

# MORE THAN INING

A low risk, high quality investment supported by a sound strategy

Bank of America Merril Lynch Global Metals, Mining and Steel Conference 9 - 12 May 2016

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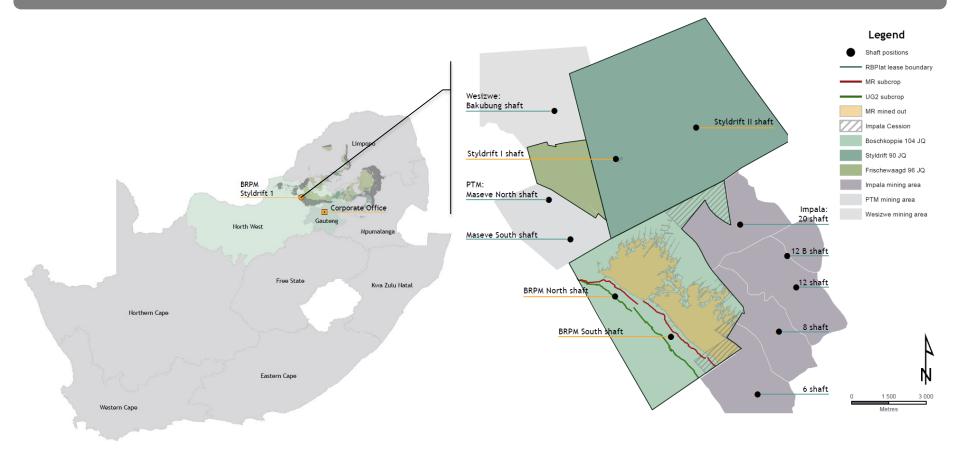
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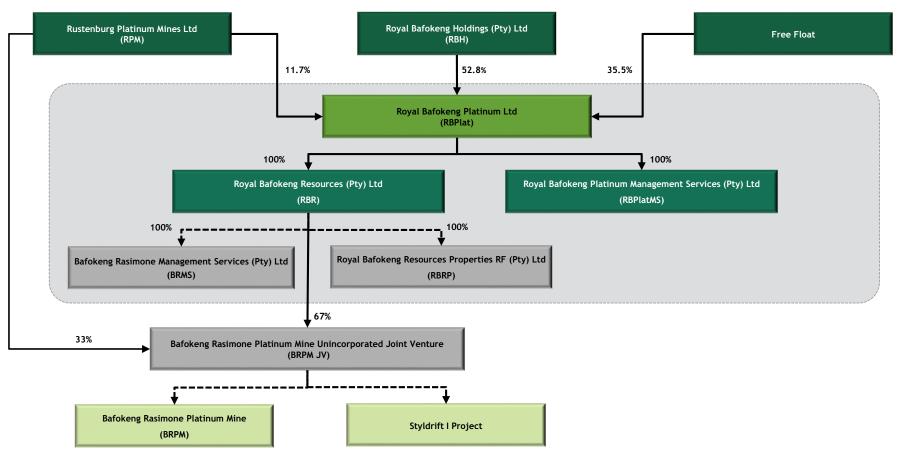
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# BRPM JV location relative to neighbouring mines

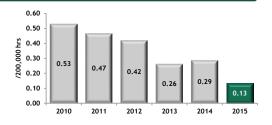


# **RBPlat Group structure**



# Sound business strategy delivering consistency in a challenging environment

#### SIFR: Our journey to zero harm

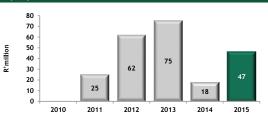


#### PGM operating environment

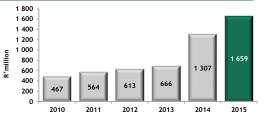
- > Depressed commodity market
- > Labour and community unrest
- > High industry inflation
- > Declining Merensky reserves



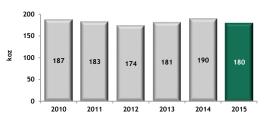
#### Royalty income



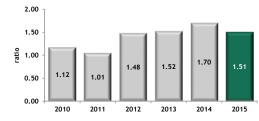
#### Styldrift I: Spending to grow



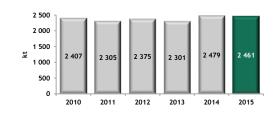
#### Pt ounces: Operational stability - consistent output



### IMS panel ratio: Stoping flexibility



Tonnes milled: Operational stability - consistent output



# The RBPlat safety strategy - zero harm through resilience

## Safety remains our key challenge

- Five fatalities in 2015
- 23% improvement in LTIFR year-on-year
- 54% improvement in SIFR year-on-year

## Health and environment

- 50% decrease in NIHL cases exceeding 10%
- Zero TB deaths for persons on the RBPlat TB program
- Contractors onto Platinum Health medical aid
- Water treatment plant commissioned 4Ml/day

## Our strategy:

- Strengthen the barriers to safety focus on leadership, design, systems and behaviour
- Reduce exposure to high risk areas/activities
  - Mechanisation
  - Appropriate technology
- Focus on regulatory compliance
- MOSH best practice



## Key initiatives to progress to resilience:

## Behaviour and leadership

- Leadership training programmes
- Culture based behavioural safety 4th Wave
- Emotional fitness training
- Align volume contractors with safety strategy
- Revise safety incentive systems

## Systems and knowledge

- Establish a best practice/mentoring team
- SILO risk management system roll-out
- Enhance current planned task observation system
- Strata control certification for safety officers

# Q1 2016 Operating results overview

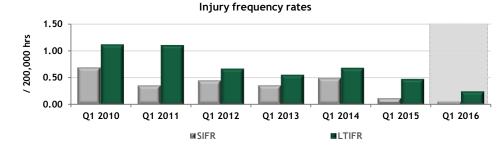
Description	Unit	Q1 2016	Q1 2015	Var
Safety				
SIFR (/200,000 hrs)	rate	0.05	0.12	<b>58</b> %
LTIFR (/200,000 hrs)	rate	0.25	0.48	48%
Production				
Total tonnes milled	kt	607	540	12%
4E built-up head grade	g/t	4.04	3.87	4%
4E metals in concentrate*	koz	67.9	57.5	18%
Platinum in concentrate*	koz	43.6	36.9	18%
Cash operating costs				
Cash operating costs**	R'm	625	595	(5%)
Cash operating cost / tonne milled**	R/t	1 149	1 121	(2%)
Cash operating cost / 4E oz**	R/oz	10 095	10 383	3%
Cash operating cost / Pt oz**	R/oz	15 718	16 153	3%
Capital expenditure				
Total capital	R'm	236.7	508.8	53%
Expansion	R'm	184.6	445.2	<b>59</b> %
Replacement	R'm	31.2	42.0	26%
Stay-in-business (SIB)	R'm	20.9	21.7	4%
SIB as a percentage of operating cost	%	3.3	3.6	8%

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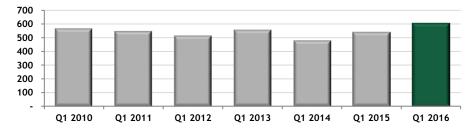
koz

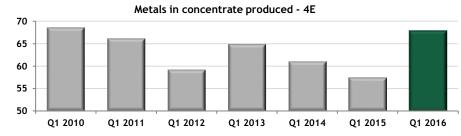
\*Metals in concentrate produced include Styldrift I on-reef development ounces

\*\* Costs are calculated excluding Styldrift I on-reef development tonnes, ounces and costs



Total tonnes milled

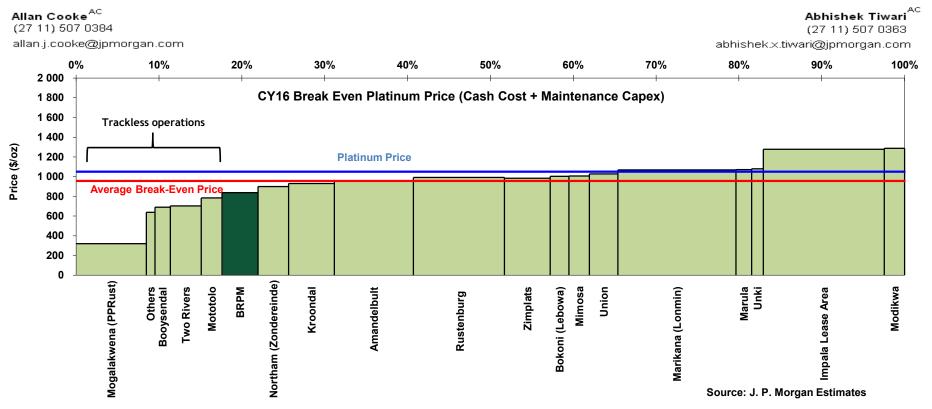




# 1<sup>st</sup> Quartile producer - BRPM lowest cost underground platinum mine

# J.P.Morgan CAZENOVE

## J.P. Morgan Platinum Industry Break-even Analyser



# Our response to a challenging PGM pricing environment

Basket price, 2015 / forecast (R/4E oz, nominal)

## RBPlat / BRPM JV

- Capital deferment
- Styldrift expenditure "self funding"
- Rescheduling and restructuring of mining activities - maximise Merensky production
- Operational improvement initiatives
  - Cost saving/reduction
  - Improving efficiencies and productivity
  - Review SLP expenditure

- \$/oz Pt basket price reduced by 30% from June 2014 to Aug 2015
- R/oz basket price reduced by 18% over the same period
- PGM price forecast to remain depressed for the medium term
- Required decisive decisions to protect the business as a whole

BRPM

## Styldrift I

- Defer ramp-up align with market forecasts
- Defer "non-essential" infrastructure construction and equipment purchases
- > Delay construction of 100ktpm module
- Align production capacity to 250ktpm concentrator upgrade 50ktpm
- Align staffing requirements

- Maintain a healthy balance sheet
- Pt pricing environment:
  - > 2015 R17 000/oz
  - > 2016 R17 500/oz
  - Improved metal pricing from 2018

#### Defer/reduce capital expenditure

- Defer construction of 14L and 15L on Phase III
- Keep SIB below 6% of opex in the short term
- Align staffing requirements

#### Operational improvement / cost initiatives

- Increase South shaft Merensky production
- Stop South shaft UG2 development
- Align operational staffing requirements
- South shaft LOM optimisation project

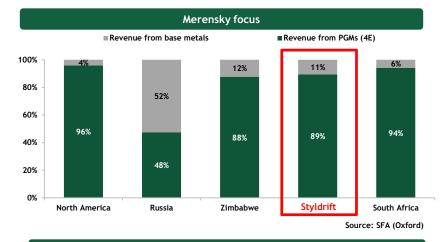
# Styldrift - timing to maximise the revenue stream

## Styldrift I strongly platinum biased

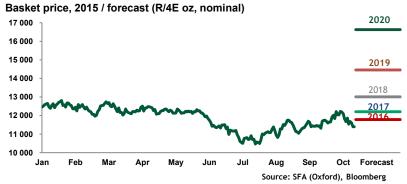
- Historically, Merensky reef has commanded a 75% premium over UG2 reef on a revenue per tonne basis
- High Pt:Pd ratio of 2.3:1 at Styldrift drives premium basket price
- Base metals are a significant revenue driver for Styldrift
- Styldrift Merensky resource of 133Mt
  - > Styldrift I portion is 72.9Mt
- By 2019 RBPlat will produce 90% of tonnes from the Merensky orebody

## Basket price appreciation (SFA Oxford)

- Basket price appreciation gathers pace from 2018
- 2015 basket price averaged R11 136/4E oz
- By 2018, the basket price should average 10% higher than the 2015 average
- By 2020, the basket price should average 40% higher than the 2015 average



Timing expansion to price recovery



# Revised Styldrift construction programme

Strategically aligning construction and production activities to optimise cashflow whilst maintaining the flexibility to ramp up as and when conditions permit

- Align construction progress/activities with market conditions
  - Protect balance sheet
  - Free cashflow from BRPM
  - > On-reef revenues from Styldrift
- Progress key critical long lead items required for ramp-up on a "just in time" basis with focus on
  - Stoping face length
  - Footwall development
  - > Ore handling infrastructure
  - > Water handling infrastructure
  - Electrical
  - Logistics infrastructure
  - Ventilation

- Optimise timing of processing requirements with ROM output
  - > 250ktpm upgrade
  - Overland conveyor belt
  - > 100ktpm module
- Optimise mine design, layout and schedule to
  - Maximise ROM output
  - Minimise waste/dilution
  - Improve ROM grade
- Revise fleet and equipment purchases and delivery with revised production profile

# Our flexibility allows us to respond strategically to current market conditions and forecasts

Pricing below	/ R17 500 /Pt oz	Pricing above R17 500 /Pt	Pricing above R17 500 /Pt oz (2015 real terms)		
<ul> <li>Main shaft commissioning</li> <li>Completion of Ventilation shaft 1</li> <li>Appropriate workshop infrastructure</li> <li>Upgrade of BRPM concentrator to 250ktpm</li> <li>Completion of Silo 2</li> </ul>	<ul> <li>642L Footwall preparation for Silo 3 and 4</li> <li>642L Decline development</li> <li>Initial ore pass installation</li> <li>Services # Equipping</li> <li>Silo 4</li> <li>Settler 1 and Pump Chamber</li> </ul>	642L footwall development outside critical access to declines  Zone of progression	<ul> <li>Project ramp-up</li> <li>Overland conveyor belt to BRPM concentrator</li> <li>100ktpm treatment plant module</li> <li>Silo 3</li> <li>Ventilation shafts 3 and 4</li> <li>Settler 2</li> </ul> Sustained basket prices above R18 500/Pt oz Positive market sentiment		
Depressed Zone	Zone of uncertainty	Develop key infrastructure which advances ability to ramp up	Appropriate debt level		
<ul> <li>Limited ability to pursue work</li> <li>Manage cashflow priority</li> </ul>	<ul> <li>Proceed with caution</li> <li>Progress small pieces of work</li> </ul>	Consideration for longer term items such as plant upgrades and overland belts			

# Styldrift I revised construction programme

## 2015 Mining and construction - R17 000/Pt oz

- Continued to develop underground infrastructure on 600L in line with revised strategy
  - Temporary workshops
  - Refuelling bay
  - Access roadways
- Completed and commissioned Ventilation shaft 1
- Completed Silo 2 support and lining

## Current operating status

- 4 production crews operational on 600L
- 1 production crew on 642L
- Silo 2 bulk civil construction progressing well
- A total of 60kt of ROM hoisted and delivered to the BRPM plant for Q1 2016
- Completed 250ktpm concentrator upgrade

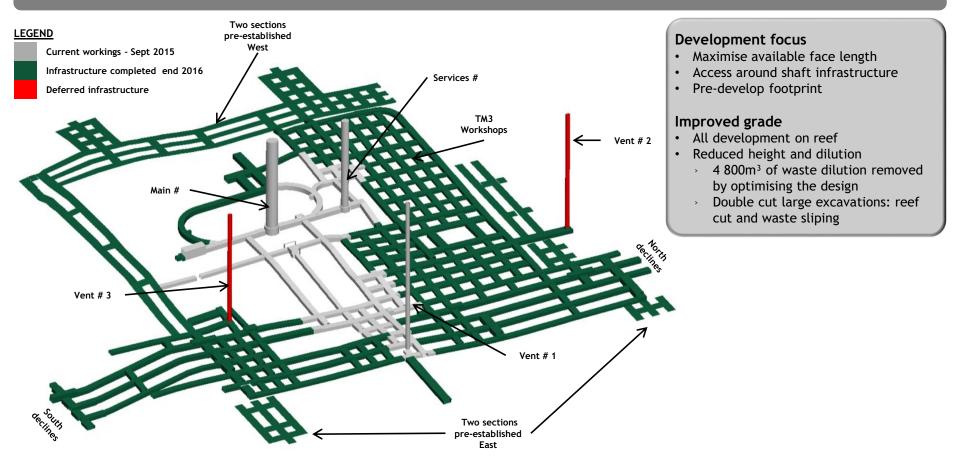
## 2016 Mining and construction - R17 500/Pt oz

- 100ktpm module upfront design work
- Continue to develop 600L infrastructure
- 642L footwall preparation for Silo 3 and 4
- 642L decline development and initial ore pass installation
- Commence with Services shaft equipping
- Silo 4
- Commence with Settler 1 and Pump Chamber related construction

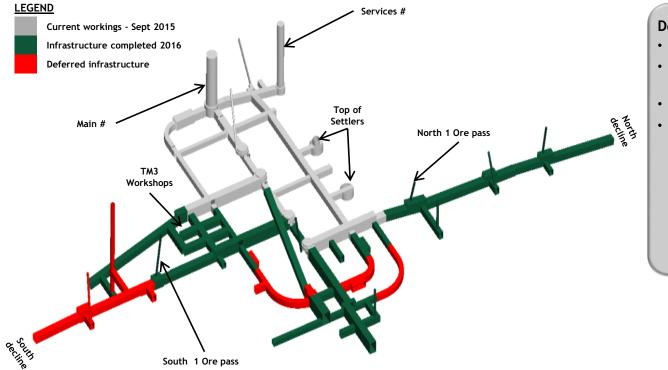
## Infrastructure deferred to post 2016:

- Silo 3
- 642L footwall development outside critical access to declines
- Ventilation shafts 3 and 4
- Settler 2
- Overland conveyor belt to BRPM concentrator
- 100ktpm treatment plant module construction

# 600 Level development and construction activities



# 642 Level mining and construction activities

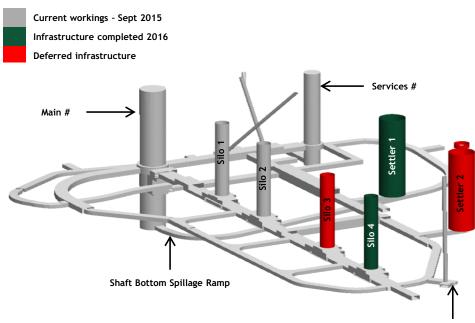


## **Development focus**

- Ore handling infrastructure
- Access/advance decline North and South
- North 1 and South 1 ore passes
- 2 development crews introduced from Q1 2016

# 708 Level development and construction activities



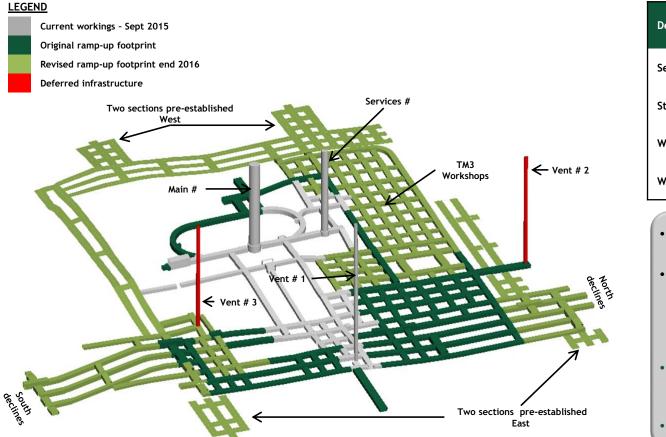


Bottom of Vent # 1

## **Development focus**

- Ore handling infrastructure
- Water handling infrastructure
- Level hand over

# "De-risking" the ramp-up

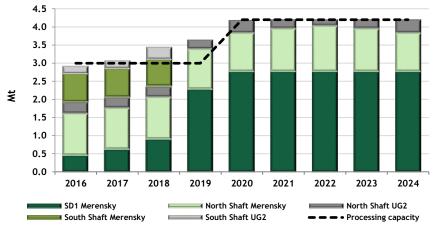


Description	Original Ramp-up	Revised Ramp-up
Sections pre-established	2	4
Stoping face length	335m	800m
Workshops pre-developed	4	32
Workshops equipped	4	4

- Substantial increase in initial stoping capacity
- Pre-development of infrastructure will allow:
  - De-coupling of the mining and construction activities
  - Improved construction efficiency
- Larger footprint will reduce fleet congestion, improving operational efficiency
- Improved operational flexibility

# **BRPM JV Production profile**

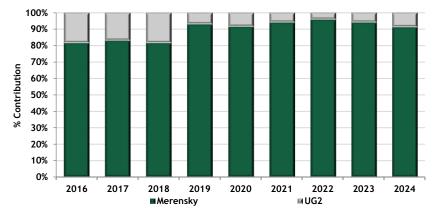
BRPM JV production plan



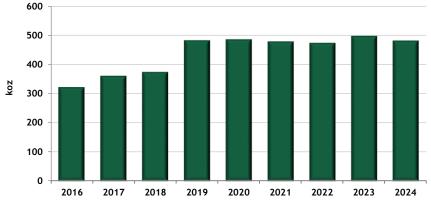
 No South shaft production beyond 2018 - UG2 market dependant

- Concentrating capacity matched to Merensky production
- Merensky contribution 90% by 2020
- Steady state production of  $\pm 480$ koz (4E) by 2020

#### Merensky contribution



BRPM JV - Recovered ounces (4E)



## Balance sheet remains strong at year-end

- > Rand basket decreased by 13% mainly due to US\$ commodity price weakening
- > Impairment of non-financial assets of R4.5 billion (net R2.9 billion) due to weak pricing environment
- > Strong cash and funding position
  - R917.6 million cash on hand for the Group
    - RBPlat corporate R531 million
    - RBRP housing R60.5 million
    - BRPM JV R326.1 million of which R218.5 million (67%) is attributable to RBPlat
  - R500 million revolving credit facility (RCF) and R458 million general banking facilities (GBF) in place until 31 December 2016
    - R500 million of RCF unutilised to date
    - R158.9 million of GBF utilised for Eskom, rehab and rental guarantees
    - R299.1 million of GBF unutilised
  - Therefore, RBPlat has R1.5 billion (R2.3 billion including Anglo Platinum's 33% commitment) of funding available for mining operations and projects
  - R2.2 billion PIC housing facility
    - R364 million utilised at year-end (excludes fair value adjustments). In 2015 this facility was used for the purchase of land for Phase 2 of our employee housing project and insurance investments
    - Ring-fenced to housing project, does not impede funding capacity of mining operations

Lower political risk	Black-owned and controlled - exceeds all statutory BEE requirements
Lower labour risk	Employees and owners are aligned - long term wage agreements
Long-life assets	Long-life Merensky producer
Excellent growth	Low risk growth: +/- 70% increase in production by 2020
Low cost	1 <sup>st</sup> quartile producer
Strong balance sheet	Debt fundable growth, zero debt currently

Industry leading margins - World class operations