# Capital Markets Day

Exxaro Coal | 14 -15 October 2019



## Disclaimer

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## **Exxaro Coal Strategy in Brief**

Nombasa Tsengwa | Executive Head, Coal Operations



## **Grootegeluk Complex**

Ronaldt Mafoko | General Manager, Grootegeluk Complex



### Mpumalanga Area

Bram van Stelten General Manager, Mpumalanga Area



**Digital@Exxaro Journey** 

Pleasure Mnisi Manager, Business Optimization



### **Markets and Logistics**

Sakkie Swanepoel Group Manager, Marketing & Logistics



### Capital Mellis Walker | Group Manager, Financial Performance



### **Summary and Conclusion**

Nombasa Tsengwa | Executive Head, Coal Operations

## Exxaro Coal Strateg

Nombasa Tsengwa Executive Head, Coal Operati

## Strategy

Digital@Exxaro

....

exxaro

## Coal | Our Strategy Journey





....is to be cost competitive and capital efficient, across our entire business value chain, maintaining a robust asset and volume base, diverse product mix using innovation and intelligence to quickly respond to market changes!



- Robust Assets and Volumes
  - Mpumalanga Operations
  - GG Operations
  - Growth Projects





Product Mix
Market to Resource (M2R)
Market Intelligence



R/t and Productivity Improvement

- Digital@Exxaro
- Operational Excellence

Quick "Market to Resource" response

## Coal Our Strategy Continues To Yield Results



Total coal sales (Mt)



Total coal product (Mt)



#### Total exports (Mt)



# **Grootegeluk Complex**

Ronaldt Mafoko | General Manager, Grootegeluk Complex

GG Operations Assets & Volumes

exxaro

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## Waterberg Coalfield | The Importance Of The Coalfield





Ð	Eskom
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- Security of supply for life of power station (quality, volume & price) with >30 year's life
- Supplier to Waterberg and Mpumalanga (future) power stations
- Certainty of baseload electricity generation of ~9,500MW

## exxaro

- Grootegeluk and Medupi represent significant long-term investments
- Grootegeluk complex established and proven operations >35 years
- Multi-product operation sustainable earnings & dividend growth to our investors

## Waterberg Coalfield | Unlocking The Waterberg



## Waterberg Coalfield | Remaining South African Reserve

# 50% of SA Coal Reserves &80% of Exxaro Coal Reserves

#### **Dimensions:**

- Stretches 40kms from N to S and 88kms E to W
- Extends Westwards into Botswana

#### Geology:

- 75.7 billion tons of in-situ inferred resources
- More than 50% of the remaining coal reserves in RSA
- Stratigraphic thickness of 115 m (11 coal bearing zones)
- Mineable coal seams much thicker than Mpumalanga coal fields



## Waterberg Coalfield **Geology**





#### Waterberg Coalfield is fault bounded:

- Zoetfontein Fault along the Northern boundary
- Eenzaamheid Fault along the Southern boundary
- Daarby Fault divides the coal field into open-pit mineable and underground mineable reserves
- Grootegeluk is best positioned for growth and low cost production as stripping increases and quality decreases as mining commences to the west

## Grootegeluk **Overview**



## Grootegeluk | Mining at a Glance

#### **OPEN CAST MINE**

- 13 benches
- 120m Deep
- Surface area 1200 ha



## Grootegeluk | Mining at a Glance



LOM Layout







## Grootegeluk | Plant Complex at a Glance





Grootegeluk | Growth & Improvement

**2012 – 2018** 6.7% Y-o-Y Improvement



RESULT OF FOCUSED APPROACH TOWARDS GROWTH & IMPROVEMENT

## Grootegeluk | Capital Projects



#### **Flexibility & Enabling Projects**

- Replacement and Expansion of Primary Mining Capacity
- → Improvement in maintenance facilities to accommodate the increasing mining fleet
- Implementation of Semi-Mobile in-pit crushing technology to reduce traveling distances, cycle times and cost
- Commissioning of GG10 to enhance product flexibility and to capitalize on pit liberation and enhance flexibility
- Commissioning of the upper and lower in-pit discard backfill systems to reduce operating costs and long term environmental liabilities
- Commissioning of the cyclic operated slurry ponds to increase product reclamation rate and re-use of water
- RLOS to enable train transport of PSC

## Grootegeluk | Capital Projects

#### **RLOS Commission – Nov 2019**

The new **RLOS** is currently under construction and has been detail designed for inclusion of future expansions including a future link for Thabametsi



Thabame

tsi

- Loading simultaneously via inner and outer ring
- Allows 200 Wagon loading within 4 Hours

#### GG6 expansion Commission – Sep 2020



## Grootegeluk | Where to Next?

**Improvement drive** to increase plant capacity (supported by the value chain), to enable GG to deliver the **additional 4Mt PSC** demand to Eskom **without stopping** the **high value strategy** 

# **36.3**<sub>Mt</sub>

#### GG Vision We will be a modernized carbon producer, energizing future generations by producing 35 million safe tonnes of product by 2025



#### Improvement drive:

A **Digital drive,** on top of the normal Operational Excellence drive, that will add value through:

- Integrated Operations Centre (IOC)
- Data visibility for better decision making
- Enabling the frontline to work more efficient & effective
- APC and automation
- Predictive maintenance

## Mpumalanga

Bram van Stelten | General Manager, Mpumalanga Area

## Mpumalanga Operations Assets and Volumes

Ineratt



igital@Exxaro

## MPU | Portfolio Overview

**1** Leeuwpan

2 Matla

**3** ECC Complex

(4) Mafube (50% ownership)

**5** Belfast Coal

**6** Ferro Alloys



## MPU | Well Positioned For Flexibility



RBCT Coal line to Richards Bay harbour













) Mafube (50% ownership)

Belfast CoalFerro Alloys

5

6

## MPU Volume Outlook



\*Base on latest internal forecast (Actual figures can vary by ±5%)

## MPU Volume Mix Outlook

**Product Tons Mix [Million]** 



\*Excludes ECC Tumelo Buy-Ins

## MPU | Mine Overview

#### **1** Leeuwpan

#### 2 Matla

- **3** ECC Complex
- (4) Mafube (50% ownership)
- **5** Belfast Coal

#### **6** Ferro Alloys



## MPU | Leeuwpan Overview











3 Processing Plants, 2 x DMS, 1 x C&S



Multi Product, Domestic and Export



Rail and Road Transport



2.9 m<sup>3</sup> / Ton Strip ratio



6.9 Million Ton ROM per annum



68% Yield

## MPU | Leeuwpan Challenges/Opportunities



## **Opportunities**

- Optimization of plants
- Eskom long term off-take
- Surrounding reserves





### Challenges

- Overburden contractor performance. Increase in OVB required over LOM
- Yields (weathering and geological conditions)

## MPU | Matla Overview

Mining

Eskom

Conveyor

 $\mathbf{O}$ 

100% Yield



and Mine 3, LOM 20 Years

Matla

## MPU | Matla Challenges/Opportunities

#### 2 Matla

## **Opportunities**

- Shortwall Additional Reserves
- New CSA Agreement





## Challenges

- Project Execution
- Pillar Extraction (Purchase of surface rights)

## MPU | ECC Overview





4 Operations, DCMW LOM 21 Years, DCME LOM 12 Years, FZOS LOM 19 Years, FZON LOM 5 Years

#### Dorstfontein





Multi Product Domestic and Export

**Open Cast (DCME)** 

& Underground

(DCMW & DCME)

Mining

2 x DMS Plants

Rail and Road Transport









71% Yield

## MPU | ECC Challenges/Opportunities

## Opportunities

- Eskom long term off-take
- Surrounding reserves
  - (Dorstfontein and Forzando)
- Dorstfontein West 4 Seam





## Challenges

Forzando Yields (weathering and geological conditions)



## MPU | Mafube Overview

#### **4** Mafube





Open Cast Mining



1 x DMS Plants



Multi Product Export



**Rail Transport** 



3.0 m<sup>3</sup> / Ton Strip ratio



2.6 Million Ton ROM (50%) per annum



67% Yield

## MPU | Mafube Challenges/Opportunities



## **Opportunities**

- Eskom Middlings off take
- Early Ramp Up
- C&S Volume
- Mafube Expansion





## Challenges

- Equipment strategy execution Delivery
- Front End Crusher
### MPU | Belfast Overview





#### Open Cast Mining



3.9 m<sup>3</sup> / Ton Strip ratio



#### 1 x DMS Plants



3.2 Million Ton ROM per annum



Multi Product Export and Domestic



90% Yield





Rail and Road Transport

#### MPU | Belfast Opportunities



- Early Ramp Up
- C&S Volumes
- Belfast Expansion



#### MPU | Ferro Alloys Overview

**6** Ferro Alloys



## MPU | Summary

- Well positioned assets to serve the domestic and export market
- Product flexibility from a market to resource perspective
- Volume and value growth opportunities in near term through Mafube and Belfast expansion
- Continued focus across all operations on cost, volume and mix to optimise value





Pleasure Mnisi | Manager, Business Optimization



#### Business Optimisation | Our program is geared towards reducing cost



Business Optimisation System Implementation across at all operations (MOS)

**Consolidation & Banking of Coal 2023 Strategy** 

"XXX" – Value Consolidation

#### Digital@Exxaro Our Goal

# digital exxaro

Startup Way | Innovation | eXcellence

Our goal is to achieve 25% productivity improvement using digitalisation and innovation.





### Digital@Exxaro | Journey and Learnings



Co-developing solutions with suppliers

## Digital@Exxaro **Successes**



### Digital@Exxaro | GG IOC (ops eye) pilot 2018

**Average Ex-pit Tonnes per shift** 



50/0 Improvement

### Digital@Exxaro | Productivity at higher levels (P75)



#### Digital@Exxaro | Targets linked to Leadership Performance Management



#### Digital@Exxaro | Visualisation Of The Value Chain







#### Digital@Exxaro Underground Visualisation





### Digital@Exxaro | Co-creating Digital Assets With Our OEMs





#### Digital@Exxaro | Integrated Operations Centers (OPS EYE)



#### **IOC's are implemented** across all the business units

- To drive real time decision making.
- Drive Market to resource optimisation across the value chain.
- Removing silos







#### Digital@Exxaro | Predictive Maintenance And Reliability (Digital Twin)

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Data Science Analytics: can be run and visualised via smart devices, virtual reality and augmented reality (AR) to provide operational intelligence.

### Digital@Exxaro | Automation



We are **targeting high value easy and affordable to integrate** parts of our value chain to convert to autonomous operations. i.e Dozers, Plants, Drills, etc.

2 Managing and **Integrating autonomous operations and processes in a mine** is complex as these operate sub-optimally alongside manually driven processes

3 Although we are constantly evolving our culture, this remains a very **labour sensitive** issue.



Results: (prelim value, still doing time studies checking if data in the system is correct) 56m/hr vs YTD of 45m/hr for old drills

## Digital@Exxaro | IP, Skills And Competitive Advantage





We **understand the real operational problems** that miners are facing, therefore are **able to detail the user requirements for solution development** 

We have a **vast amount of technical IP in mining** and therefore we are **co-developing custom solutions with the technology providers** 

We have operational assets and therefore we are **able to offer pilot testing** in **a real operational environment** that technology companies desperately need.

We are **upskilling our workforce** to be able to manage in a data driven organization and systems (e.g. through the IOC`s and data science)

#### Digital@Exxaro Culture Drive to Entrench Adoption



# Capital

exxaro

Mellis Walker | Group Manager, Financial Performance



### Coal Capital Excellence – Delivering On The Promise

#### **SIB Process**

- Redefine expansion and SIB capex
- Business unit Life-of-mine (LOM) view for Sustaining Capex (SIB)
- Microsoft Projects online system (POL) implemented.
- All projects are registered and managed on POL.
- All projects reviewed to:
  - Ensure project descriptions describe the problem and not the solution
  - Confirm the business case
  - Confirm forecasted capital
- Early value capex impact on the forecasted capital estimates being assessed.

#### Redefine Expansion and Stay in Business capex



#### Coal Capital Excellence – Delivering On The Promise

#### LOM planning for sustaining capex



#### Improved Forecasting accuracy

	FY19					
	March	FD Pre-close	August	Variance %		
R'm	Guidance	Guidance	Guidance	Aug vs FD		
Sustaining	2 689	2 543	2 396	-6		
Waterberg	1 683	1 692	1 688	0		
Mpumalanga	962	807	667	-17		
Other	44	44	41			
Expansion	3 722	3 281	3 345	2		
Waterberg	2 004	1 160	1 194	3		
Mpumalanga	1 718	2 121	2 151	1		
Total	6 411	5 824	5 741	-1		

### Coal **Expansion Projects**



### Coal | Value Creation From Expansion Projects

#### **Delivering value**

- Engaging with contractors experiencing performance issues
- Continued focus on methodologies, processes and controls
- Projects adding up to 13Mt/pa to increase sales volumes to 58Mtpa translating into R3.0bn - R3.5bn EBITDA per annum being added in steady state

#### Sales tonnes from Expansion capital ('000 tonnes)



#### Total sales tonnes ('000 tonnes)



#### Steady state EBITDA contribution\* (Rm)



\* FY19 real terms (Price US\$75/tonne, Exchange rate R13.77/US\$) incremental

\*\* Nooitgedacht is replacement

\*\*\* 70% of Leeuwpan Lifex is

### Coal Capital Excellence: Conclusions/Priorities

70% of sustaining capex spent in the Waterberg

Belfast construction 6 months ahead of schedule – early coal March 2019

GG6 Expansion (timing and impact)

Early value strategy impact on Capex

Further capex optimisation given affordability and portfolio robustness

Continuous refinement of capital allocation targets

Continue implementing Capex excellence initiatives

Even better disclosure and forecasting

# **Markets and Logistics**

Sakkie Swanepoel | Group Manager, Marketing & Logistics

Mpumalanga Operations

Marketing and Logistics



#### Markets | Strategic Overview

# **Coal markets are changing given climate change objectives, but remain exciting**

A solid market strategy built on a reliable supply base

Exxaro will be positioned to compete throughout cycles and into the future

# Coal markets going forward are challenging, but exciting

# Markets | Exxaro plays in both thermal and metallurgical coal markets

			Met coal			
1	Power generation 2	Cement production	Industrial 3 boilers	4 Steel & Ferroalloy Industry		
Applications	Coal is a fuel source used for power generation.	Coal is widely used in the cement production process companies. Coal is necessary for the production of clinker.	Coal is also used for industrial boilers mostly used for steam production in various application such as turning turbines and hea kilns.	Semi-soft or hard coking coal is used in the production of market and metallurgical coke. Met coke is used for the reduction of iron ore.		
Alternatives	Nuclear, gas, oil, diesel & renewables	Alternative fuels incl biomass, oil, gas & petcoke	Diesel, gas, oil	Limited		
Demand	Tot Electricity output to grow from <b>23 047 TWh</b> in 2015 to <b>34 095 TWh</b> in 2035 <sup>1</sup>	<b>12 – 23%</b> by 2050 <sup>2</sup>		Steel production grows by 0,7% CAGR to 2050 <sup>3</sup>		

1 – WoodMackenzie (2018) – WM CS scenario, 2- IEA (2018), 3 – CRU (2019)

#### Demand and the global trends aimed at Markets reducing carbon emissions WoodMac Energy transition WoodMac Carbon Constrained **IEA Sustainable** Outlook **Scenario Development Scenario** (WM ETO) – Base Case ~2,5°C ~2°C

Scenario reflects an evolution of current policies and technology advancement, expressing some degrees of business and customer inertia. Scenario reflects an accelerated view of the Energy Transition, a deeper view on decarbonisation and electrification, best efforts on technology, policy and cost reduction acceleration. Reflects the impact of successful implementation of major climate goals, limiting global warming to 2°C. The most common and standardized framework for quantifying a 2 degree or lower outlook.

Globally, action on climate change is intensifying and all countries will face pressure to decarbonise faster. The improving economics of low carbon technologies is probably the main driver of action toward a 2 Degree world.

## Markets | While global energy demand and a share of renewables increase, coal demand remains stable until 2040

Total Primary Energy Demand: Hydrocarbon and zero carbon supply



## Energy **demand** is forecasted to **increase** until **2040**

#### with

fossil fuels still to dominate the energy mix

#### but

new capacity will be lead by solar & wind power.

- WoodMackenzie (2019) Energy Transition Outlook 1H 2019
- Zero Carbon renewables (i.e. wind, solar, hydro) and nuclear

## Markets Exxaro believes that international coal demand will be robust for the medium term ...



Global coal demand is largely driven by the power sector. Other major consumers of coal include the steel, cement & food industry

#### Global thermal coal demand for power





#### Global thermal coal demand for non-power

#### **Key insights**

- Global coal demand peaked in 2013 at approx. 7,13Bt.
- Stagnant demand to 2030, followed by a slight decline thereafter.
- Coal demand for the power sector is driven by economic growth and growing demand from Asia (i.e. SE Asia and India).
- In developed economies, improved efficiencies (lighting, air cons) results in reduced demand for electricity and political social pressures to move away from coal

WoodMackenzie 1H 2019 – Representing WoodMac Base case view, consistent with a 3°C global warming view

#### Markets | Seaborne thermal coal demand by region



*Global thermal seaborne coal demand peaks in 2017 and remains stable at levels above 900Mt until 2040* 

India and SE Asia drive future demand as China gradually cedes its dominant position.

China demand reduces to 10% by 2040, whilst India increases to 25%

Electrification in SEA coal demand is dependent on a coal pipeline build.

**Competitive alternatives are limited Other alternatives** 

Seaborne thermal coal demand by region



Source: Wood Mackenzie

#### Markets | Six Themes Emerging From Wood Mackenzie's Alternative Energy Outlook

Under the carbon-constrained scenario, the Global Energy Transition gains



Technology joins policy as a key force behind global decarbonisation trends



Non-hydro renewables meet 40% of global power supply by 2040. Capacity of solar, wind & energy storage up almost 10x vs 2018



Paris Agreement NDCs\* can be reached, but the <2 degree world remains out of reach Electric cars and trucks would displace 11 mb/d of oil by 2040 in a carbon constrained world, comparing to 5.5 mb/d in the base case

Collapsing coal consumption and peak oil demand from 2030



Coal and oil down, renewables in the ascendancy.

WoodMackenzie (2019) – Carbon Constraint Scenario (2019)
# Markets | Alternative energy outlooks given the climate change targets







#### IEA Sustainable Development Scenario (SDS)



Oil

Hydro

IEA – International Energy Agency Sustainable Development Scenario WoodMackenzie (2019) – Energy Transition Outlook 1H 2019 Coal
Nuclear
Other



# A solid market strategy built on a reliable supply base

## Markets | Geographic Competitiveness



# Markets | RBCT Export Destinations - 2018

India (48%), Pakistan (13%), South Korea (9%) were the biggest importers of South African coal in 2018. Cumulatively, 70% of RBCT volumes were shipped to these 3 destinations. Shipments to Africa amounted to 6% in 2018.



## Markets | Strategy – Where to play

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- Exxaro was historically a domestic market player with little export entitlement.
- Exxaro wants to maintain presence in both the domestic and international markets as this combination provides the most revenue consistency.
- Exxaro now has more freedom with additional export entitlement to leverage and optimise market positions.
- Even though total sales volumes have not changed drastically since 2009, Exxaro has demonstrated over time that it continuously optimises its product mix and market position to supply higher value segments and customers.



# Markets | Where to play (International Markets)

We understand where demand is now and growing into the future. Growth in RB1/RB2 markets expected at 4% pa up to 2026, and 3% for RB3 and lower qualities.

We understand how competitive we are in these geographies/markets. We have identified the markets in which we can compete from a product and profitability perspective.

We are deliberate in our efforts to obtain a diversified market position.

We target optimal diversification levels, and deliberately do not sell into every market.

Selection of target countries

**Country-level analysis** 



# Markets | Where to play (International Markets)

- Exxaro were early in our recognition of coal demand migrating from West to East.
- Smaller percentage of coal going to Europe.
- Africa coming off a small base but growing.
- Africa, Middle East, Pakistan and India in the sweet spot.
- South-East Asia presenting exciting growth opportunities.
- Exxaro can sell coal profitably anywhere in the world, but the Indian Basin encompasses most of our logical playing field due to proximity to market, product mix and market attractiveness.



## Markets | As always, there are uncertainties affecting us in the short – medium term



With an LNG oversupply, continued coal-gas competition represents a downside risk for coal demand.

# Exxaro is positioned to compete throughout cycles and into the future

## Market to Resource | We understand and extract full value from our resources

#### **Product Attributes**

- Understand the VIU of our products in the market place

#### **Resource Attributes**

Characterization into downstream processing

#### **BU Optimisation**

- Iterative cycles of planning, improvements and developments to ensure optimal cost/yield

Route-to-Market Optimisation - Shortest route to Market and Market Positioning



# Summary **Outlook**





#### **Diversified and Unique Product Portfolio**

- Coking coal (semi-soft) and PCI.
- Full range of products (sized) for domestic markets.
- Low Sulphur and low Phosphorus coal.
- Export Thermal coal (4200kcal/kg 6000kcal/kg)



#### Adaptability

• Our ability to match our resources and beneficiation capabilities to a constantly evolving market is world class.

#### **Digitalization and Innovation potential**

• Leveraging disruptive technologies to ensure reliable market intelligence

# America Africa

#### Positioning

• Exxaro maintains an optimally diversified portfolio in geographies, markets, market segments and customers.

# Summary & Conclusion

Nombasa Tsengwa Executive Head, Coal Operati

Mpumalanga Operatior

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Capital

Strategy

Digital@Exxaro

## **GG Operations**

Arketing and Logistics



#### We believe that our coal business through its robust assets will Coal continue to deliver value for our stakeholders



#### **Our future**

#### We accept the uncertainty brought by climate change

- However we have no crystal ball about the future of coal
- · In the face of uncertainty, we continue to optimize our robust assets, move lower in the cost curve such that we land coal competitively across all markets
- · Early value is our best bet

#### **Our flexibility**

#### A well developed and capable marketing team

• Our marketing options in conjunction with our resource base gives us great flexibility in extracting maximum value regardless of market uncertainty

#### **Our team & resources**

#### A Diversified resource base, well operated

• Exxaro has great, robust assets, with diversified markets and distribution channels. Managed and operated by experienced professionals

#### **Our strategy**

#### A solid evolving strategy

• Exxaro has a clear coal strategy to deliver value, by maintaining and optimizing its robust assets, underpinned by operational excellence and innovation, positioning us for competitive growth into the future

Questions