











# **Building a leading coking coal company**

Corporate Update

July 2012

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#### **Exploration Target statement**

The potential quantity and quality of the exploration targets identified in this Presentation are conceptual in nature, and there has been insufficient exploration to date to define a mineral resource in accordance with the Australasian Code for Reporting of Mineral Resources and Ore Reserves published by the Joint Ore Reserves Committee ("JORC Code"). Furthermore, it is uncertain if further exploration at its exploration targets will result in the determination of a mineral resource.

#### **Competent Persons statement**

The information compiled in this release relating to coal resources within the Amaam tenements is based on information provided by Tigers Realm Coal Limited and compiled by Neil Biggs, who is a Chartered Professional Member of the Australasian Institute of Mining and Metallurgy and who is employed by Resolve Geo Pty Ltd. Neil 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 2004 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" ("JORC Code"). Neil Biggs consents to the inclusion in the release of the matters based on his information in the form and context in which it appears. The competent person does not consent to, and does not accept any responsibility for, any statements or figures contained within this release concerning Amaam North.

#### **Forward-looking statements**

This Presentation contains forward-looking statements which are identified by words such as 'may', 'could', 'believes', 'estimates', 'targets', 'expects', 'intends' and other variations of such words that Involve risks and uncertainties. The forward-looking statements include statements regarding the future development of the Amaam project, including cost and timing estimates.

These statements are based on an assessment of present economic and operating conditions, and on a number of assumptions regarding future events and actions that, at the date of this Presentation, are expected to take place.

Such forward-looking statements are not guarantees of future performance and involve known and unknown risks, uncertainties, assumptions and other important factors, many of which are beyond the control of the Company. Actual results and developments may differ materially from those expressed or implied in such statements because of a number of factors, including uncertainty in estimating mineral resources due to the preliminary stage of the Company's assessment of its projects, actual demand, price fluctuations, the ability to produce and transport products profitably, fluctuations in foreign currency exchange rates, operational problems, political risks, economic and financial market conditions in various countries and regions, industry competitors and activities by governmental authorities such as changes in taxation or regulation. The Company cannot and does not give any assurance that the results, performance or achievements expressed or implied by the forward-looking statements contained in this Presentation will actually occur and investors are cautioned not to place undue reliance on these forward-looking statements.

The Company does not intend to update or revise forward-looking statements, or to publish prospective financial information in the future, regardless of whether new information, future events or any other factors affect the information contained in this Presentation, except where required by law.

These forward-looking statements are subject to various risk factors that could cause the Company's actual results to differ materially from the results expressed or anticipated in these statements.



# 1 Company overview









# TIG at a glance



- Pure play coking coal development company (TIG:ASX)
- Strategic land holding in the Bering Basin in Chukotka, far east Russia
- Two sub-basins held under separate title Amaam and Amaam North
- Significant resource base (406Mt) with strong growth potential
- Amaam scoping study confirmed potential for large scale open pit mining operation
  - >5Mtpa premium coking coal
  - Fully integrated mine, wash plant, 30km rail and greenfield port
- Pre-feasibility study on track for completion in December 2012
- Favourable investment location:
  - Government supportive of regional development and encouraging FDI
  - 20% corporate tax and US\$2/t state royalty

#### **Location – Amaam Project**



#### **Tenement Ownership**

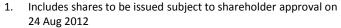
	Amaam	Amaam North
Ownership / earn in	40% (up to 80%)	80%
Tenement Area	231Km <sup>2</sup>	478Km <sup>2</sup>
Inferred Resources	406Mt	Pending drilling
Exploration Target	180-280Mt	-

## **Corporate snapshot**

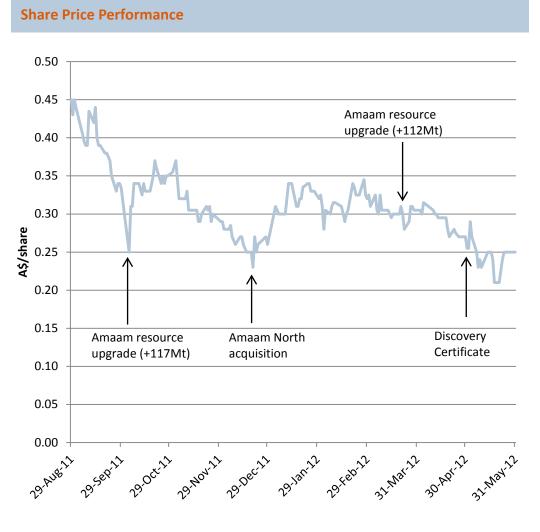


Capital Structure	
ASX code	TIG
Share price (30/06/12)	\$0.18
Shares on issue <sup>1</sup>	413.5M
Options	38.8M
Market cap (fully diluted)	\$81.4M
Pro-forma cash (30/06/12)	\$16.4M
Enterprise Value	\$65M
Resource Tonnes (100% basis)	406Mt
Resource Tonnes (equity interest) <sup>2</sup>	325Mt
EV per Resource tonne (equity interest)	\$0.20/t

Ownership <sup>3</sup>	
Tigers Realm Minerals	29.0%
Bruce Gray	4.9%
Tony Manini	4.7%
Couchy	4.5%
Lodestone Equities	4.0%
Owen Hegarty	3.9%
Regent Pacific	3.1%



<sup>2.</sup> Assumes 80% equity interest in Amaam



<sup>3.</sup> Publicly identifiable beneficial shareholders holding >3%

# **Progress update**



Amaam – project milestones	Achieved	Target	Actual	Comment
Delineate initial resource	<b>√</b>	Q4-10	Q4-10	68 Mt Inferred Resource
Interim resource upgrade 2011	<b>✓</b>	Q2-11	Q2-11	177 Mt Inferred Resource
Resource upgrade 2011	<b>√</b>	Q4-11	Q4-11	294 Mt Inferred Resource
Interim resource upgrade 2012	<b>V</b>	Q2-12	Q2-12	406 Mt Inferred Resource
Resource upgrade 2012		Q3-12		2011/12 drilling completed, modelling in progress
Pre-Feasibility Study		Q4-12		

Amaam – permitting milestones	Achieved	Target	Actual	Comments
Exploration licence – 3 year extension	<b>√</b>	Q3-11	Q3-11	3 year extension to November 2014
Registration of Amaam deposit	<b>V</b>	Q1-12	Q4-11	Registered with Chukotnedra
Application for Discovery Certificate	<b>V</b>	Q1-12	Q1-12	
Award of Discovery Certificate	<b>V</b>	Q2-12	Q2-12	Prerequisite for Mining Lease application
Application for Mining Licence (Area 3)		Q3-12		
Award of Mining Licence (Area 3)		Q1-13		Primary tenure for mining

Arrinay Port - permitting milestones	Achieved	Target	Actual	Comments
Base-line environmental assessment	$\checkmark$	Q4-11	Q4-11	
Apply for approval to commence port design	<b>V</b>	Q1-12	Q1-12	
Approval to commence detailed port design		Q4-12		

# **Board and management**



## Board and management team with a strong track record in project delivery and portfolio growth

#### **Board**

#### **Tony Manini - Chairman**

- 24+ yrs diverse resource industry experience including 14 years Rio Tinto
- Senior executive roles at Oxiana / OZ Minerals
- Founder of TRM and TIG

#### **Martin Grant - Managing Director and CEO**

- 20+ years experience in the resources industry
- 7 years senior executive roles in BHPB / BMA coal divisions
- 10 years UBS / GS JBWere

#### **Owen Hegarty - Non-Executive Director**

- 40+ years industry experience
- Senior Executive at Rio Tinto
- Founder and CEO of Oxiana Limited
- Director Fortescue, AuslMM
- Founder TRM, TIG

#### **Brian Jamieson - Independent Non-Executive Director**

- Former CEO Minter Ellison Melbourne, CEO KPMG Australia
- Chairman Mesoblast, Sigma
- Director OZ Minerals, Tatts

#### **Senior Management**

#### Peter Balka - GM Projects and Studies<sup>1</sup>

Mining Engineer, 25+ years in open cut and underground mining operations, project management, feasibility studies and due diligence

#### Paul Smith - Chief Financial Officer

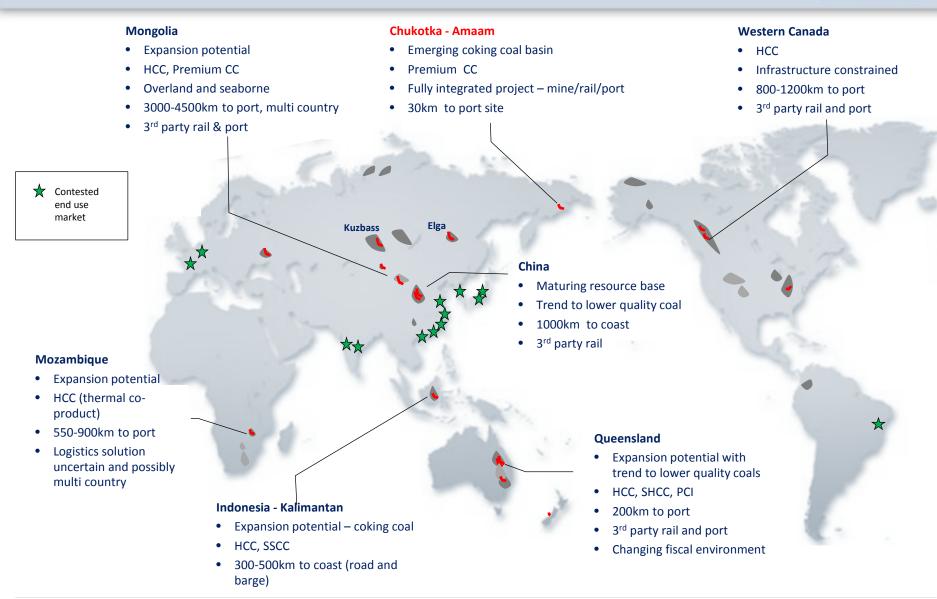
- 23+ years experience including BHP Billiton Mitsubishi Alliance, BHP Carbon Steel Materials and BHP Iron Ore.
- Experience covers senior finance, strategy and operations.Former CFO of Golding Group Pty Ltd.

#### **Leonid Skoptsov - General Director NPCC - Russia**

20+ years diverse resource industry experience in Russia covering project generation, exploration, development and operations

# Coking coal basins – quality & logistics remain key







# 2 Amaam project



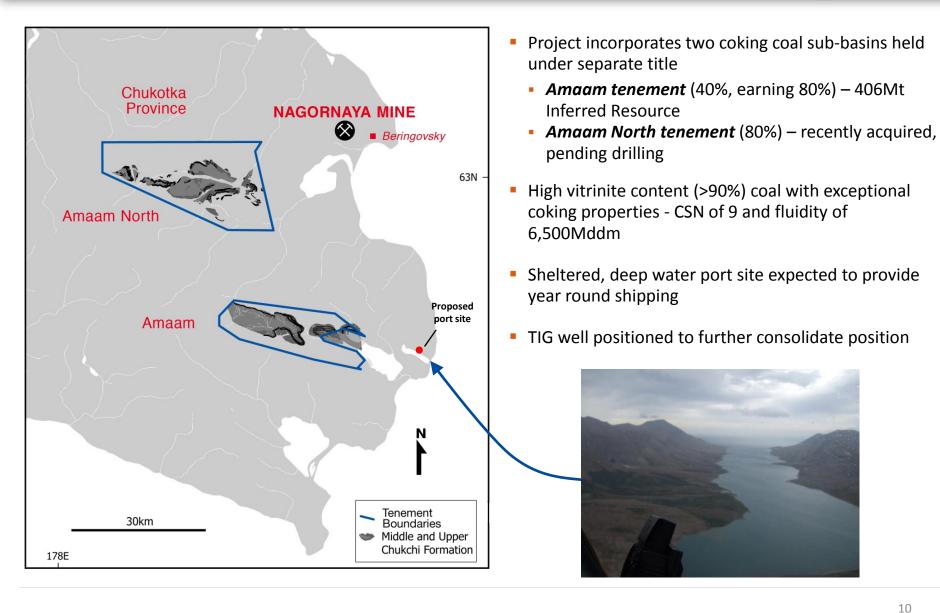






## **Amaam project overview**





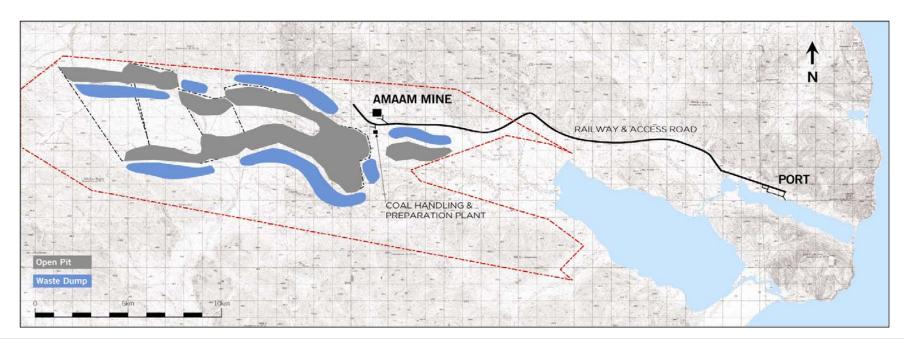
# Amaam - positive results from 2011 scoping study



Preliminary technical studies indicate potential for development of a large scale, open cut mining operation and conventional CHPP to produce a single washed coking coal product

- Fully integrated operation open cut mine, wash plant, 30km rail and port
- Saleable production of +5.3Mtpa premium coking coal
- Capital efficient on an owner operated basis at ~US\$275/t product
- Competitive cash operating cost of US\$88/t FOB

Key Project Parameters	Average
Saleable product (Mt)	5.3
ROM production (Mt)	10.0
Strip ratio (BCM:t)	12:1
Mine life (years)	+20
Development Capex (US\$Bn)	1.45
Cash costs (US\$/t FOB)	88



## **Amaam tenement - capital and operating costs**



The preliminary technical studies undertaken as part of the 2011 scoping study made development capital and operating cost estimates as set out below. These estimates are preliminary and based on a number of untested assumptions

#### Amaam Development Capital Estimate<sup>1</sup>

Item	US\$M
Mining Fleet	470
CHPP	290
Mine Infrastructure	120
Roads and railway	80
Port	280
Owners cost	40
Other	20
Contingency	150
Total capital to steady state production	1,450

### **Amaam Operating Cost Estimate**<sup>1</sup> (excl. royalties)

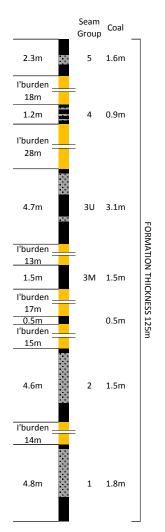
Item	US\$/t ROM Coal	US\$/t Saleable Coal
Mining	38	71
Coal handling and preparation	3	6
Coal transport, handling and loading	3	5
General and administration	3	6
Total	47	88

<sup>1:</sup> All capital and operating expenditure estimates have been independently prepared by Ausenco Sandwell, Bob Leach Pty Ltd and Minarco MineConsult and are quoted on 100% basis

# Amaam tenement – geology and prospectivity



# Stratigraphic column hole 0060

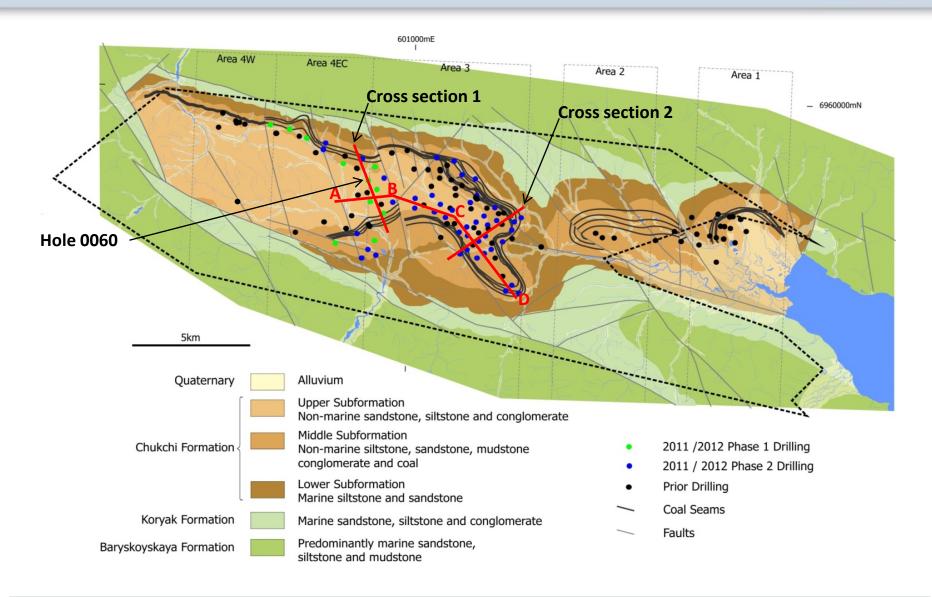


- Multi seam, moderately dipping deposit within a synclinal structure
- Host formation comprises four to five seam packages of mineable thicknesses
- Cumulative coal thickness of packages ranges between 6m and 25m over a host formation of 80m to 130m



# Amaam tenement – geology and prospectivity (cont.)

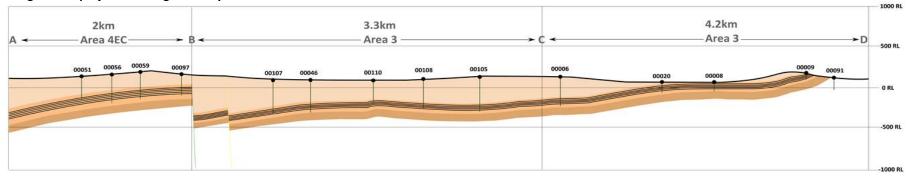




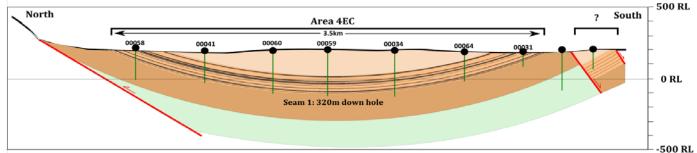
# Amaam tenement – geology and prospectivity (cont.)



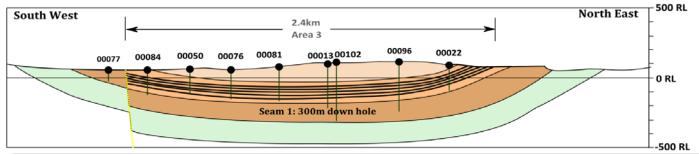
#### Longitudinal projection along axis of syncline: Line A - B - C - D



#### **Cross Section 1**



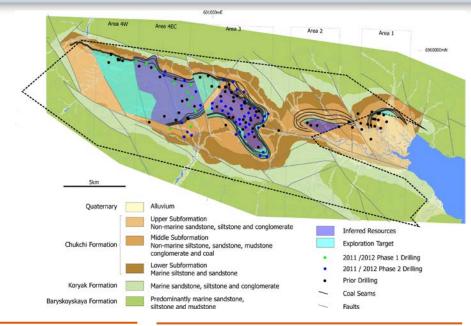
#### **Cross Section 2**



## **Amaam tenement - resources and exploration target**



- 406Mt JORC compliant Inferred Resource
- Additional exploration target of 180Mt to 280Mt
- Majority of delineated resource is located in Area 3 and Area 4EC



Exploration target<sup>2</sup> (100% basis)

Area

Area 4W

**Total (Rounded)** 

Inferred Resources <sup>1</sup> (100%	basis)	Raw coal quality (100%	6 basis)	Average
Depth	Mt	Parameter	Oct 2011 All Areas	May 2012 Area 4EC
Open cut to 400m	308	Ash (% AD)	32.2	32.2
Underground below 400m	98	Air Dried Moisture (%)	2.3	2.3
Total Inferred Resource	406	Volatile Matter (% AD)	25.7	29.3
Total Illicited Resource	400	Fixed Carbon (% AD)	40.1	41.4
		Relative Density	1.6	1.6

# Area 1 2 3 Area 2 21 33 Area 3 30 47 Area 4EC 40 60

Lower Range Mt

86

180

**Upper** 

Range Mt

135

280

<sup>1:</sup> JORC defines an Inferred Mineral Resource (in part) as "that part of a Mineral Resource for which tonnage, grade, and mineral content can only be estimated with a low level of confidence." Inferred Mineral Resources must be upgraded to the Measured or Indicated categories before they can be converted to Reserves.

<sup>2:</sup> Exploration target includes open cut and underground tonnages. The potential quantity and grade of the exploration targets is conceptual in nature, there has been insufficient exploration to define a Mineral Resource and it is uncertain if further exploration will result in the determination of a Mineral Resource.`

## Amaam tenement - coal quality & washability



- Preliminary coal quality work suggests the Amaam product will be an attractive blend coal for the Asian steel market
- High vitrinite (>90%) washed coal exhibiting superior carbonisation properties (CSN, Grey King and fluidity)
- Coal quality evaluation ongoing with initial coke test work to commence in 2H 2012
  - A&B Mylec appointed as coal quality consultant for the PFS
  - Theoretical coke modelling to be followed by coke test work using Amaam coal on standalone (100%) and on blended basis

Preliminary product coal quality <sup>1</sup>	Average
Total Moisture (%)	9.0
Ash (% AD)	9.0
Volatile matter (% AD)	29.7
CSN	9.0
Grey King Coke Type	G10
Sulphur (% AD)	0.75
Phosphorous (%AD)	0.14
Romax (Rank)	1.07
Vitrinite (%)	91.0
Fluidity (Mddm)	6,500

<sup>&</sup>lt;sup>1</sup> Coal quality data is based on limited sampling and test work. Additional sampling and testing may product different results, and coal from resources that have not yet been identified and sampled may have different properties. Source: Bob Leach Pty Ltd

## **Amaam Pre-Feasibility Study**



- Key objectives of the PFS
  - Set the scope of work for the go forward case to be detailed during the Bankable Feasibility Study
  - Identify those parts of the operation which will be expanded by the future development of Amaam North
  - Determine the potential for early production of unwashed coal via Beringovsky Port
  - Confirm the feasibility of year round shipping operations
  - Conduct clean coal and coke quality test-work focusing on coking properties to confirm optimal yield and product mix in concert with marketing studies
- Consultants appointed to date
  - Ausenco Sandwell infrastructure and port
  - Minarco Mineconsult mining
  - AB Mylec coal quality
  - Royal Haskoning maritime logistics
  - Cetco Carolina CHPP engineering
  - Golder ESIA

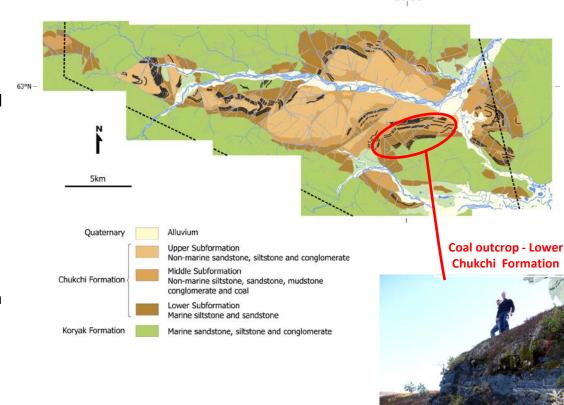




## **Amaam North tenement**



- Mapping of the deposit has identified multiple coal exposures, 30 of which are >2m true seam thickness
- Results suggest the presence of a second coal host horizon not present at Amaam
  - Lower Chukchi Formation
  - Thick seams 6-10m
- TIG considers Amaam North to be prospective for high volatile semi soft to semi hard coking coal
- Drilling to commence in 2012/13 season



#### Petrographic Analysis – Amaam vs Amaam North (preliminary)

	Amaam Middle Chukchi	Amaam North Middle Chukchi	Amaam North Lower Chukchi
RoMax	1.07	0.76	1.0
Vitrinite content (%)	91%	92%	57%

# Health, safety and environmental management



#### **Health and safety**

- Strong and positive safety culture based on visible and effective leadership, ongoing education, training, provision of effective tools and equipment
- Robust management systems across our business
- Focus on hazard identification and management of risks

#### **Environmental Management**

- Baseline environmental studies commenced in 2011
- The studies will be used to develop the Environmental and Social Impact Assessment (ESIA) for the project
- ESIA developed in accordance with Russian requirements and IFC Standards





## **Community & government relations**



#### **Our commitments**

- Build relationships and work in a cooperative manner with indigenous peoples, local communities, partners, government and NGOs based on mutual respect, open and transparent dealings and long term commitment
- Assist and support regional development, training, community based projects and small business opportunities within our host communities
- Provide equal opportunity and a work environment in which everyone is treated fairly and with respect, encourage a diverse workforce

#### **Initiatives**

- Stakeholder engagement plan developed as part of ESIA study, meets IFC Performance Standards
- Baseline social studies underway
- Formal agreement on social investment signed with the District of Anadyr and the Regional Branch of the Association of Indigenous Minorities of the Chukotka of the North, Siberia and Far East







# Operating environment





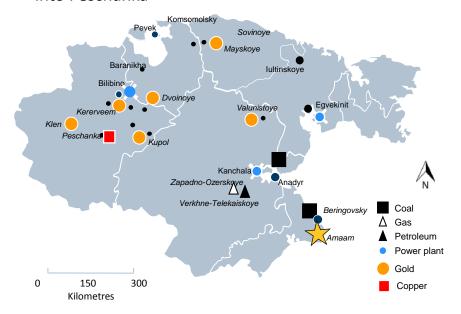




# Chukotka – emerging resources province



- Government is supportive of regional development and is encouraging foreign direct investment
- Western companies have operated in Chukotka since 2002, including TXS listed Kinross producing gold at Kupol since 2008
- UK's Highland Gold Mining recently acquired for \$69 million the Klen gold deposit
- BHP Billiton reported to be in discussions to farm into Peschanka





**Sergey Lavrov** Russian Foreign Minister

Asia Pacific and the development of far east Russia - "It is natural the Asia Pacific is one of the key priorities of Russia's foreign policy...... The economic and infrastructure development of Siberia and the Far East is a strategic objective for Russia. We are sure that our partners from Asia Pacific will be able to make a significant contribution to the implementation of large scale projects related to this objective....." (Source: Article for the Indonesian Strategic Review, March 2012)



Roman Kopin Governor of Chukotka

Chukotka and foreign direct investment - "The key factors here are the creation of comfortable conditions for investment; the minimisation of bureaucratic hurdles and the readiness of local government to cooperate with companies. The roots of the policy were laid down by the previous governor, and the new government maintains these principles. As an example, we can use Kupol...."

Chukotka's mining industry in 4 to 5 years - "Chukotka will maintain its position in gold..... we will also become a leading region in copper, silver, coal and other metals." (Source: E&MJ Interview, February 2012)



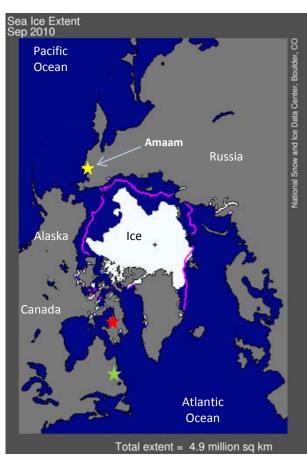
**Tye Burt** Kinross Gold Corporation

Kinross' success in Chukotka — "The scale of our Russian investment is large.... \$2Bn to buy and build Kupol..... further \$1Bn to buy and build Dvoinoye..... The Dvoinoye transaction marked a key milestone in Russia.... sent a strong, positive signal to the global mining industry that Russia is open for business. Indeed, Prime Minister Putin publicly highlighted the Dvoinoye approval as an example of his government's attitude to foreign investment." (Source: CERBA Conference, September 2011)

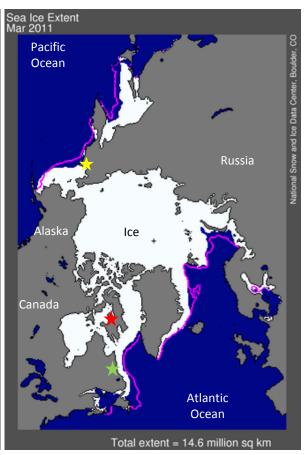
## Potential for year round shipping



## September

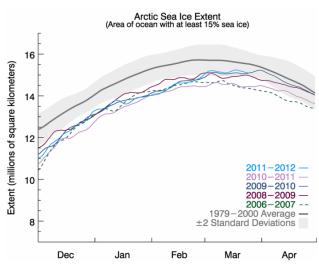


#### March



Median (1979 -2000)

#### **Historic trend**



 Scoping study results indicated potential for year round shipping operations with ice breaking tugs to keep sea lane open during winter months



Amaam - Coal (Chukotka, Russia)



Mary River - Iron Ore (Bafinland, Canada)



Voisey's Bay - Ni/Co (Newfoundland, Canada)

Source: National Snow and Ice Data Centre Boulder CO

# Mining operations and projects of the Arctic and sub-Arctic

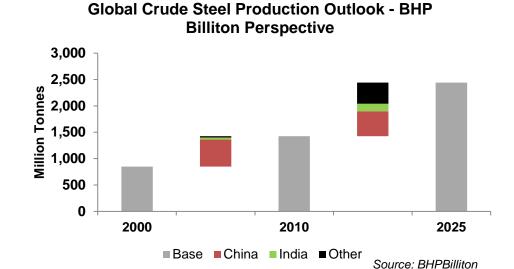


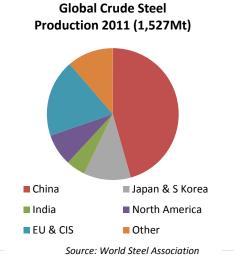


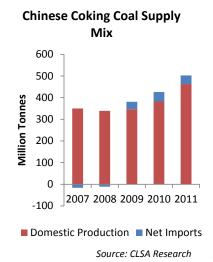
## **Demand for coking coal**



- Long term demand fundamentals remain strong, underpinned by developing countries, primarily China, India & Brazil
- In 2011, China accounted for 46% of global crude steel production
- Given high reliance on imported iron ore and local demand for steel products, majority of new Chinese steel production capacity is likely to be built in the coastal provinces
- A trend to larger and more efficient blast furnaces will continue to lift growth rates for hard coking coals relative to semi-hard and semi-soft coking coals
- Key wildcard remains China's ability to expand domestic coking coal supply without compromising quality and/or triggering a step change in costs







# **TIG** - summary



- Pure play coking coal development company
- 2 Large scale, high quality coking coal project well positioned to supply the seaborne market
- 3 Strategic land holding in emerging Bering coal basin
- 4 Strong long term market fundamentals for high quality coking coal



