- 160 staff at site including 45 from the local area
- 16 staff in Moscow and two part time in Australia

1. FOB (free on board) and estimated using a Russian Ruble to US$ exchange rate of 58:1

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# Project F – Indicative Coal Qualities

**Coal products have attractive properties for many Asian customers**

| | Phase One | | Project F | | |
|---|---|---|---|---|---|
| **Quality Parameter** | Unwashed Coking Coal | Seam 4 Thermal | Semi Hard Coking Coal | Seam 4 Thermal | Seams 1 to 3 Thermal |
| Total Moisture | 9.0 | 14.5 | 9.0 | 15 | 15 |
| Inherent Moisture | 1.5 | 2.5 | 1.0 | 3.5 | 3.5 |
| Ash (% adb) | 9.5 | 12.0 | 9.5 | 12 | 25 |
| Volatile Matter (% adb) | 27.5 | 27.5 | 27.2 | 27.5 | 23.8 |
| Fixed Carbon (% adb) | 61.5 | 58.0 | 62.3 | 57 | 47.7 |
| Total Sulphur (% adb) | 0.35 | 0.33 | 0.31 | 0.33 | 0.26 |
| Phosphorus (% db) | 0.06 | - | 0.04 | 0.037 | 0.037 |
| HGI | 65 | 65 | 75 | 65 | 63 |
| Crucible Swelling No. | 5 | <1 | 6 -7 | <1 | <1 |
| Maximum Fluidity (ddpm) | 80 | - | 80 - 100 | | |
| Rank (RoMax %) | 1.0 | - | 1.0 | | |
| Vitrinite (% by vol.) | 55 - 60 | - | 55 - 60 | | |
| Calorific Value (kcal/kg, net as received) | - | 5,875 | - | 5,700 | 4,700 |
| Chlorine (% db) | - | 0.03 | - | 0.034 | 0.028 |
| Ash Fusion (°C red.) Deformation | - | 1,320 | - | 1,320 | 1,500 |
| Spherical | - | 1,350 | - | 1,350 | 1,530 |
| Hemisphere | - | 1,380 | - | 1,380 | 1,550 |
| Flow | - | 1,400 | - | 1,400 | 1,560 |

Source: Project F Feasibility Study, April 2016

### Semi Hard Coking Coal (SHCC)

- Represents estimated ~90% revenue in 1.0 Mtpa Base Case
- Coking product based on a blend of raw and washed Seam 4 coal with washed lower seam (Seams 1-3) coal
- Quality similar to well known Queensland SHCC- Blackwater, Dawson Semi-hard, Cook, Poitrel
- Very low sulphur and phosphorus
- Accepted by major Japanese and Taiwanese steel mills

### Unwashed Coking Coal

- Sales to Japan, Taiwan and China in 2017
- Suitable for steel mills across Asia

### Thermal Coal

- Two general types (Seam 4 and Seams 1-3) with saleable products to be blended depending on customer requirements
- Seam 4 thermal is marketable in most Asian markets – Japan, Korea, Taiwan, China, SE Asia
- High CV, low ash, low sulphur bituminous thermal coal
- Favourable for smaller general industry users in Northeast Asia (low ash and sulphur, requirements for smaller vessels)

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# Project F – Financial Overview

**Due to low stripping ratio, short haulage distance and TIG owned port, site costs are estimated at US$ 49/t FOB. Project F has the potential to be one of the world's lowest cost coking coal producers**

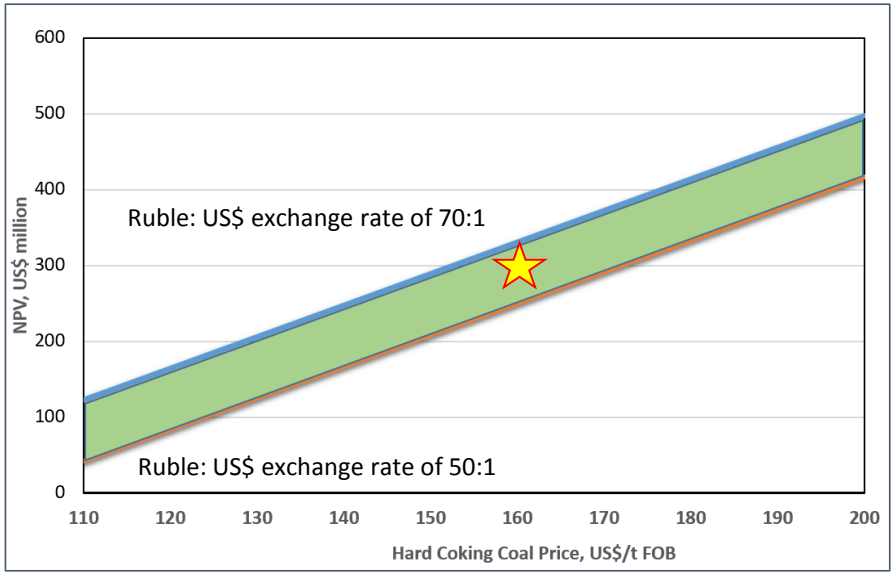
### Project Capital Costs (US$M)

| | 2017 to 2019 | 2019 - 2038 | LOM |
|---|---|---|---|
| Mobile Fleet[1] | 7.1 | 12.7 | 19.8 |
| Open Pit Area | 6.0 | | 6.0 |
| CHPP | 14.7 | | 14.7 |
| Road Upgrade | 16.2 | | 16.2 |
| Port Upgrade | 9.4 | | 9.4 |
| Infrastructure | 20.5 | | 20.5 |
| Indirect Costs | 7.8 | | 7.8 |
| Owners Costs | 4.2 | | 4.2 |
| Contingency | 12.9 | | 12.9 |
| Closure Costs | | 20.0 | 20.0 |
| **Total** | **98.8** | **32.7** | **131.5** |

### Production Operating Costs (US$/t FOB)

| | |
|---|---|
| Mining | 16.8 |
| CHPP | 5.8 |
| Coal Transport & Port | 13.0 |
| Admin & Services | 7.5 |
| Leasing | 5.4 |
| Mineral Extraction & Property Taxes | 0.8 |
| **FOB Operating Costs** | **49.3** |
| Corporate Costs | 3.1 |
| Vendor Payments[2] | 1.3 |
| **Total TIG Costs** | **53.7** |

### Potential NPV of 1 Mtpa Project F After Tax




**Based on forecast Hard Coking Coal prices of approximately US$160/tonne FOB[3], Project F has an NPV of US$297M, equivalent to A$396M**

Source: Project F Feasibility Study Update April 2016 updated with 2017 operational experience and based on a Russian Ruble to US$ exchange rate 60:1

1. Capital Costs include 20% of purchase cost – remaining 80% in leasing costs; 2. Vendor Payments relate to initial project acquisition costs; 3. Revenues for semi-hard coking coal based on a 15% discount to the hard coking coal price; revenues for thermal coal based on US$45/t FOB

# Project F – In Production

























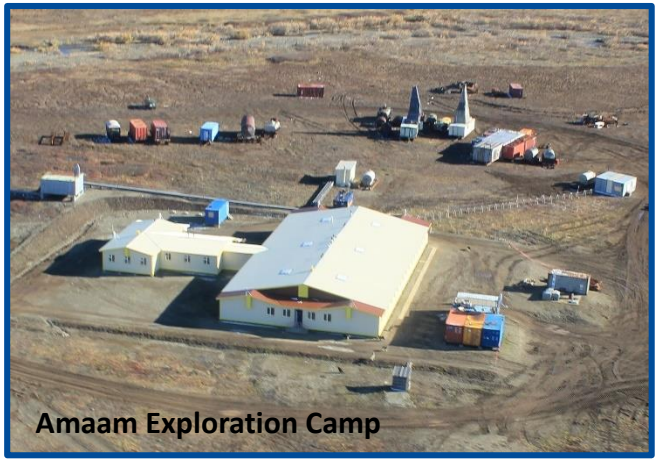
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# Overview of Amaam

**TIG is completing a 2,000 m drill program in 2018 to expand Amaam resources into a prospective area south of the current resource base**



Amaam Coal Outcrop



Amaam Exploration Camp

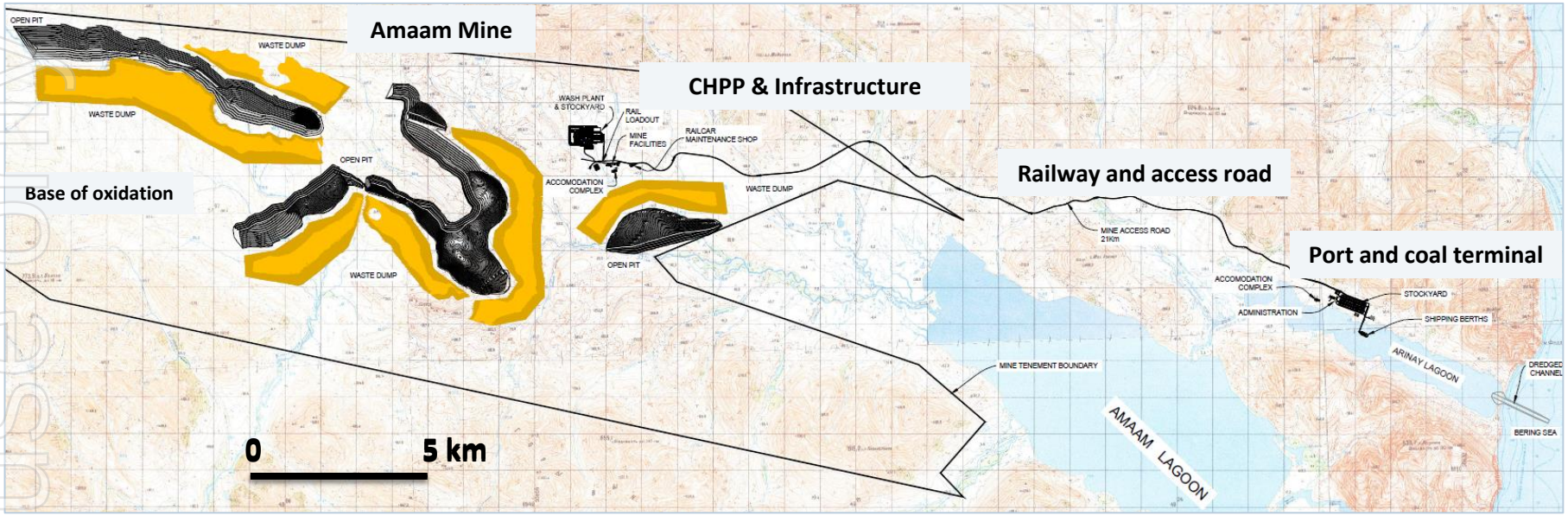


Arinay Lagoon - Site of the proposed (up to capesize)
5 to 10 Mtpa year round port

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# Amaam – Large Scale, High Quality Coking Coal Mine Potential

**Pre-feasibility Study – Mine Plan, CHPP, Infrastructure and Logistics Corridor**



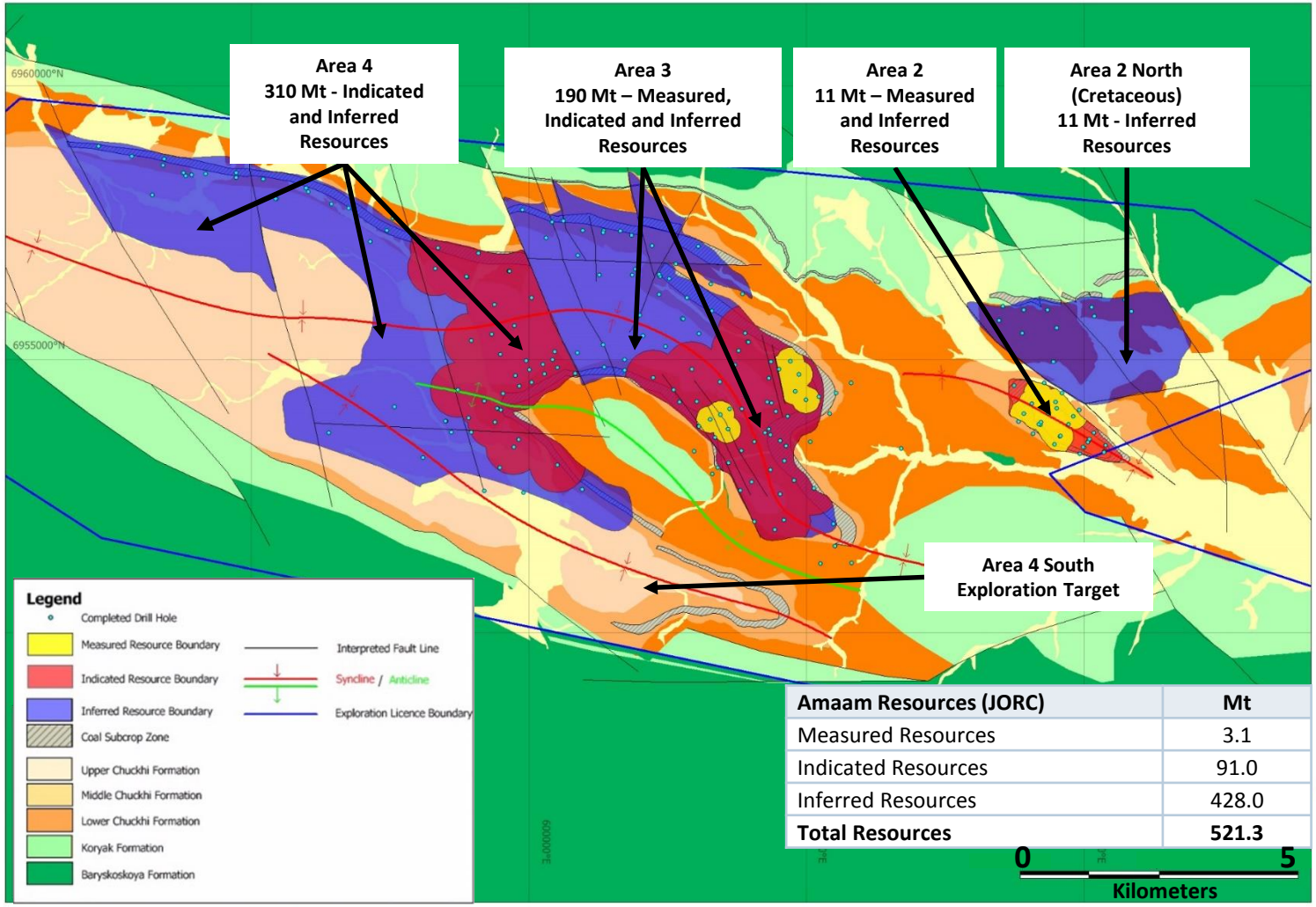

- Coking coal resource of **521 Mt only 30 km from the Pacific Coast**
- High quality, high vitrinite and **high fluidity coking coal**
- **PFS completed in 2013** indicated potential for a large, long life fully integrated operation
- **Arinay Lagoon -** a year round deep water port capable of receiving cape-sized vessels, listed in enacted federal government legislation covering future Russian infrastructure projects
- **Close to Asian markets** - ~8 days shipping distance
- Ideal project for the world's and particularly Asian steelmakers




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# Amaam – World Class Resource of High Fluidity Coking Coal

**A well defined open pittable resource well positioned to move to the next stage of development**




| Amaam Resources (JORC) | Mt |
|---|---|
| Measured Resources | 3.1 |
| Indicated Resources | 91.0 |
| Inferred Resources | 428.0 |
| **Total Resources** | **521.3** |

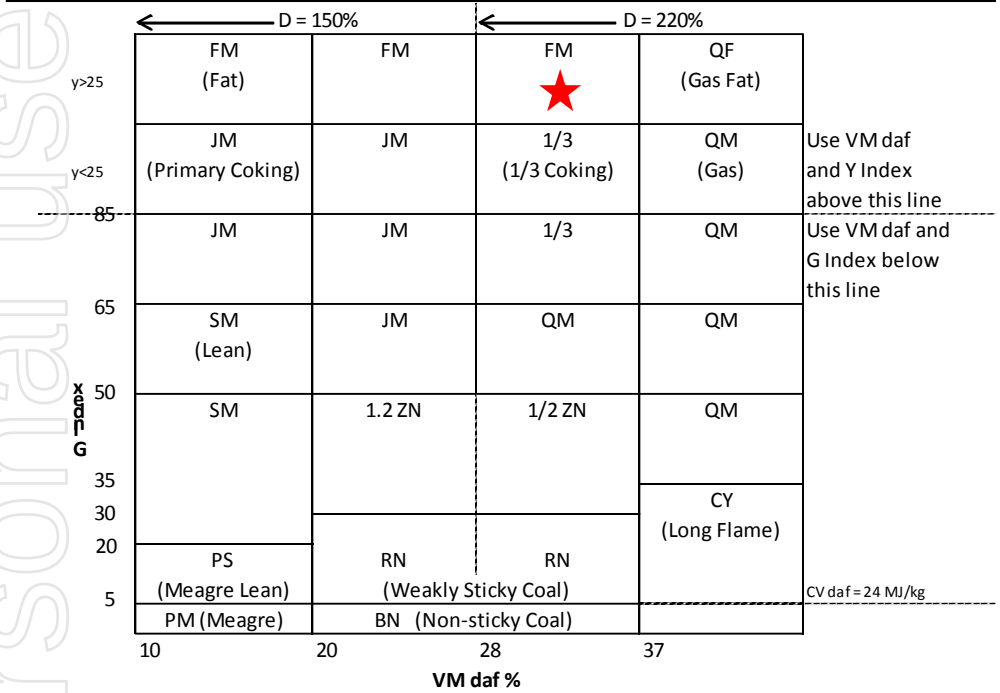
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# Amaam – Coal Quality

**Amaam's high quality coal will foster demand from North Asia**

- **Coal quality work testwork indicates** the Amaam product will be **an attractive blend coal for the Asian steel market**
- High vitrinite (>90%) washed coal exhibiting **superior plastic properties** (CSN, Grey King and fluidity)
- Will be classified as a fat (Fm) coking coal, **in high demand in China and North East Asia**

**Amaam Coking Coal (★) on Chinese Coal Classification System**




| Quality Parameter | Premium Coking Coal | Hi Vol Coking Coal |
|---|---|---|
| Total Moisture (%) | 10.0 | 10.0 |
| Inherent Moisture (% adb) | 1.0 | 1.0 |
| Ash (% adb) | 10.0 | 10.0 |
| Volatile Matter (% adb) | 28.6 | 34.2 |
| Fixed Carbon (% adb) | 60.4 | 54.8 |
| Total Sulphur (% adb) | 0.88[1] | 1.10 |
| Phosphorus (% adb) | 0.13 | 0.11 |
| Crucible Swelling Number | 8.5 | 8.0 |
| Gray-King Coke Type | G9-G12 | G7-G11 |
| G Index | 96 | 100[2] |
| Sapozhnikov Plastometer (Y, mm) | 26 | 25 |
| Maximum Fluidity (ddpm) | 50 - 18,500 | 50 – 50,000 |
| Dilatation (max dilatation, %) | 20 - 328 | 33 – 140 |
| Rank (RoMax %) | 1.1 | 0.86 |
| Vitrinite (% by vol.) | 92 | 90 |

1. Includes high TS coal plies (~5% of samples with TS of 2.5% and above, which could be excluded) – median TS is 0.60%
2. Based on a limited number of samples

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# Amaam – Financial Overview

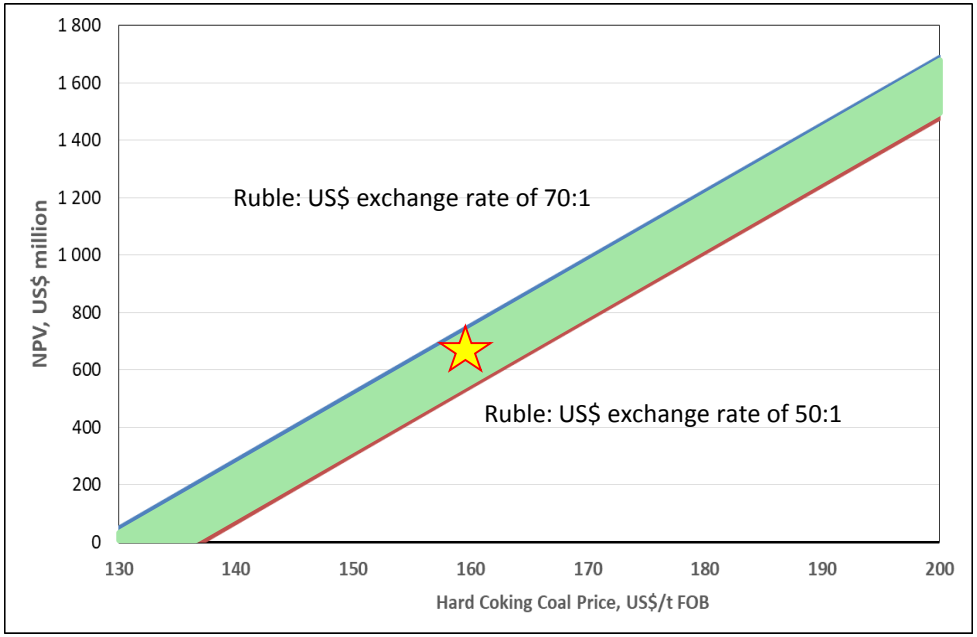
- **The Amaam Pre-feasibility Study outlined the potential for a large scale long life open pit operation**
- **TIG is assessing options for phasing commencement of operations to reduce up front capital costs**

**Project Capital and Operating Costs[1] (US$M)**

| | |
|---|---|
| Mine | 254 |
| CHPP | 443 |
| Infrastructure & Owners Team | 229 |
| Rail | 95 |
| Port & Marine | 323 |
| **Pre-production Capital Costs** | **1,344** |
| **Mining Sustaining Capital Costs** | **1,187** |
| **Total LOM Capital Costs** | **2,531** |

- The Prefeasibility study estimated pre-production capital costs of around US$1.3 billion
- Amaam operating costs are estimated to be approximately US$70 to U$80/t FOB based on current Project F operating experience (labor, fuel, etc.) and based on a Russian Ruble to US$ exchange rate of 60:1

**Potential NPV of Amaam After Tax**




★ Based on forecast Hard Coking Coal prices of approximately US$160/tonne FOB[2], Amaam has an NPV of US$650M, equivalent to A$860M

1. Amaam Pre-feasibility Study March 2013
2. Revenues for Amaam coking coal based on a 5% discount to the Hard Coking Coal Price







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