ROSEBEL GOLD MINES N.V.
Analysts Tour Rosebel Mine

Management Rosebel
Suriname

October 17, 2016

TSX: IMG **NYSE:** IAG

Welcome

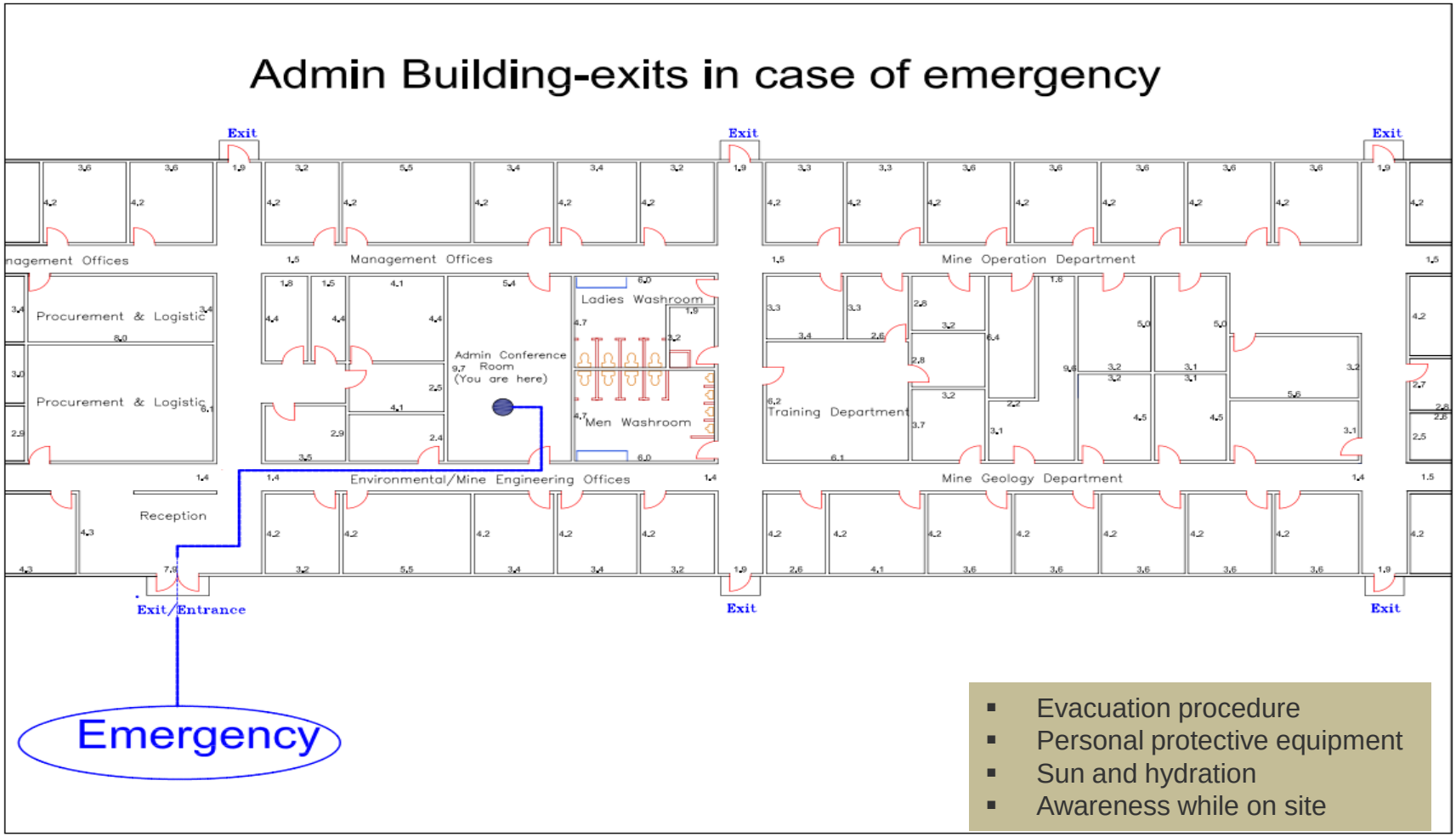
Welcome to IAMGOLD ROSEBEL GOLD MINES N.V.

OWNERSHIP:
REPUBLIC OF SURINAME
IAMGOLD CORPORATION

Empowering People,
Extraordinary Performance

IAMGOLD ZERO
HARM | DAÑO | INCIDENT | SCHADE | KGOBALO

Safety Briefing Rosebel Mine Location



- Evacuation procedure
- Personal protective equipment
- Sun and hydration
- Awareness while on site

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Introductions

IAMGOLD Executive Team

Gord Stothart – COO

Rosebel Management Team

Suresh Kalathil – General Manager
John Grignon – Mill Manager
Rémon van de Paal – Controller
Sharmila Jadnanansing – Legal & Corporate Affairs Manager
Jerry Finisie – Sustainability Manager
Ricardo Rojas – Mine Manager
Soetjipto Verkuijl – Risk Manager
Ian Stockton – Regional Exploration

Investor Relations

Bob Tait
Shae Frosst

Presentation Outline

- Safety at Rosebel
- General Highlights
- Performance Highlights
- Mine Operations
- Grade Reconciliation
- Mill
- Exploration
  - Near Pit
  - Regional Exploration

Cautionary Statement

All information included in this presentation, including any information as to the Company's future financial or operating performance, and other statements that express management's expectations or estimates of future performance, other than statements of historical fact, constitute forward looking information or forward-looking statements and are based on expectations, estimates and projections as of the date of this presentation. Forward-looking statements contained in this presentation include, without limitation, statements with respect to: the Company's guidance for production, cash costs, all-in sustaining costs, depreciation expense, effective tax rate, and operating margin, capital expenditures, operations outlook, cost management initiatives, development and expansion projects, exploration, the future price of gold, the estimation of mineral reserves and mineral resources, the realization of mineral reserve and mineral resource estimates, the timing and amount of estimated future production, costs of production, permitting timelines, currency fluctuations, requirements for additional capital, government regulation of mining operations, environmental risks, unanticipated reclamation expenses, title disputes or claims and limitations on insurance coverage. Forward-looking statements are provided for the purpose of providing information about management's current expectations and plans relating to the future. Forward-looking statements are generally identifiable by, but are not limited to the, use of the words "may", "will", "should", "continue", "expect", "anticipate", "estimate", "believe", "opportunities", "intend", "plan", "possible", "suggest", "guidance", "outlook", "potential", "prospects", "seek", "targets", "strategy" or "project" or the negative of these words or other variations on these words or comparable terminology. Forward-looking statements are necessarily based upon a number of estimates and assumptions that, while considered reasonable by management, are inherently subject to significant business, economic and competitive uncertainties and contingencies. The Company cautions the reader that reliance on such forward-looking statements involve risks, uncertainties and other factors that may cause the actual financial results, performance or achievements of IAMGOLD to be materially different from the Company's estimated future results, performance or achievements expressed or implied by those forward-looking statements, and the forward-looking statements are not guarantees of future performance. These risks, uncertainties and other factors include, but are not limited to, changes in the global prices for gold, copper, silver or certain other commodities (such as diesel and electricity); changes in U.S. dollar and other currency exchange rates, interest rates or gold lease rates; risks arising from holding derivative instruments; the level of liquidity and capital resources; access to capital markets, and financing; mining tax regimes; ability to successfully integrate acquired assets; legislative, political or economic developments in the jurisdictions in which the Company carries on business; operating or technical difficulties in connection with mining or development activities; laws and regulations governing the protection of the environment; employee relations; availability and increasing costs associated with mining inputs and labour; the speculative nature of exploration and development, including the risks of diminishing quantities or grades of reserves; adverse changes in the Company's credit rating; contests over title to properties, particularly title to undeveloped properties; and the risks involved in the exploration, development and mining business. With respect to development projects, IAMGOLD's ability to sustain or increase its present levels of gold production is dependent in part on the success of its projects. Risks and unknowns inherent in all projects include the inaccuracy of estimated reserves and resources, metallurgical recoveries, capital and operating costs of such projects, and the future prices for the relevant minerals. Development projects have no operating history upon which to base estimates of future cash flows. The capital expenditures and time required to develop new mines or other projects are considerable, and changes in costs or construction schedules can affect project economics. Actual costs and economic returns may differ materially from IAMGOLD's estimates or IAMGOLD could fail to obtain the governmental approvals necessary for the operation of a project; in either case, the project may not proceed, either on its original timing or at all.

For a more comprehensive discussion of the risks faced by the Company, and which may cause the actual financial results, performance or achievements of IAMGOLD to be materially different from the company's estimated future results, performance or achievements expressed or implied by forward-looking information or forward-looking statements, please refer to the Company's latest Annual Information Form, filed with Canadian securities regulatory authorities at www.sedar.com, and filed under Form 40-F with the United States Securities Exchange Commission at www.sec.gov/edgar.shtml. The risks described in the Annual Information Form (filed and viewable on www.sedar.com and www.sec.gov/edgar.shtml, and available upon request from the Company) are hereby incorporated by reference into this presentation.

The Company disclaims any intention or obligation to update or revise any forward-looking statements whether as a result of new information, future events or otherwise except as required by applicable law.

All monetary amounts are in US dollars, unless otherwise indicated.

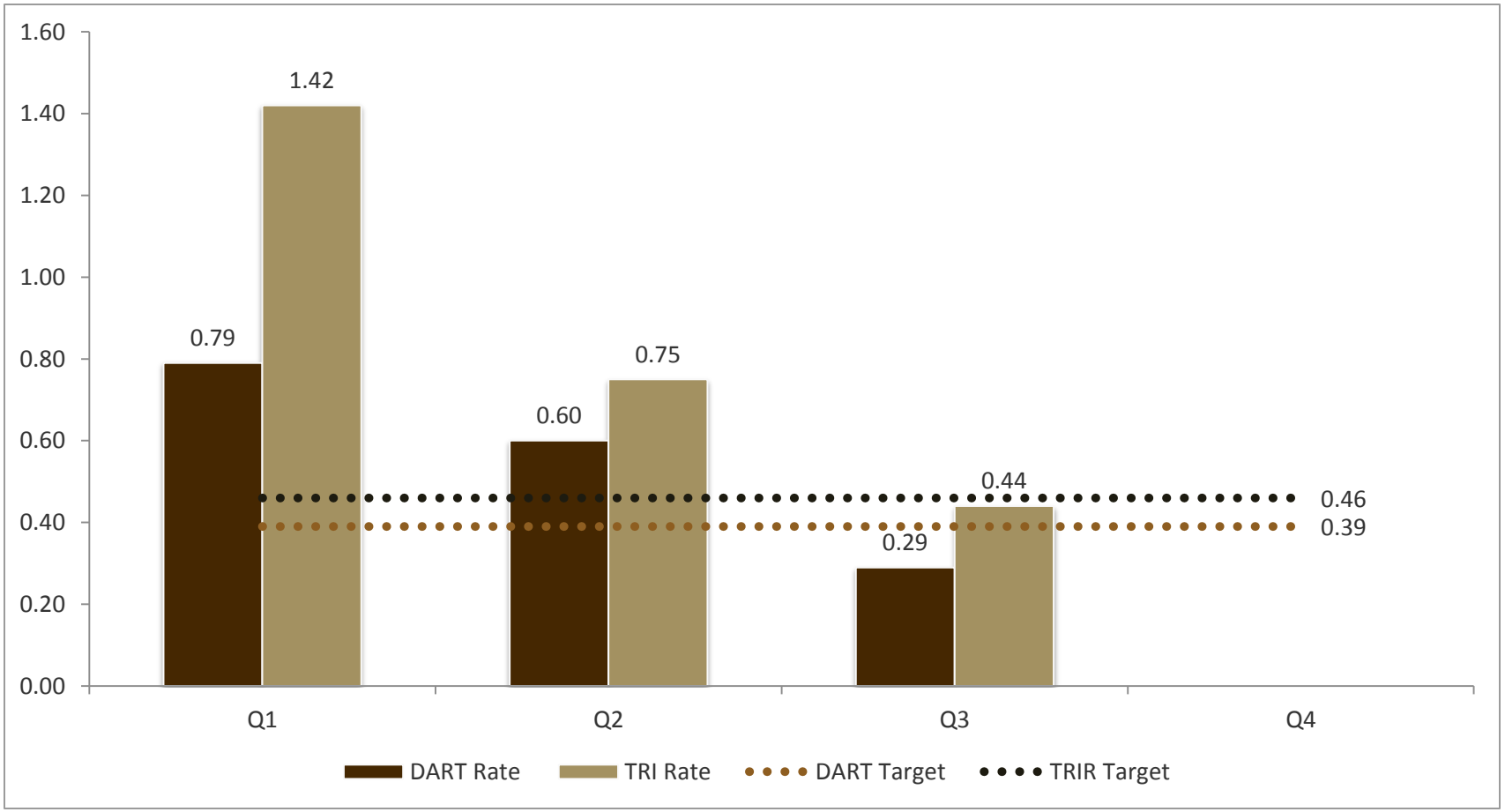
Safety at Rosebel

Shalini Kesarsing
Safety at Rosebel
Slides 9 – 14

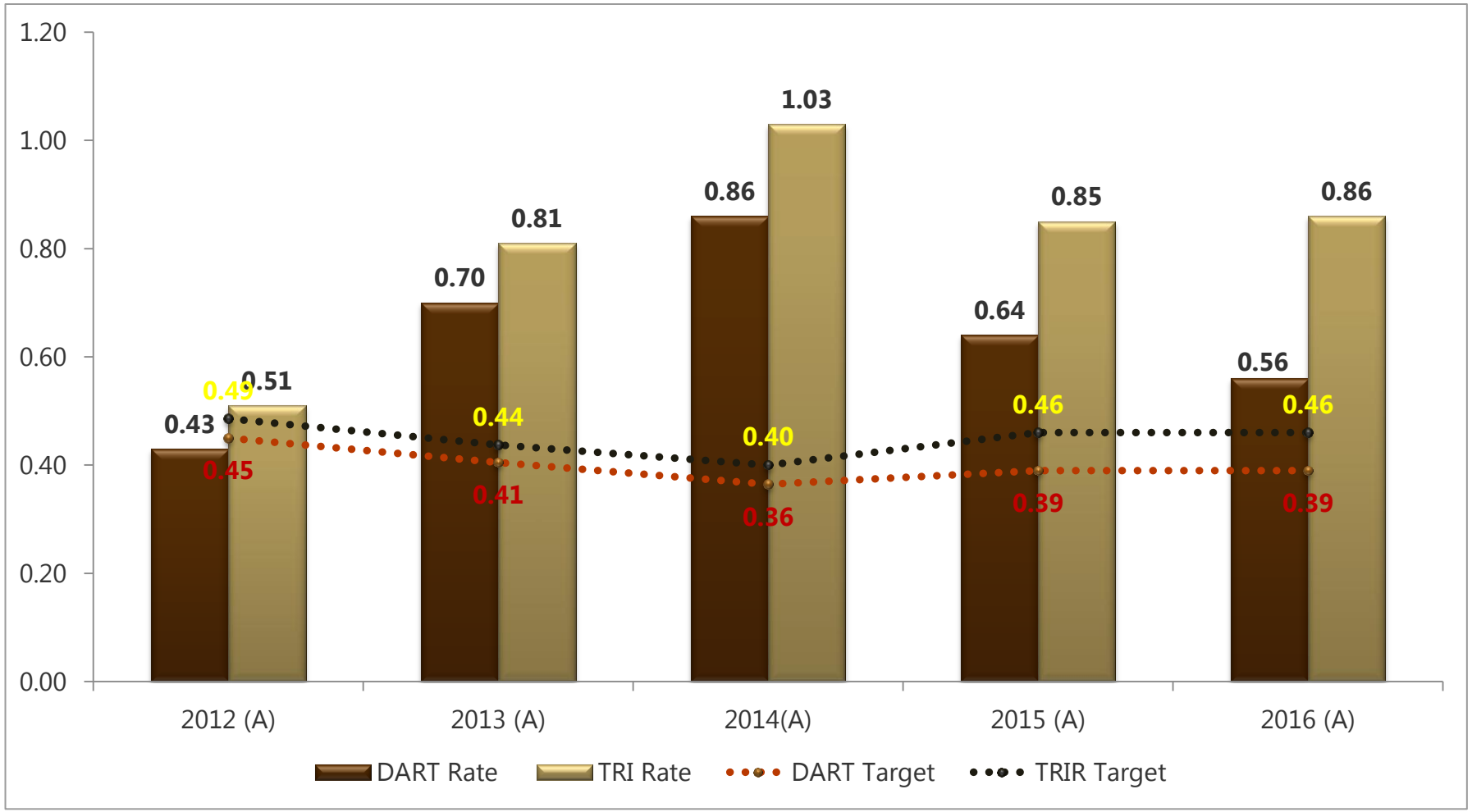
H&S Accomplishments 2016 YTD

- **Safety Achievements**
  - Triple Zero in April & July (site wide)
  - > 6.9M worked man-hours LTA free
  - 45% improvement in DART severity rate
- **Approximately 1,300 hours spent in safety training**
- **Contractor Audits against Safe Work Plan**
- **Industrial Hygiene Risk Register developed**
- **Fire Suppression Systems Audits: AFEX & Fire Trace**
- **OHS Committee for Mine Ops + Mine Technical Services operational**
- **Gap Analysis of Emergency Management & Response Plan completed**
- **June: successful Safety Campaigns in June**

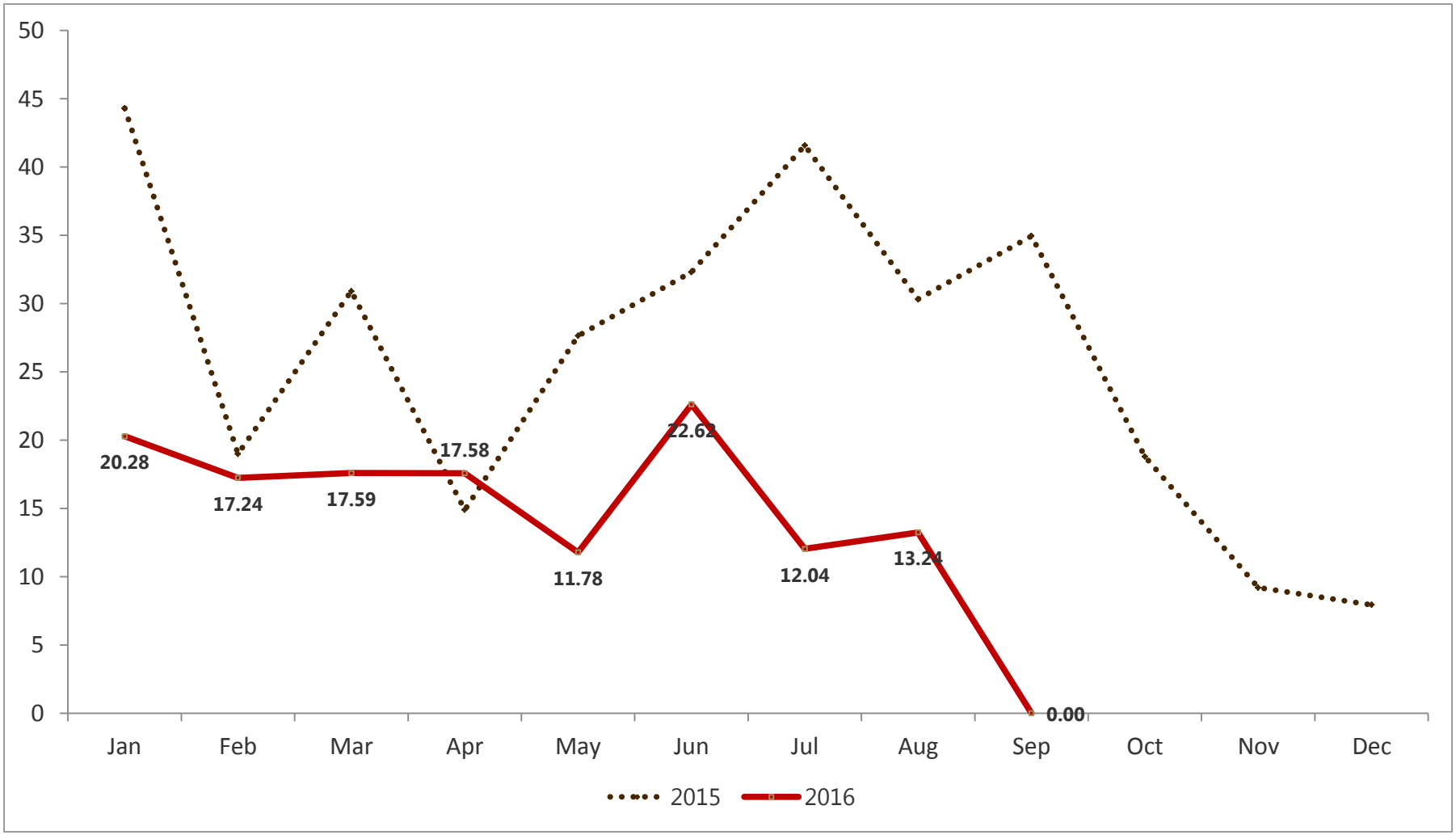
DART & TRIR 2016 YTD



DART & TRIR Trend: 2011 – 2016



DART Severity Rate



Safety Day – June 2016

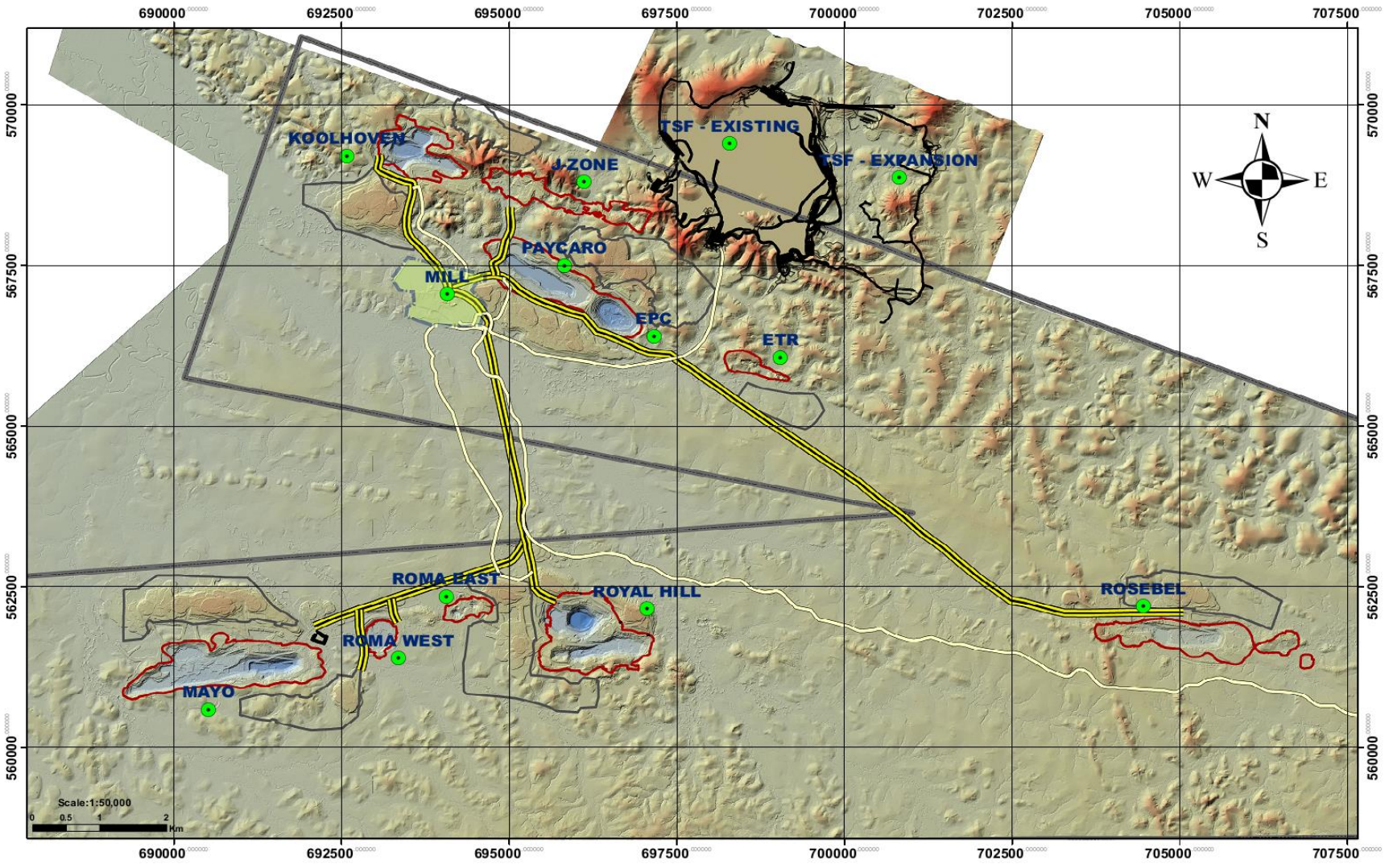
- Engagement with the workforce
- Promotion H&S department objectives
- Safety Awareness
- 54% more participation compared to 2015

Emergency Response Gap Analysis – Aug. 2016

General Highlights

Suresh Kalathil
General Highlights
Slides 16 – 21

Operations Layout



Objectives

- **Focussing on ZERO HARM**, Empowering People, Operational Excellence and building on Stakeholder Relations to maximize operating margin
- Making the transition from **Continuous Improvement to sustainable Business Excellence**
- **Step-change innovation** – Significant departure from business-as-usual processes, shift to technology is a critical part of enabling substantial value creation.
  (Dynamic dispatch, Secondary Crusher, Electronic detonators, CAT Vision link, Six sigma, etc.)
- **Unleashing value by establishing Mine-of-the-Future Mining Practice** and achieve operational excellence in core mineral extraction and recovery processes by leveraging big value drivers.
  (Money Mining/Whittle Optimization, Safety systems, Dilution control, Maintenance practices, Mine to Mill, etc.)
- **Structured Control and Governance** to Improve business processes, reduce non-value-added tasks and accelerate effective decision making to decrease average unit costs.
  (Right sizing, Tracking and monitoring costs, Dashboard, WTW & Six Sigma initiatives)

Budget 2016: Objectives

- **To safely achieve 2016 Business Plan by producing 300 – 310k/oz gold at an AISC $1,096/oz, treating 11 Mt of ore and mining 63 Mt of Waste + Ore**

- **Key Drivers**
  - Zero Harm (HSS)
  - Production Levels
  - Costs of production
  - Cost Optimization & Cost Preservation
  - WTW & Six Sigma
  - Availability & Utilization
  - Efficiencies – OEE
  - Productivities
  - Optimization
  - Best Practices
  - Benchmarking (3rd Qtr.)

Strategic Imperatives and Implications

Strategic Imperatives

1. Engineered Stockpile

2. Reverse Circulation Drilling

3. Mill Optimization initiatives
   a. Solution Losses
   b. Reagent Consumption
   c. Grinding Media consumption

4. 8 meter benches

5. Blast Measurement Monitor's (BMM) and Electronic Blasting

6. Restructuring, SBU's, Real time Monitoring, Wenco Bench Managers

7. We Tjaring Waka (we will do it now) Initiative

Implications

1. Stable process parameters and plant performance

2. Reduce per Unit Operating Cost

3. Reduce grade variation and increase confidence in estimated grade

4. Improved Grade Control

5. Increase equipment and manpower productivity

6. Decrease & control dilution

7. Safety and maintain stable pit walls

8. Train, develop and build a competent and technically sound senior leadership team and workforce

Key Enablers

Internal process

- WTW & SIX SIGMA tools driven improvement engines across all Strategic Business Units
- Structured review of high impact projects
- Improving technology to make the operation “Best in Class”
- Compliances to safety and environmental norms

Employees

- High motivation and morale of employees at all levels
- Team building and leadership development

Stake Holder Satisfaction

- On time service delivery
- Quality
- Engagement, Social License to Operate

Suppliers

- Long-term partnership – strategy with suppliers – contractors in explosives/tires/grinding media/cyanide

External – Government

- To be perceived as best in Class Gold Mine
- High impact CSR projects
- To build a strong & positive image with Government & Society at large

Disciplined Approach Going Forward

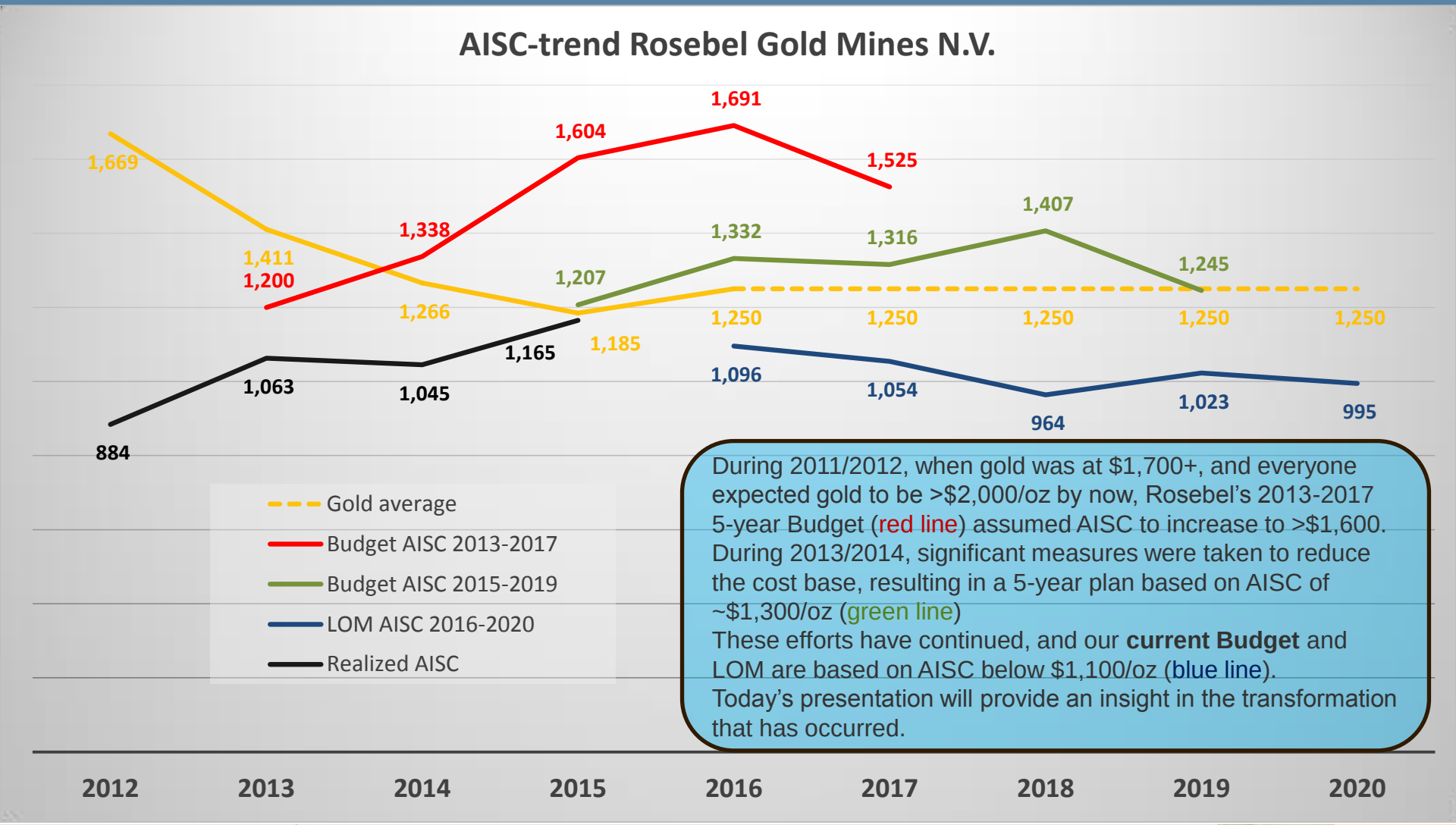
- **Focus on economic returns**
  - Return on capital is the main criteria for investment decisions
- **Cost containment**
  - Focus on managing costs in the current gold price environment
- **Innovation**
  - Apply innovation where possible to generate superior return
- **Positioning for the future**
  - Develop pipeline of exploration and development projects

Low gold price environment demands that we look for ways to secure our future and create long-term value

Performance Highlights

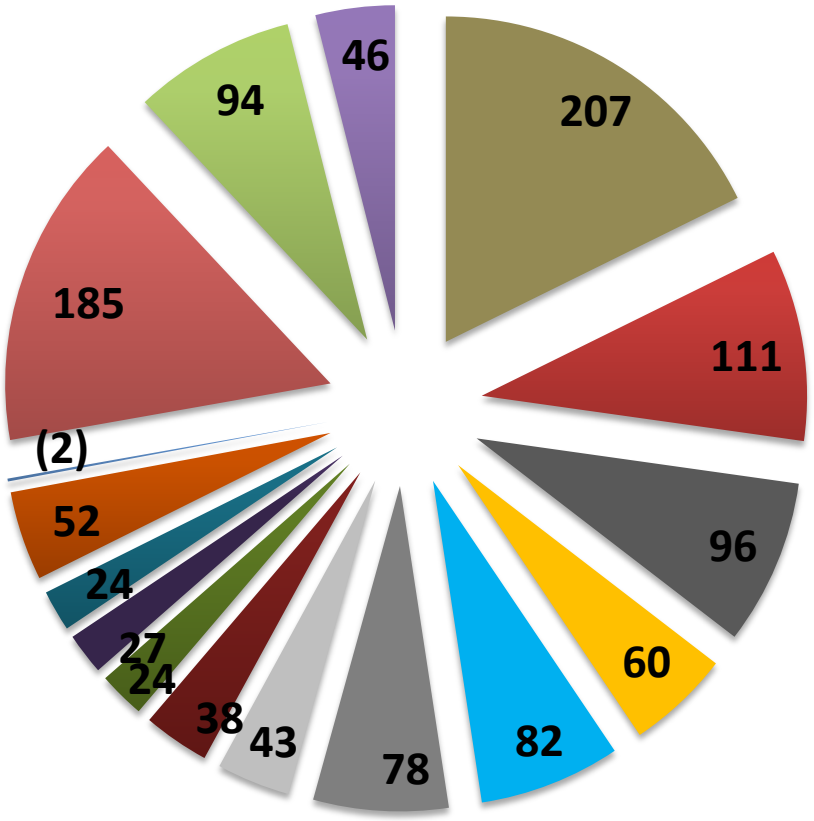
Rémon van de Paal
Performance Highlights
Slides 21 – 33

Rosebel's Transformation

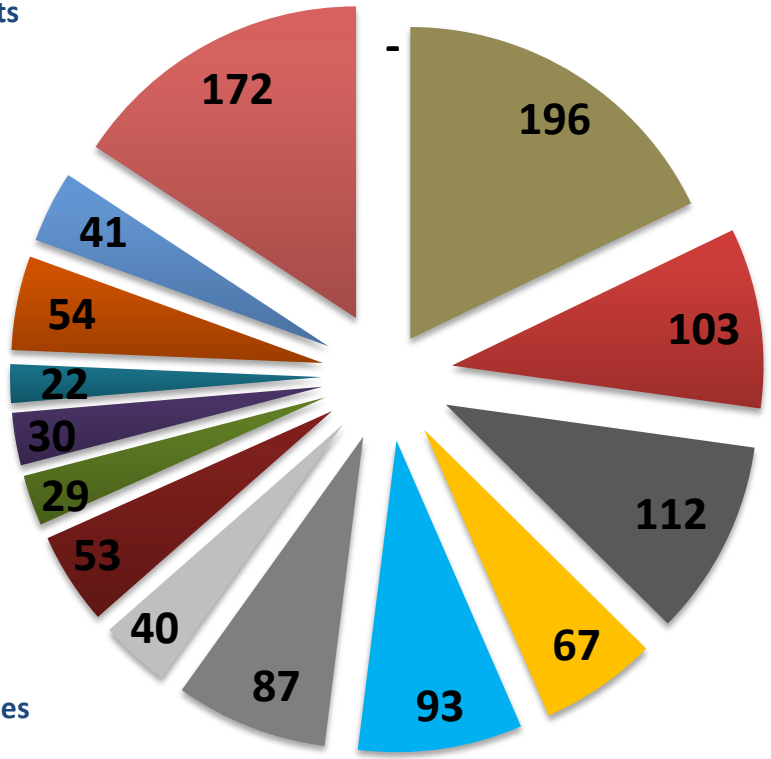


During 2011/2012, when gold was at $1,700+, and everyone expected gold to be >$2,000/oz by now, Rosebel's 2013-2017 5-year Budget (red line) assumed AISC to increase to >$1,600.
During 2013/2014, significant measures were taken to reduce the cost base, resulting in a 5-year plan based on AISC of ~$1,300/oz (green line)
These efforts have continued, and our **current Budget** and LOM are based on AISC below $1,100/oz (blue line).
Today's presentation will provide an insight in the transformation that has occurred.

Realized 2015 AISC vs Budget 2016 AISC



- Labour
- Maintenance parts
- Fuel
- Support
- Power
- Contractors
- Cyanide
- Explosives
- Freight
- Grinding Media
- Tires
- Other Consumables
- Other
- Sustaining Capital
- Lease extinguishment
- Realized hedge and non-hedge derivative losses



Realized 2015: $1,165

(incl. Lease extinguishment & realized hedge + non-hedge derivative losses)

Budget 2016: $1,096

Based on WTI $60

Sensitivity WTI $10 = AISC $20/oz

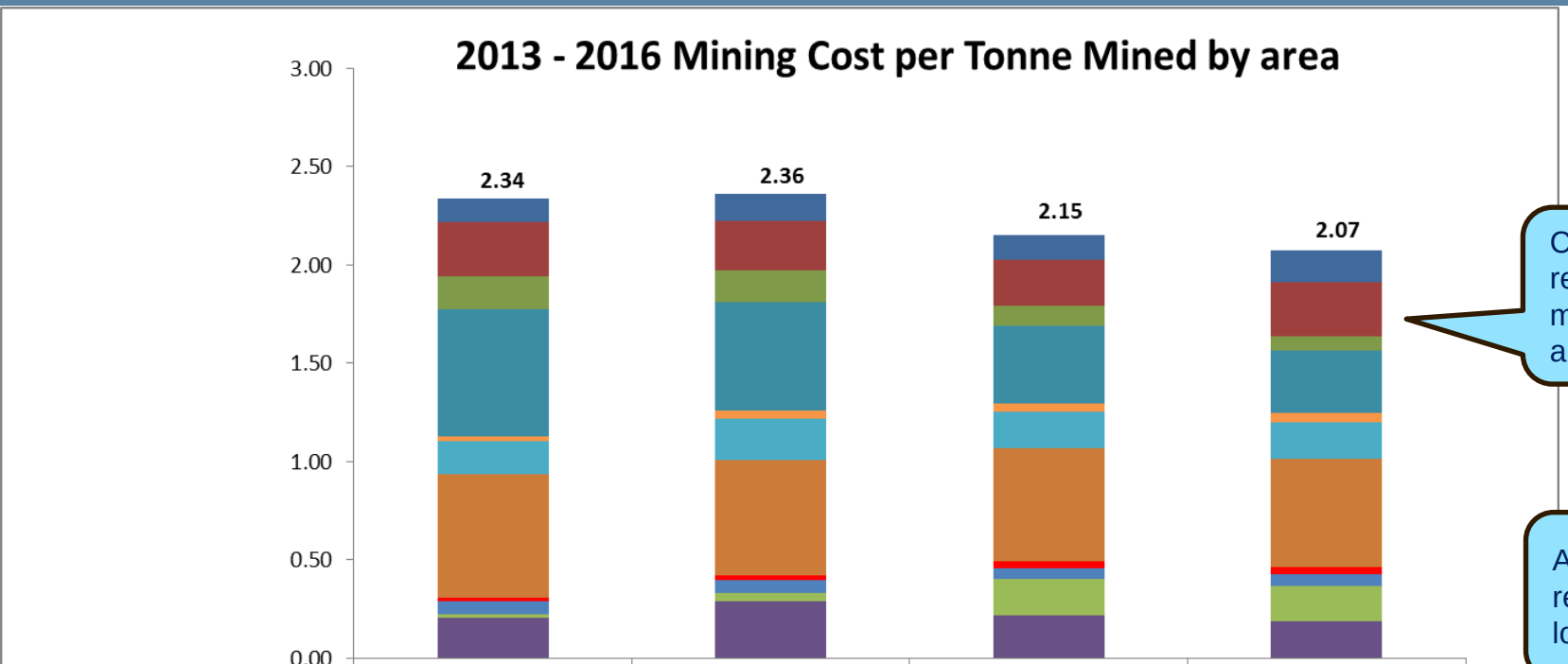
Accomplishments

- **Reduce AISC from > $1,500 to < $1,100/oz** *(like for like)*
- **Create the foundation for long-term future**
  - Productivity improvements through Business Excellence
  - Workforce rationalization -10% reduction
  - Collective Labor Agreement to create goal alignment
  - Debottlenecking of the plant to improve hard rock throughput
  - Engineered stockpile
  - Pit slope optimization
  - Reverse Circulation Drilling
  - Reduction operating working capital > 35%
- **Introduce best practices across operation**
- **Empowerment and talent development; Strong focus on Nationals**

Priorities

- **Mine Operations optimization**
- **Mill throughput model optimization**
- **Grade control**
- **Covert to 8 meter benches, rather than 5/6m**
- **Six sigma implementation**
- **Workforce and community engagement**
- **Exploration**
  - Near Mine: Saddles, East Roma
  - Regional Exploration: Saramacca, Sarafina, Overman etc.

Continued Reduction Mine Costs: 15% below 2013/2014



	2013	2014	2015	2016F
Drilling	0.12	0.14	0.13	0.16
Blasting (Incl. Emulsion Plant)	0.28	0.25	0.23	0.27
Load	0.16	0.16	0.10	0.07
Haul	0.65	0.55	0.39	0.32
Ore Rehandling	0.03	0.04	0.04	0.05
Mine Services	0.16	0.21	0.18	0.18
Mine Maintenance	0.63	0.59	0.58	0.56
Geology	0.02	0.02	0.03	0.03
Engineering	0.06	0.07	0.06	0.06
Grade Control	0.02	0.05	0.18	0.18
Mine Admin	0.21	0.29	0.22	0.19
Total $/ t Mined	2.34	2.36	2.15	2.07

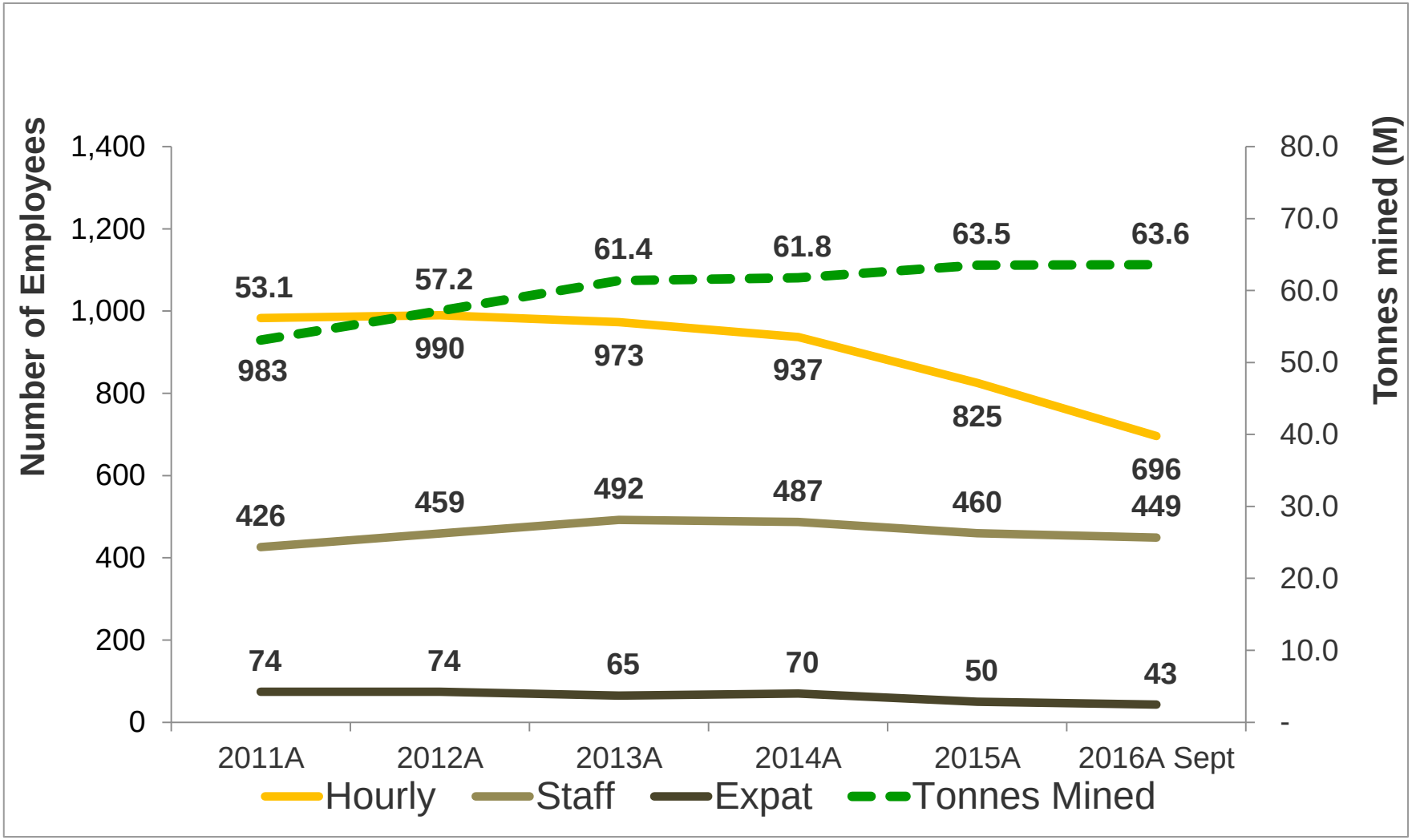
Continued reduction in mining costs by approx. $0.28/t

Almost $0.20/t of reduction due to lower fuel costs

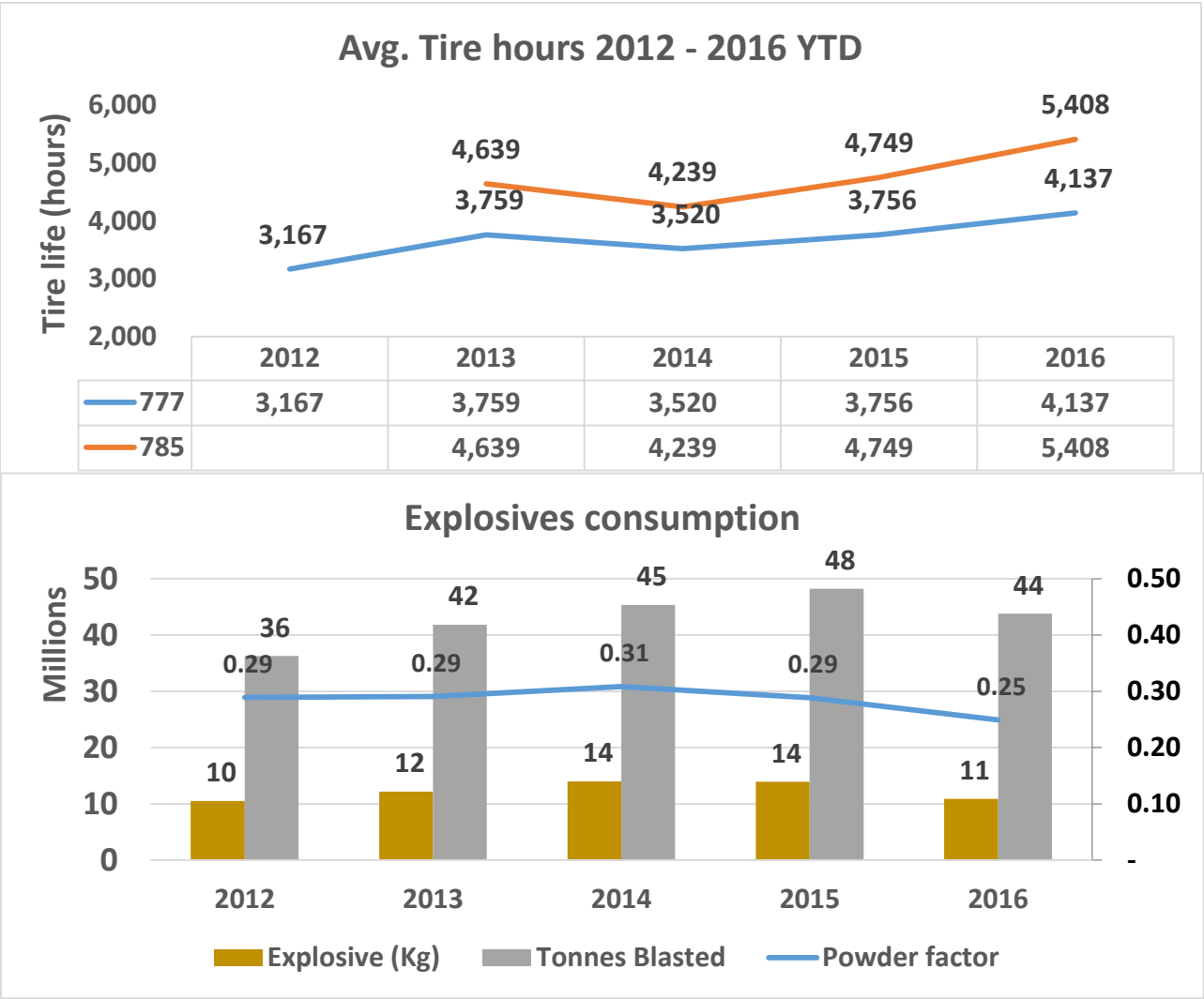
Partly offset by +$0.15/t due to RC Drilling

$0.23/t improvement due to productivity initiatives

Workforce Rationalization

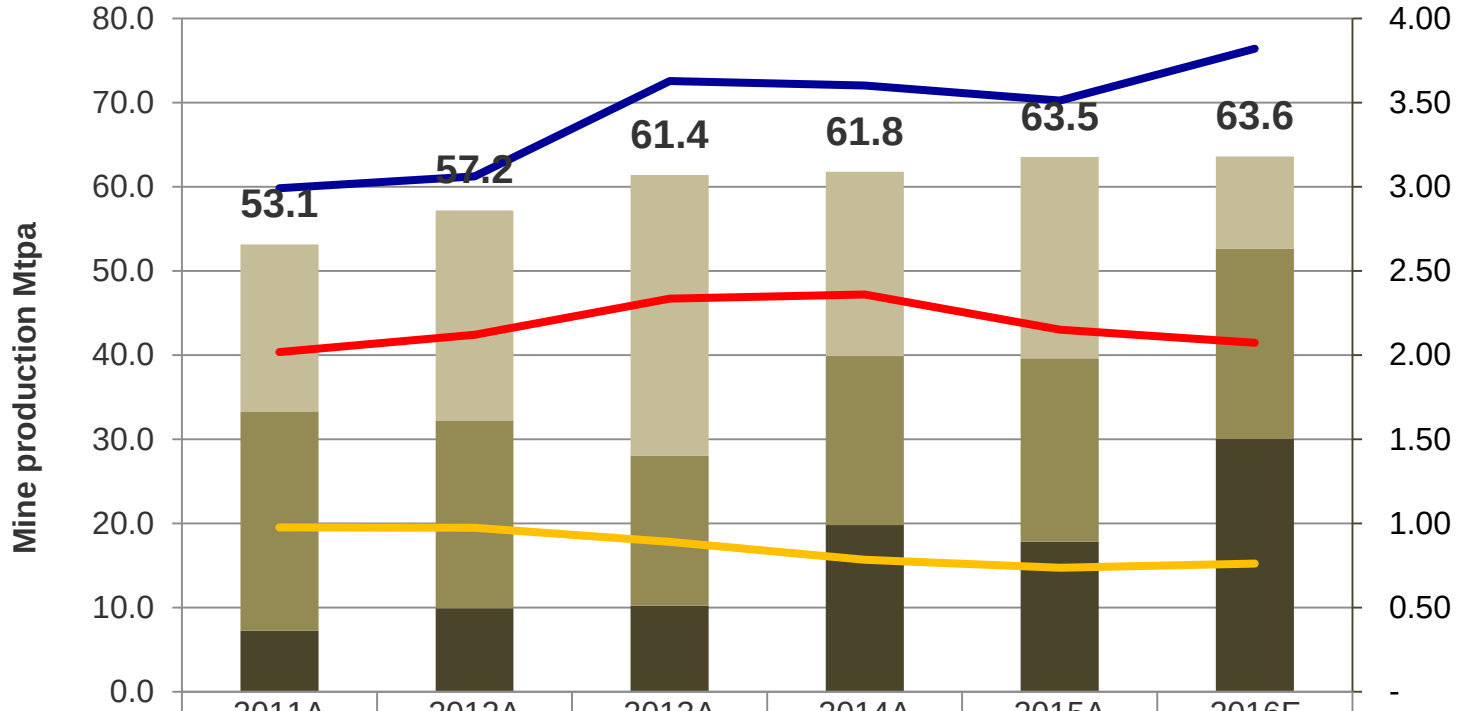


Cost Optimization



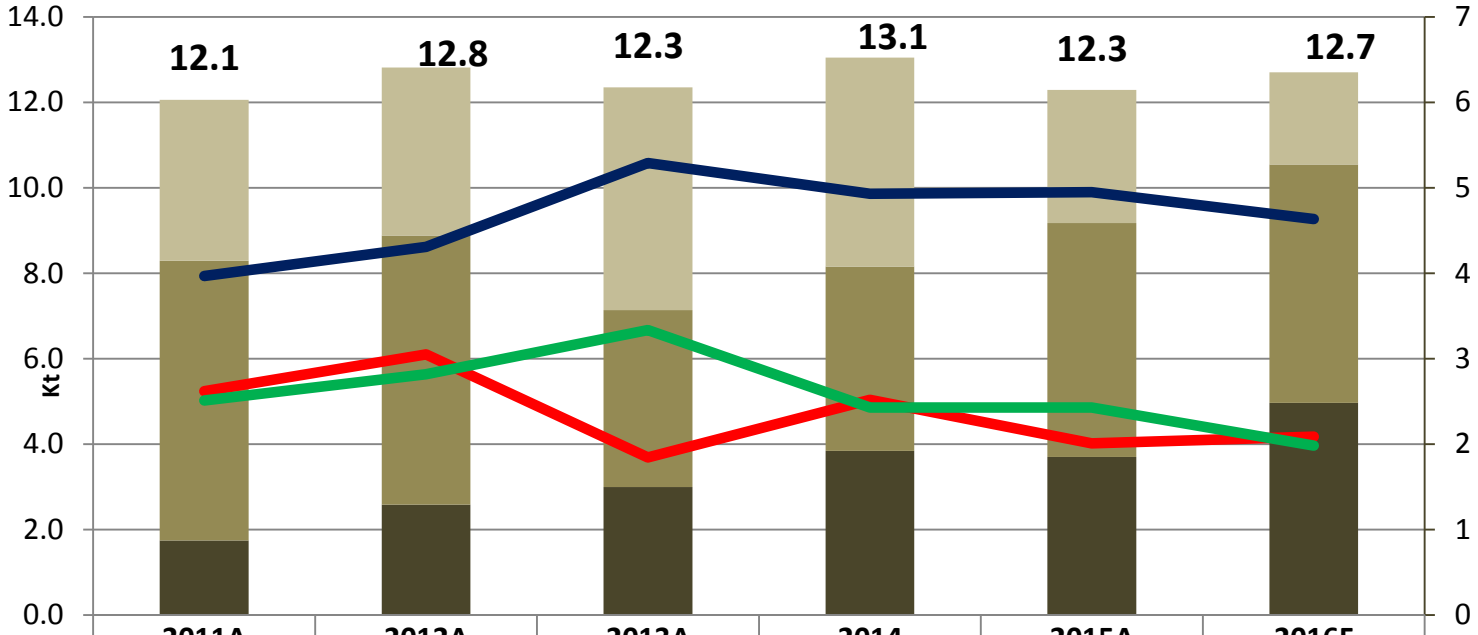
- **Cost reductions across Operations including**
  - Tire life
  - Powder factor
  - Cyanide consumption
  - OEE's
  - Truck loading
  - Pit Slopes
  - Mill availability

Mine Production



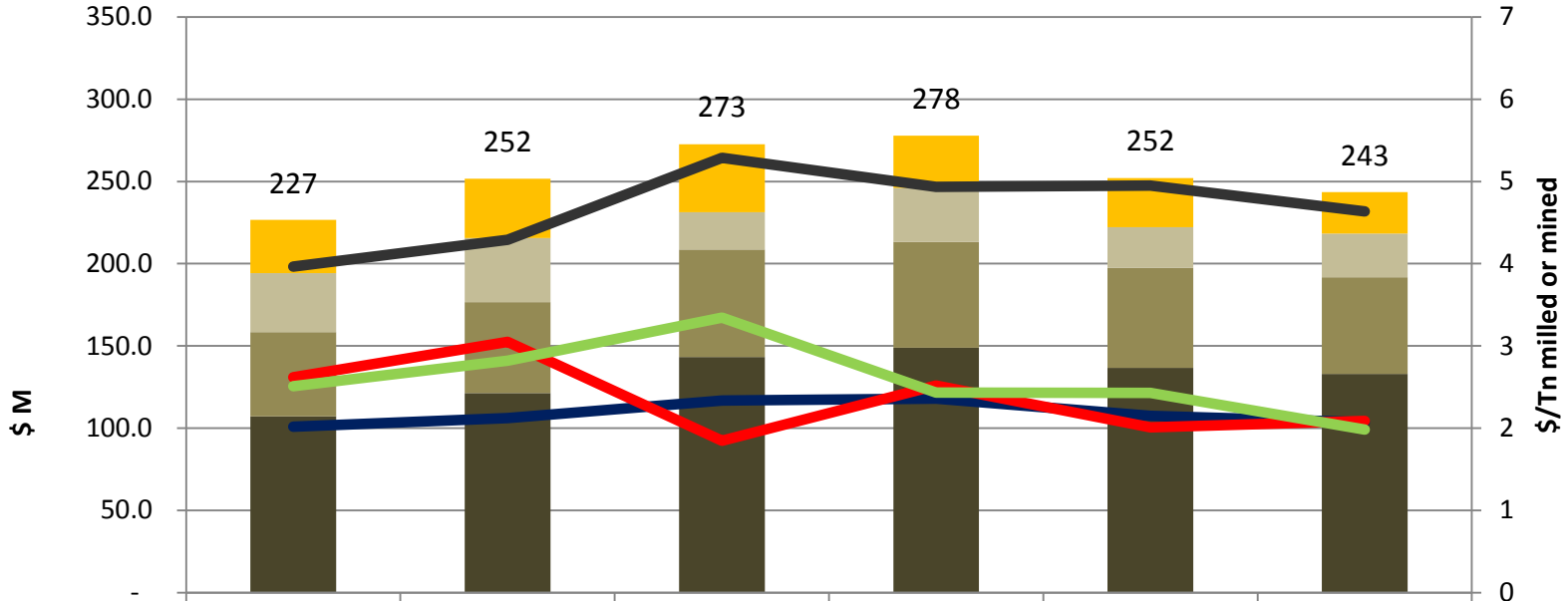
	2011A	2012A	2013A	2014A	2015A	2016F
Soft rock (Mtpa)	19.8	24.9	33.3	21.9	23.9	11.0
Trans rock (Mtpa)	26.0	22.3	17.8	20.1	21.8	22.6
Hard rock (Mtpa)	7.3	9.9	10.2	19.8	17.8	30.0
Total mined (Mtpa)	53.1	57.2	61.4	61.8	63.5	63.6
Mined Grade (g/t Au)	0.98	0.97	0.89	0.78	0.74	0.76
Strip Ratio	3.0	3.1	3.6	3.6	3.5	3.8
Mining Unit Cost ($/t mined)	2.02	2.12	2.33	2.36	2.15	2.07

Mill Production



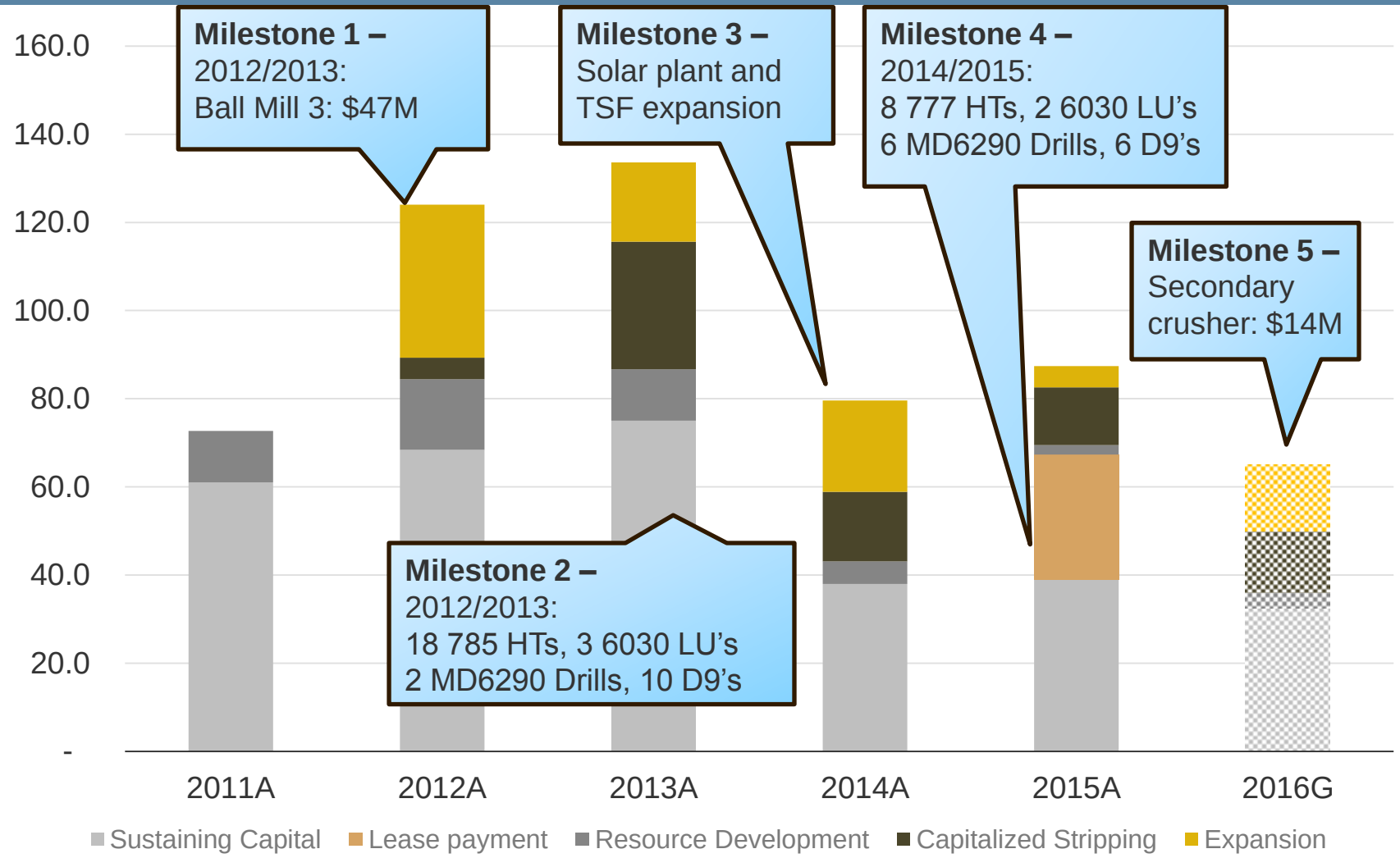
	2011A	2012A	2013A	2014	2015A	2016F
Soft Rock	3.8	3.9	5.2	4.9	3.1	2.2
Transitional Rock	6.5	6.3	4.1	4.3	5.5	5.6
Hardrock	1.7	2.6	3.0	3.8	3.7	5.0
Total Processed	12.1	12.8	12.3	13.1	12.3	12.7
Milling Costs ($/t)	3.97	4.31	5.29	4.93	4.95	4.63
Power Costs ($/t)	2.62	3.05	1.85	2.52	2.01	2.09
G&A Costs ($/t)	2.51	2.82	3.34	2.43	2.43	1.98

Operating Cost Trend



	2011A	2012A	2013A	2014A	2015A	2016F
G&A Cost	32.3	36.1	41.3	31.7	29.9	25.2
Power Cost	35.9	39.1	22.8	32.9	24.7	26.5
Milling Cost	51.2	55.2	65.3	64.4	60.8	58.9
Mining Cost	107.1	121.4	143.3	148.9	136.7	132.9
Total Operating Cost	227	252	273	278	252	243
Mining Cost/tn mined	2.02	2.12	2.33	2.36	2.15	2.07
Milling Cost/tn milled	3.97	4.29	5.29	4.93	4.95	4.63
Power Cost/tn milled	2.62	3.05	1.85	2.52	2.01	2.09
G&A Cost/tn milled	2.51	2.82	3.34	2.43	2.43	1.98

Capital Costs



Mine Operations

Suresh Kalathil
Mine Operations
Slides 35 – 42

Approach: Value Chain Optimization

MINE – Supplier

- Drill & Blast
- Load & Haul
- Mine Maintenance
- Mine Services

MILL – Customer

- Primary Crusher
- SAG Mill
- Ball Mill

- More Ounces
- Higher Throughput
- Increased Recovery
- Cost Management

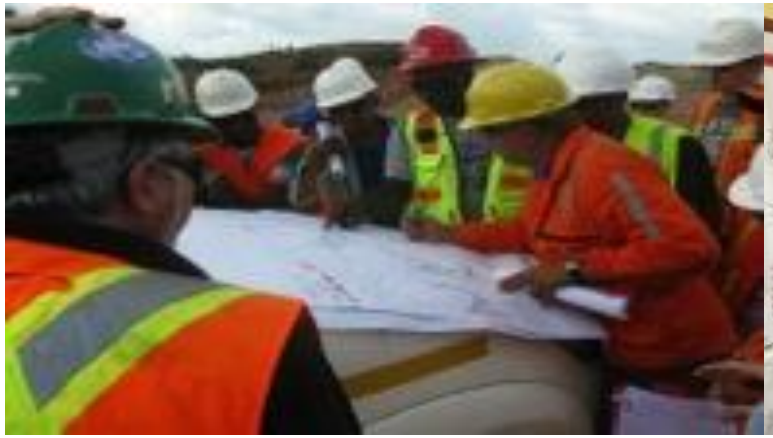
We Tjaring Waka (we do it now) – Optimization Initiative

- **Objective**
  - Improve productivity, lower costs and position Rosebel for a longer and healthier operating mine life

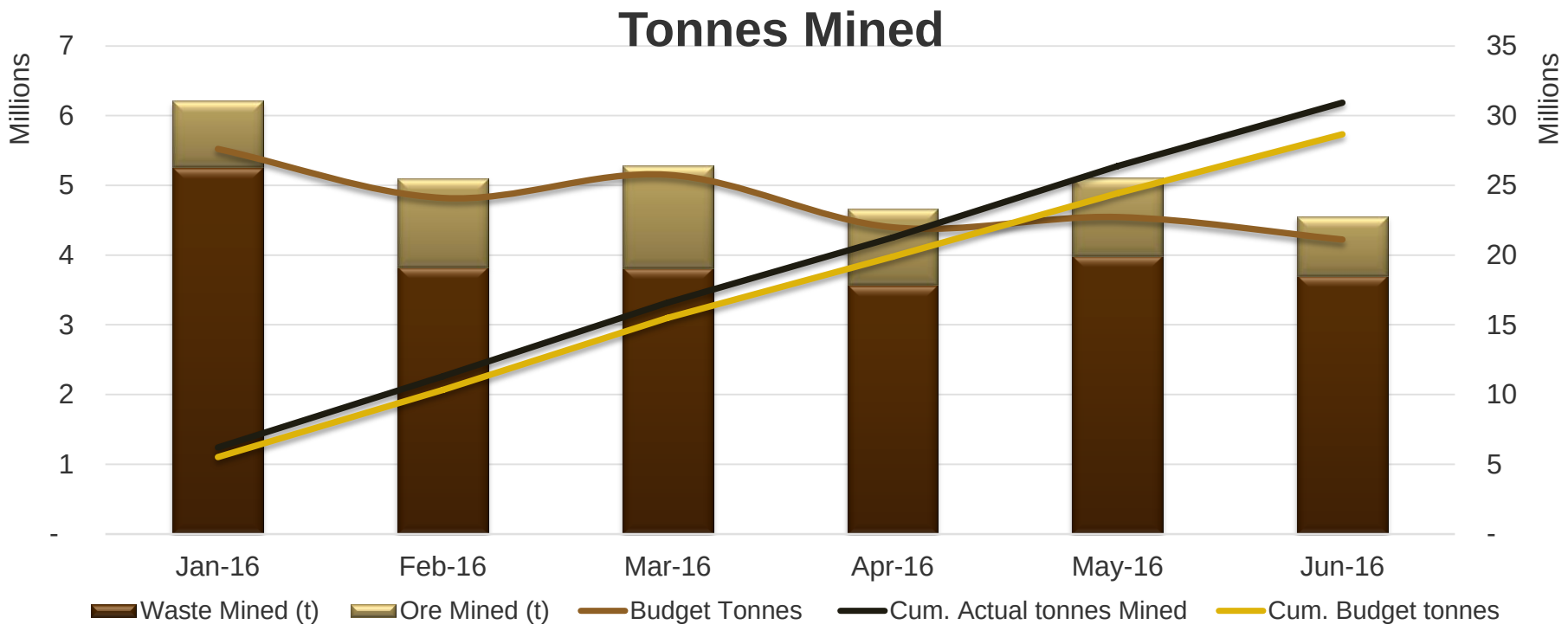
We Tjaring Waka Productivity Improvement

- **Improve productivity, lower costs and position RGM for a longer and healthier operating Mine Life**
  - Removing operating barriers
  - Improving communication within and between departments
  - Reducing the causes of lost time to improve productivity
  - Optimizing Mining Sequence to feed the mill effectively
  - Streamlining management information and processes

Formal alignment on sequences and communication



Tonnes Mined – June YTD

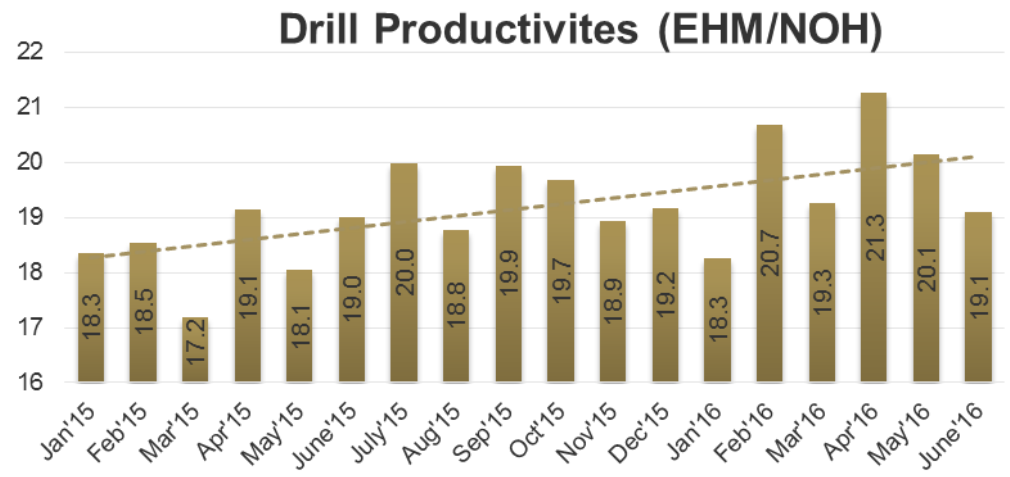


- **Compared to Budget – 2016**
- **Ore mined: 37% above**
- **Waste mined 2%**
- **Total Mined 8% above**

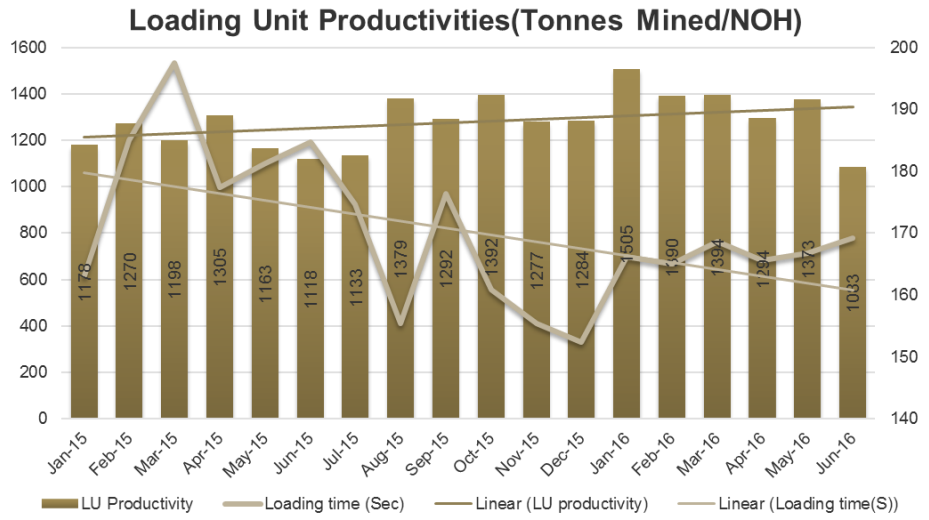
Loading Unit productivity : 5% above

Hauling Unit productivity : 5% above

Drilling (2015 – June 2016 YTD)

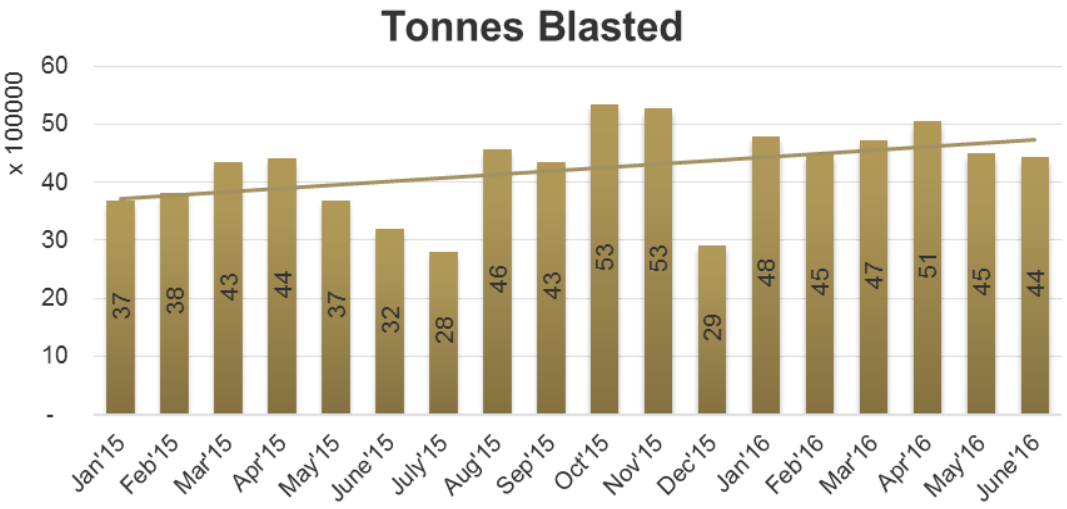


- Pattern sequencing and equipment scheduling resulted in 6% reduction in total delay
- 7.6% improvement in drill productivities compared to H1-2015

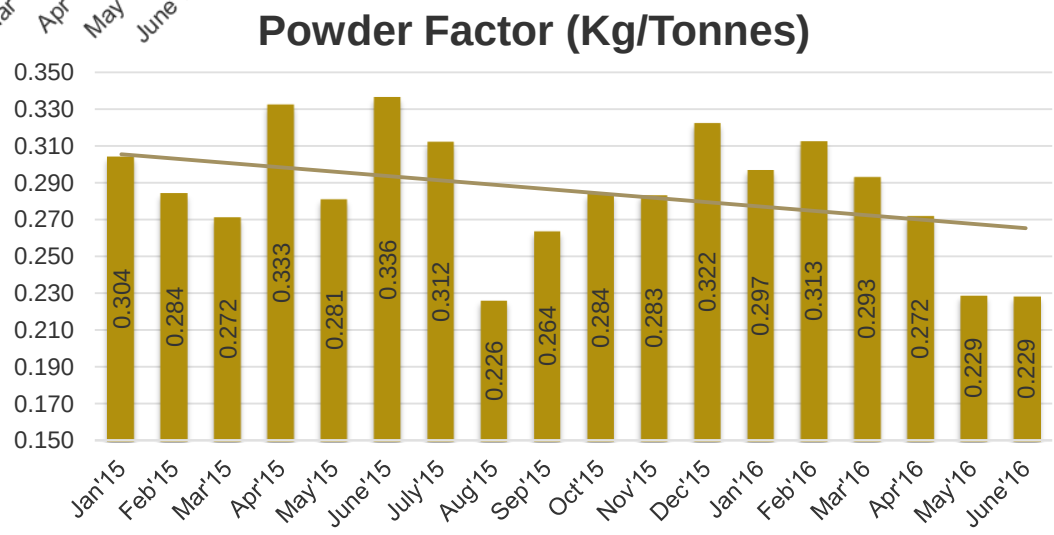


- Productivities 5% above the budget 2016
- 8% reduction in average loading time compared to H1 - 2015

Drill & Blast (2015 – June 2016 YTD)

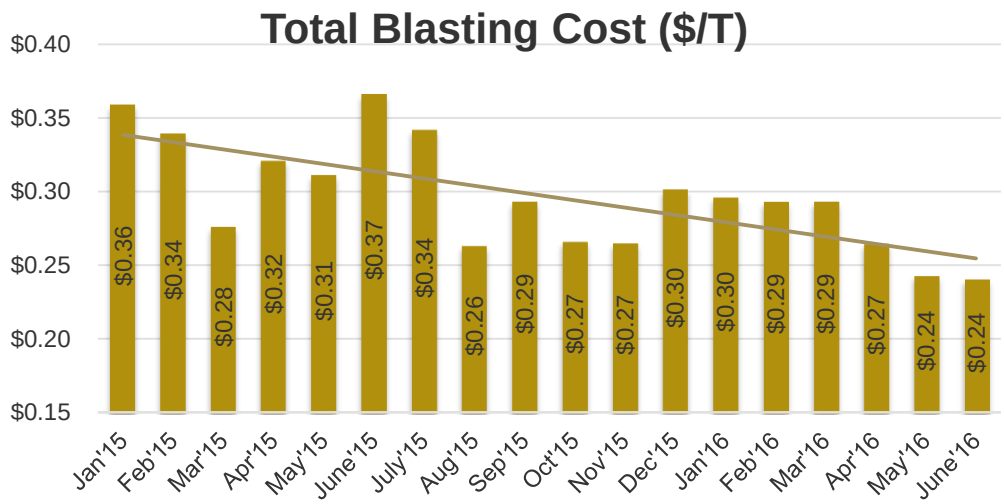


- Total tonnes blasted:10% above budget 2016
- Optimization of Drill & Blast designs to obtain higher yield/meter without compromising post blast results

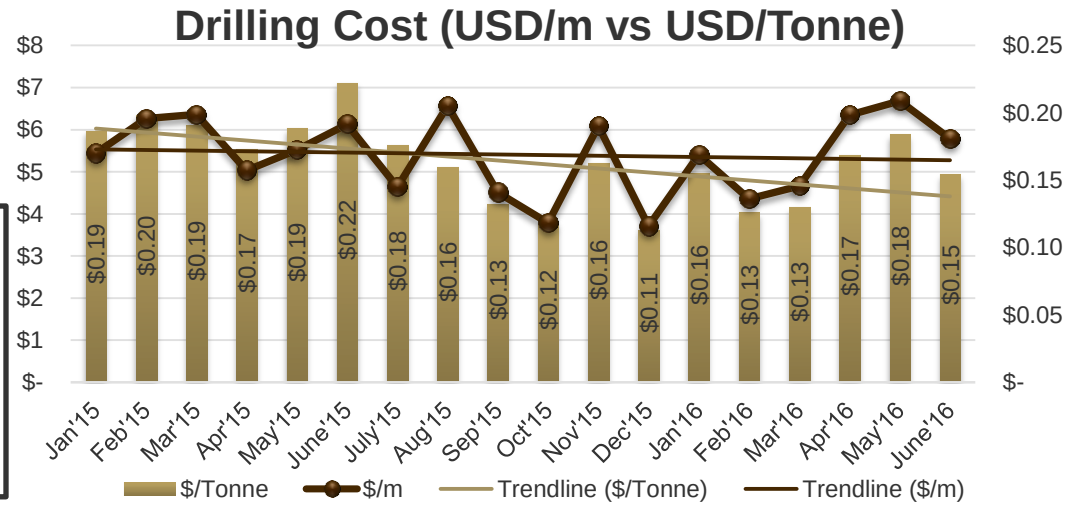


- Powder factor, 23% below budget 2016, with 14% reduction in explosive consumption
- Design optimization based on material type and Quality control initiatives in Drill & Blast being key drivers

Mine Operations Cost (2015 – June 2016 YTD)

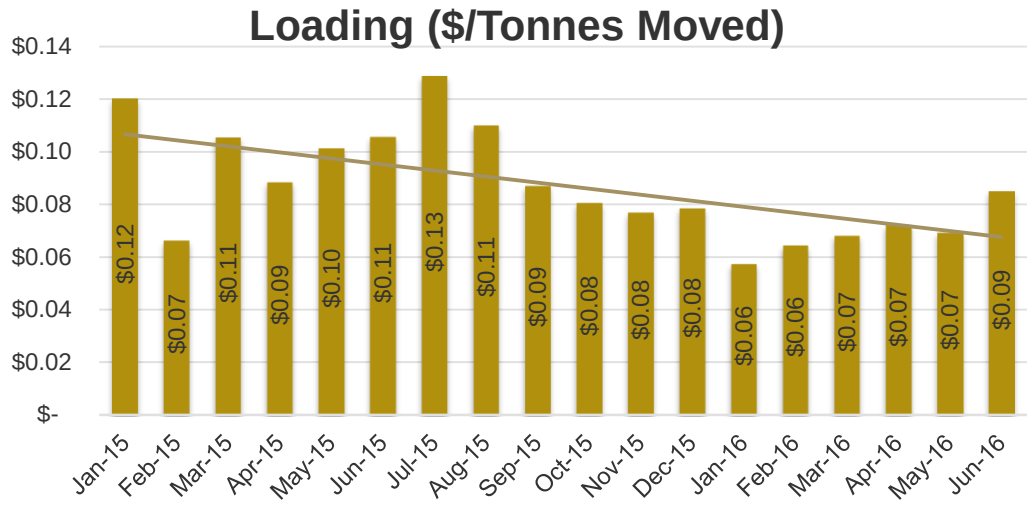


- 29% reduction in blasting cost compared to budget
- Cost Management Initiatives includes
  - Selective pattern expansion with optimized drill & blast design.
  - QA/QC in D&B processes
  - Blast accessory management
  - Selective emulsion blend

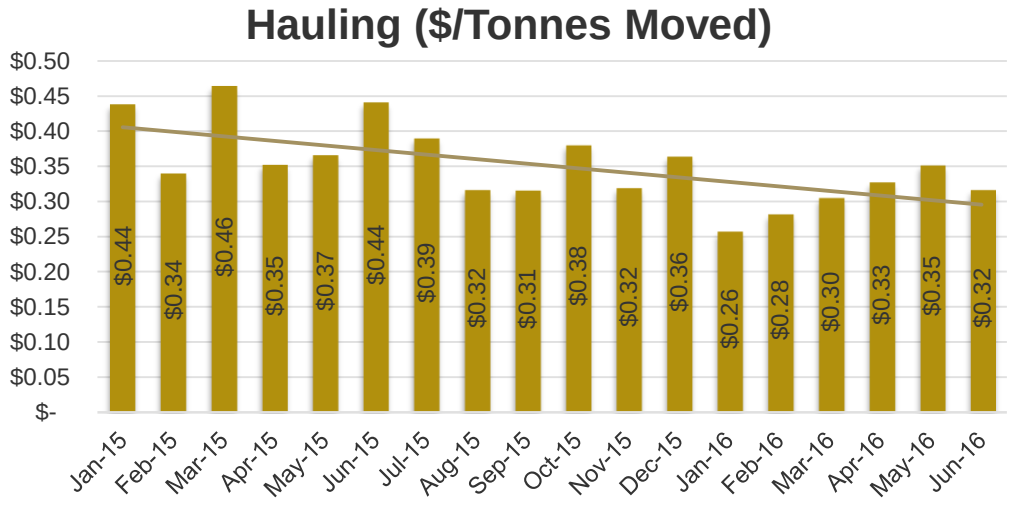


- 20.5% reduction in total drilling cost compared to budget 2016.
- Cost Management initiatives includes
  - Pattern expansion resulted in higher drill yield and reduction in drilling cost/ tonne blasted

Mine Operations Cost (2015 – June 2016 YTD)



- 30% reduction in average loading cost compared to H1-2015
- Major contributors includes
  - Higher loading unit productivities



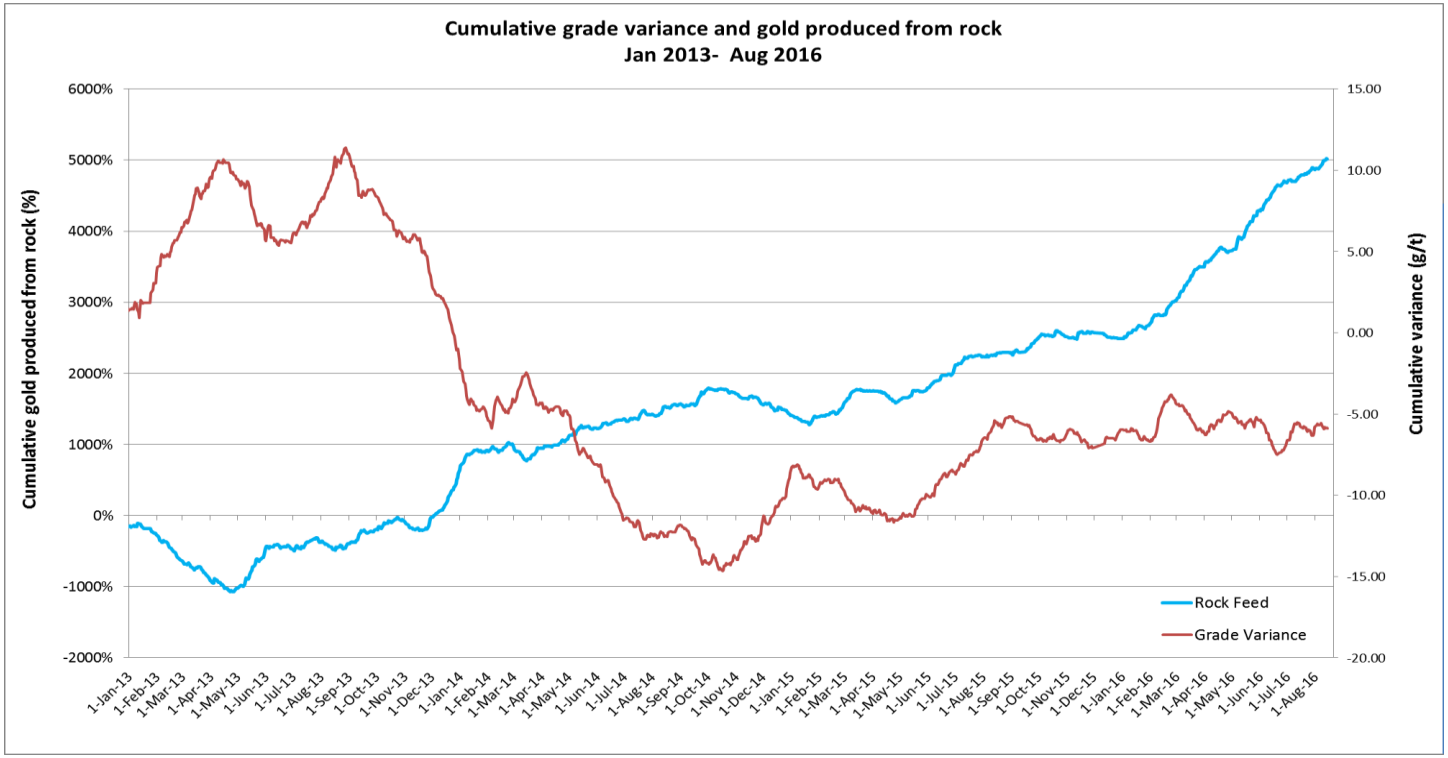
- 22.5% reduction in average hauling cost compared to H1-2015
- Major contributors includes
  - Higher Hauling unit productivities
  - 23% reduction in tire costs ($/tonne) compared to H1-2015

Grade Reconciliation

Suresh Kalathil
Grade Reconciliation
Slides 44 – 47

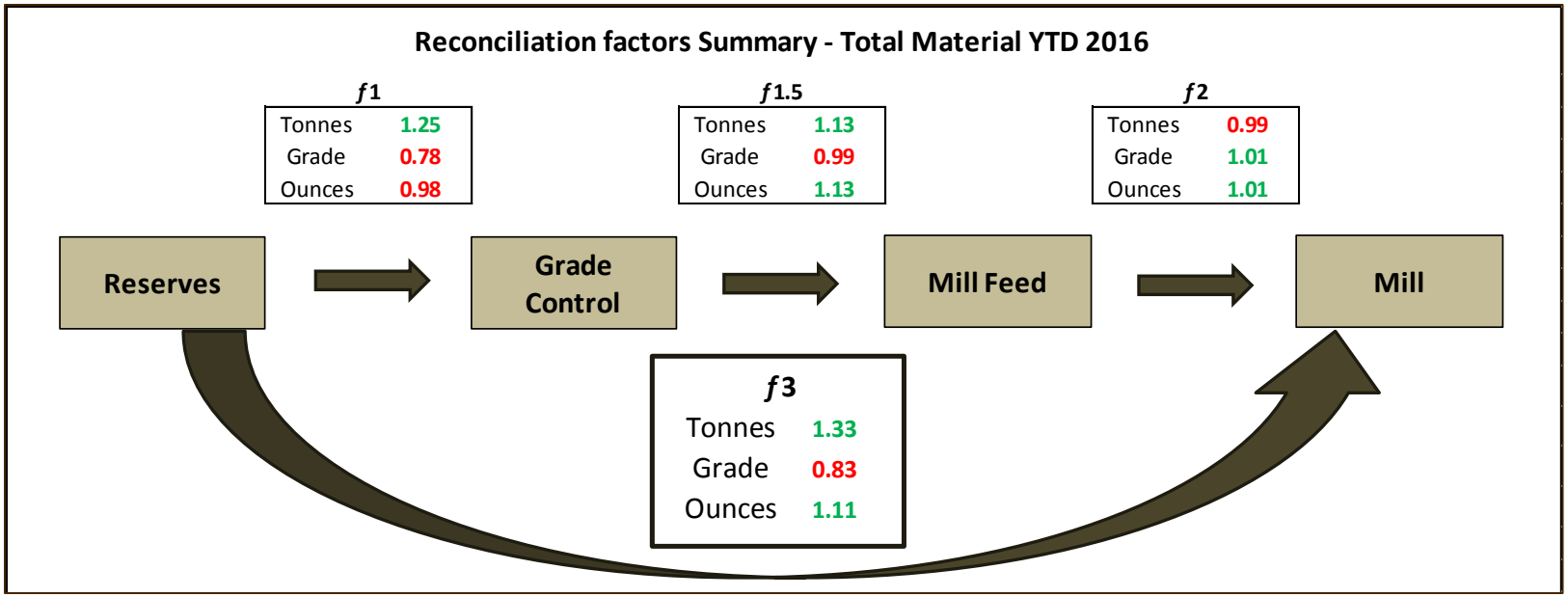
Gold (Au) from Hard Rock: 2013 to present

- Negative variance between mill and mine became pronounced in 3rd Qtr.-2013
- Stabilization in H2-2014
- May 2015 (ROM stockpile & increased BMM usage) = improvement & stabilization



Reconciliation – YTD

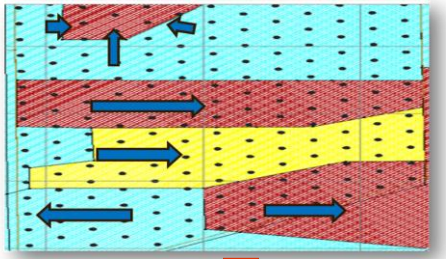
- **F1:** Reserves (undiluted) vs designed ore packets (diluted)
- **F1.5:** Designed ore packets vs mine production to mill
- **F2:** Mill feed vs Mill reported
- **F3:** Reserves (undiluted) vs Mill reported (diluted)

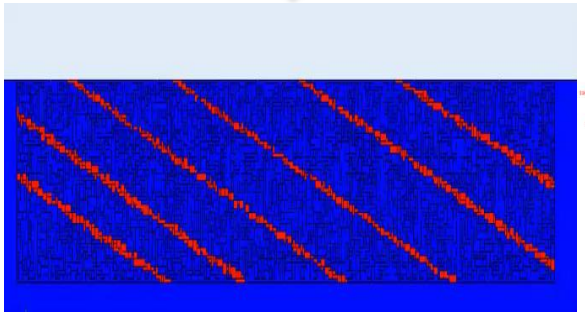


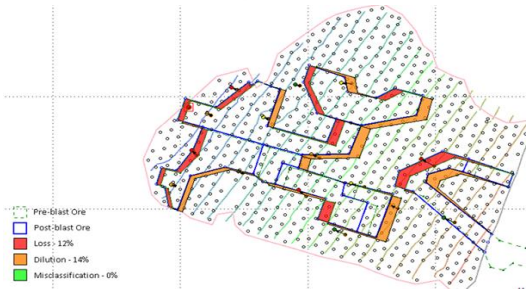
Dilution Management Methodologies

- **Blast design and requirements are decided by size and shape of ore packets**
  - Uniform movement along the strike
  - Reduce movement in ore shots
  - Segregation of ore from Waste
- **Irregular shape ore bodies using blast movement monitors and standup blasts**
- **Wider ore packets can be separated effectively using segregation blasts**

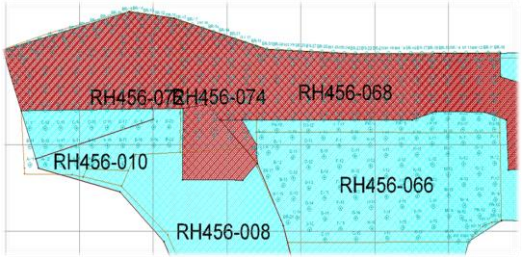
BMM + Standup blast

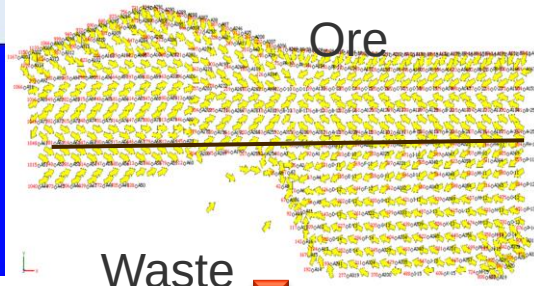




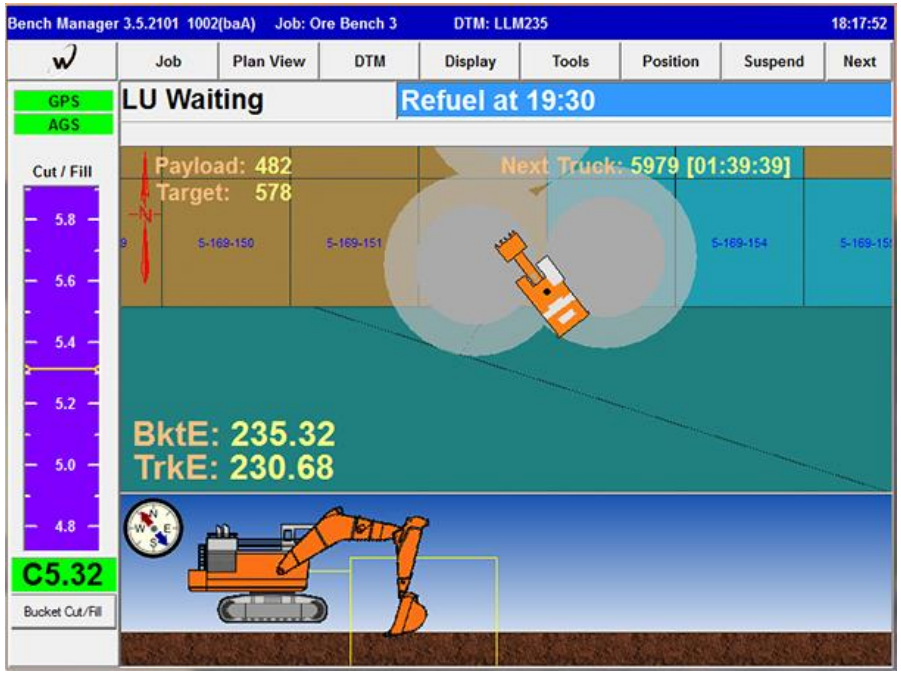


Segregation





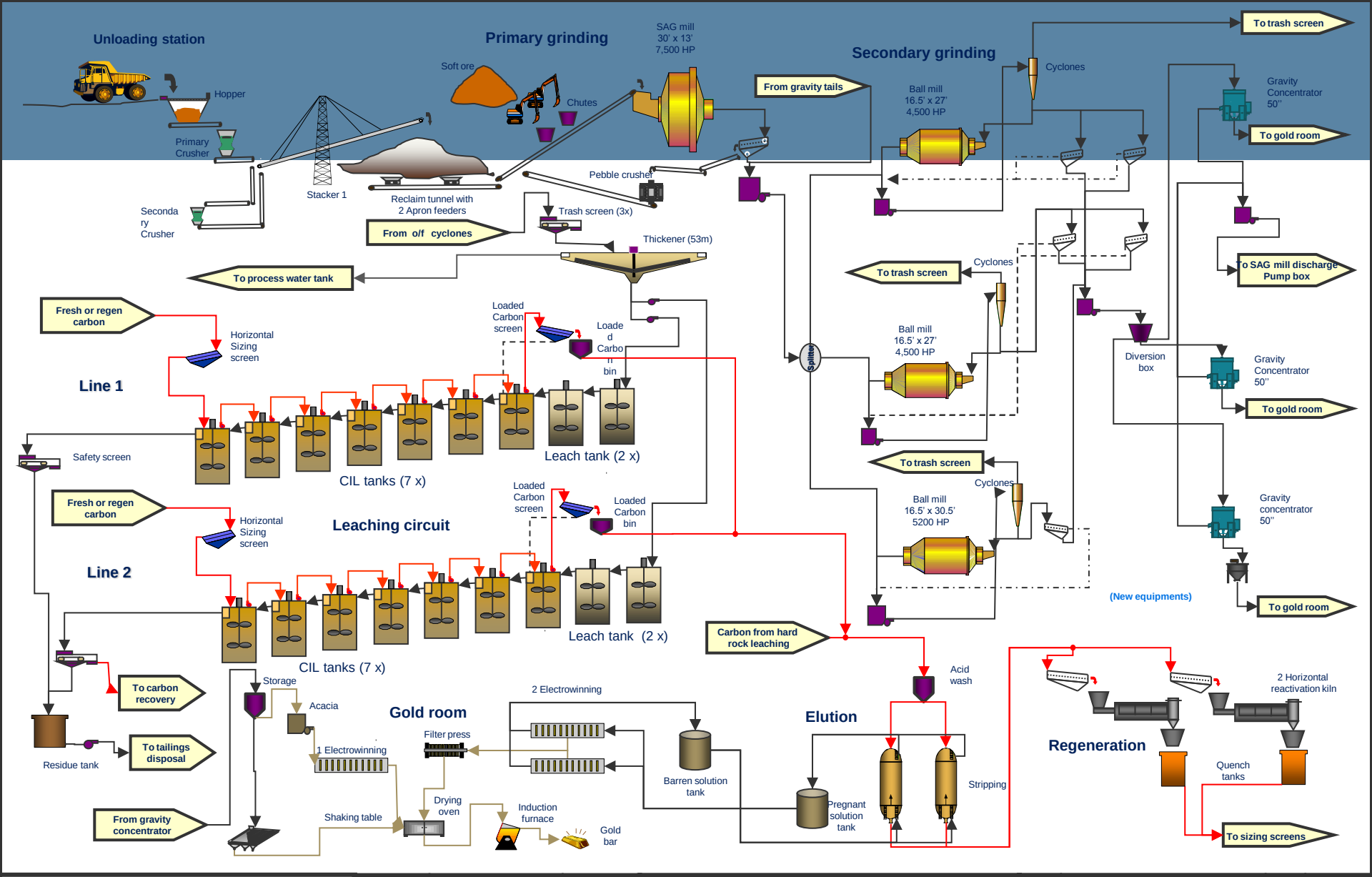
Wenco High Precision Positioning & Guidance



- Bench Manager + Arm Geometry System
- Precise, accurate positioning of bucket for automated declaration of material, real time face & floor survey, control of digging accuracy

Mill

John Grignon
Mill
Slides 49 – 64



IAMGOLD METALLURGY

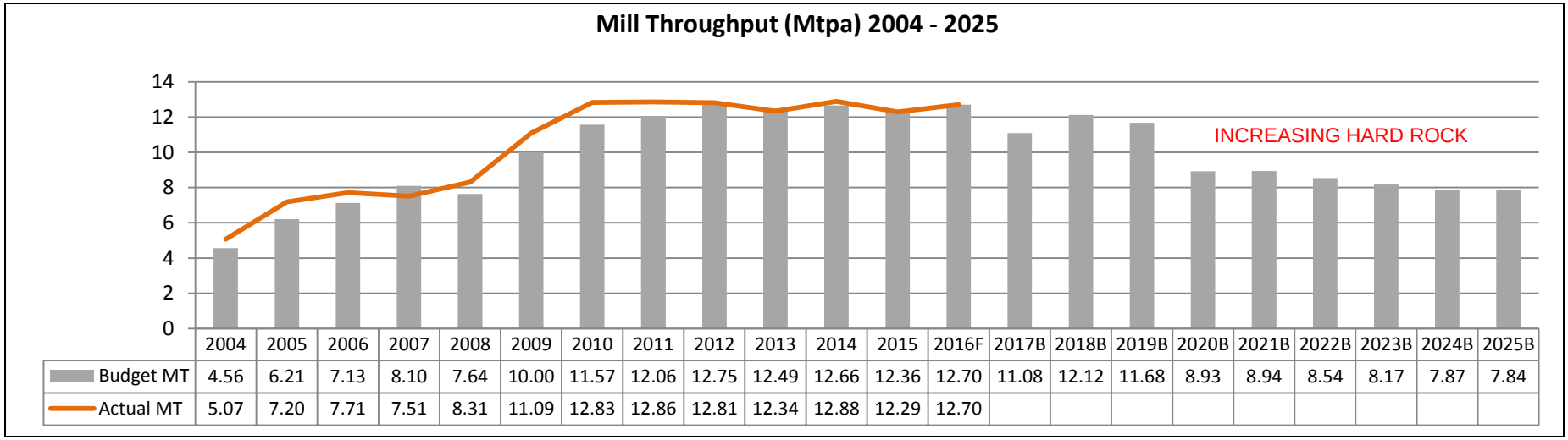
Designed:	P. Pelletier, ing.	2010-12-20
Drawn:	M. Deshaies, ing.	2010-01-08
Approved:	P. Pelletier, ing.	2010-12-20

Project : Rosebel Mine

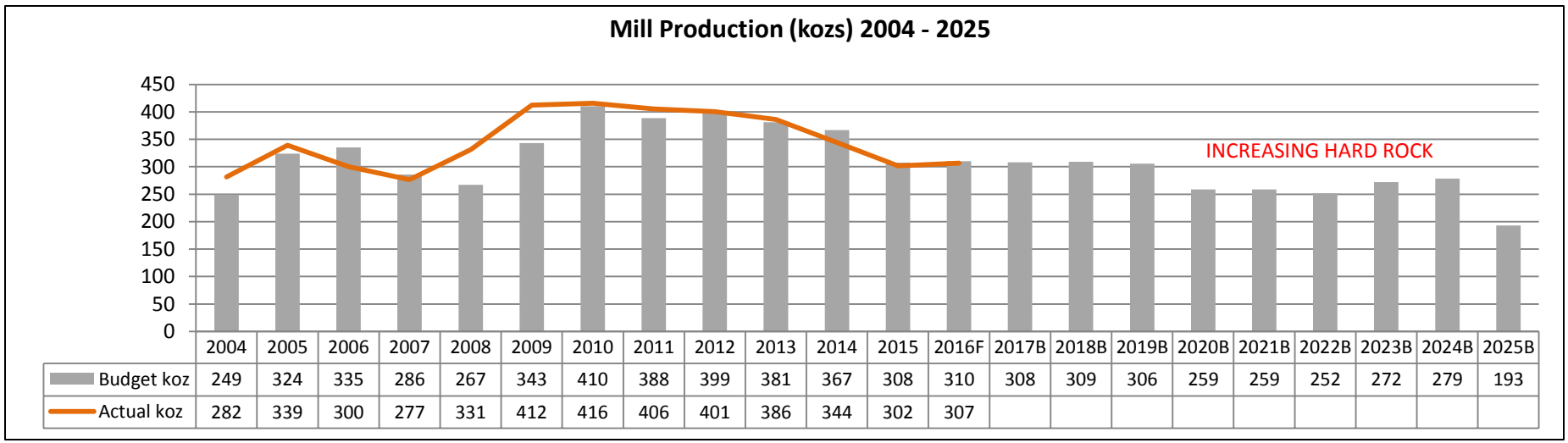
Title : Base Case- Mixed Ore Circuit
Third Ball Mill Addition

Rev.	Description	By	Date
0A	Modification of gravity	MD	12-20

Historical Data – Mill Production

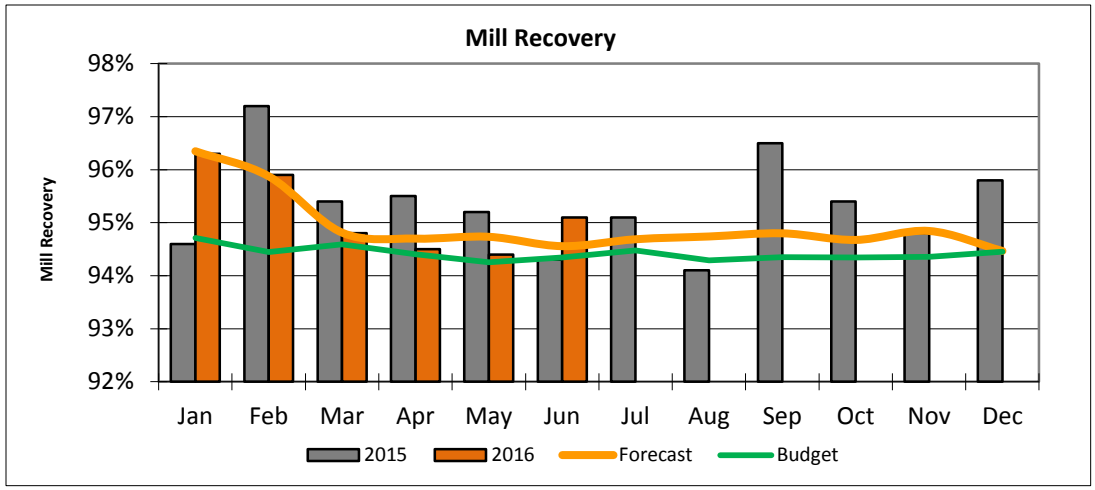


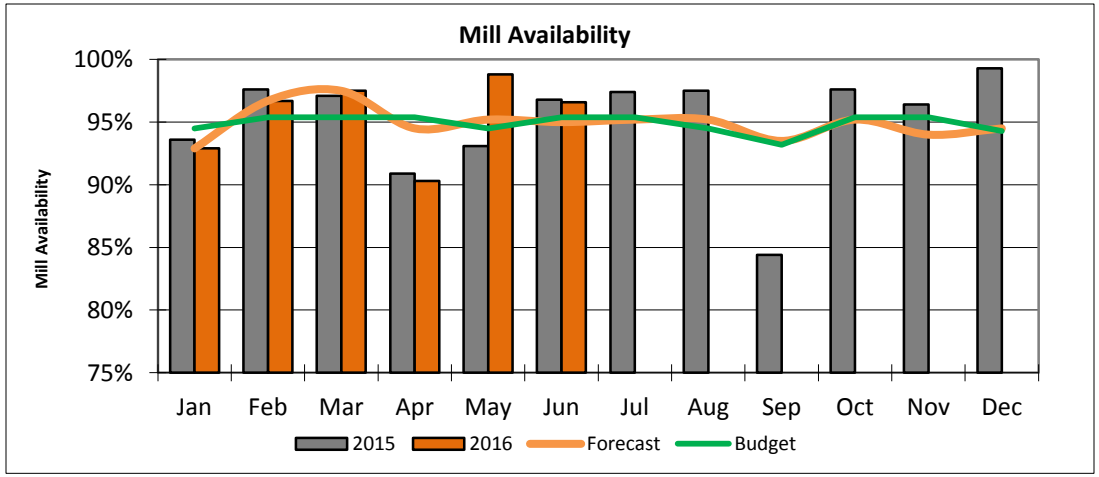
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016F	2017B	2018B	2019B	2020B	2021B	2022B	2023B	2024B	2025B
Budget MT	4.56	6.21	7.13	8.10	7.64	10.00	11.57	12.06	12.75	12.49	12.66	12.36	12.70	11.08	12.12	11.68	8.93	8.94	8.54	8.17	7.87	7.84
Actual MT	5.07	7.20	7.71	7.51	8.31	11.09	12.83	12.86	12.81	12.34	12.88	12.29	12.70									



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016F	2017B	2018B	2019B	2020B	2021B	2022B	2023B	2024B	2025B
Budget koz	249	324	335	286	267	343	410	388	399	381	367	308	310	308	309	306	259	259	252	272	279	193
Actual koz	282	339	300	277	331	412	416	406	401	386	344	302	307									

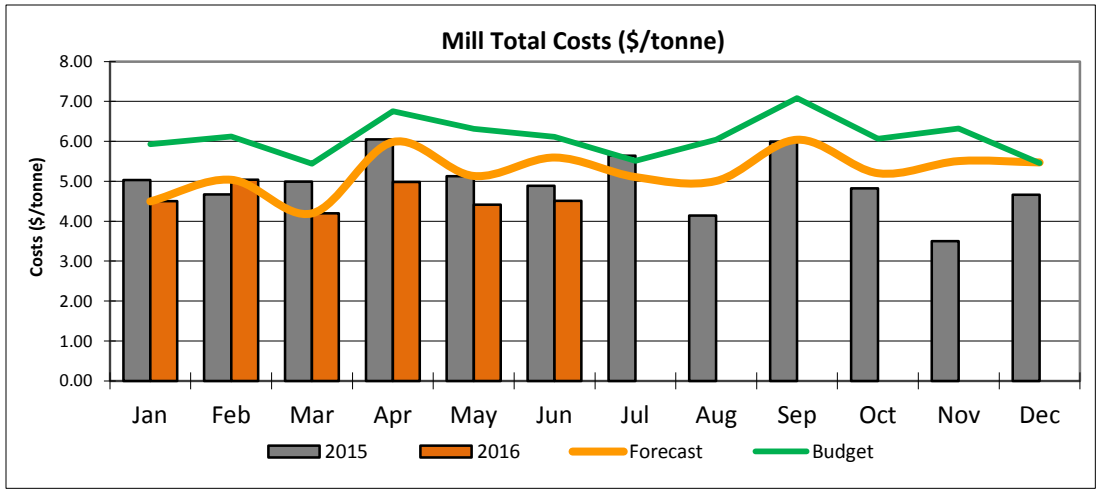
Performance Highlights

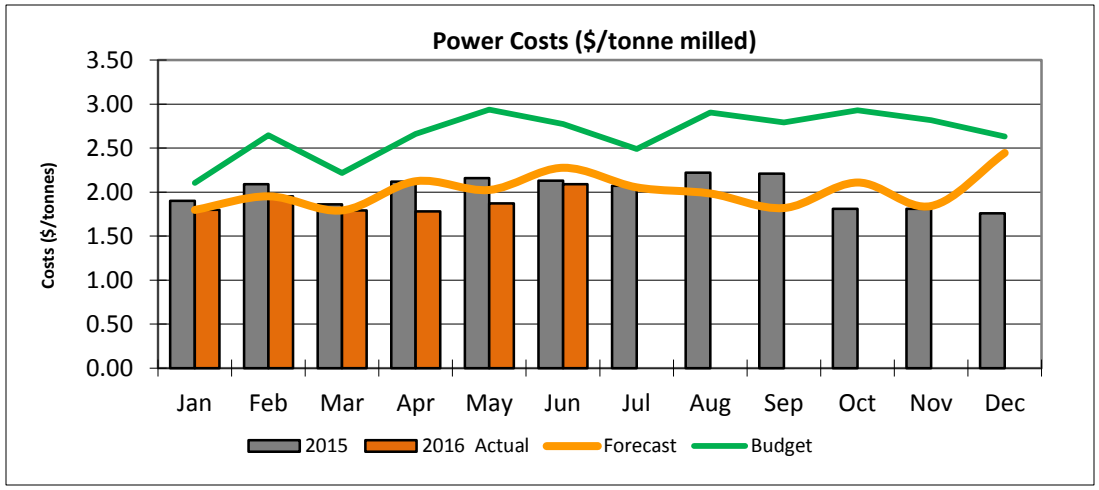




- Continued emphasis on acid wash, elution performance, gravity optimization and carbon handling is seeing benefits
- We Tjaring Waka" initiative, short interval controls and preventive maintenance

2016 Costs





- **Key Drivers**
  - Grinding media -$1.2M, increased mill loads
  - Freight +$184K, reduced media / rates

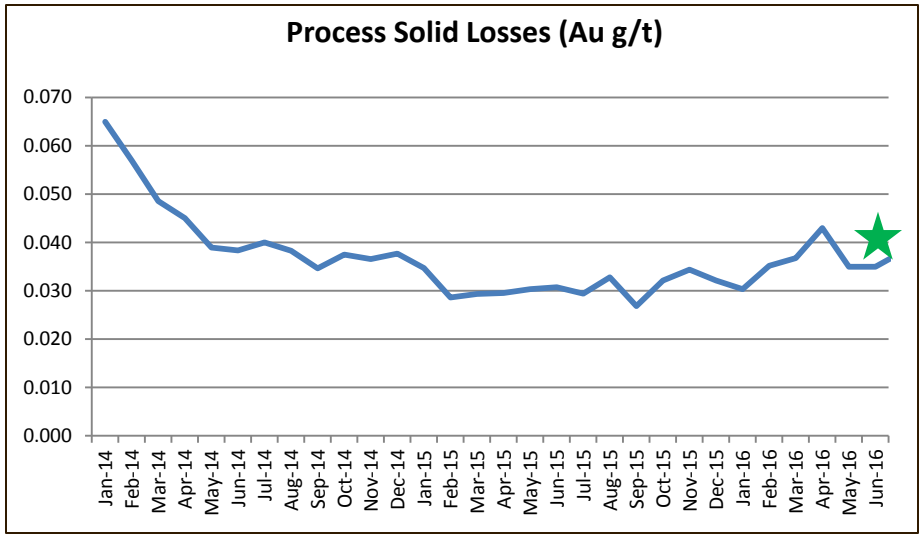
- **Power flex drive**

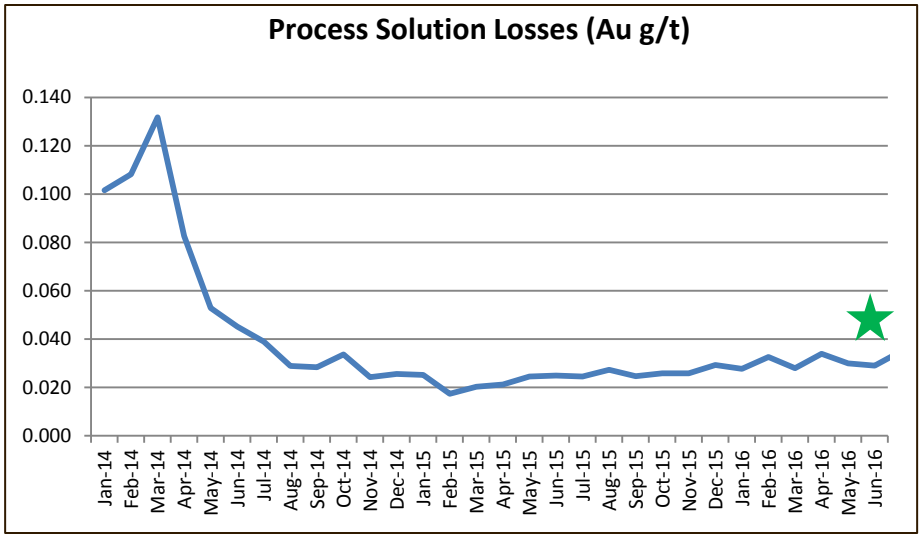
Carbon Handling – Elution / Acid Wash Optimization

- **Audit Action Item Complete**
  - **Elution**
    - Optimize elution efficiency including,

      Cycle time – 1.7 strips / day to 2.0 strips / day : **COMPLETE**
  - **Acid Wash**
    - Optimize wash efficiency through reagent mix protocols : **COMPLETE**
    - Acid wash cycle and flush cycle and flow rate : **COMPLETE**
    - Increase process capacity with installation of 10t vessel – with other initiatives complete, carbon calcium loading have decreased from 8% to 5<%
  - **Observed Gains**
    - Reduced carbon inventory :620t (Jan'14 to 450t June'16)
    - Reduced circuit inventory :22k oz (Jan'14) to 10k oz (June 16)
    - Reduced solid losses :0.065g/t (Jan'14) to 0.035g/t (June 16)
    - Reduce solution losses :0.102g/t (Jan'14) to 0.029g/t (June 16)

Key Opportunities – Solid / Solution Losses

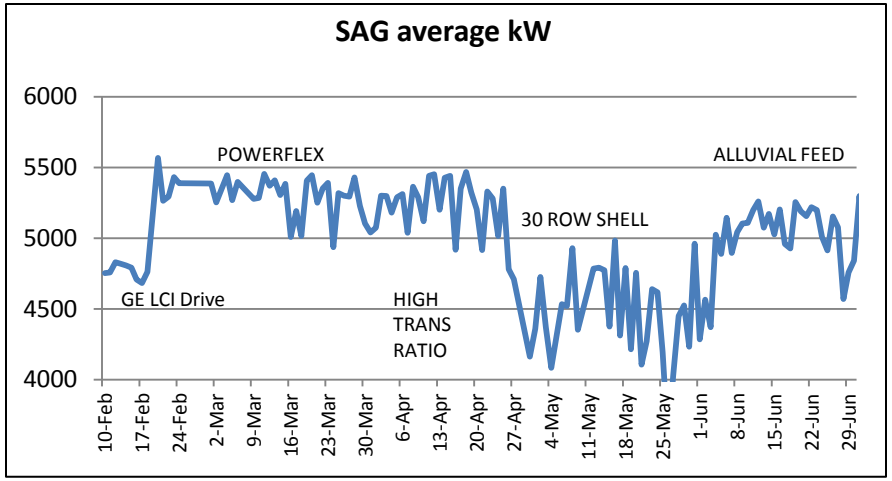


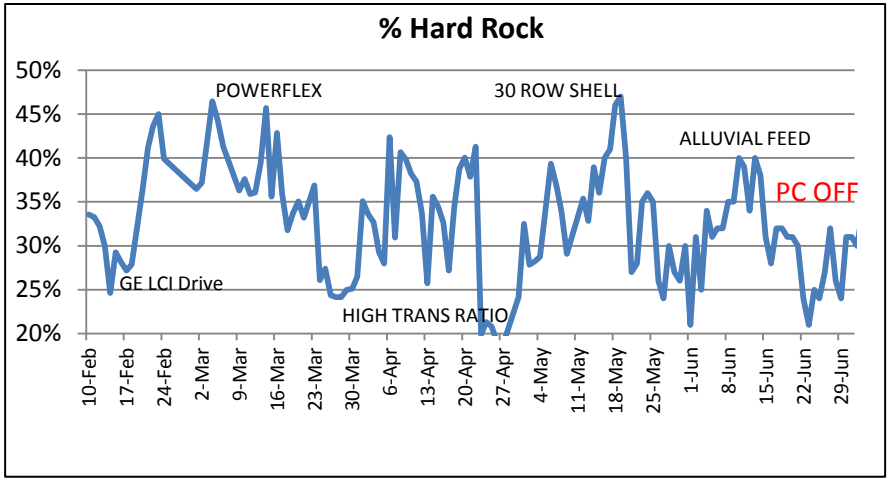


- Cyanide addition strategy – grinding vs leach addition.
- Engineered stockpile – stable feed conditions, stable mill charges at primary and secondary = grind consistency
- 0.050g/t to 0.030g/t = $9M/year cash flow

- Cyanide addition strategy / Engineered stockpile
- Carbon management – reduced carbon inventory, optimized acid washing, carbon profiling, elution performance
- 0.060g/t to 0.030g/t = $14M/year cash flow

Key Opportunities – SAG Powerflex Drive / 30 Row Shell



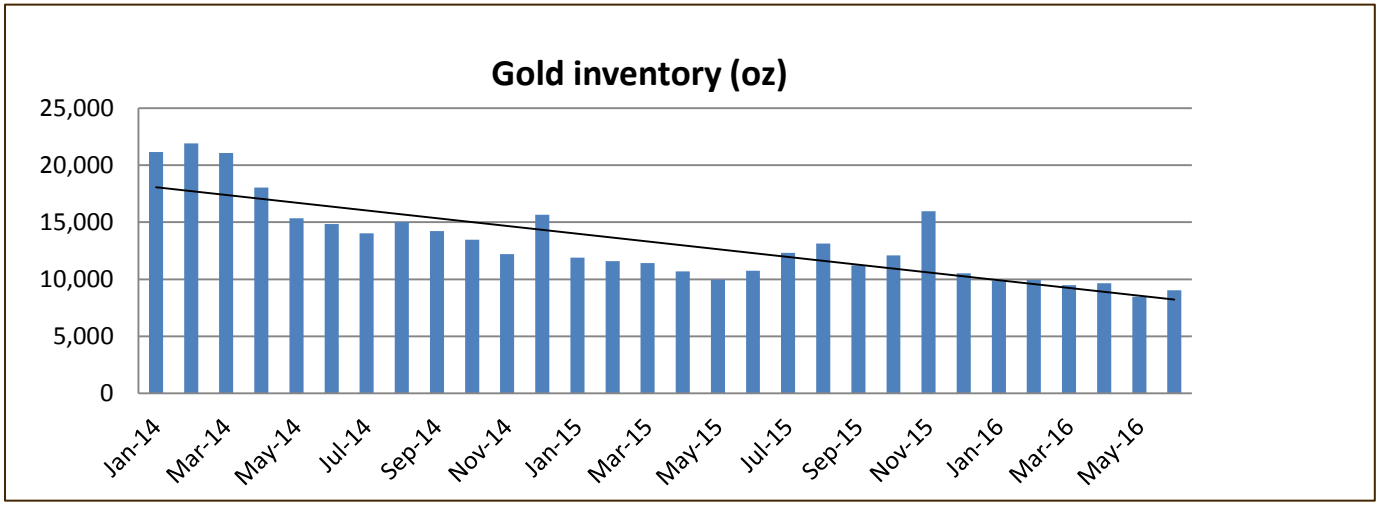


- Powerflex drive vector control allows for continued operation at increased torque over LCI at same current input
- 30 row sees reduced power draw and increased bearing pressure – now operate to target pressure

- Conveyor 2 run rate has realized an increase of ~25%
- Mill hard rock feed has increased from ~10%
- 30 row sees higher performance however increased run rate & transition ratio has not allowed for full potential

2014 – 2016 Performance – Carbon – Elution / Acid Wash

- **Late 2013 seen deteriorating conditions with high carbon calcium loading (8%) resulting in CIL solution losses rising above 0.140g/t. In house initiatives including**
  - Acid wash optimization – multiple batch soakings with fresh reagent
  - Elution optimization – Loaded carbon pre-wash prior to stripping with extended wash has seen significant reduction on heat exchanger cleaning requirements.
  - Carbon inventory reduction – carbon circuit inventory reduction from 620t to 425t



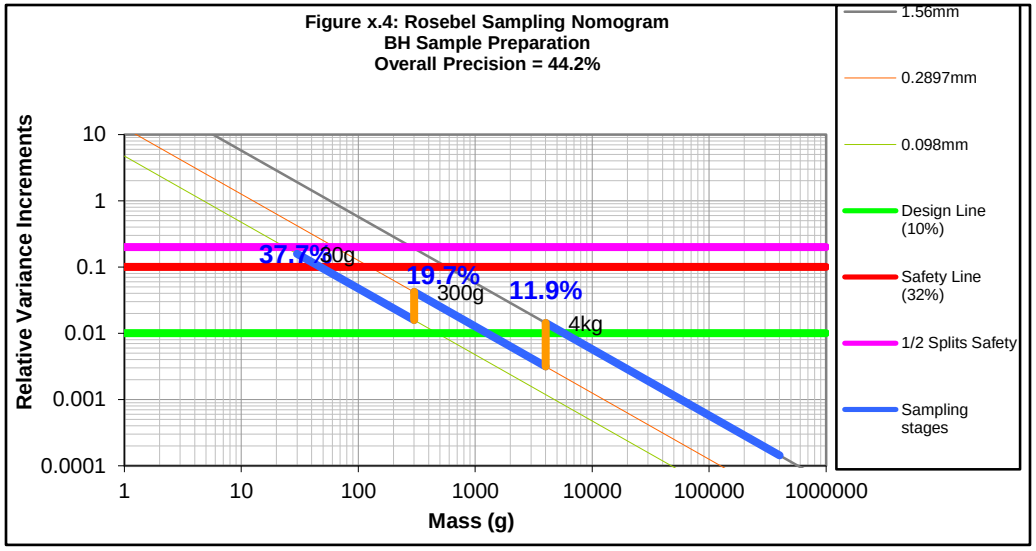
- **Realized reduction in Working Capital**
  - Reduced circuit gold inventory – 22,248 ounces (January 2014) to 9,039 ounces (June 2016)

2016 Achievements

- **94% overall plant availability**
- **94 % recovery. Cyanide addition strategy and feed management being the contributors**
- **Costs: the Mill has seen significant forecast cost reductions for 2016 including**
  - Grinding media – $2M – continued focus on expert system optimization and secondary grinding operating strategy to maintain maximized circulating loads is seeing advantage which represent a significant portion of the savings
  - Maintenance – $800k – utilization of behavior model processes including; visual boards and short interval controls have continued to realize benefits
- **Secondary Crusher: on track and budget, commissioning in December**

Mill Laboratory – Opportunities / Innovation

- **PAL**
  - Improved sample representation
  - Increased sample size for processing 300g vs 30g fire assay
  - Reduced analytical costs, $1.00/determination vs fire assay $3.00/determination
  - Single PAL machine 416/ determinations/day with current (3) PAL machines at 1,248 determinations
- **Estimated direct cost saving of $60k/month**



Mill Opportunities – Innovation

COMMINUTION OPTIMIZATION

September 2015 – media change initiated

May 2016 – SAG 30 row installed

Phase 1A

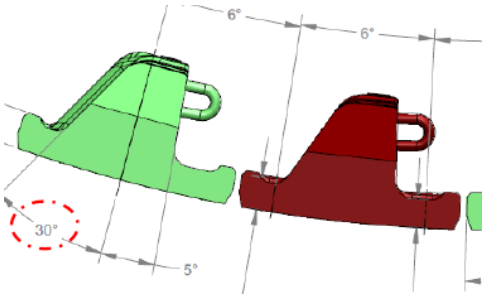
- Grinding Media
  - SAG move from 125mm to 140mm
  - Ball Mills, move from 63mm to 75mm
- SAG shell liners – move from 40 row to 30 row
- SAG pulp chambers to be modified (in process)

40 ROWS OF LIFTERS

- Lifter gap = 250 mm
- Bucket volume = 0.27 m^3
- Volume per rev = 10.6 m^3
- % of mill charge = 16%

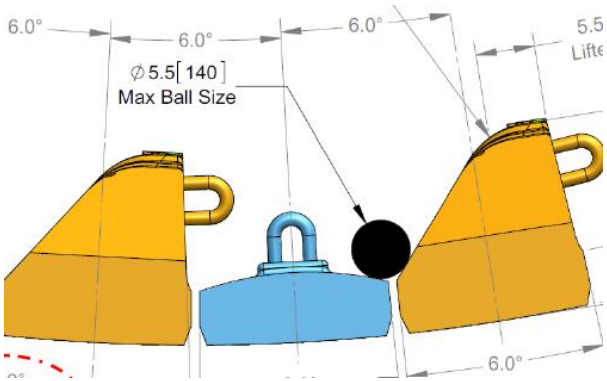
30 ROWS OF LIFTERS

- Lifter gap = 490 mm
- Bucket volume = 0.54 m^3
- Volume per rev = 15.6 m^3
- % of mill charge = 24%
- Cost = nil
- Benefit: fit a bigger hammer into the gap
- Risks: if mill runs empty, you'll smash the liners
- Mitigation = Expert System



40 ROW

30 ROW



BIGGER HAMMERS = REDUCED MEDIA AND CN CONSUMPTION

- 125 mm SAG ball = 8.8 kg = most commonly used ball
- 140 mm ball = 11.4 kg
- Risk Mitigation: Expert System, trajectory modelling, & microphones on SAG to monitor noise levels
- Additional benefit = bigger balls consumed at a lower rate: proportional to diameter , e.g. 152 mm ball consumption rate = 1 ÷ (152/125) = 0.82 = 18% fewer balls: opex savings for both balls and cyanide.

Mill Opportunities - Innovation

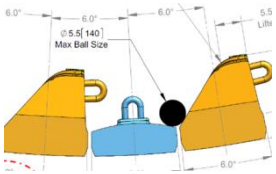
SECONDARY CRUSHING

December 2016 – 7’ in service

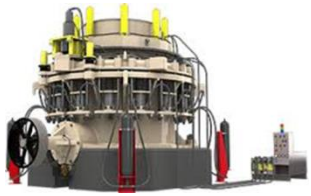
2016 Key Opportunities – Phase 1 Summary

- Base case - 1SAG + 3BM LCI Drive
- **6.9Mtpa at 90% Hard Rock**

- PowerFlex – Increased torque = +5% HR
- **7.5Mtpa at 90% Hard Rock –** March 2016



- 30 row SAG shell liner installation = +5%
- **8.0Mtpa at 90% Hard Rock –** May 2016



- Secondary Crusher installation = +10%
- **9.0Mtpa at 90% Hard Rock –** December 2016
- **Phase 1 total benefit = +20%**
- **At 0.9g/t, 94% Recovery & $1250/oz = $51M / year cash flow**
- **At $1100/oz AISC & $1250/oz = 6.0M / year -$20/oz**

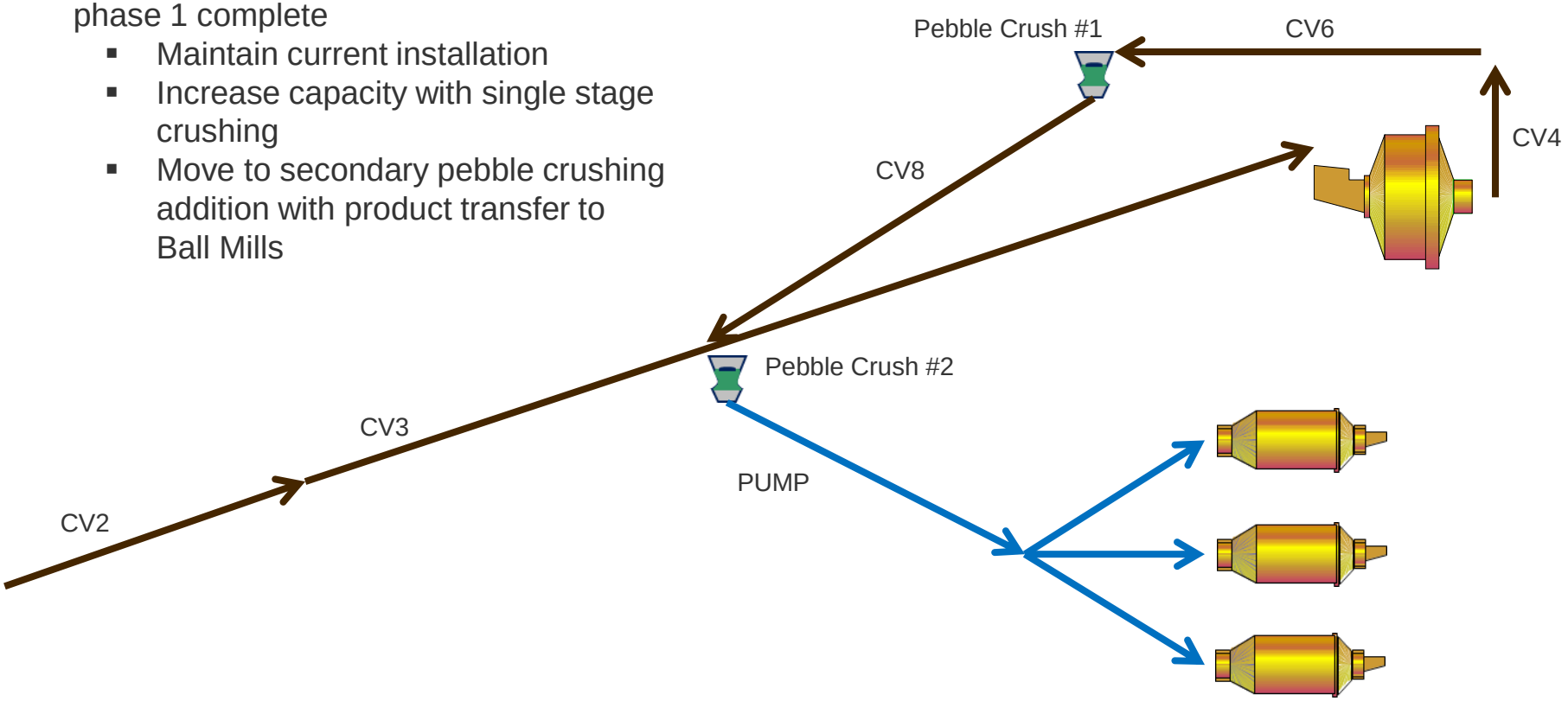
Mill 2016 Opportunities – Innovation

SECOND STAGE PEBBLE CRUSHING

January 2018 – 2nd pebble crusher installed

Phase 2

- Pebble crusher optimization to be determined following operation with phase 1 complete
  - Maintain current installation
  - Increase capacity with single stage crushing
  - Move to secondary pebble crushing addition with product transfer to Ball Mills



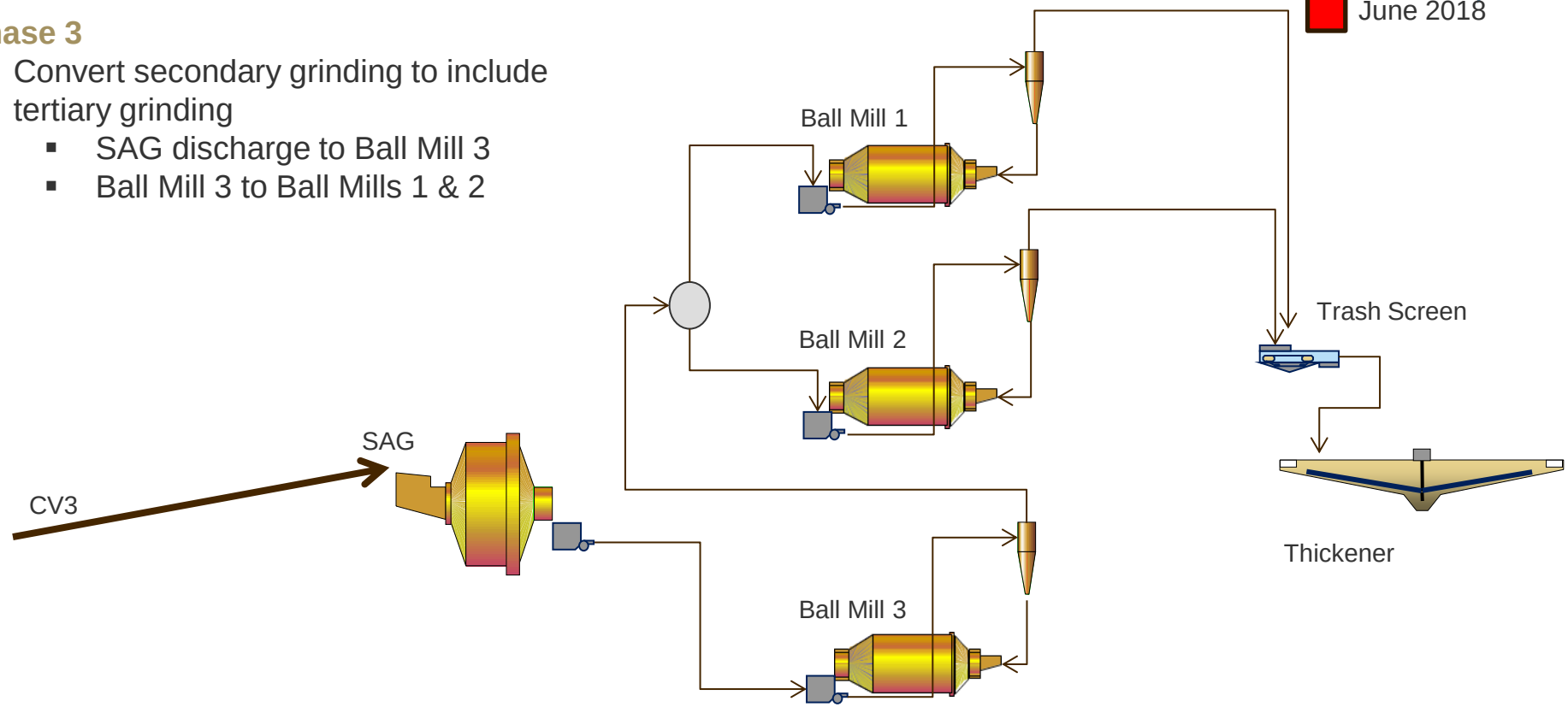
Mill 2017 Opportunities – Innovation

TERTIARY GRINDING

June 2018

Phase 3

- Convert secondary grinding to include tertiary grinding
  - SAG discharge to Ball Mill 3
  - Ball Mill 3 to Ball Mills 1 & 2



Comminution Optimization – Phase 1, 2, 3

- **POTENTIAL GAINS**
  - 20 % increase in hard rock capacity – 9Mtpa at 90% HR vs 7.5Mtpa
  - >5% reduction in media consumption
  - >5% reduction in cyanided consumption
  - = reduced unit costs
  - = reduced unit power consumption
  - = increased gold production

Exploration

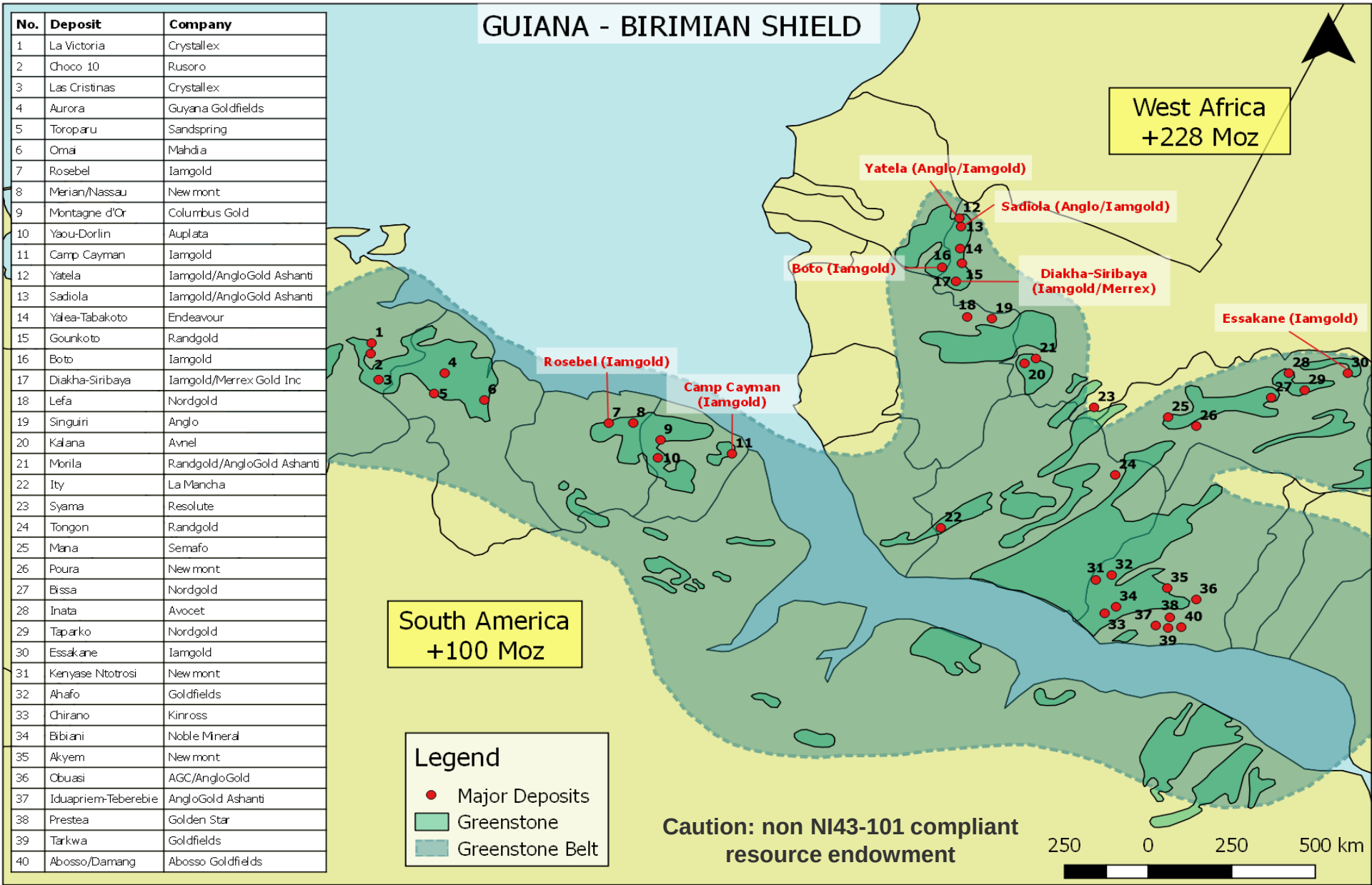
Ian Stockton
Exploration
Slides 66 – 90

Cautionary Statement

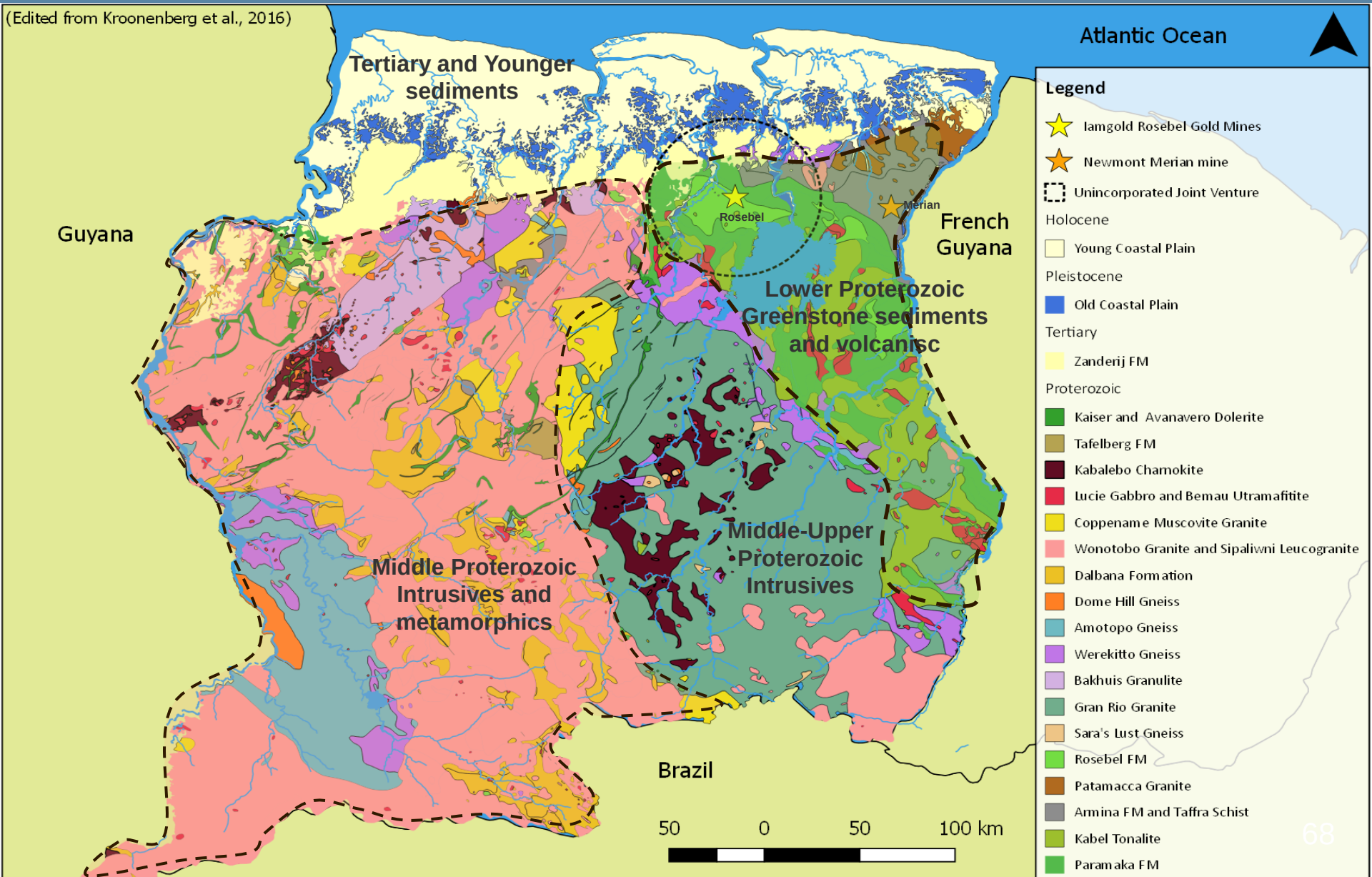
Exploration target potential referred to in this presentation is conceptual in nature and insufficient exploration work has been completed to define a mineral resource. The targets will require significant future exploration to advance to a resource stage and there can be no certainty that the exploration target will result in a mineral resource being defined. The target ranges are consistent with deposits currently being mined at IAMGOLD's Rosebel operations.

Pangea Greenstone Belt

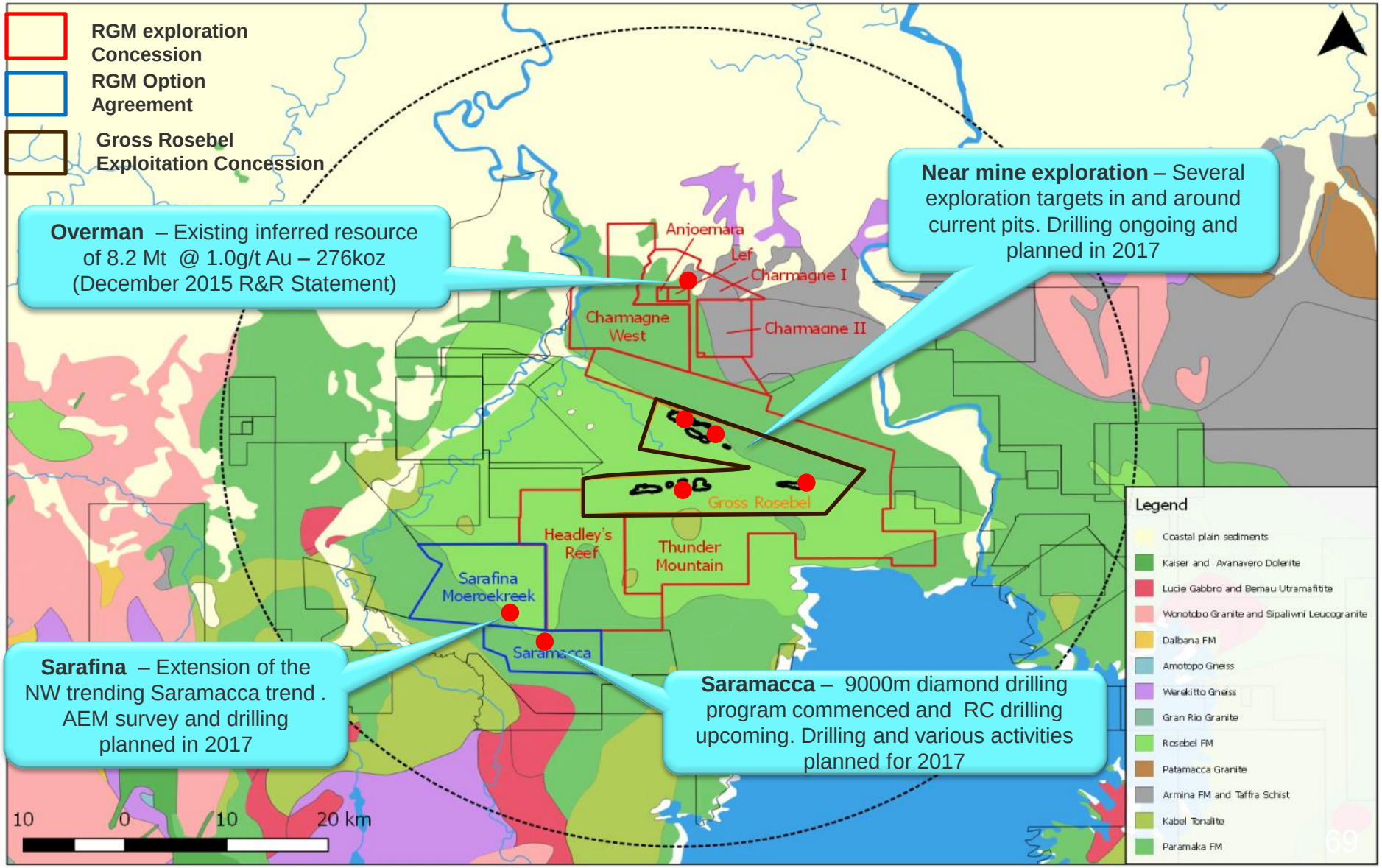
No.	Deposit	Company
1	La Victoria	Crystallex
2	Choco 10	Rusoro
3	Las Cristinas	Crystallex
4	Aurora	Guyana Goldfields
5	Toroparu	Sandspring
6	Omai	Mahdia
7	Rosebel	Iamgold
8	Merian/Nassau	Newmont
9	Montagne d'Or	Columbus Gold
10	Yaou-Dorlin	Auplata
11	Camp Cayman	Iamgold
12	Yatela	Iamgold/AngloGold Ashanti
13	Sadiola	Iamgold/AngloGold Ashanti
14	Yalea-Tabakoto	Endeavour
15	Gounkoto	Randgold
16	Boto	Iamgold
17	Diakha-Siribaya	Iamgold/Merrex Gold Inc
18	Lefa	Nordgold
19	Singuiri	Anglo
20	Kalana	Avnel
21	Morila	Randgold/AngloGold Ashanti
22	Ity	La Mancha
23	Syama	Resolute
24	Tongon	Randgold
25	Mana	Semafo
26	Poura	Newmont
27	Bissa	Nordgold
28	Inata	Avocet
29	Taparko	Nordgold
30	Essakane	Iamgold
31	Kenyase Ntotrosi	Newmont
32	Ahafo	Goldfields
33	Chirano	Kinross
34	Bibiani	Noble Mineral
35	Akyem	Newmont
36	Obuasi	AGC/AngloGold
37	Iduapriem-Teberebie	AngloGold Ashanti
38	Prestea	Golden Star
39	Tarkwa	Goldfields
40	Abosso/Damang	Abosso Goldfields



Geology of Suriname



Exploration Pipeline

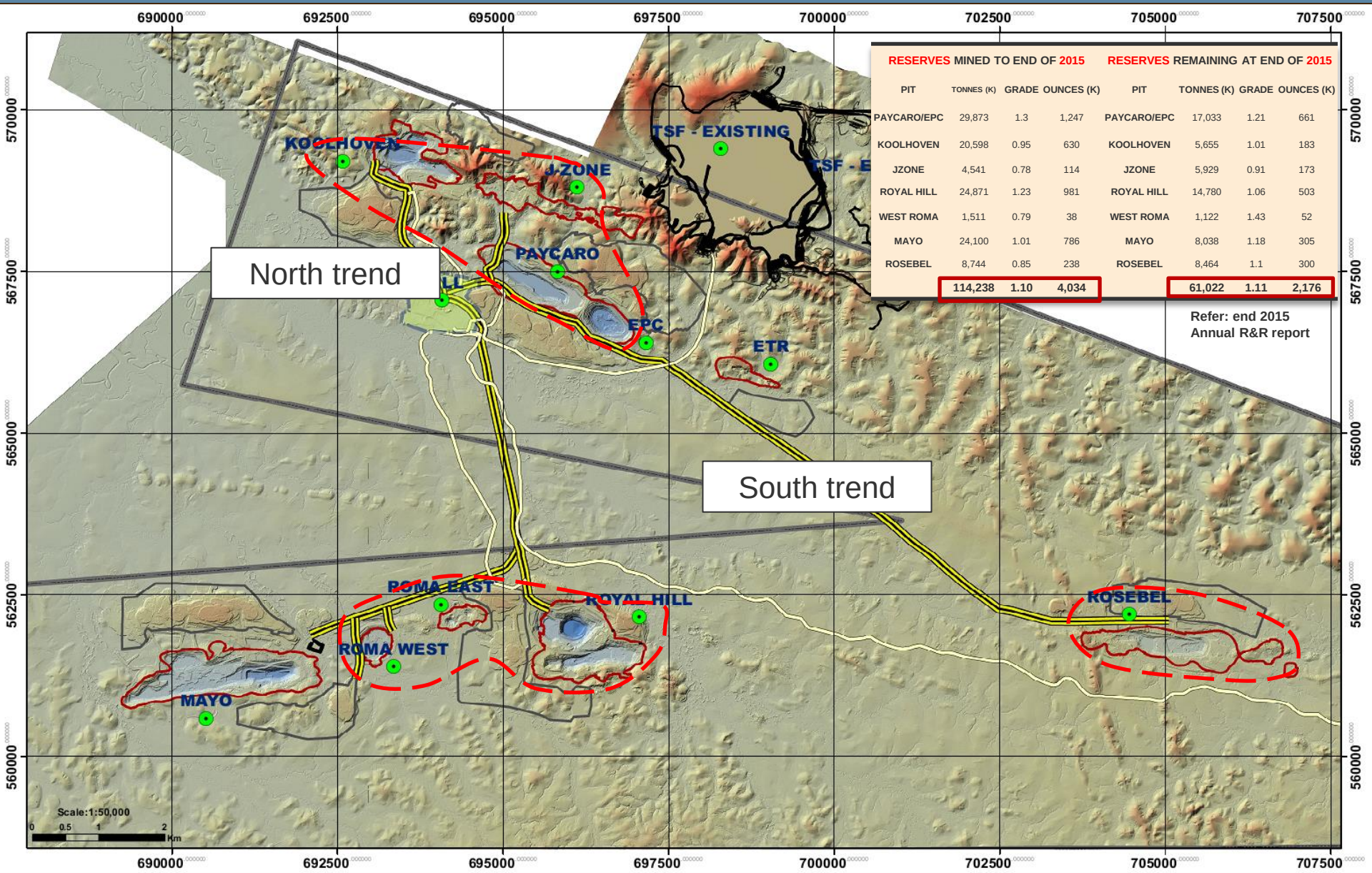


Near Pit

Near Pit

Slides 71 – 78

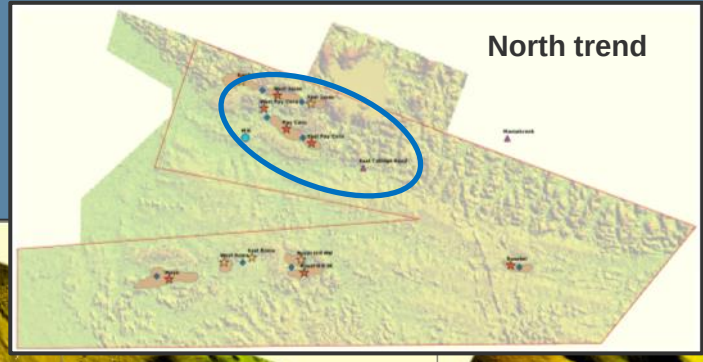
Rosebel Exploitation Concession



RESERVES MINED TO END OF 2015				RESERVES REMAINING AT END OF 2015			
PIT	TONNES (K)	GRADE	OUNCES (K)	PIT	TONNES (K)	GRADE	OUNCES (K)
PAYCARO/EPC	29,873	1.3	1,247	PAYCARO/EPC	17,033	1.21	661
KOOLHOVEN	20,598	0.95	630	KOOLHOVEN	5,655	1.01	183
JZONE	4,541	0.78	114	JZONE	5,929	0.91	173
ROYAL HILL	24,871	1.23	981	ROYAL HILL	14,780	1.06	503
WEST ROMA	1,511	0.79	38	WEST ROMA	1,122	1.43	52
MAYO	24,100	1.01	786	MAYO	8,038	1.18	305
ROSEBEL	8,744	0.85	238	ROSEBEL	8,464	1.1	300
	114,238	1.10	4,034		61,022	1.11	2,176

Refer: end 2015
Annual R&R report

Near Pit Exploration – North Trend



Koolhoven

J-Zone West

J-Zone East

West Pay Caro

Pay Caro

East Pay Caro

Apex area Exploration target direct and indirect ounces P1

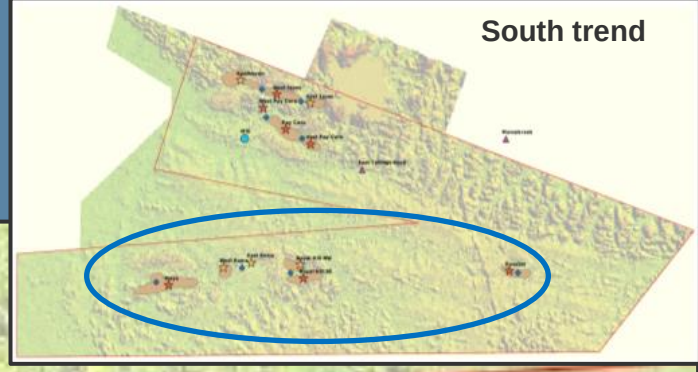
1km

2 Moz Au mined to date

East Pay Caro saddle: Exploration target P3

Caution: All exploration targets are conceptual in nature

Near Pit Exploration – South Trend



West Roma
East Roma
Mayo
Royal Hill NW
Royal Hill SE
1 km

Roma: Exploration target P2

Royal Hill: Exploration target P2

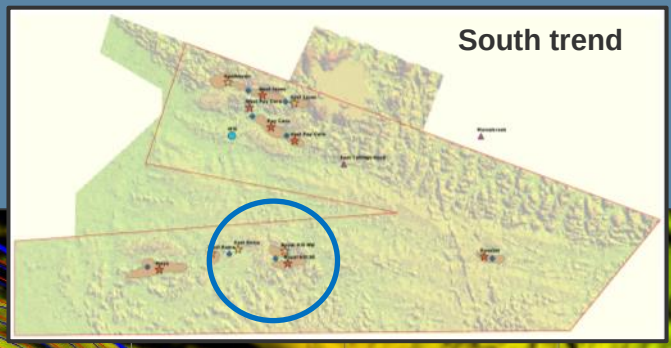
Rosebel
2 km

Rosebel in-pit exploration and extensions: Exploration Target P3

- Advanced Project
- Inactive Pit
- Pit in production
- Saddle

Caution: All exploration targets are conceptual in nature

Near Pit Exploration – Royal Hill Pits



Royal Hill NW

Royal Hill Reserve – 450koz @ 1.1g/t Au (2015 R&R)

Targeted extensions

Cross section

Saddle exploration

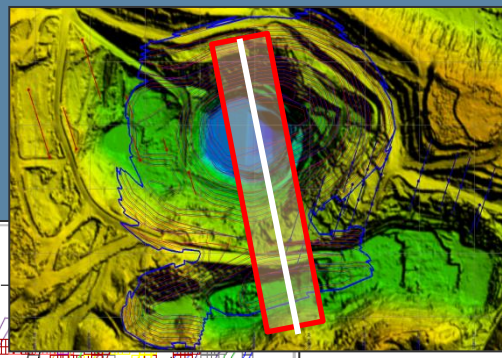
400m

Royal Hill SE

Lateral targets

*Caution: All exploration targets are **conceptual** in nature*

Near Pit Exploration – Royal Hill Cross Section



Looking East

Existing pit

Final pit

Royal Hill NW

Planned Hole

Planned Hole

Royal Hill SE

Existing pit

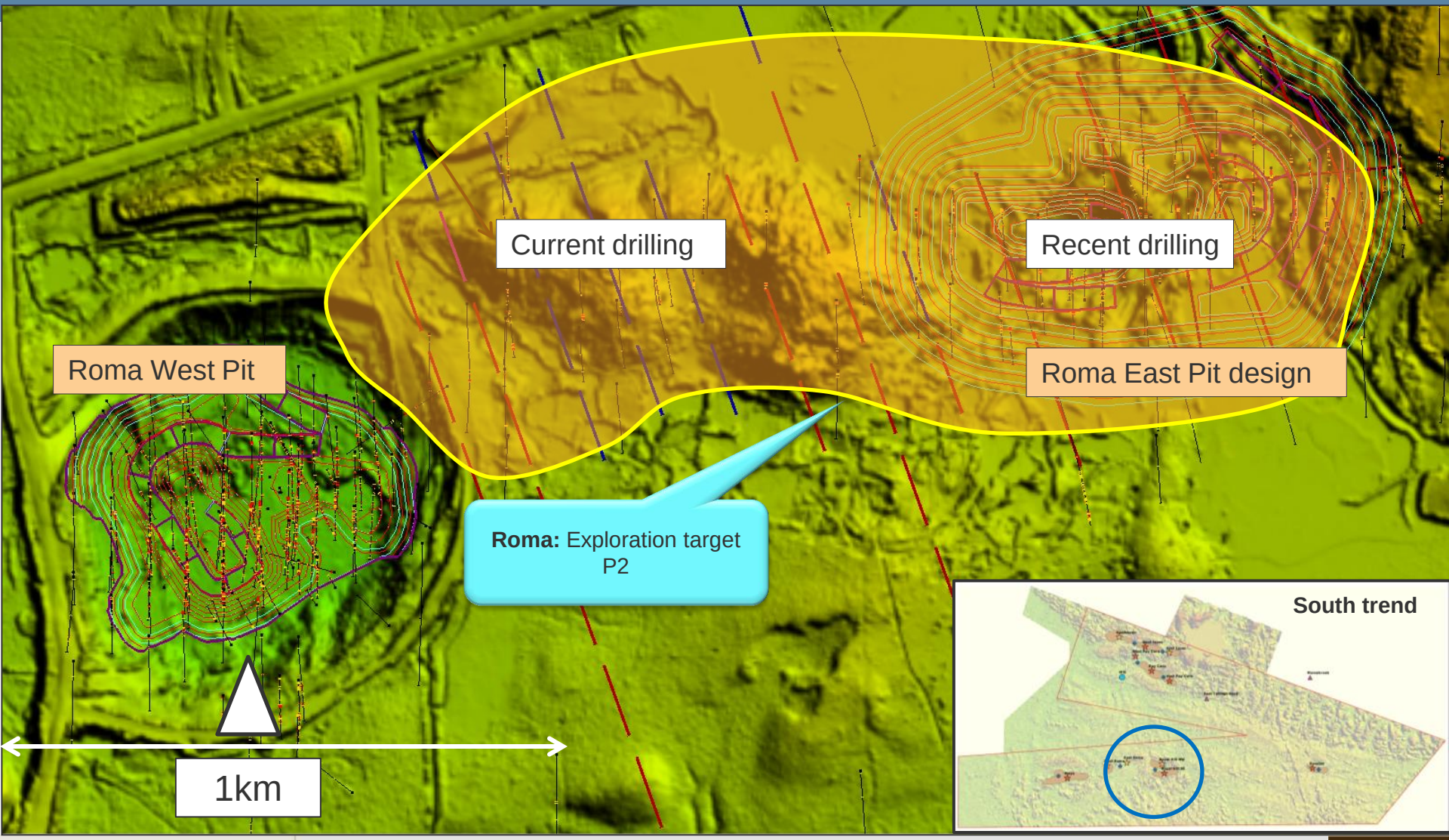
Final pit

Saddle targets and extensions target: P2

Testing potential at depth in the saddle between the NW & SE pits; does the mineralization link-up?

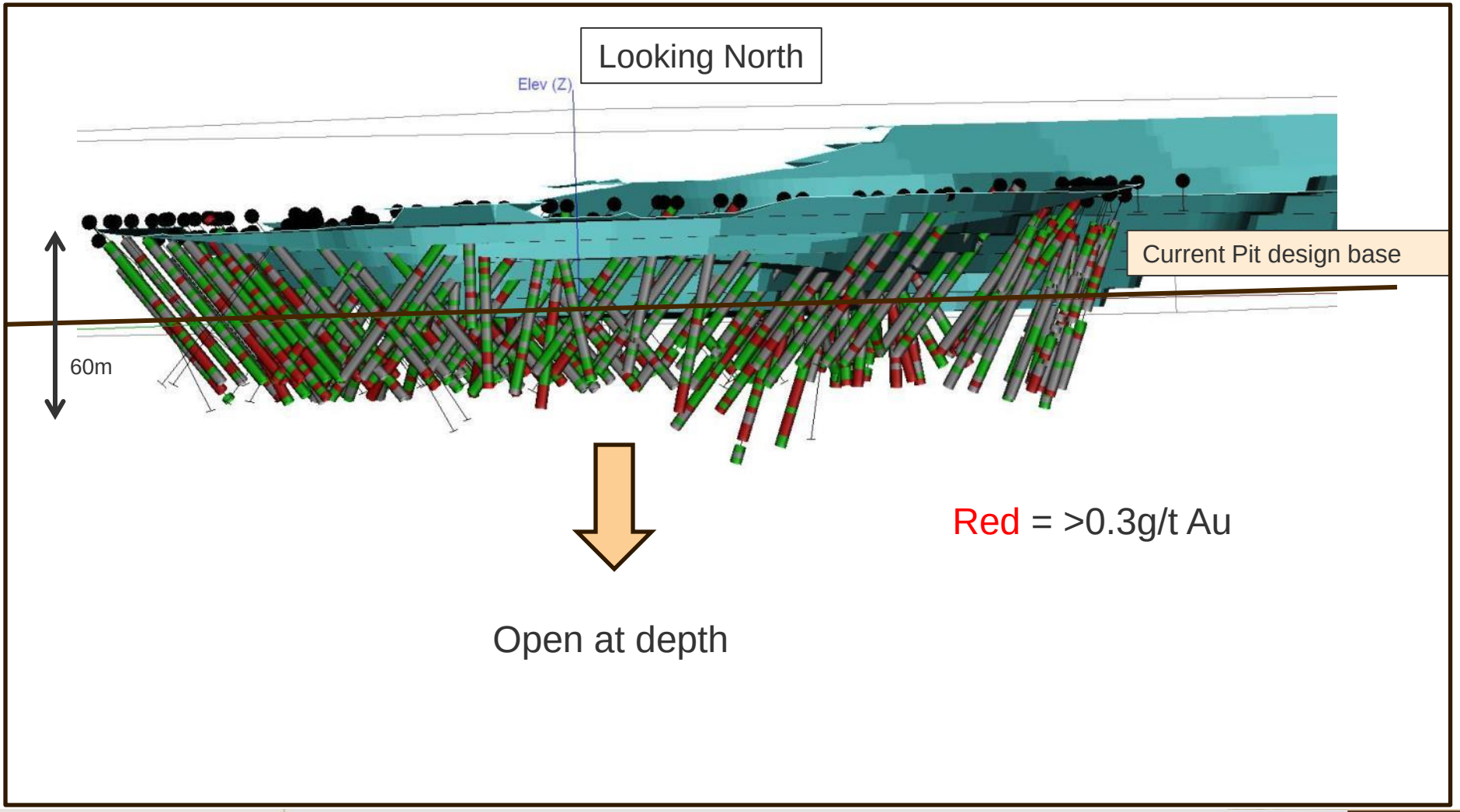
400m

Near Pit Exploration – Roma Pits



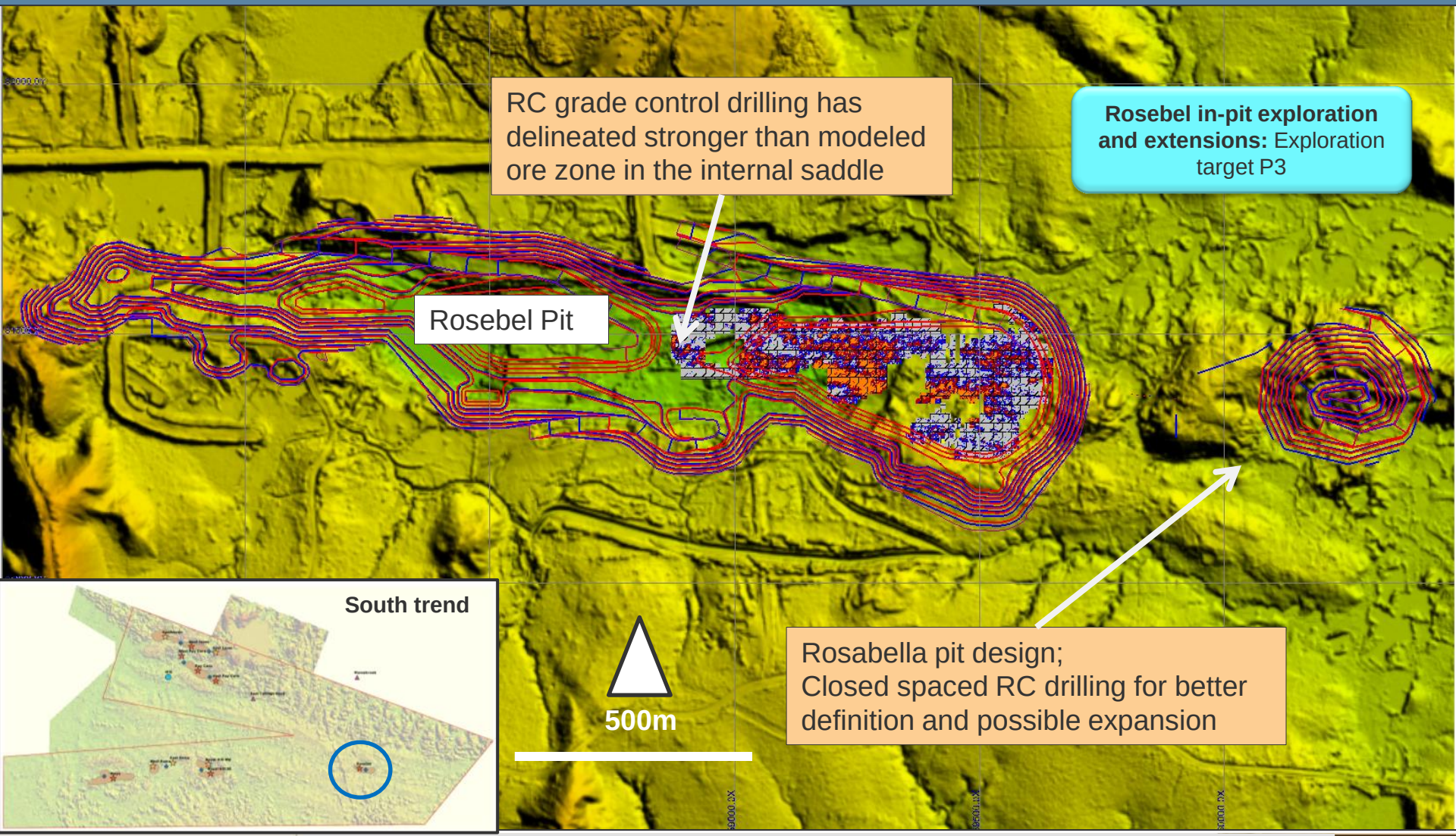
*Caution: All exploration targets are **conceptual** in nature*

Near Pit Exploration – Roma East Resource



*Caution: All exploration targets are **conceptual** in nature*

Near Pit Exploration – Rosebel Pit



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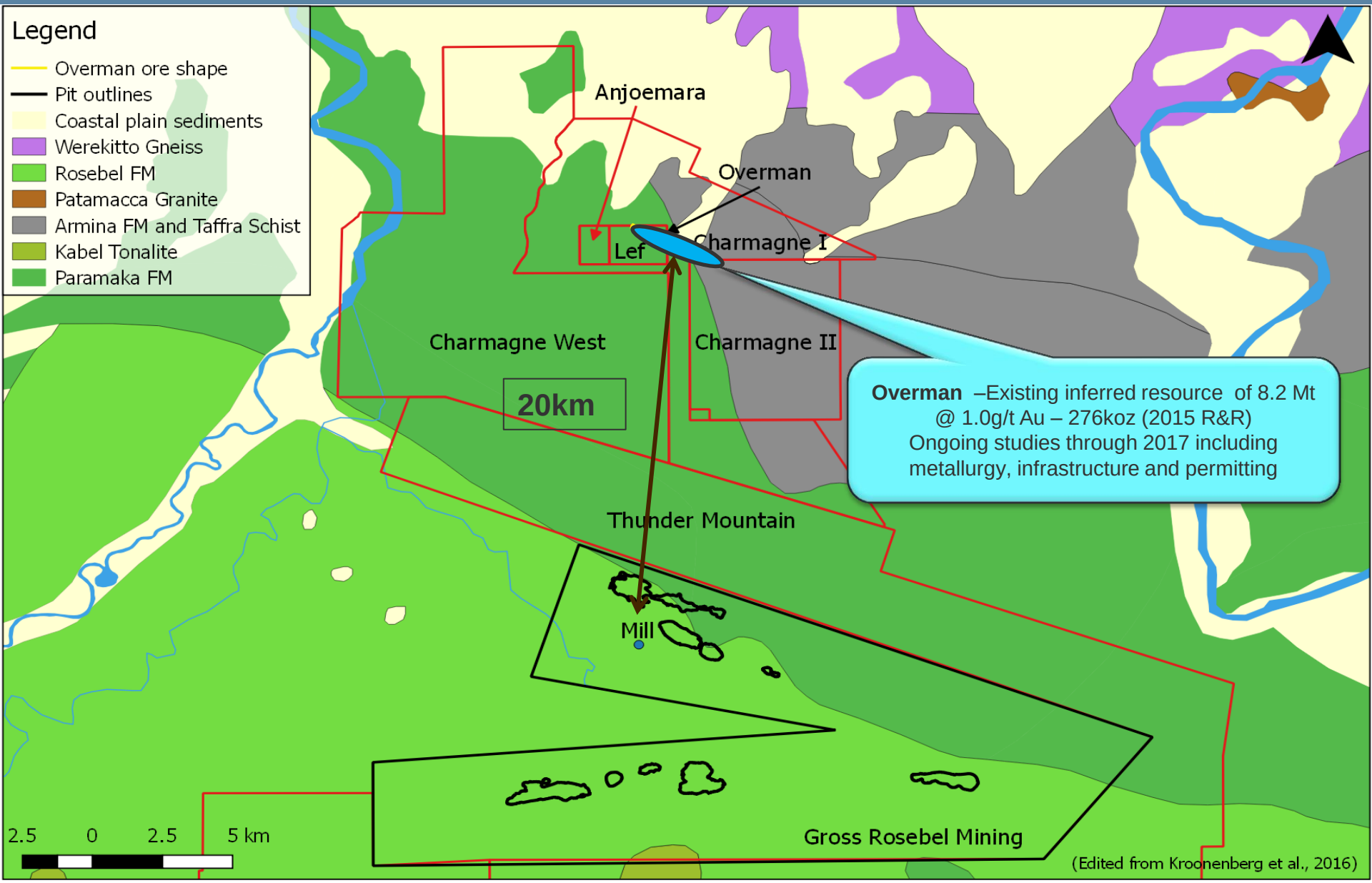
*Caution: All exploration targets are **conceptual** in nature*

Regional Exploration

Regional Exploration

Slides 80 – 90

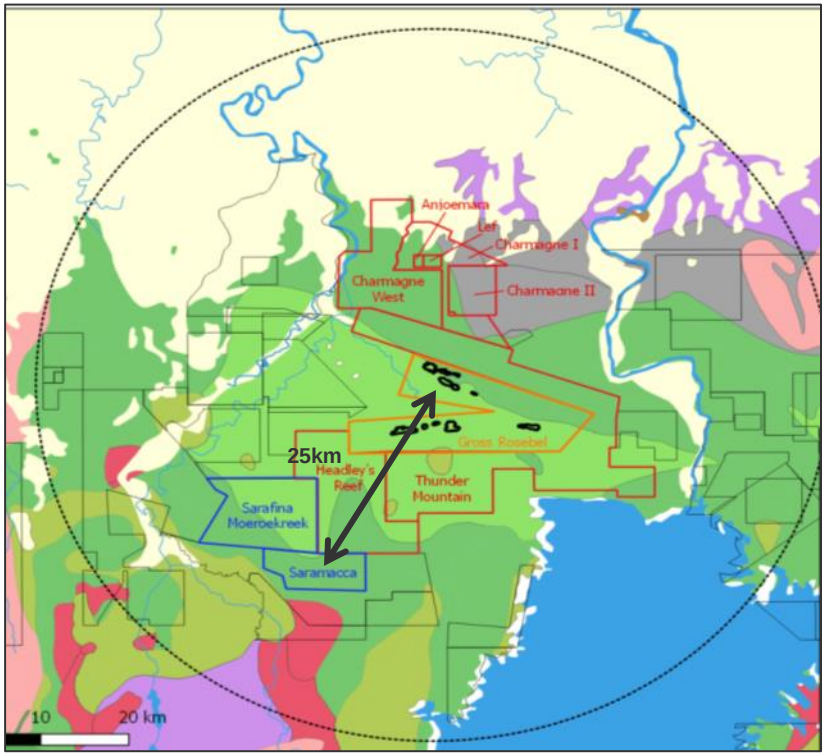
Regional Exploration – Overman



Overman –Existing inferred resource of 8.2 Mt @ 1.0g/t Au – 276koz (2015 R&R)
Ongoing studies through 2017 including metallurgy, infrastructure and permitting

Saramacca – Option Agreement

- **Initial Cash Payment USD$200,000 on signing**
  - Provides access to the property
- **Staged Purchase Totaling USD$10 million and 3.125 million IAMGOLD shares**
  - Held in escrow and released over 3 x 1 year intervals
  - Price Adjustment based on gold oz above 1.0 Moz outlined in In MI resources within 24 months; capped at $10 million
- **Target Size**
  - 8-40 million tonnes @ between 1- 1.8 g/t Au for 0.5 MOZ to 1.4 MOZ
  - Defined by typical tonnes and grade at the top of the Rosebel deposits



Caution: Non NI43-101 compliant resource. See IAMGOLD announcement August 31st 2016

Saramacca Exploration Plan 2016

- **Data Package**
  - Geophysics and geochemistry reprocessed and interpreted
  - Various 3D deposits models created
  - Additional targets identified

  complete
- **Drilling**
  - 9,000m of DD - Targeting 200m wide corridor over 1.8km corridor to infer status (100m by 50m)

    commenced
  - 9,000m RC - Target periphery of the mineralised corridor (footwall and hanging wall) and wider geochemical footprint (upside)

    Upcoming
- **Metallurgy**
  - PQ drilling – mineralised intervals in the Saprolite, Transition, Hard rock (November)

    considering
- **Environment**
  - Base line soil sampling of artisanal pits commenced prior to drilling

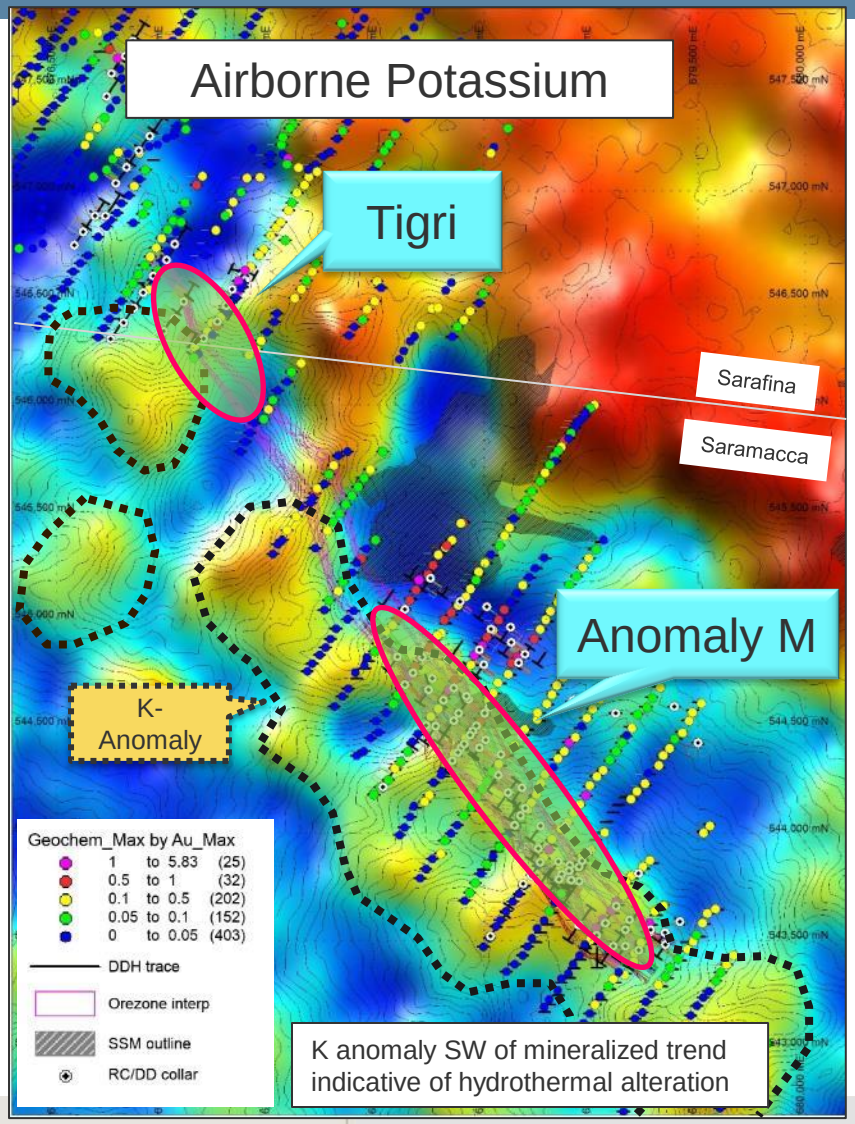
    commenced
  - Base line water sampling commenced prior to drilling

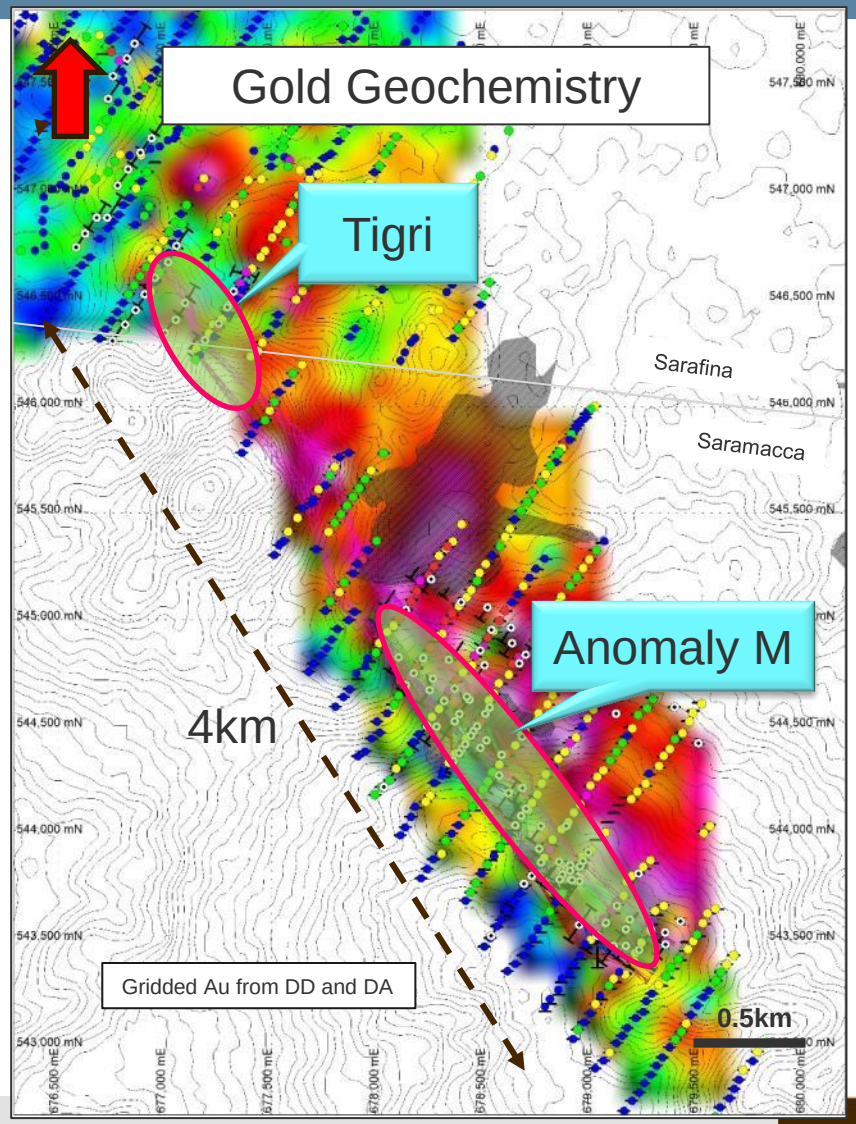
    commenced
- **Survey**
  - Re-established survey stations and resurvey with higher accuracy (commercial contractor)
  - Aim to resurvey 20% available historical collars
  - Lidar Survey to fly concession and potential haul road route (November)

    commenced
- **Logistics**
  - Continue camp construction to 40 people (currently 10-person camp)
  - Re-establish access road from mine to Saramacca site

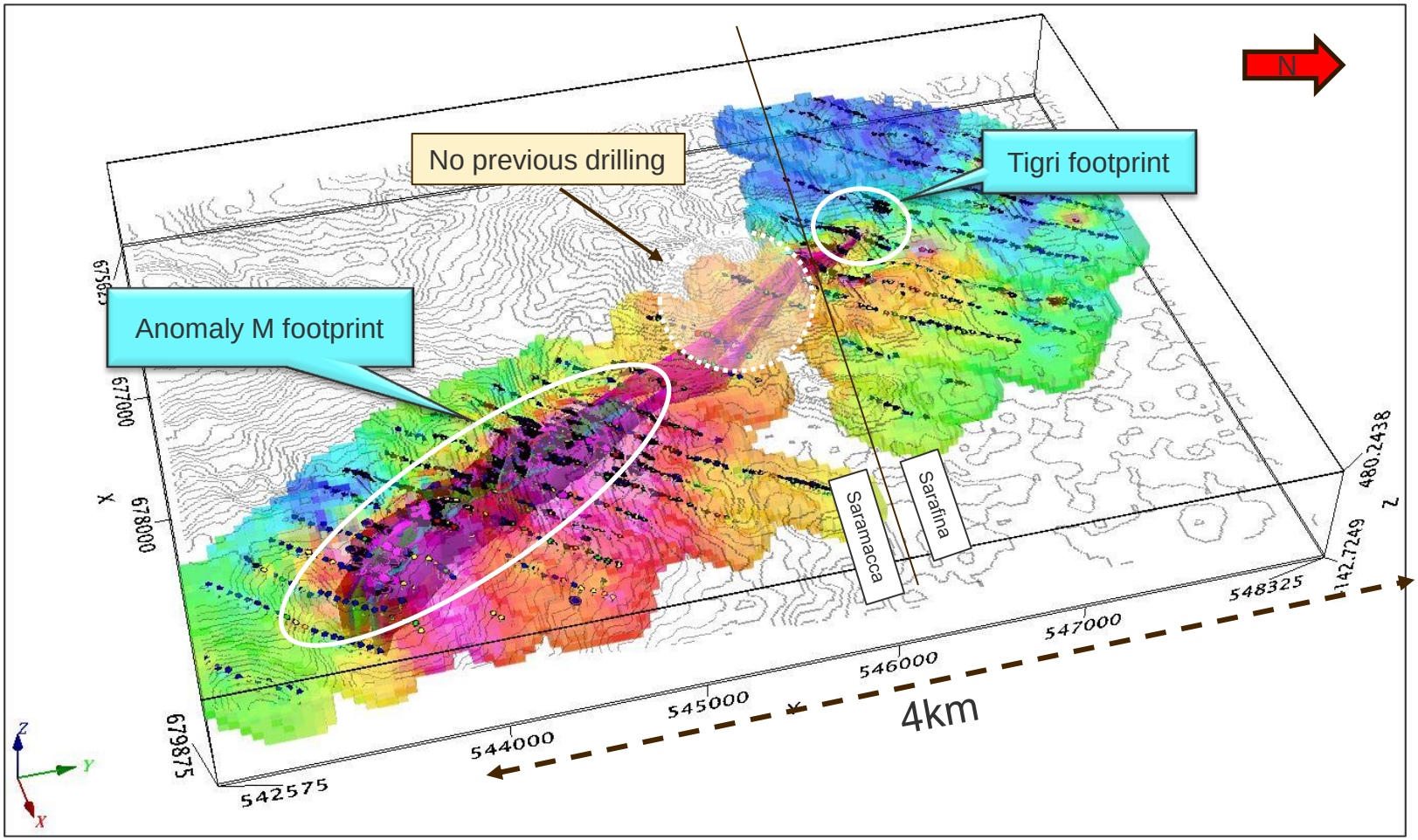
    commenced

Geophysics and Geochemistry

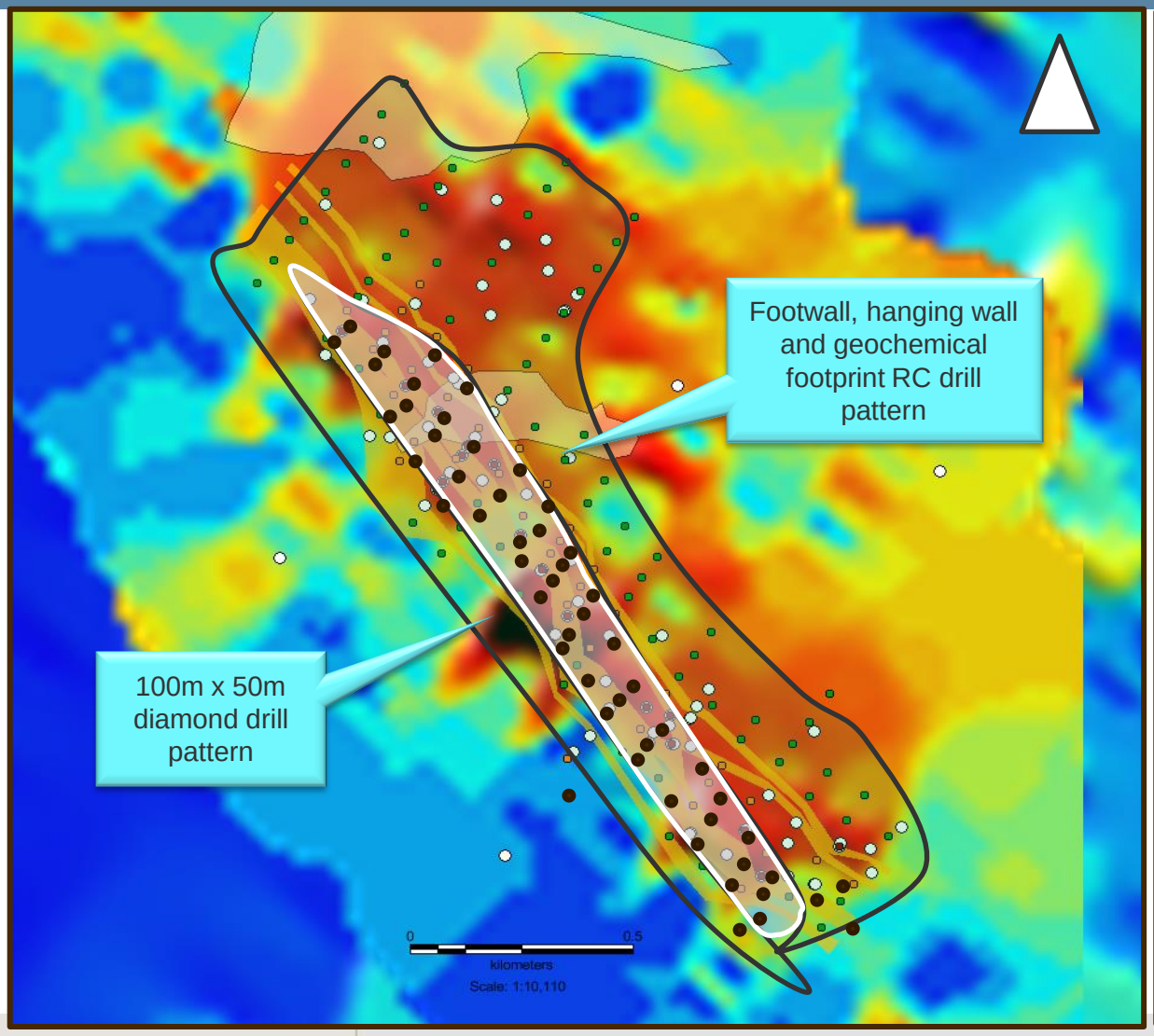




Saramacca Model with Au Geochemistry



Saramacca – Planned drilling 2016



Historical Drilling
90 diamond drill holes (9,000m)

2016 Planned Drilling
54 DDH - infill holes (9,000 m)

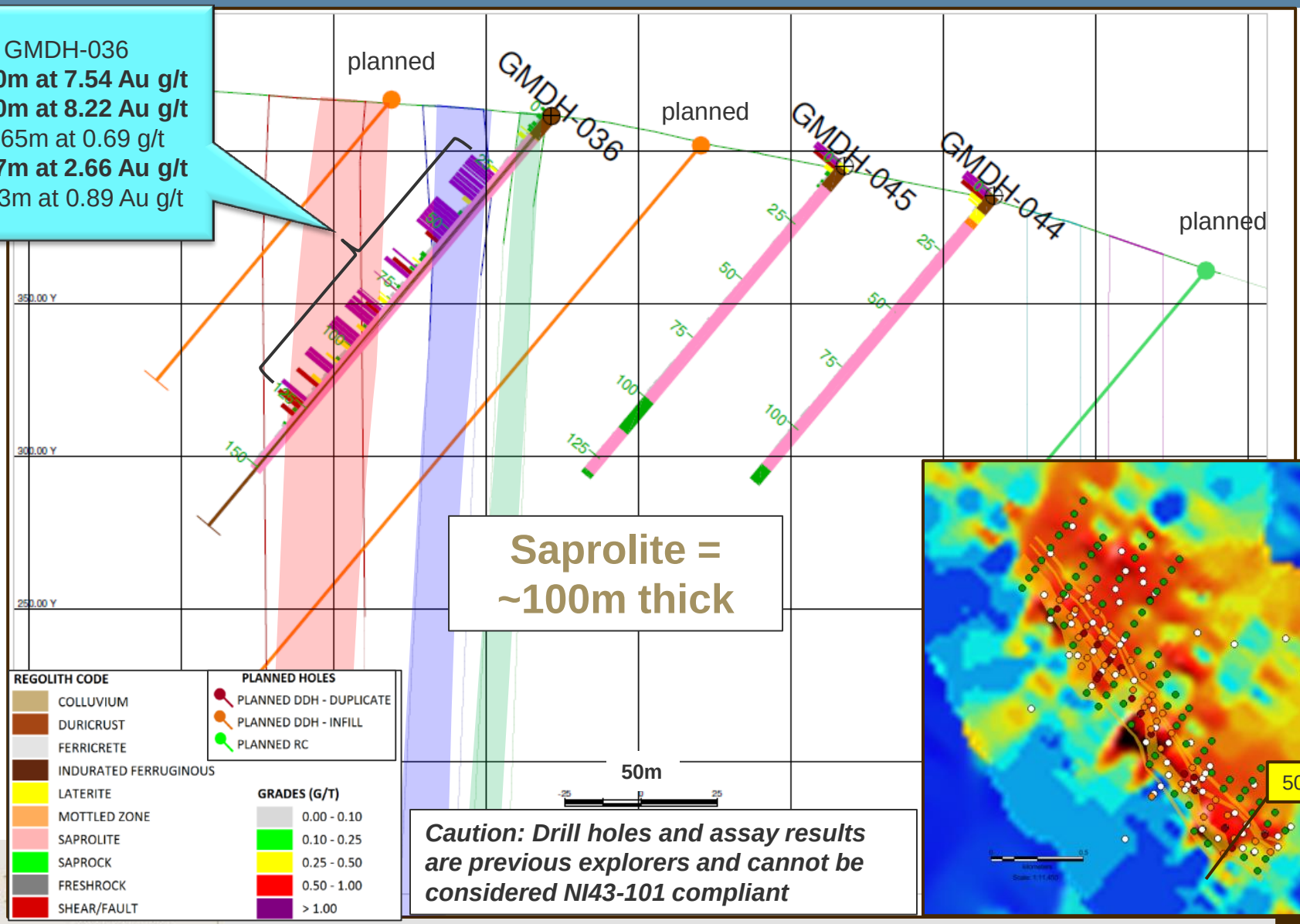
77 RC - Exploration (9,000 m)

Historical Geochemistry
Au ppm

0.83127
0.468683
0.339188
0.26149
0.209692
0.183793
0.131995
0.106096
0.0801971
0.0542981
0.028399
0.0025

Saramacca Cross Section – 500NW

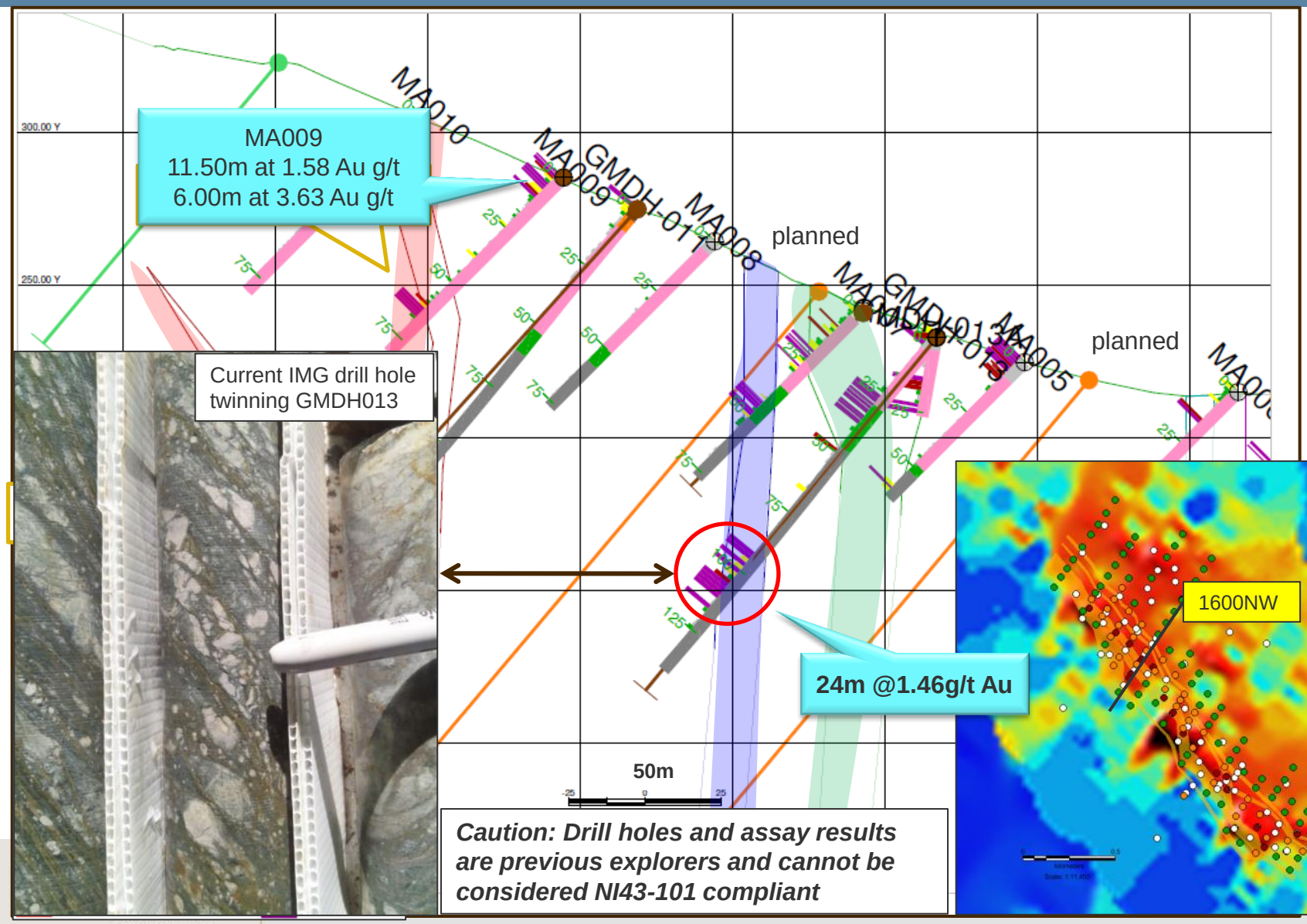
GMDH-036
12.00m at 7.54 Au g/t
12.00m at 8.22 Au g/t
11.65m at 0.69 g/t
16.97m at 2.66 Au g/t
21.53m at 0.89 Au g/t



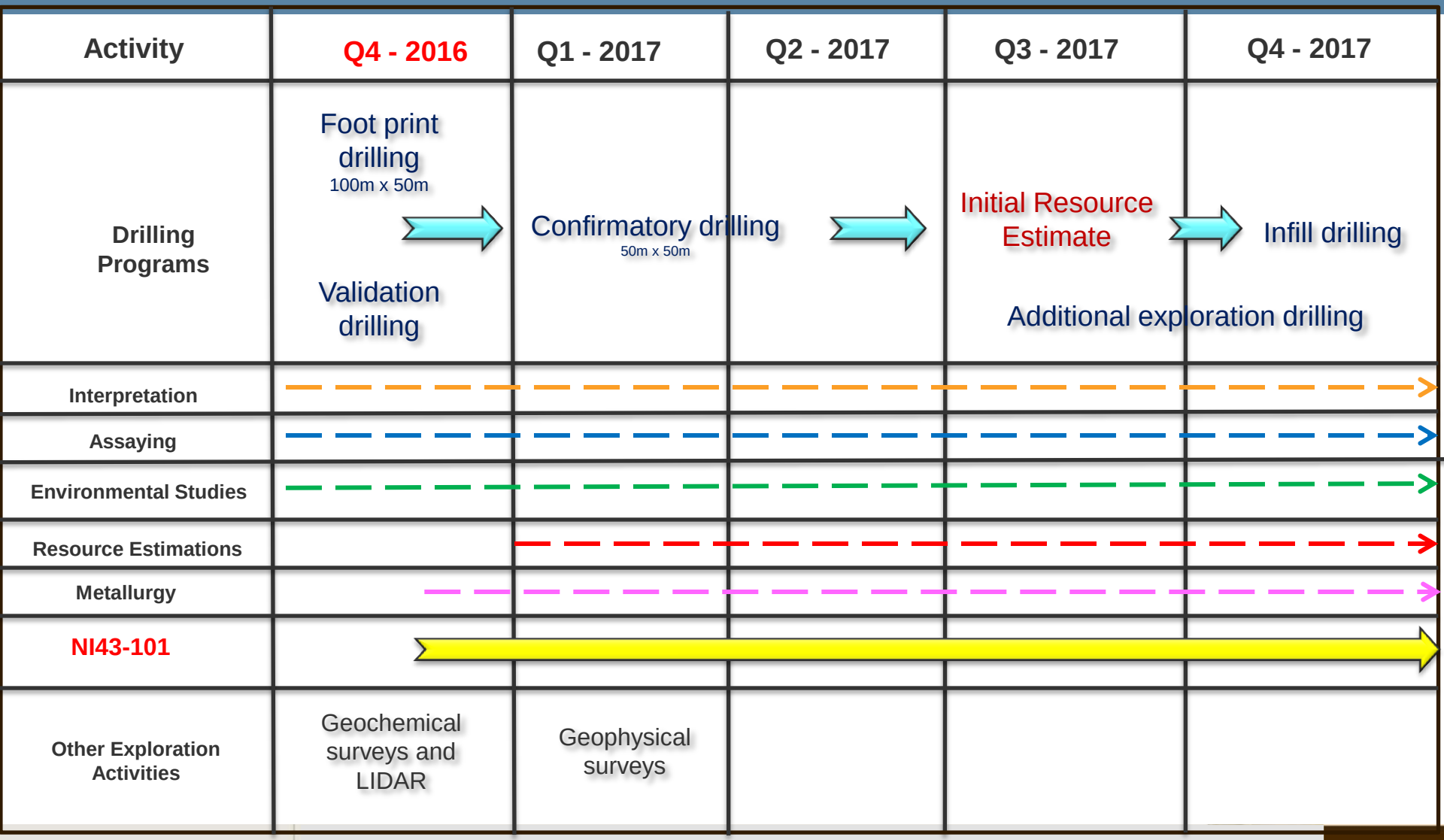
Saprolite = ~100m thick

Caution: Drill holes and assay results are previous explorers and cannot be considered NI43-101 compliant

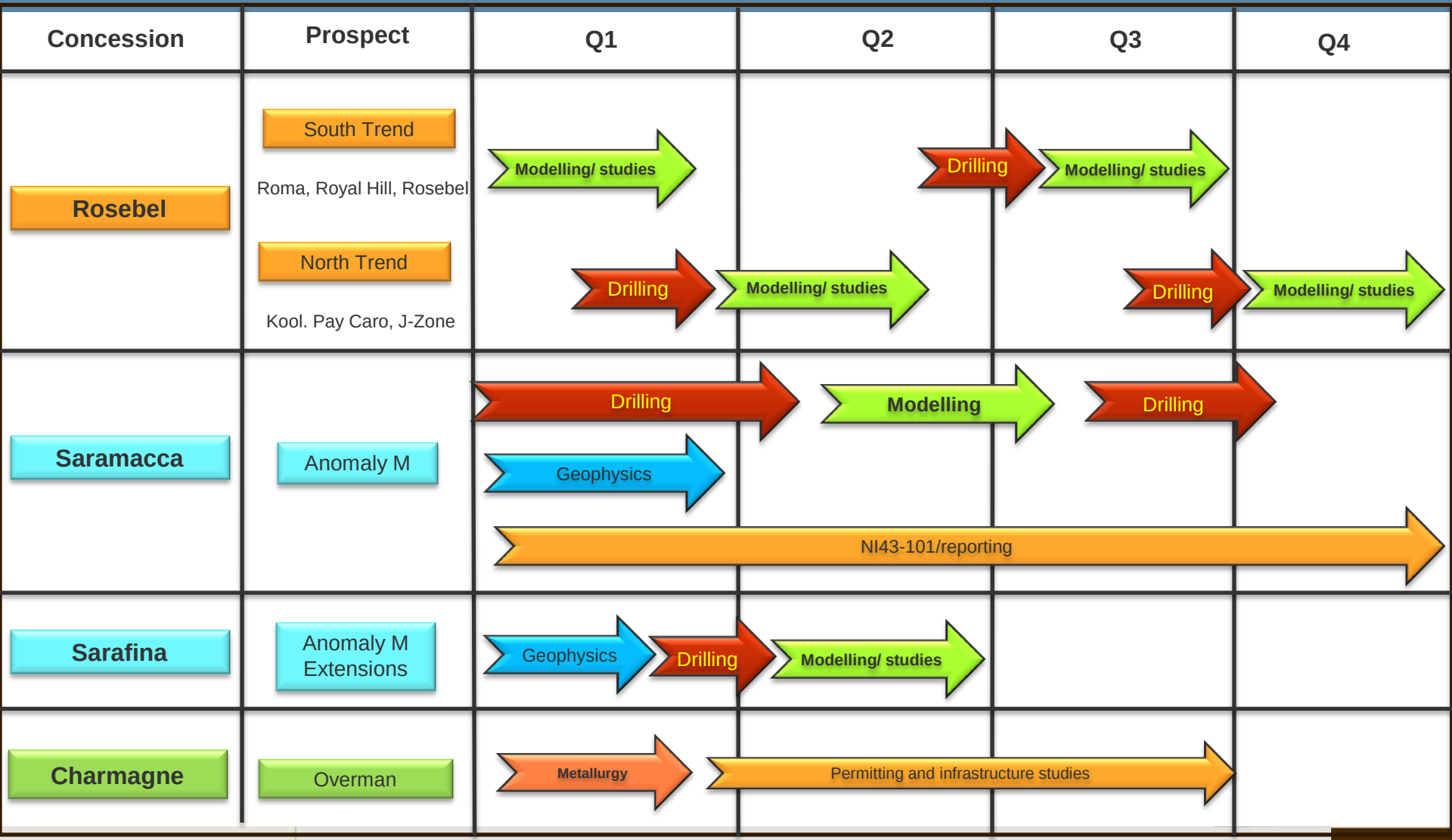
Saramacca Cross Section – 1600NW



Saramacca – 2016/2017



2017 Exploration Time Lines



Exploration Summary 2017

- **Near Pit exploration**
  - Complete drilling programmes, modelling and mining studies on highly ranked targets
  - Conceptual target range of 0.9 Moz to 1.7 Moz Au
- **Saramacca**
  - Complete drill programmes targeting 0.5 to 1.5 Moz Au
  - Continue various studies, modelling and resource estimates by Q3
  - Airborne EM and magnetics survey
  - Evaluate additional exploration targets
- **Sarafina**
  - Target strike extensions to the Saramacca mineralisation
  - Airborne EM and magnetics survey
- **Overman**
  - Progress various mining studies and permitting


IAMGOLD
CORPORATION
THANK YOU
Rosebel Gold Mines N.V.
Legal and Corporate Affairs
October 17, 2016
TSX: IMG NYSE: IAG