



PetraDiamonds

Cullinan Site Visit

Petra Diamonds Limited

1 February 2020

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Cullinan Site Visit Programme and Hosts

- 09:45 Overview of Petra, briefing on the Cullinan mine, safety training
- 11:00 Change for underground visit
- 11:30 Underground visit
- 13:00 Plant visit and diamond viewing
- 14:30 Lunch
- 15:30 Depart Cullinan



CEO
Richard Duffy



CFO
Jacques Breytenbach



Chief Technical
Officer
Juan Kemp



Cullinan GM
Jaison Rajan



Corporate
Finance
Andre Pienaar



Investor
Relations
Marianna Bowes



Investor
Relations
Des Kilalea



Mining
Manager
Tumelo Matoba



Plant
Manager
Cyril Dakada



Internal
Communications
Stephanie Ferreira





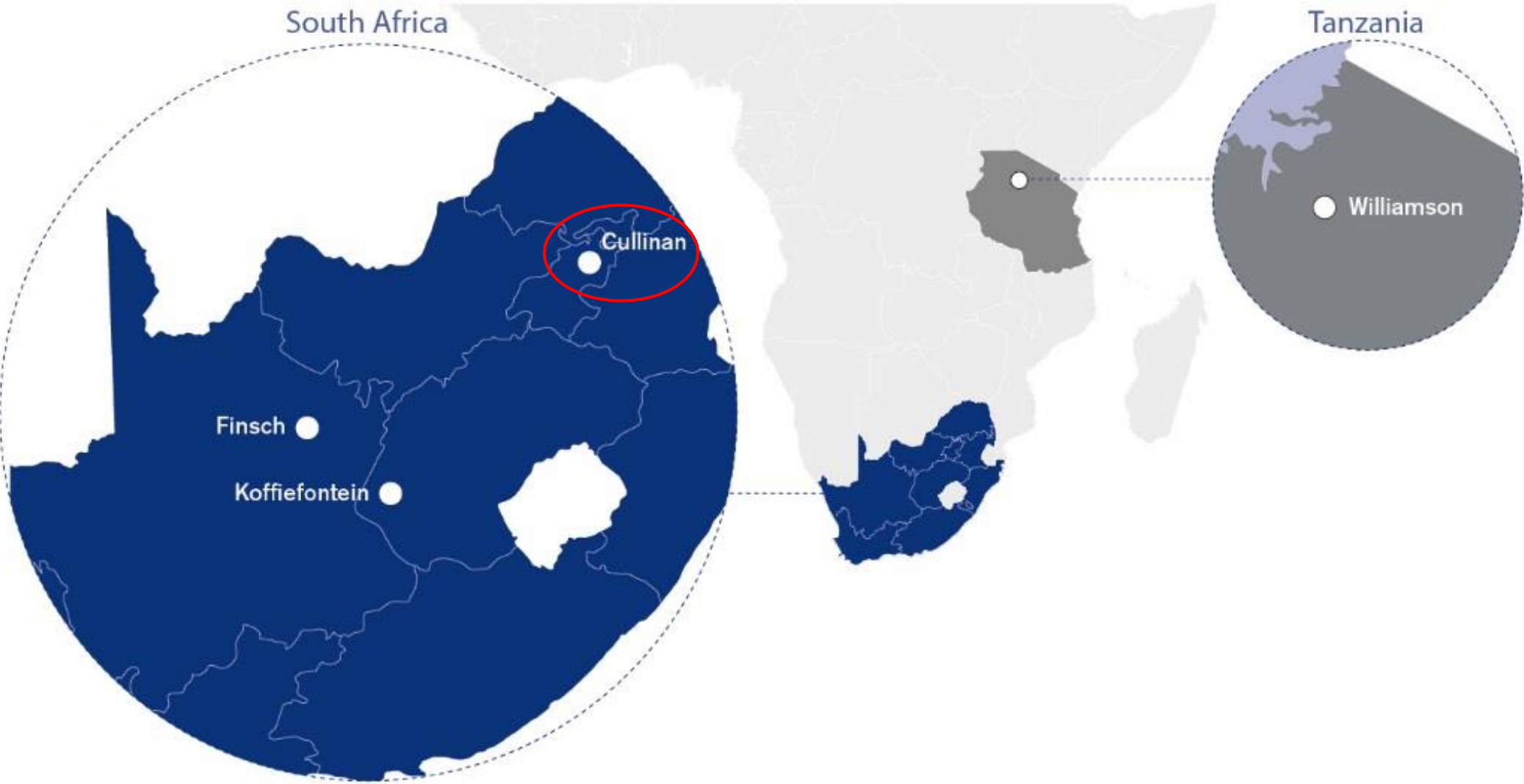
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Petra Overview



Portfolio of Producing Mines



One of the World's Top 5 Independent Diamond Producers

Assets moving to steady state production

Company entering phase of FCF generation

Cullinan



74% Petra; 26% BEE
Block cave / Sub-level cave
Mine Plan to 2030

Finsch



74% Petra; 26% BEE
Sub-level cave / Block cave
Mine Plan to 2030

Williamson



75% Petra; 25% Gov of Tanzania
Open Pit
Mine Plan to 2033

Koffiefontein

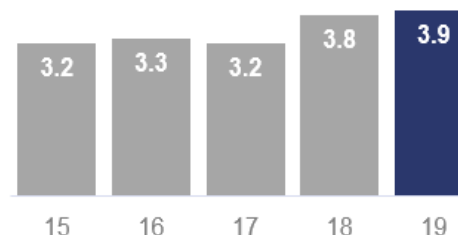


74% Petra; 26% BEE
Sub-level cave
Mine Plan to 2025

ROUGH DIAMOND PRODUCTION

Million carats

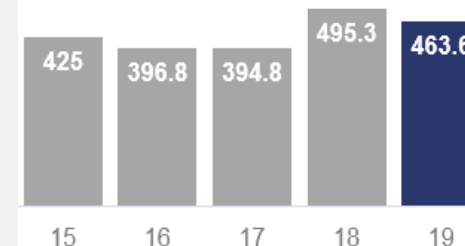
3.87



REVENUE

US dollars (millions)

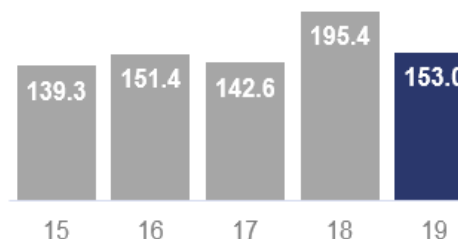
463.6



Adjusted EBITDA¹

US dollars (millions)

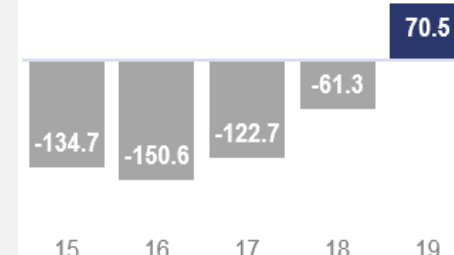
153.0



OPERATIONAL FREE CASH FLOW¹

US dollars (millions)

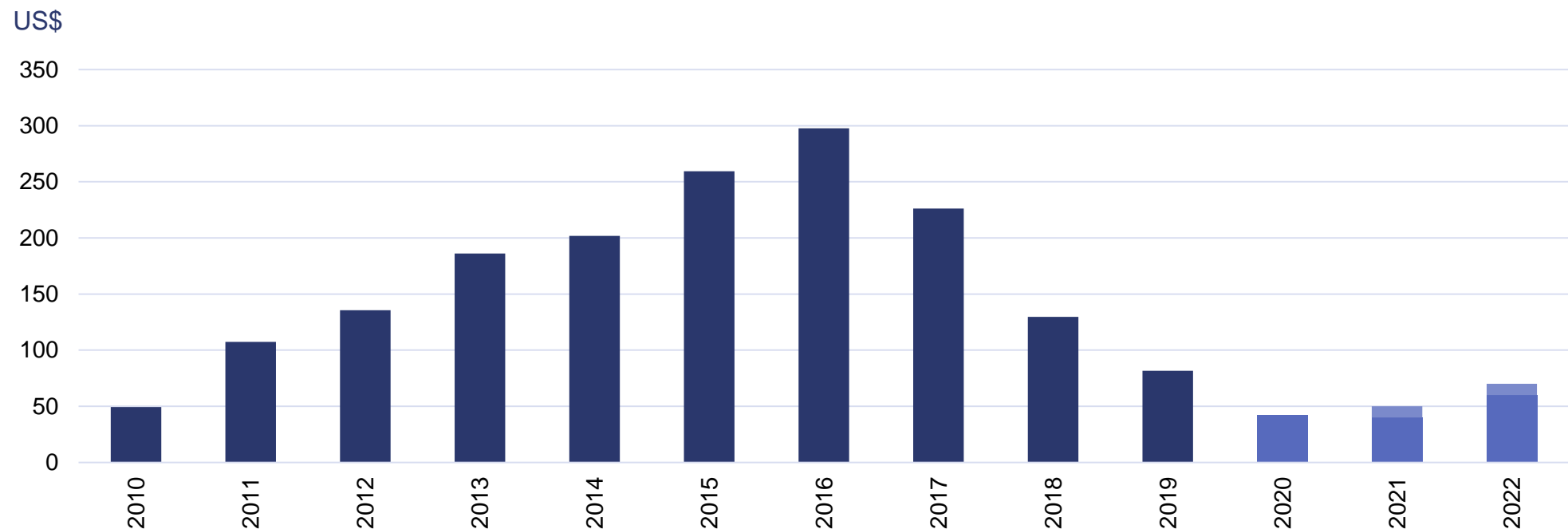
70.5



¹ Refer to preliminary results announcement dated 16 September 2019 for detailed notes regarding non-IFRS adjusted disclosures

Completion of Heavy Capital Intensive Phase

10 year capital investment programme and 3 year outlook

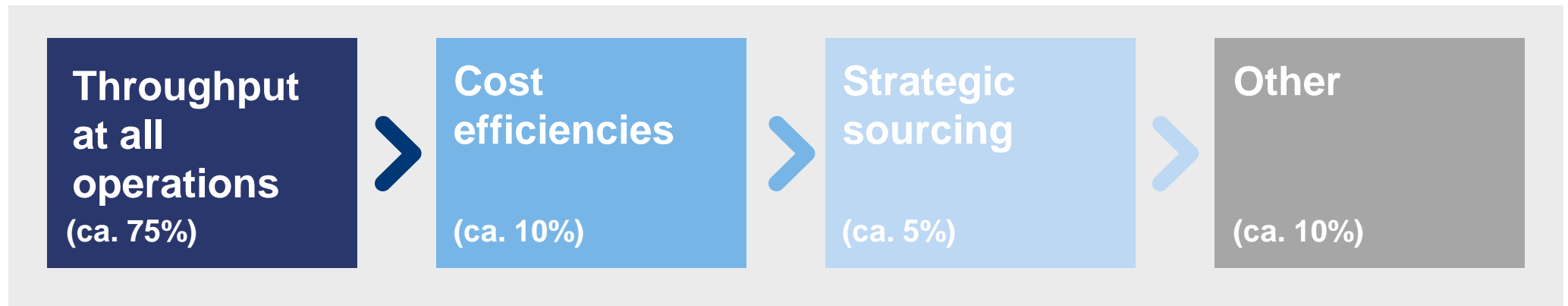


- Petra has completed major capital expansion programmes across each of its assets and is now bedding down steady state production



Project 2022 expected to start delivering benefits from H2 FY 2020

- Initial target of \$150-200 million¹ free cash flow over three year period²
- Implementation underway at all mines and at Group level; the majority of the value driver ideas generated are expected to move into full implementation, with cash flow benefits commencing in H2 FY 2020
- Throughput comprises the major project component and key notable early successes include:
 - Record half yearly ROM production of 7.0 Mt treated and 2.07m carats recovered, tracking ahead of guidance



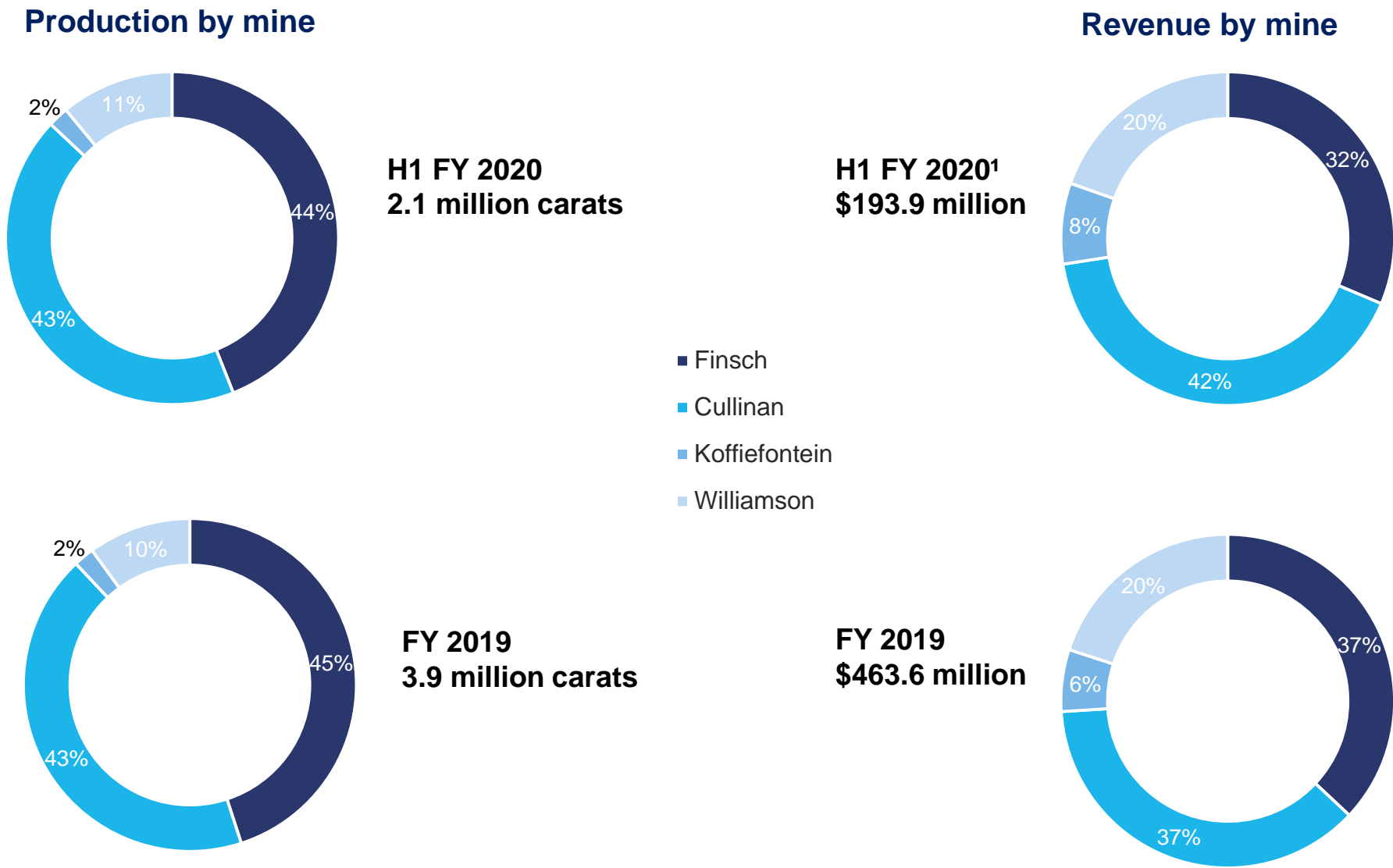
¹ Cashflow target based on the following assumptions:

- Flat nominal prices over the three year period (with reference to pricing achieved in H2 FY 2019, excluding exceptional stones sold for US\$5 million or greater)
- Exchange rate of ZAR14:US\$1 in FY2020, devaluing at 3.5% annually to ZAR14.49 in FY 2021 and to ZAR14.99 in FY 2022

² Delivery is weighted towards FY 2021 and FY 2022 and is dependent on diamond pricing



Cullinan became key revenue contributor to Group in H1 FY 2020



1. Petra sales are always weighted to H2 due to holding 4 tenders vs 3 tenders in H1



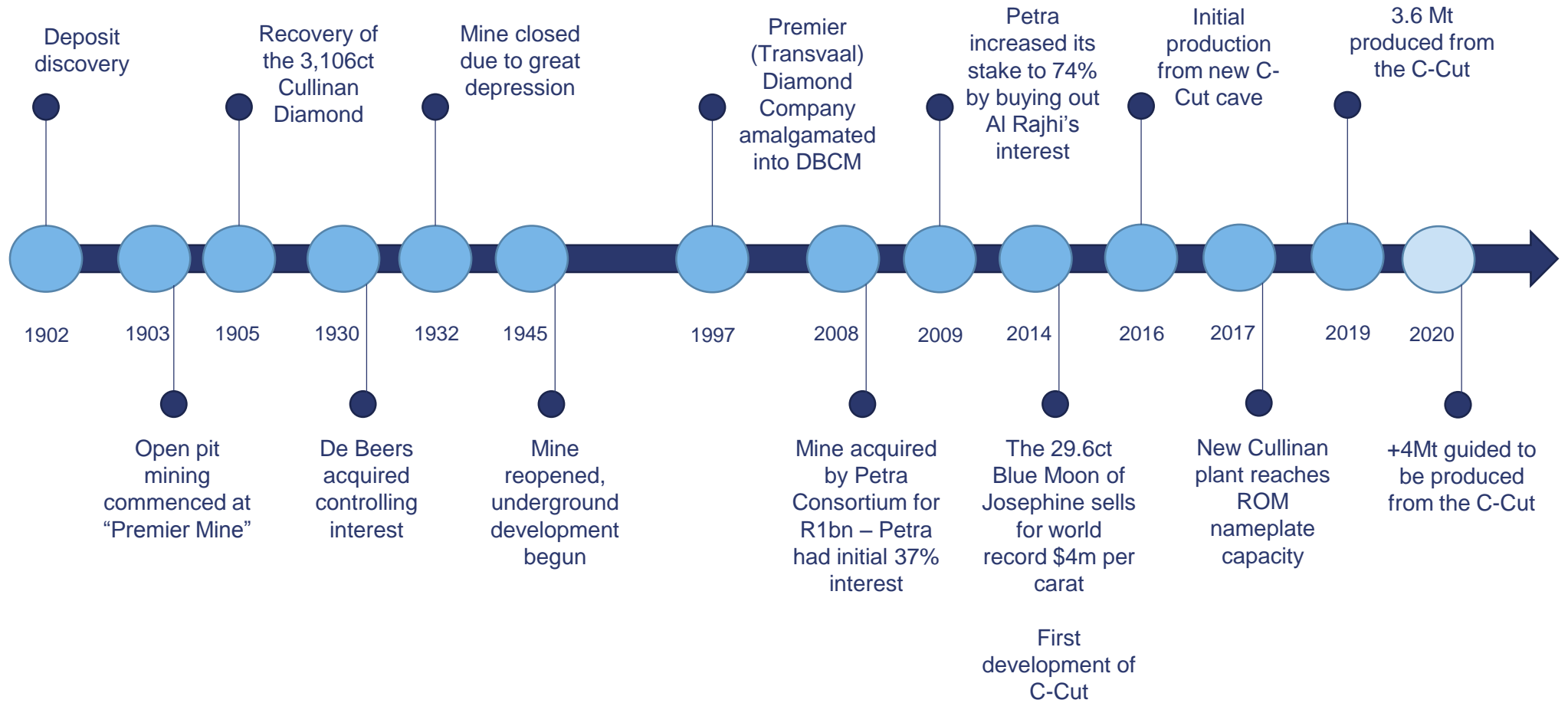
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Cullinan Overview



Cullinan History

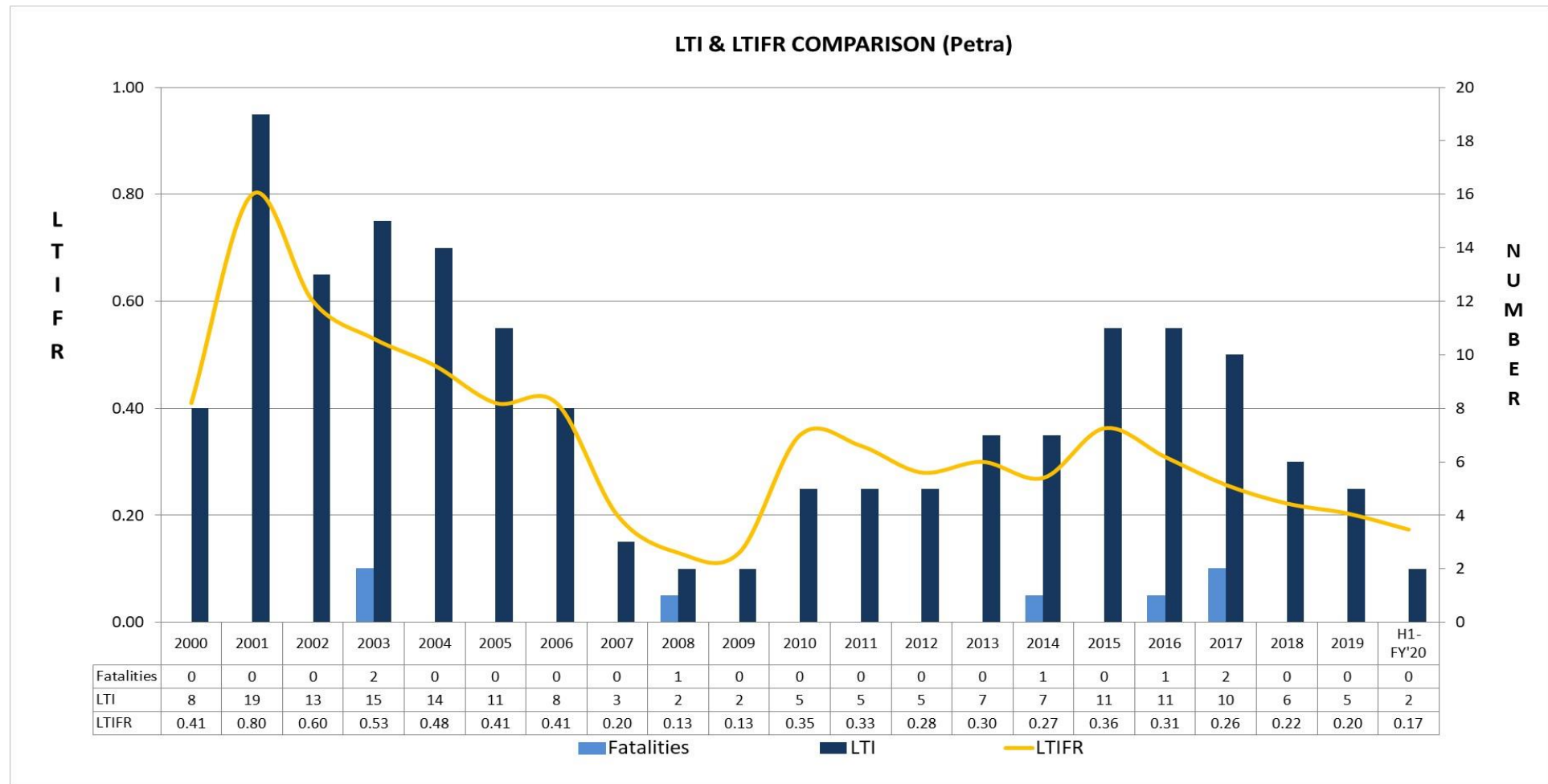


Cullinan Ownership Structure

Fully empowered, with employee ownership of 12%



Safety Performance



2001 = Previous time of underground development

2010 = Petra development projects commence

2018 = Projects start winding down; lower employee and contractor number

*LTIFR = $\text{Nr of lost time injuries} \times 200,000 \text{ hrs} / \text{hrs worked}$



Responsible development is integral to our mining approach



Safety

LTIFR: -5% to 0.20
LTI: -17% to 5
No fatalities



Revenue

Carats: +21% to 1.65Mcts
Revenue: +3% \$171.4m



Carbon emissions

tCO₂-e/ct: -13% to 0.13
tCO₂-e/t: -20% to 0.04



Water source

Surface water: 1.0%
Ground water: 0.1%
Municipal water: 0.6%
Recycled water: 98.3%



People

Headcount: -8% to 2,127
Employees: 1,320
Contractors: 807



Training

Training shifts: 25,648
No. of training shifts per employee: 19.91



Medical

Employee medicals: 3,468
Employees tested for HIV/AIDS: 1,231



Stakeholders

No. of stakeholder meetings: 36
No. of BEE compliant local suppliers: 469

Consistent producer of world-class diamonds with exceptional heritage



The Cullinan

3,106 ct rough

Largest gem diamond ever discovered

Source of diamonds in the British Crown Jewels 1905



The Star of Josephine

26.6ct rough, 7.0ct polished

sold for \$9.5m (\$1.35m/ct)

2009



The Cullinan Heritage

507.5ct rough, 104ct polished

sold for \$35.3m

2009



The Blue Moon of Josephine

29.6ct rough, 12.0ct polished

Rough sold for \$25.5m (\$862k/ct) and polished sold for \$48.5m (+\$4m/ct = world record)

2014



25.5ct blue diamond

sold for \$16.9m (\$663k/ct)

2013



The Cullinan Dream

122.5ct rough, 24.1ct polished

Rough sold for \$27.6m

2014



The Legacy of the Cullinan Diamond Mine

424.8ct rough sold for \$15.0m

2019



20.0ct blue diamond

sold for \$14.9m (\$741k/ct)

2019



A Tier 1 Diamond Resource

Indicated Resource of 234 million tonnes containing 138 million carats allows for potentially considerable mine life extension

Category	Gross		
	Tonnes (millions)	Grade (cpht)	Contained Diamonds (Mcts)
Reserves			
Proved	-	-	-
Probable	45.0	39.2	17.67
Sub-total	45.0	39.2	17.67
Resources			
Measured	-	-	-
Indicated	233.9	58.9	137.68
Inferred ¹	169.6	10.1	17.20
Sub-total	403.6	38.4	154.88

¹ DMS Tailing Diamond Resource

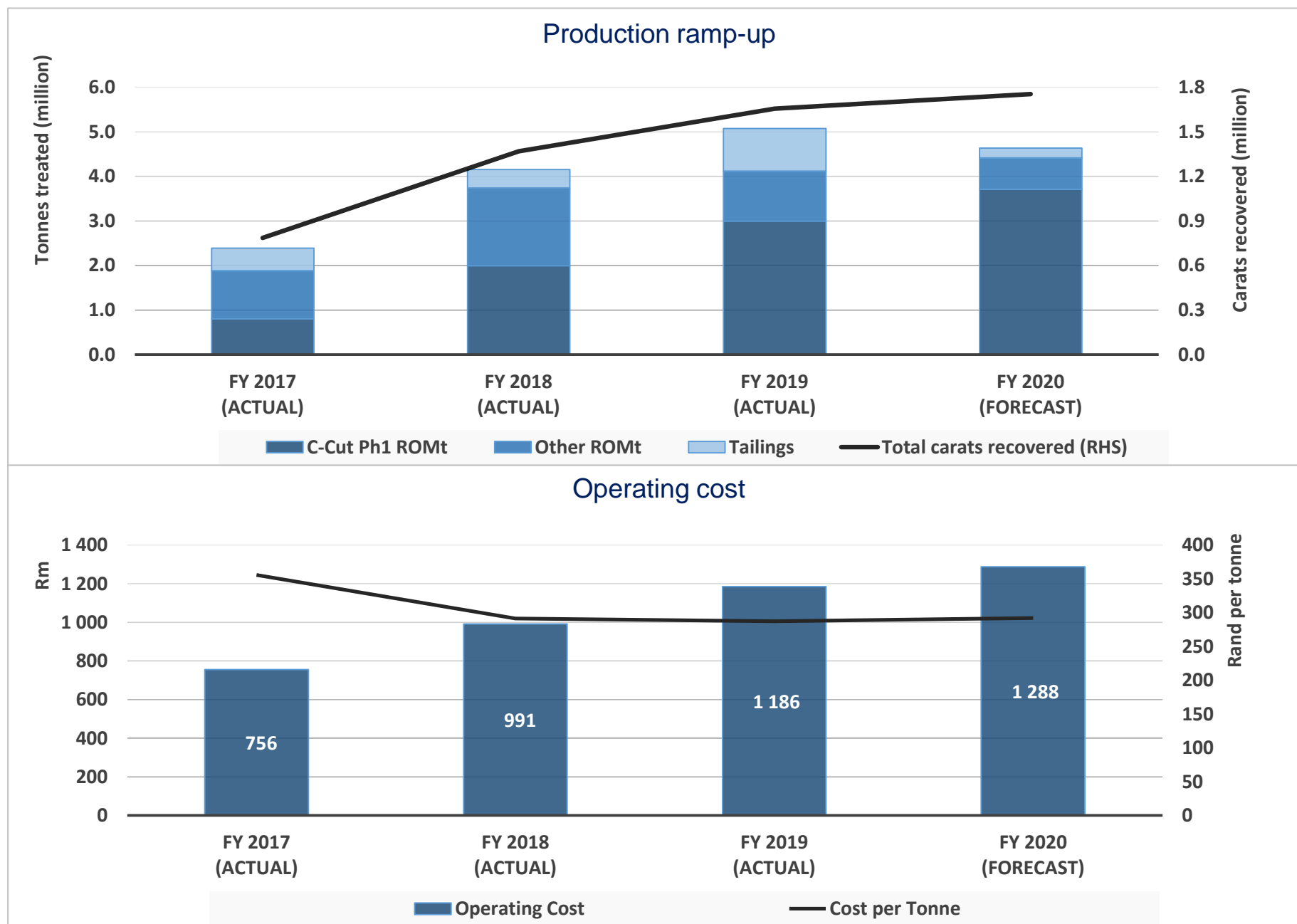
² Diamond Resource and Reserve bottom cut-off at 1.0mm

³ Diamond Resources are stated inclusive of the Diamond Reserves

⁴ US\$/ct values of 110-120 for ROM, excluding exceptional stones, and 35-45 for tailings, based on FY 2019 sales values and production size frequency distributions.



Production ramp-up and Operating Costs





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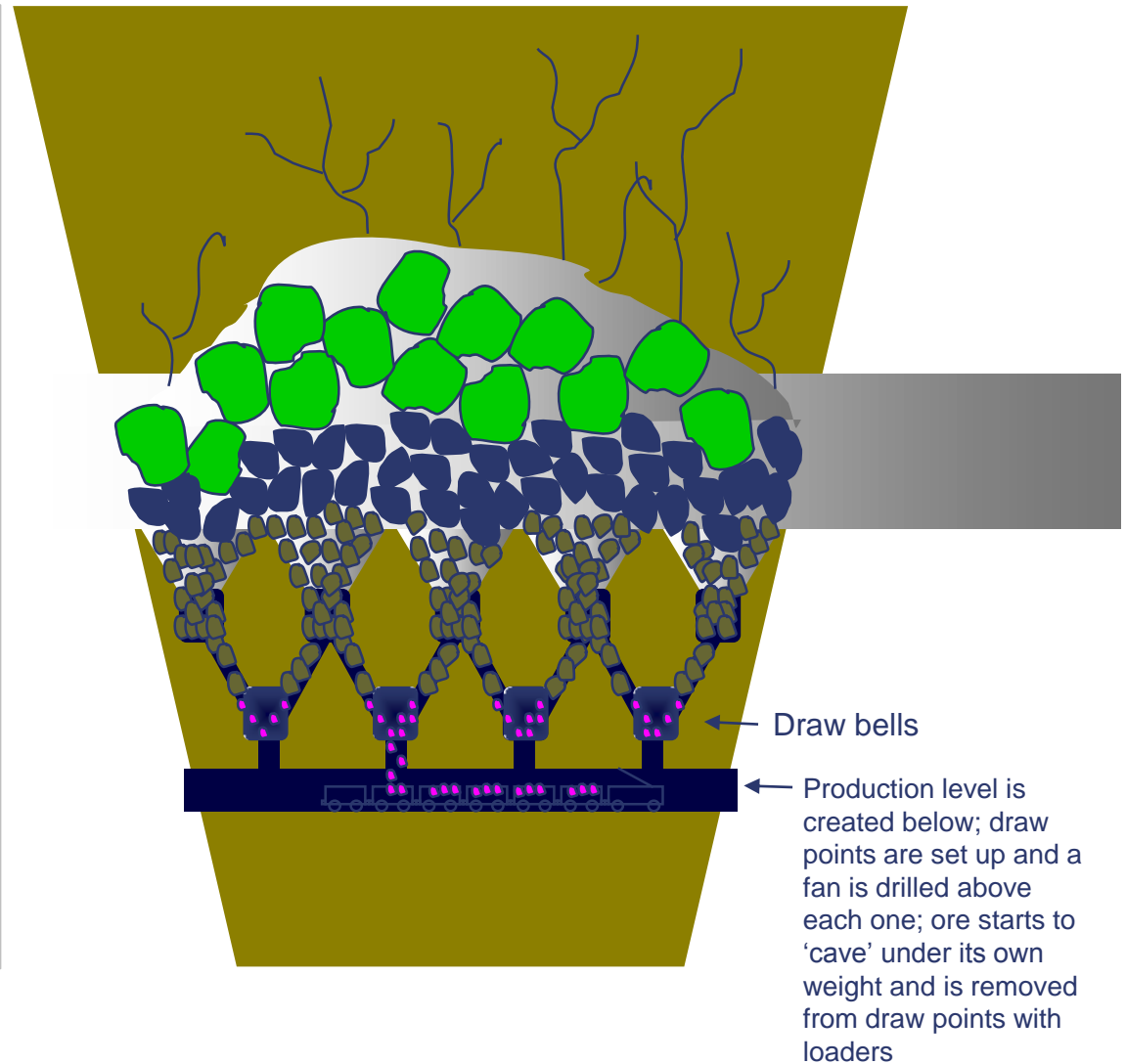
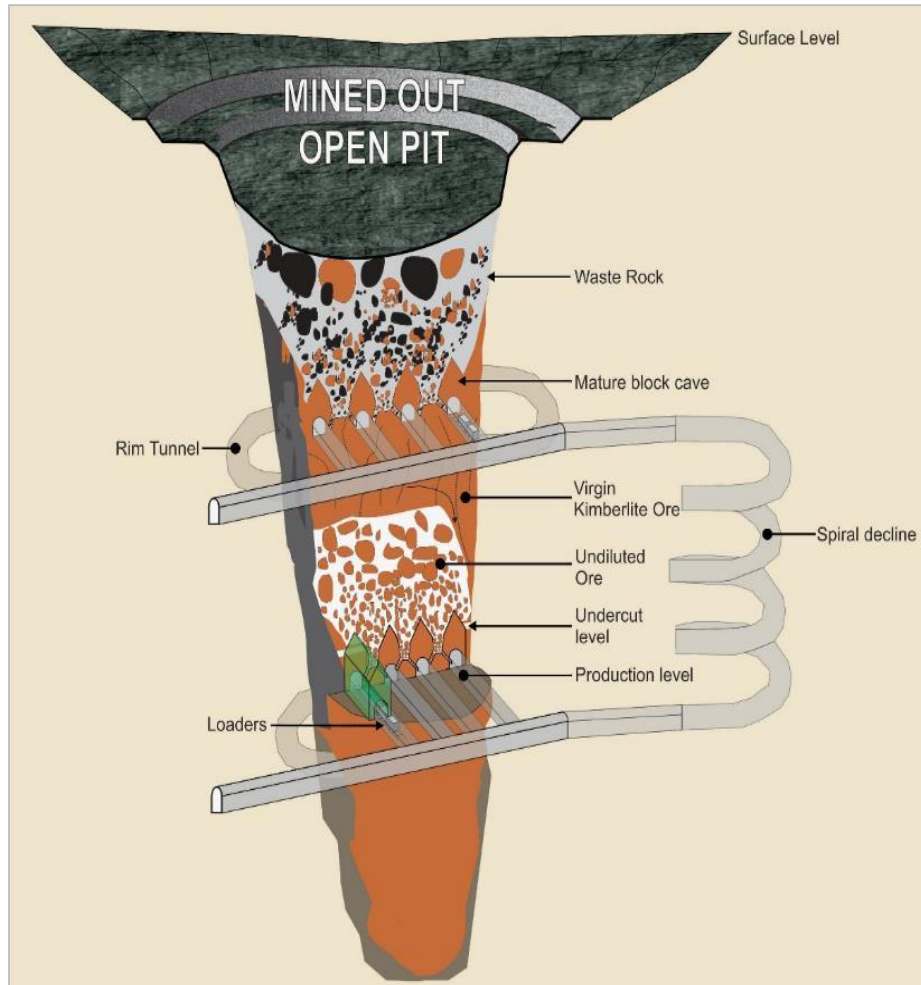
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Mining Operations



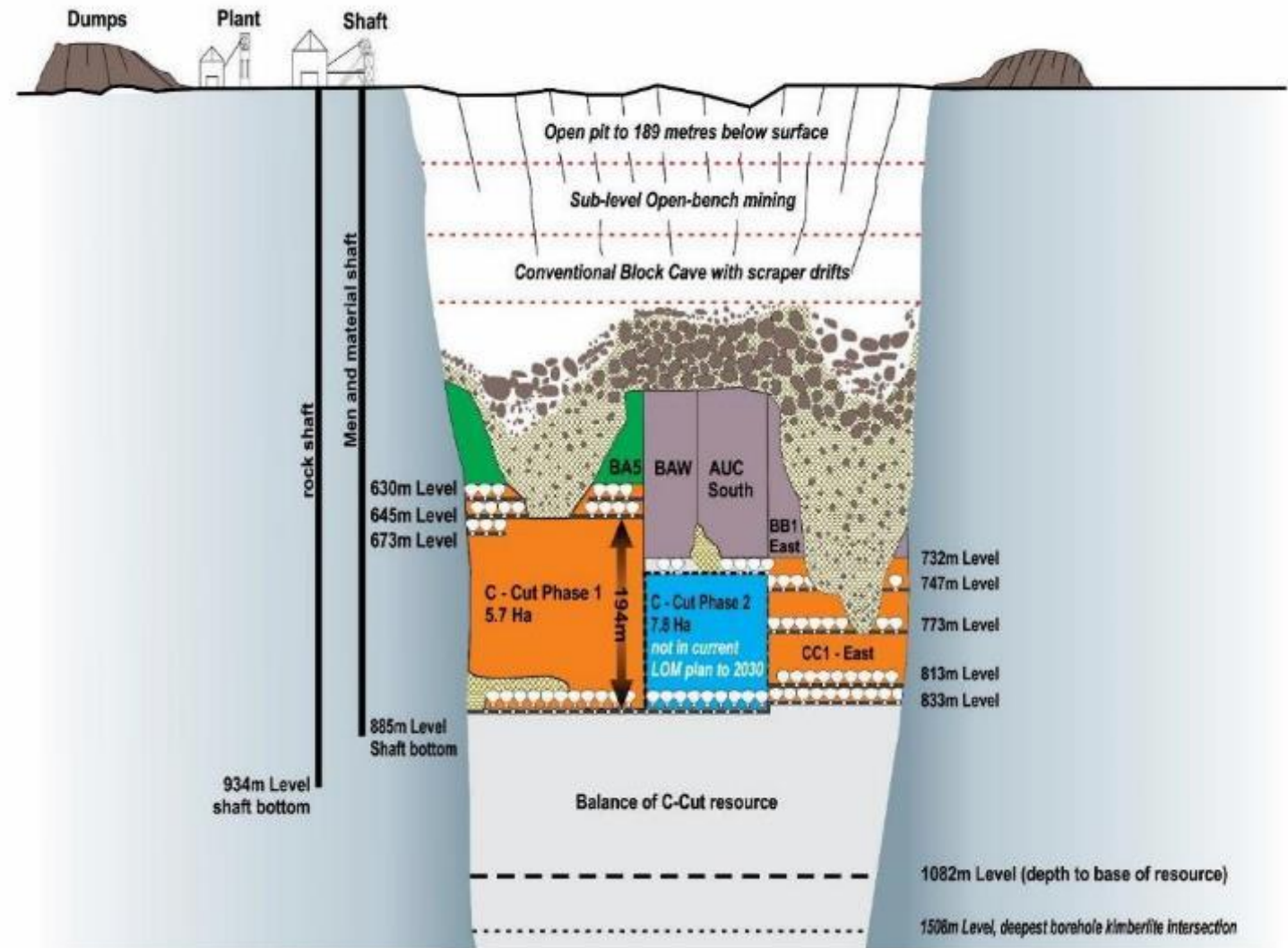
Block Caving Simplified

Petra has transitioned from old mining areas to new 'undiluted' blocks

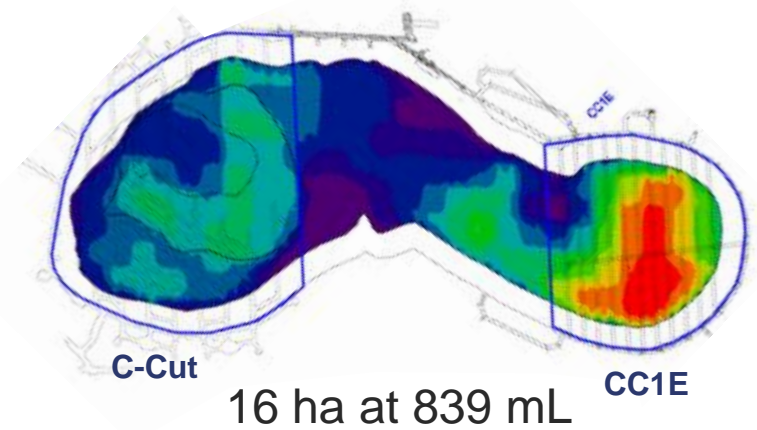
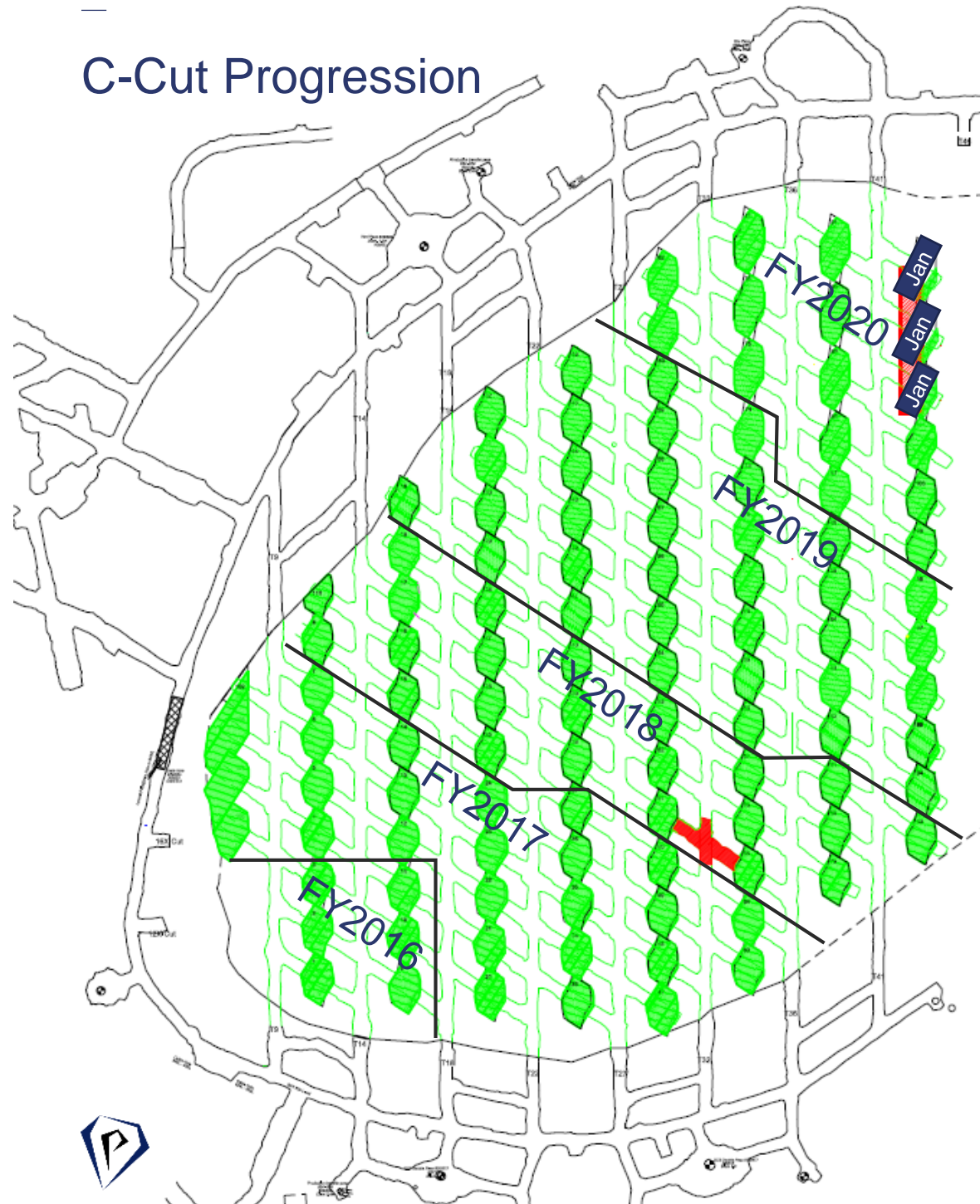


Steady state production from C-Cut Phase 1 and CC1E to be reached in FY 2020

- Undercut ring blasting commenced FY 2015
- Production levels established at 839m and shaft to 934m commissioned – FY 2016
- New plant with throughput capacity of 4.0 Mt ROM and 2.0 Mt tailings – commissioned in Q1 FY 2018
- Ground handling complete with third crusher commissioned Q2 FY 2019
- C-Cut & CC1 East Ramp up
 - FY 2017 – 1.2 Mt
 - FY 2018 – 2.5 Mt
 - FY 2019 – 3.6 Mt
 - FY 2020 – 4.1 Mt EST



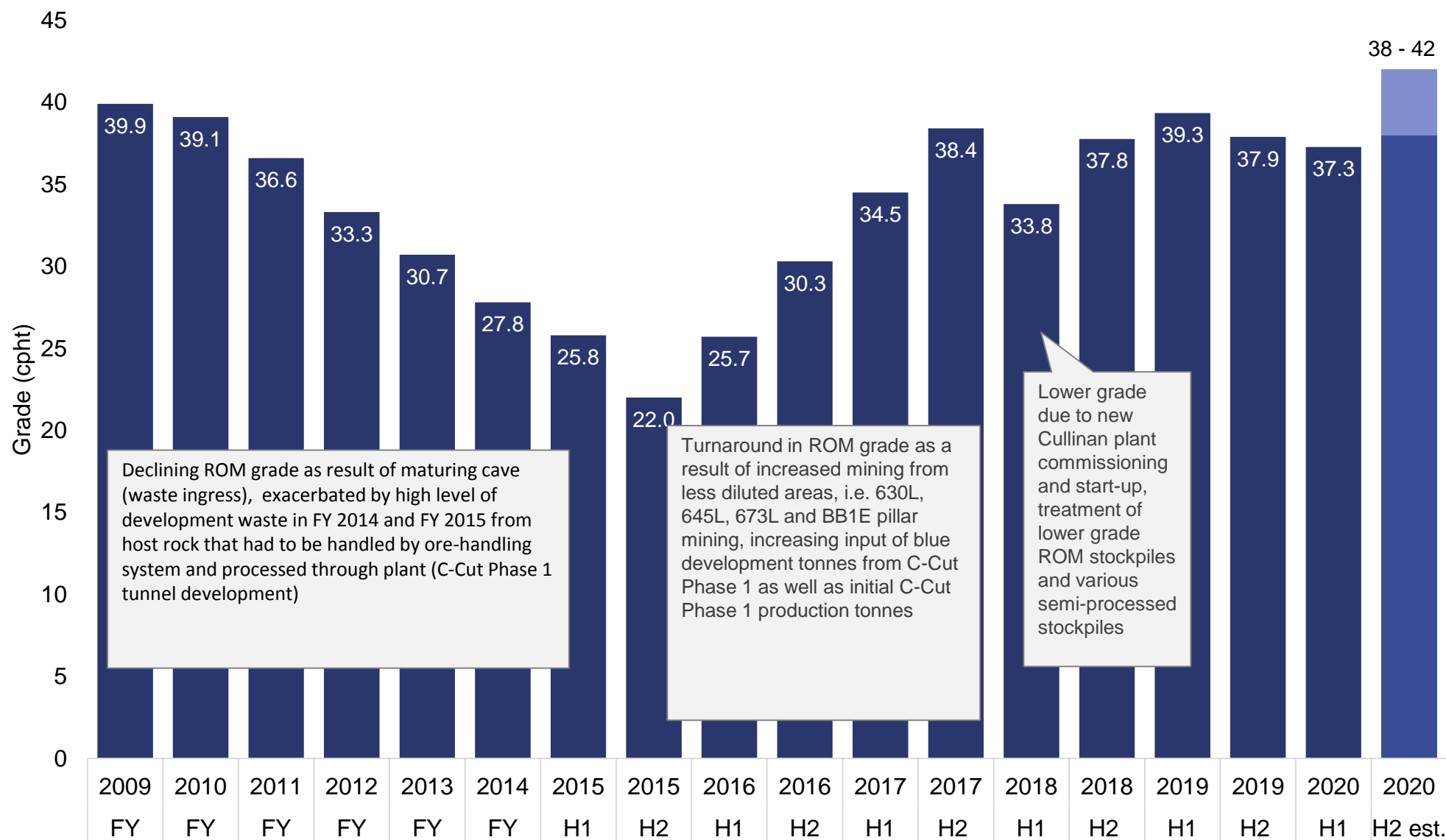
C-Cut Progression



The last 3 draw-bells of 107 planned were slotted in December 2019

- Draw-bell installation scheduled to be completed at the end of January 2020 with a total of 107 draw-bells
- Cave maturity will follow the draw-bell opening sequence with draw-bells requiring roughly 12 months to reach maturity
- Production across the full footprint is expected to provide reduced grade and value volatility, although some variability may still be observed

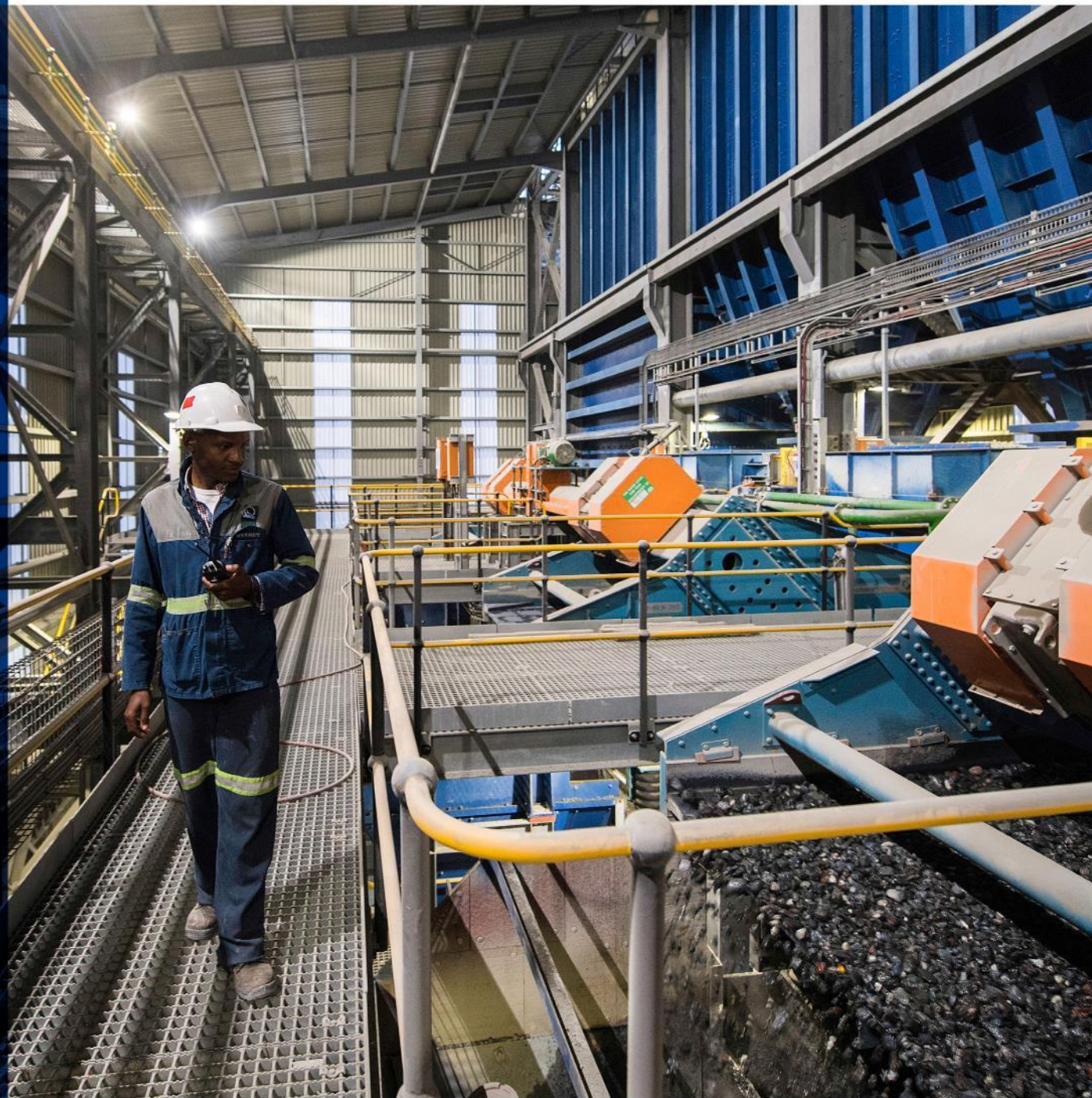
H1 FY 2020 ROM grade marginally below guidance of 38-42 cpht





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Processing operations



Plant designed to match Cullinan's Unique Characteristics

Characteristics specific to the Cullinan ore:

- Combination of harder and softer material: ideal for milling
- Relatively high DMS yield calls for sensor based sorting for larger particles
- Luminescent waste particles requires a sorting process that can distinguish between diamonds and other luminescent particles

Characteristics specific to Cullinan Diamonds:

- Presence of Large, Type IIa white and Type IIb blue diamonds with a large fine fraction: calls for high efficiency sensor based sorting and highly efficient liberation plant



574 carats



356 carats



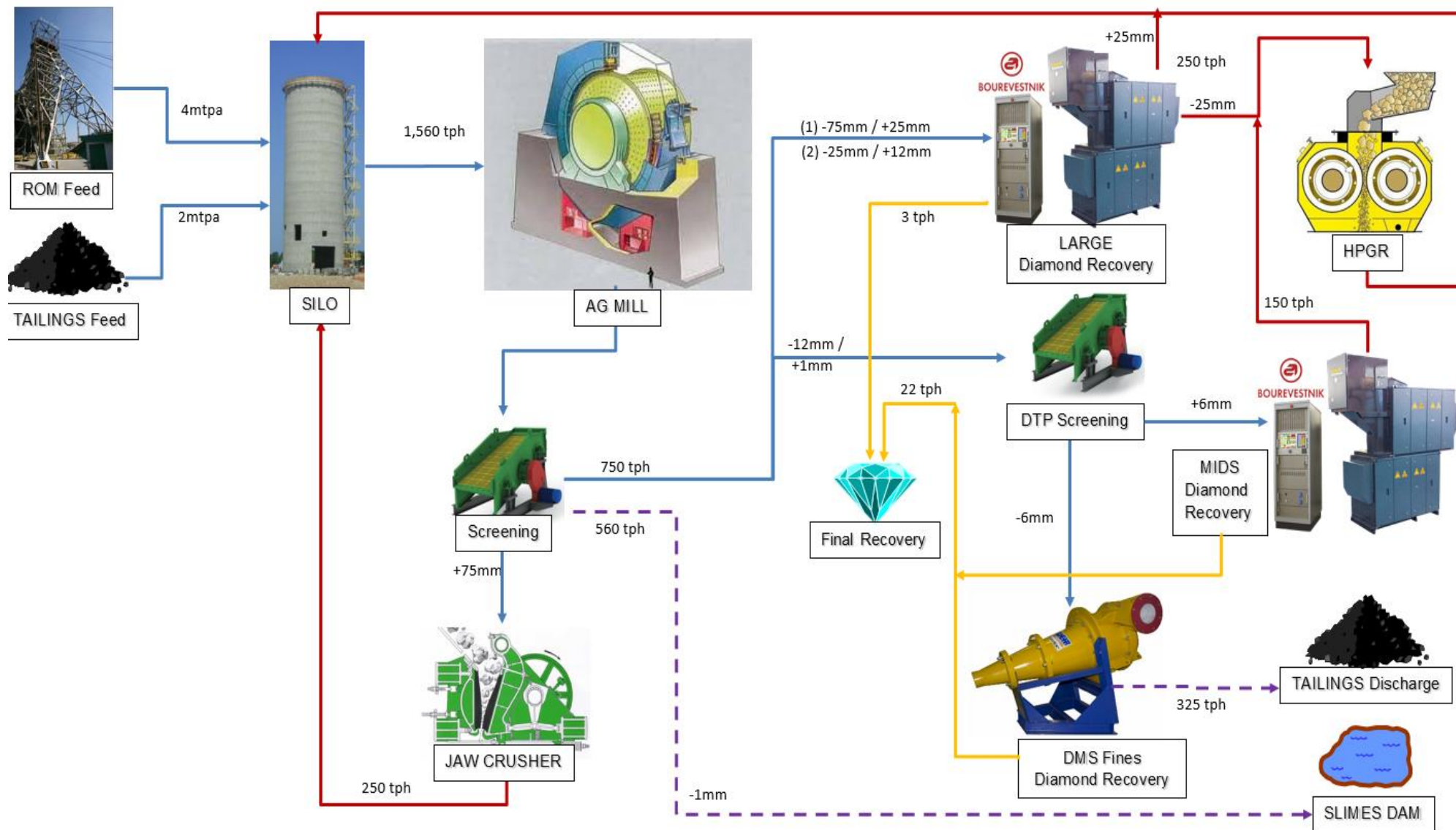
425 and 209 carats



20.8 carats



Cullinan Plant – Process Flow Diagram





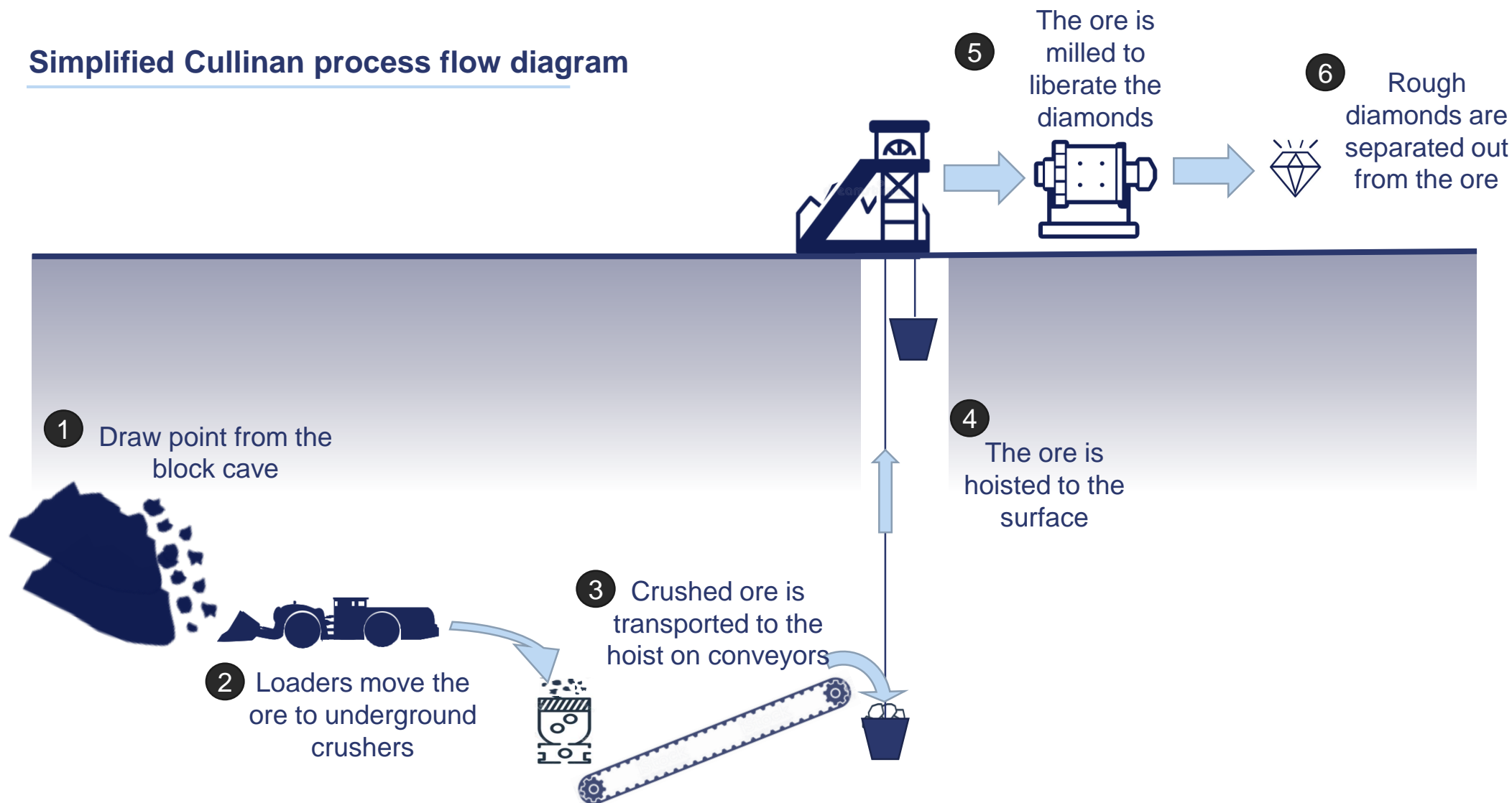
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Project 2022 Overview



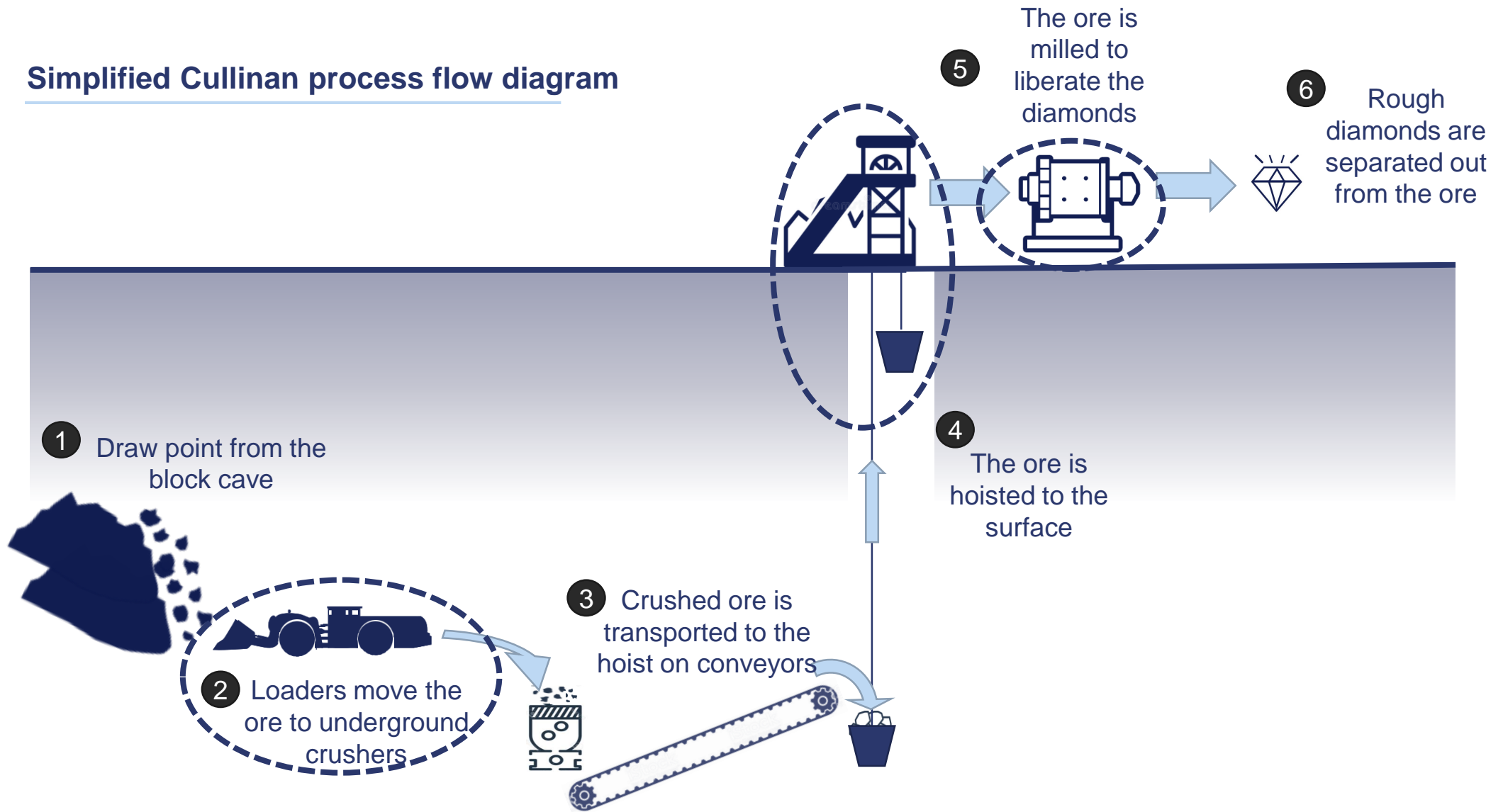
Project 2022 Initiatives aimed at increasing production

Simplified Cullinan process flow diagram



Improvements are mainly focused on addressing the bottlenecks on site

Simplified Cullinan process flow diagram



Specific ideas within mining are being implemented



Area

Idea

Loading

Shrink shift change: Increase the number of productive hours on the loaders by changing the blasting time and ensuring that shift handovers happen efficiently



Loading

Weekend loading: Appoint a contractor to load over the weekends, thereby increasing the number of utilised days per year and reducing overtime costs on the mine



Loading


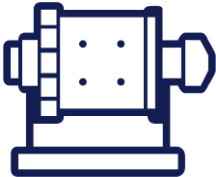

Start your engine: Improve LHD Cycle time by reducing delays from refueling, operational delays (e.g. large boulders) and unplanned maintenance.



Hoisting

Wind, don't stop: Implement a new shaft shift structure to increase the winders operating time and reduce the amount of time that the loaders have to stop loading due to full underground silos

The mining ideas are complemented by a set of ideas in the plant

	Area	Idea
	Recycle crushing	Optimisation and redesign of high-pressure grinding roll crushers: Refurbish and redesign the rolls so that they crush recycled material more effectively and reduce the recycle load of the milling circuit. This will allow a higher proportion of ROM ore to be fed into the mills
	Milling	Develop best practice for operation of the mills: Improve automated control and standardise operating procedures, so that the operating performance of the mills is more consistent, allowing a higher overall feed rate
	Tailings ore	Accelerate processing of red tailings: Increase the amount of historical high value red tailings treated to fill plant capacity.

P2022 is working to change the behaviours of all employees across site

From good, to **GREAT**

Our November average
50 loads/shift per LHD
per weekday

Our best day average
63 loads/shift per LHD

We are well on our
way to the target for
a **GREAT** day
66 loads/shift
per LHD

**Good
JOB!**

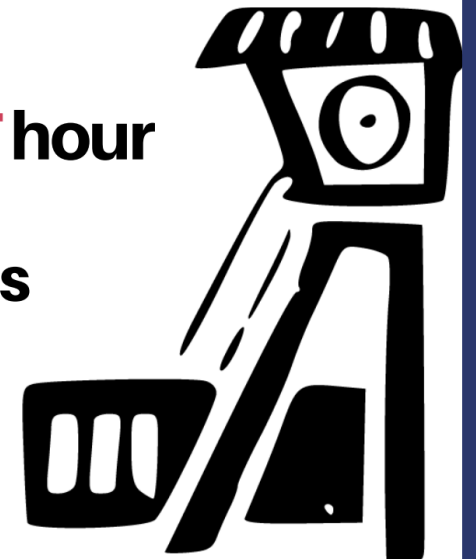


Fill, Pull & Hoist, that's the **right Choice!**

a **GOOD** hour
is hoisting
28 skips

but

a **GREAT** hour
is hoisting
32 skips





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Responsible Mining



By responsibly developing our assets, we unlock value for all stakeholders

Mining right holders in South Africa comply with



and have an approved

Environmental Management Programme “EMP”

- Outlines the environmental management processes to be followed during operations, and the rehabilitation to take place in preparation for closure

Social and Labour Plan “SLP”

- Defines an operation’s obligations in terms of social, labour and community matters
- Runs for a 5 year cycle, following which a new SLP needs to be prepared and approved following consultation with stakeholders

Group policies and practices aligned to



Managing our Material Impacts in support of the Sustainable Development Goals (“SDGs”)

	Employees, contractors, trade unions	Customers	Shareholders, bondholders	Local communities	Host Governments, regulators, NGOs	Suppliers	Topic boundary	In support of SDGs
Corporate governance	✓	✓	✓	✓	✓	✓	Applies to Petra's business as a whole.	8 DECENT WORK AND ECONOMIC GROWTH 12 RESPONSIBLE CONSUMPTION AND PRODUCTION
Generating economic benefit	✓	✓	✓	✓	✓	✓	Applies to the Company and to our countries of operation.	1 NO POVERTY 2 ZERO HUNGER 4 INDUSTRY, INNOVATION AND INFRASTRUCTURE 8 DECENT WORK AND ECONOMIC GROWTH 10 REDUCED INEQUALITIES 11 SUSTAINABLE CITIES AND COMMUNITIES
Consumer demand	✓	✓	✓	✓	✓	✓	Applies to the Company and to consumers globally.	12 RESPONSIBLE CONSUMPTION AND PRODUCTION
Safety and occupational health	✓	✓	✓	✓	✓	✓	Applies to the Company and to our local communities.	3 GOOD HEALTH AND WELL-BEING
Employee retention and development	✓	✓	✓	✓	✓	✓	Applies to the Company and to our local communities.	4 INDUSTRY, INNOVATION AND INFRASTRUCTURE 5 GENDER EQUALITY 8 DECENT WORK AND ECONOMIC GROWTH 10 REDUCED INEQUALITIES
Diversity	✓	✓	✓	✓	✓	✓	Applies to Petra's business as a whole.	5 GENDER EQUALITY 10 REDUCED INEQUALITIES
Labour relations	✓	✓	✓	✓	✓	✓	Applies to Petra's business as a whole.	5 GENDER EQUALITY 8 DECENT WORK AND ECONOMIC GROWTH 10 REDUCED INEQUALITIES
Environmental management	✓	✓	✓	✓	✓	✓	Applies to the Company and its local communities.	6 CLEAN WATER AND SANITATION 7 AFFORDABLE AND CLEAN ENERGY 12 RESPONSIBLE CONSUMPTION AND PRODUCTION 13 CLIMATE ACTION 15 LIFE ON LAND
Climate change and energy usage	✓	✓	✓	✓	✓	✓	Applies to the Company and its local communities.	7 AFFORDABLE AND CLEAN ENERGY 12 RESPONSIBLE CONSUMPTION AND PRODUCTION 13 CLIMATE ACTION 15 LIFE ON LAND
Water management	✓	✓	✓	✓	✓	✓	Applies to the Company and its local communities.	6 CLEAN WATER AND SANITATION 12 RESPONSIBLE CONSUMPTION AND PRODUCTION 13 CLIMATE ACTION
Community development and engagement	✓	✓	✓	✓	✓	✓	Applies to the Company and its local communities.	1 NO POVERTY 2 ZERO HUNGER 4 INDUSTRY, INNOVATION AND INFRASTRUCTURE 8 DECENT WORK AND ECONOMIC GROWTH 10 REDUCED INEQUALITIES
Legal compliance	✓	✓	✓	✓	✓	✓	Applies to the Petra business as a whole.	8 DECENT WORK AND ECONOMIC GROWTH 12 RESPONSIBLE CONSUMPTION AND PRODUCTION



Energy Use

Carbon emissions

- Diamond mining is less energy intensive than some types of mining – only represented 16% of on-mine cash costs in FY 2019
- Petra's energy use is currently from non-renewable sources, but we evaluate renewable energy developments annually
- Petra is targeting a 1% decrease in total carbon emissions per carat annually
- Cullinan C-Cut development and new plant designed to be as efficient as possible
- Overall carbon emitted +4% to 211kt, but efficiencies and higher production led to significant decreases in emissions per carat and tonne (tCO₂-e/ct -13% to 0.13 and tCO₂-e/t -20% to 0.04)
- Climate Change Adaption Strategy continues to be developed
- Carbon sequestration strategy aims to maximise indigenous vegetated areas of its protected land – each ha of natural vegetation is responsible for the sequestration of 300kg carbon per annum

Land use (ha)	Area disturbed	Area protected	Requiring rehab
Cullinan	1,642	2,673	1,631

Eskom Load Shedding

- 9 December 2019: Eskom made unprecedented move to Stage 6 load shedding (removal of 6000MW) further to a technical fault at Medupi Power Station
- Operations ceased immediately, with exception of essential services required for health and safety
- Situation was quickly resolved and mine operating at normal load levels by 12 December
- Situation is disruptive to business but Cullinan is used to managing operations optimally to maintain production levels during load shedding:
 - Bring forward essential maintenance work
 - Restrict load curtailment to processing plants (excess processing capacity allows for additional throughput when full power is restored)



Water Management

- Water demand and conservation management has been identified as the most significant environmental risk to our operations, including Cullinan
- Diamond mining is fairly water intensive due to the washing of ore in the treatment process
- Climate change may further impact the availability of raw water for treatment processes and impact on natural water resources that sustain the communities around our operations
- Cullinan achieved a 1% improvement in water efficiency in FY 2019 due to higher water recycling percentages – Cullinan is currently recycling 98% of all process water
- December 2019: heavy storms and flooding at the Wilgeriver Dam caused damage to the infrastructure that supplies raw water to the operation and community
 - By participating in an urgent multi-stakeholder cooperation and acting decisively, Cullinan was able to put in place immediate measures in order to ensure minimal stoppages and discomfort to the community

Water management objectives

1. Improve water use efficiency
2. Improve percentage of recycled water used in production

Long-term strategy based on

1. The South African Department of Water and Sanitation's Long-term Adaptation Strategy, which includes adaptation scenarios specifically for water management
2. The World Resource Institute's Water Risk Atlas – looking specifically at the 'business as usual' scenario for the period up to 2030 where most of the current life of mine planning resides; this scenario focuses on water stress in areas due to resources supply versus development and expansion

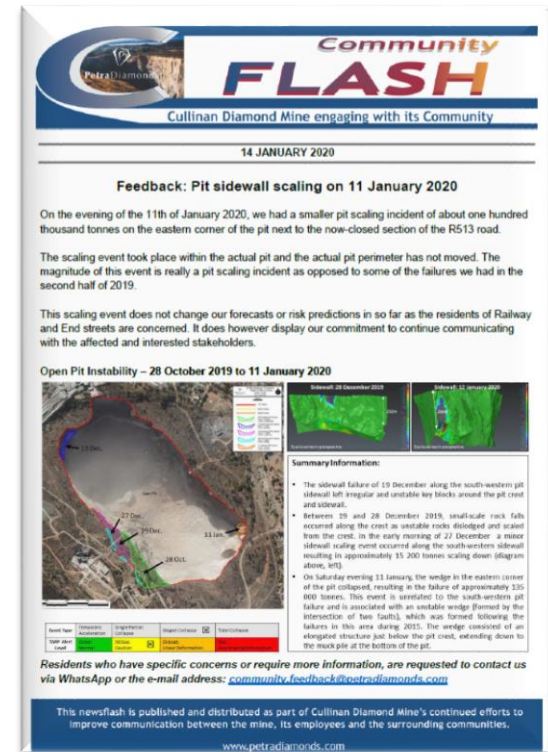


Stakeholder Engagement

- Ad hoc, incident-based engagement on pit scaling with community since early 2015, especially closure and detour of R513 road section
- Pit scaling incidents in 2019 highlighted the need for structured and sustained engagement with interested and affected parties, including both the community and authorities
- Perceptions in community (notably “Old Town”) around risk presented by pit scaling – property damage, dust, vibration, property values, more

Comprehensive stakeholder engagement plan compiled:

- Identification and rating of stakeholders
- Verification of stakeholder contact details, based on rating
- Regular updates to affected parties via digital means (WhatsApp, SMS), Community Flash, community notice boards, and formal communication – letters and meetings (authorities)
- Scheduled public meetings (31 October, next meeting TBC)
- Feedback mechanisms – toll-free SMS (30921), community.feedback@petradiamonds.com email address, Comment/Complaints books throughout community
- Recording of stakeholder individuals, stakeholder entities and actions on IsoMetrix SEM system
- Media contact – emphasis on local media; preparedness for national and wider media

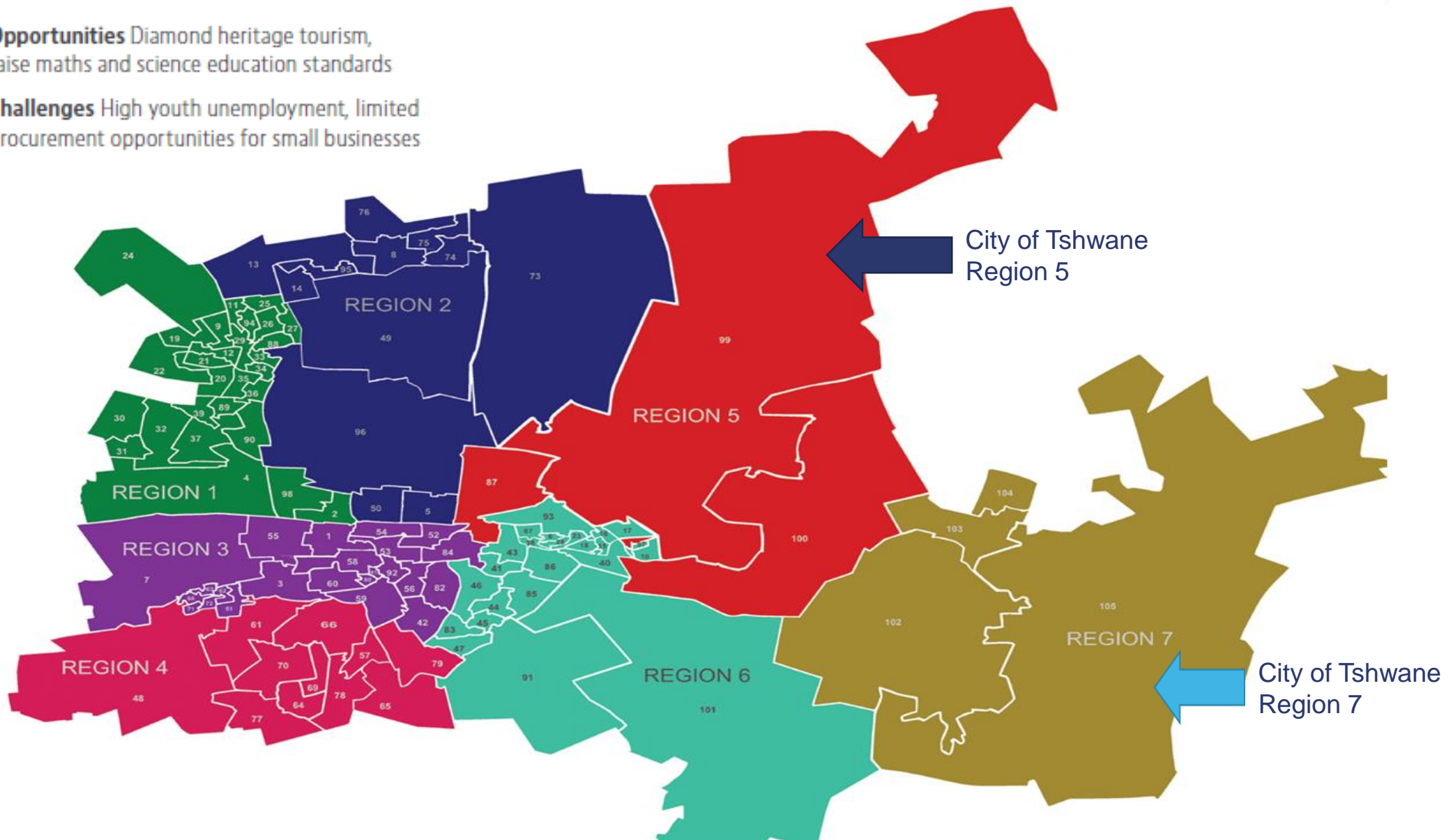


Cullinan Community Investment Areas – City of Tshwane in Gauteng Province

Local operating environment Well connected in terms of urban amenities and infrastructure

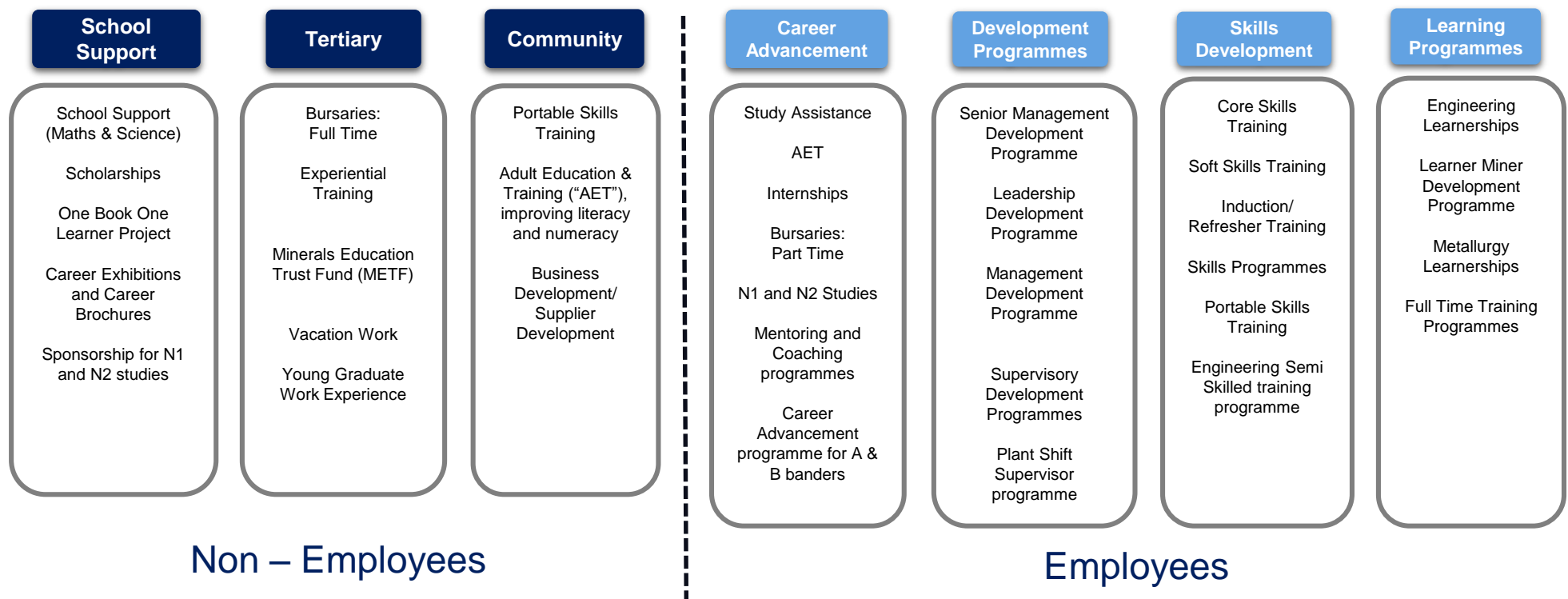
Opportunities Diamond heritage tourism, raise maths and science education standards

Challenges High youth unemployment, limited procurement opportunities for small businesses



The most important contribution we can make to socio-economic development

- Efforts start at grassroots level – improving education standards in local schools
- Bursaries, scholarships and training offered to community members
- Numerous Company programmes to develop our employees



“If you want to make a difference in this country, invest in education”



Playing a Positive Role within our Communities



Petra constructed the Multi Sports Facilities for use by 3 local primary schools, using labourers from the local community and thereby providing sports facilities for a total of 3,597 children



Petra constructed an expansion of the Onverwacht Primary School, using local SMMEs and labourers; 4 new classrooms and a canteen were built and the Grade R Block extended



Petra constructed the Lethabong Day Centre within the Onverwacht school grounds, with 3 classrooms and facilities for both the staff and the children. This centre allows pupils who were often absent caring for siblings to attend school while their siblings attend the Centre



4 local primary schools were provided with the My Maths Buddy programme in order to support the improvement of maths skills



Cullinan hosts mine tours for local students annually in order to assist with careers guidance



The Petra Foundation funded the construction of a new science laboratory for the Chipa-Tabane High School



Enterprise and Supplier Development Programme (“ESD”)

Assisting local businesses to create sustainable economic growth in our communities

Petra has dedicated Enterprise Development Resource Centres in place at each operation to support local businesses, offering:

- Business advisory services
- Readiness assessments – business and technical
- Generic business and technical training
- Access to market – opportunities at the mine and other markets
- Access to funding through low-interest funding for qualifying SMMEs
- Business mentoring
- Computer and printing facilities
- Boardroom facilities

Since its inception in 2015, \$2m has been disbursed in loan funding

FY 2019 highlights:

- Loans approved: 34
- Value of loans approved: Ca. US\$0.29m
- Employment opportunities created: 253
- Local small businesses supported: 16



Case Study: Outclass Crystallized Gems (“OCG”)

Tarorite (Pty) Ltd is a Petra subsidiary and the holder of Petra’s Beneficiation and Diamond Dealer licences

Through its ESD programme, Tarorite is able to support the growing local diamond industry. The Tarorite ESD programme aims to develop learners within the diamond industry through internships and other diamond-related courses. It also equips local beneficiation businesses through both funding and mentoring.

- Secured funding to buy rough stones and cut and make jewellery to sell to the open market
- 2015: OCG’s cutters trained at the Kimberley Diamond and Jewellery Academy
- 2017: received funding through Petra’s Tarorite programme after which OCG celebrated their first sale
- OCG has secured a supply of rough diamonds at competitive rates and has exhibited at a number of jewellery shows
- 2019: participated in Hong Kong Gem & Jewellery Show
- One of the very few manufacturers to join the Gemmological Institute of America’s Mine2Market programme

Petra aims to build on Cullinan's exceptional legacy

C-Cut project nearly complete

- With first development in 2014, the major C-Cut project is now nearing completion
- All 107 drawpoints have been installed and the entire footprint of the new C-Cut block cave is expected to be fully operational by the end of calendar 2020

Optimisation underway

- Project 2022 has already started to positively impact Cullinan's production results in terms of throughput
- Opportunities to drive efficiencies in both mining and processing
- Due to high fixed cost nature of mining operations, increased volumes will positively impact operating cost per tonne

Exceptional diamonds

- Cullinan continues to produce world-class diamonds, including the 424ct Legacy of the Cullinan Diamond Mine (sold for ca. \$15 million in May 2019) and the 20ct blue diamond (sold for \$14.9 million in November 2019)

Longevity

- Current 10 year mine plan will only exploit ca. 17% of the total indicated resource by volume
- Cullinan plays a positive role in its communities and seeks to generate value for all of its stakeholders





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Safety induction
& site visit
orientation



Site visit risk overview



Track Bound & Trackless Machinery



Moving Components - Point and Ask,
Do Not Touch



Uneven surfaces Stairs & Elevated Heights



Noise & Dust – PPE Will Be Issued



Explosives – No Smoking, Open Flames, No Mobile Phones

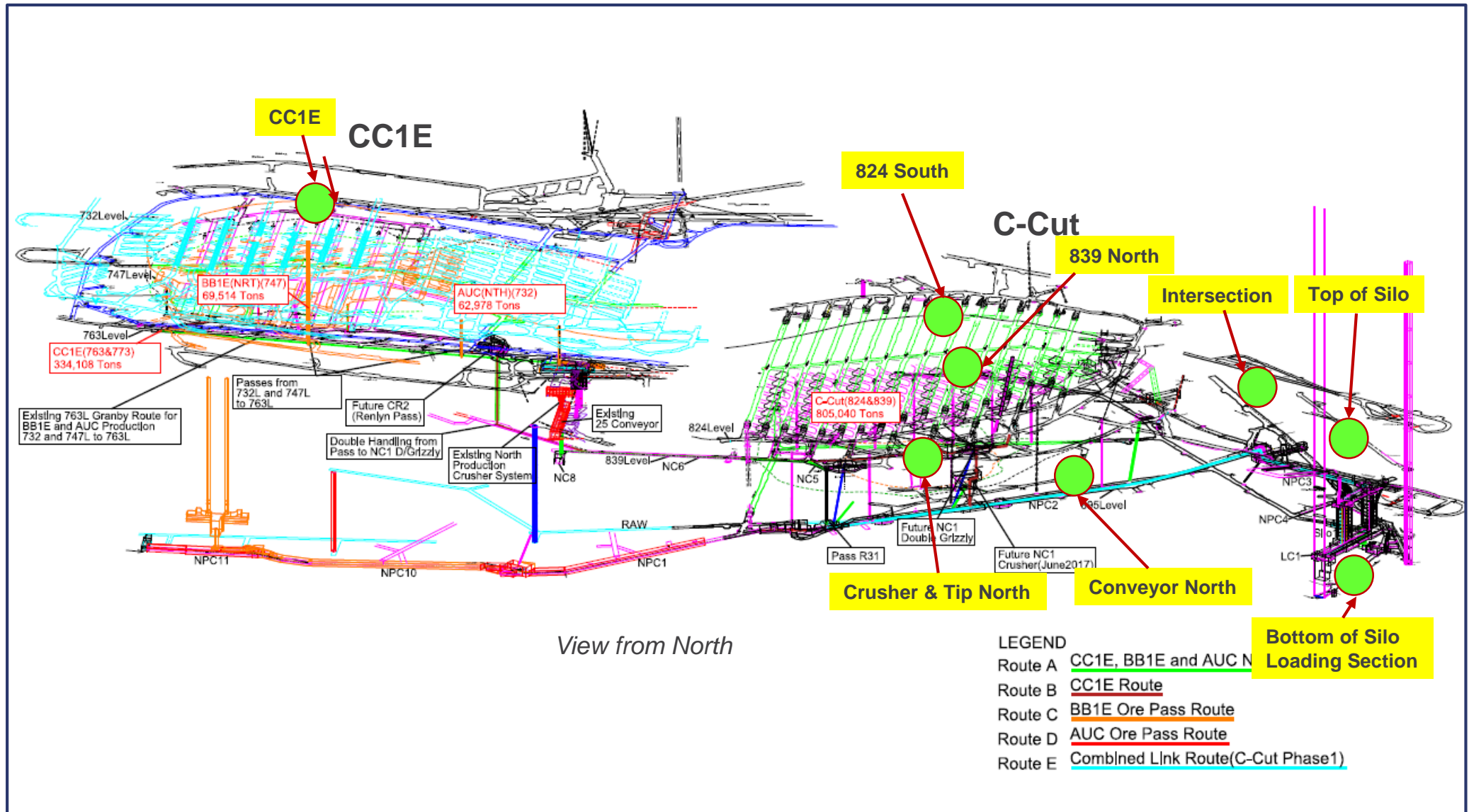
If you should feel uncomfortable or claustrophobic at any time during the visit please don't hesitate to speak up . Do not wonder off from the group.



RESCUE PACK INDUCTION



Plan View of Cullinan Mining Areas



Aerial Overview of surface plant



1. ROM Feed
2. ROM Silo and Return Silo
3. Mill Section
4. XRL Recovery
5. HPGR Crusher
6. DMS Plant
7. Final Recovery
8. Tailings Disposal
9. Slimes Disposal
10. New Eskom Substation
11. MV Substation
12. Re-mined Material
13. Pump Station
14. Jaw Crusher

New image tbc



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Appendix



Analyst Guidance FY 2020 – Group Capex Profile

Operation	Financial Year	2020
Finsch	ROM tonnes treated (Mt)	2.9 – 3.0
	Expansion Capex (ZARm)	122
	Sustaining Capex (ZARm)	102
Cullinan	ROM tonnes treated (Mt)	4.0 – 4.2
	Expansion Capex (ZARm)	144
	Sustaining Capex (ZARm)	57
Koffiefontein	ROM tonnes treated (Mt)	1.0
	Expansion Capex (ZARm)	41
	Sustaining Capex (ZARm)	22
PETRA (SA Operations)	Expansion Capex (ZARm)	307
	Sustaining Capex (ZARm)	181
Williamson	ROM tonnes treated (Mt)	5.0
	Alluvial tonnes treated (Mt)	0.3
	Sustaining Capex (USDm)	7
PETRA (All Operations)	ROM tonnes treated (Mt)	12.9 – 13.2
	Tailings / other tonnes treated (Mt)	0.3
	Expansion Capex (USDm)	22
	Sustaining Capex (USDm)	20



¹ All Capex numbers stated in FY 2020 money terms (ZAR14.0/US\$1 where applicable)

² Depreciation on mining assets for FY 2020 guided at ca. US\$85-90 million at R14.0/US\$1

Tailings Residue Deposit Management in line with Best Practice

- In South Africa risk-based **mandatory Codes of Practices** (“COP”)¹ are available for all residue deposits at our mines as required by, and according to set guidelines from the Department of Mineral Resources (DMR), Mine Health and Safety Inspectorate. All COP documents are signed off by the DMR and the respective third party appointed Professional Engineers.
- The Williamson diamond mine in Tanzania does not require a COP by law but, since 2016, in line with best practice Petra developed and implemented operating practices, set out in an operating manual, similar to a COP for the mine’s tailings deposits.
- Petra differentiates between a **Coarse Residue Deposit** (CRD) and a **Fine Residue Deposit** (FRD). All operations make use of CRDs and FRDs. Coarse tailings (particles > ca. 0.5mm) are normally deposited on a CRD whilst fine tailings (particles < ca. 0.5mm) are deposited on a FRD. Petra employs a dry conveying and stacking method for the CRD whilst the fine tailings are normally pumped to a FRD.
- Generally, CRDs are relatively stable structures that do not impound water and therefore do not pose a risk of wall breach and flooding. At some operations, older CRDs are being re-treated to extract residual diamonds lost in the diamond winning process during earlier years when diamond winning technology was less efficient.
- All residue facilities are constructed using the upstream deposition method. The outer walls are constructed with the coarser fraction of the fines residue whilst the finer fraction will settle in the dam basin, maintaining the pool away from the embankment walls. Supernatant and storm water are pumped off the deposits on a continuous basis to reuse in the diamond winning process.
- At **Finsch** there are five FRDs; four of the facilities are located on the eastern side of the mining area with three being active and one decommissioned as current deposition rates do not require it to be used. A further facility is located on the western side of the mining area and is also active. At **Koffiefontein** there are three FRDs of which two are currently being used for fines residue deposition. The third dam has been rehabilitated and is no longer utilised. At **Cullinan** there is only one FRD, referred to as the No.7 dam. At the **Williamson** mine in Tanzania there are two FRDs of which one is currently active.
- In addition to internal compliance, assurance and performance audits, third party Professional Engineers together with mine geotechnical engineers are appointed by Petra to oversee and provide assurance on the design and operational standards of the tailings facilities through quarterly inspections.
- Further to third party assurance, annual external audits are conducted in line with OHSAS18001:2007 and ISO 14001:2015 management standards and ad hoc inspections are carried out by the regulator.
- Important parameters that are being recorded, documented and managed include the overall condition of side slopes, benches and basin, drain flow records, deposition rates and corresponding rate of rise, freeboard, the phreatic surface level, structural integrity of the penstocks, pool size and location, impact on surrounding environment and potential zone of influence.

¹ COP includes and refers to the design, managerial instructions, recommended standards and procedures required to manage and monitor the operation of facilities





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Thank you

Further enquiries:

investorrelations@petradiamonds.com

+44 20 74948203

www.petradiamonds.com