



Sustainability by Design FutureSmart Mining™

Bank of America Conference
19 May 2021

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FutureSmart Mining™

Rate of new technology development has accelerated and has many water, energy and community benefits



Re-imagine mining to improve people's lives



Our sustainability approach

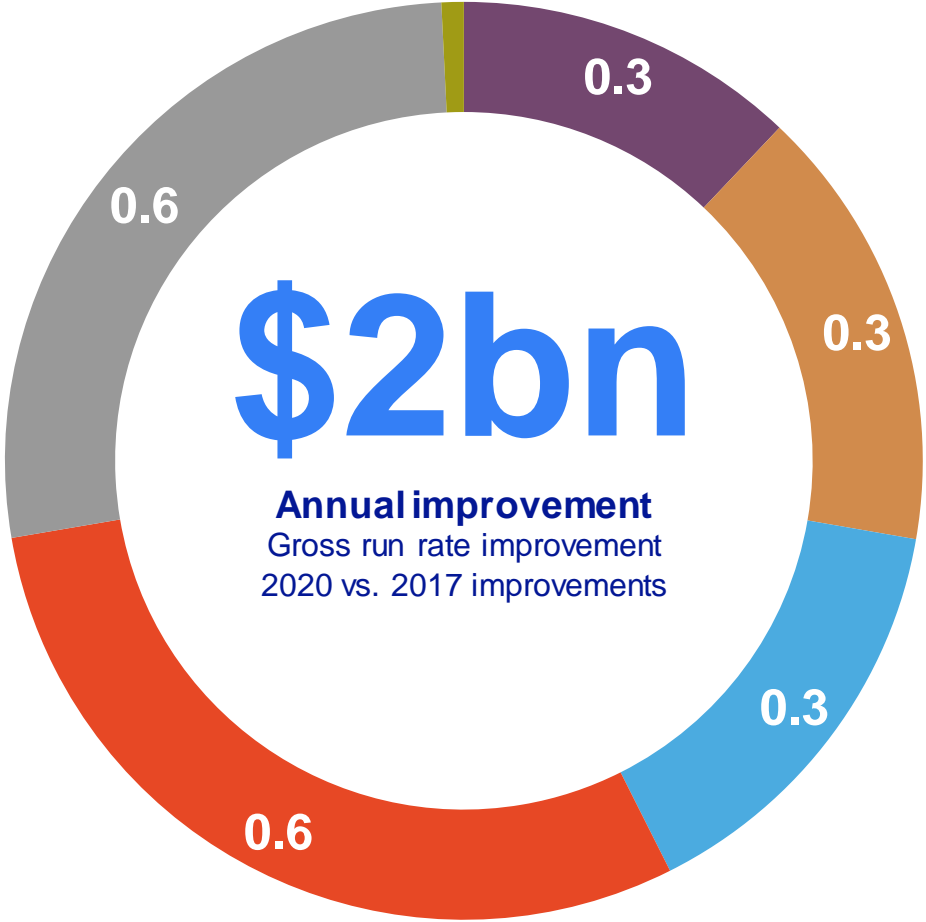


Compliance reporting and initiatives

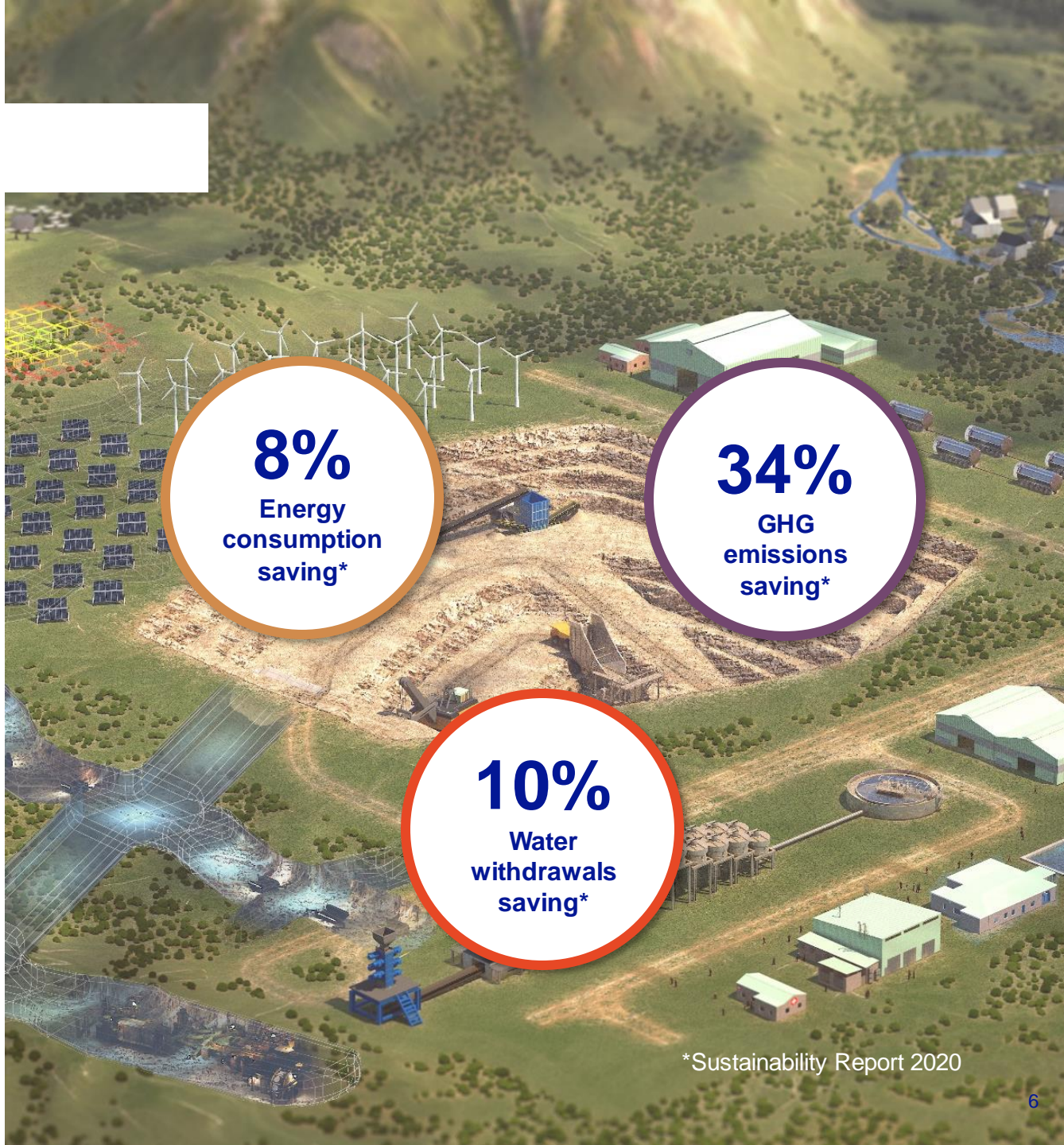
Shaping

- Culture & people
- Systems
- Process
- Capability
- Structure
- Innovation

Broad value enabled by P101



- De Beers
- PGMs
- Met Coal
- Copper
- Iron Ore
- Nickel



8%
Energy consumption saving*

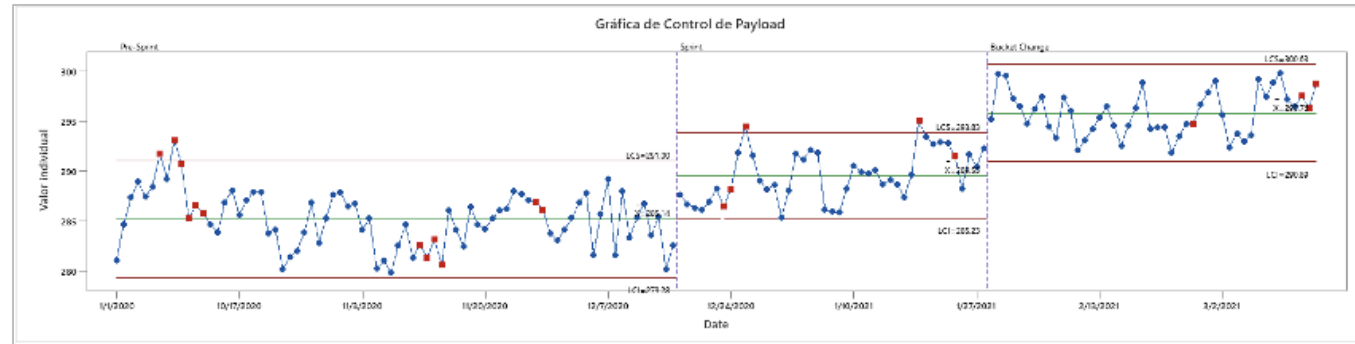
34%
GHG emissions saving*

10%
Water withdrawals saving*

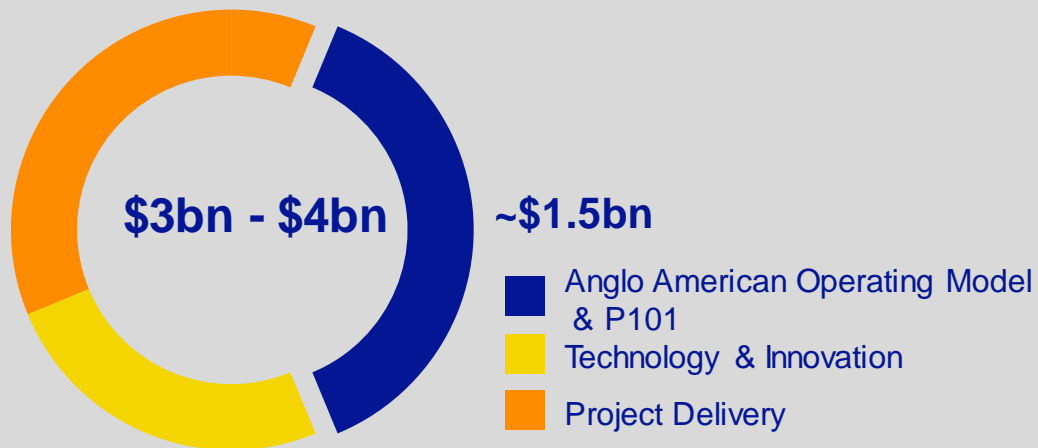
*Sustainability Report 2020

Operating Model underpins sustainability

Los Bronces – Truck Payload Optimisation



2017-2022 EBITDA
Improvement Commitment (\$bn)

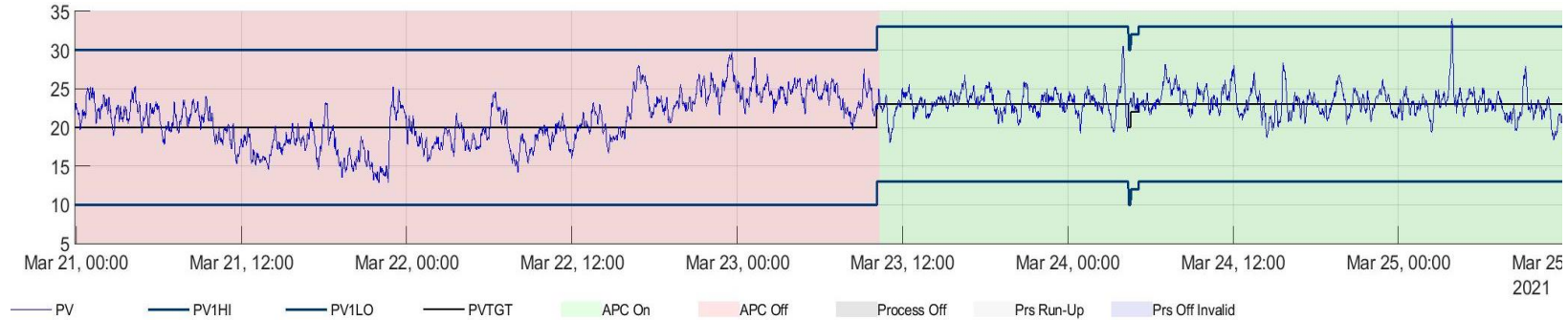


Stability and reduced variability brings ESG benefits

- Enables lower energy costs
- Improved safety record
- Reduce unplanned maintenance
- Stable foundations for innovation
- Enables predictability, optimisation and increased efficiency

Advanced Process Control improves energy and water efficiency

Minas-Rio: 48% increased stability in float circuit, lifting throughput by 4%



Sustainability benefits include

- 4% reduction in water consumption at Los Bronces grinding mills
- 4-12% energy reductions from APCs controlling SAG mills

Anglo American 2020

14ktCO_{2e}
Carbon reduction

173kJGJ
Energy savings

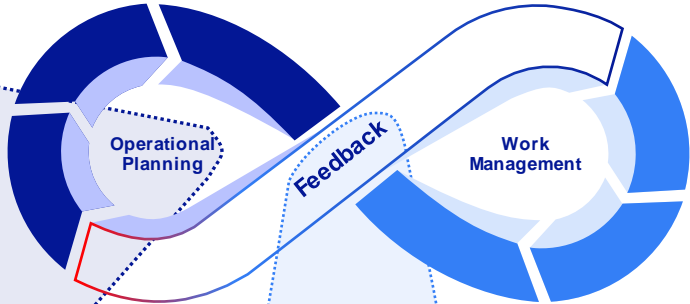
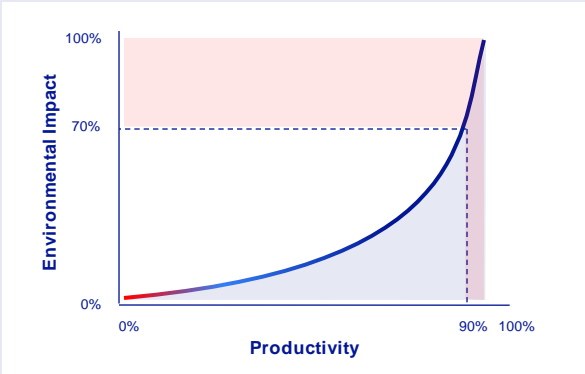
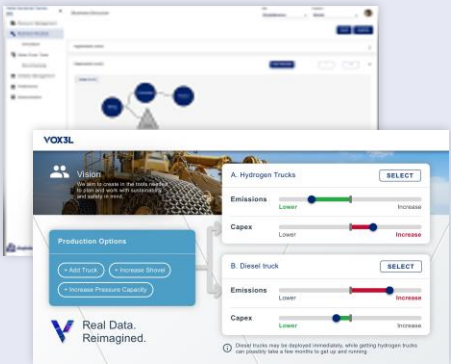


VOXEL™: Industry-first digital transformation platform for data-driven decisions



Planning for minimising environmental impact

Digitising our operational planning



Digital integration

- GHG modelling allows us to balance throughput against predicted environmental impact
- Proactive understanding of the environmental impact through data, models, plans and digital tools
- Digital Operational Planning allows value driver modelling to understand incremental impact of our operations on environmental impact
- Results in operational plans optimised for minimal environmental impact

Designed for the Anglo American Operating Model

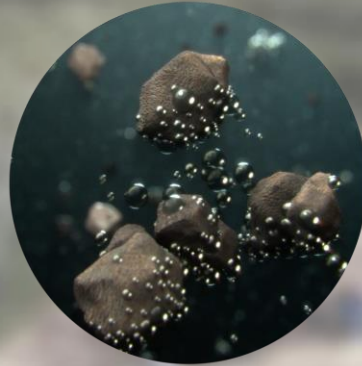
Am I stable? ①
 Will I be capable? ②
 Could I be more efficient? ③

FutureSmart Mining™ technologies drive accretive environmental benefits



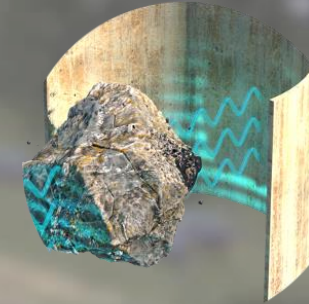
Bulk ore sorting

Up to 40% less waste processed



Coarse particle recovery

Up to 85% water recovery with hydraulic dry stack



Microwave

Up to 20% reduction in comminution energy



Hydraulic dry stack

Safe and stable dry stack capable of being repurposed for community or biodiversity



Hydrogen truck and plant

Green hydrogen displace fossil fuels

Speed of innovation to value

Accelerators of value

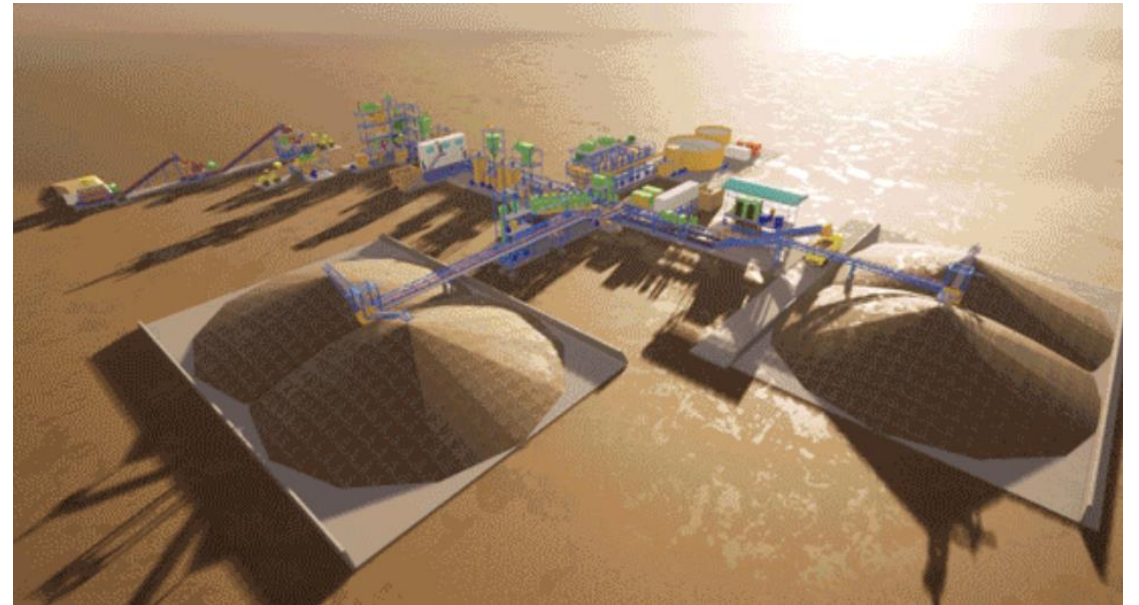
- Accelerated development methods
- Risk managed approach
- Agile deployment methods compress rollout time
- Modular concepts
- Implement and improve, using Anglo American Operating Model and P101

Benefits




- Time to value reduced from 15-20 to 2-5 years

Permitting







- Dialogue and partnership



2030 environment targets

Healthy Environment		
 Biodiversity	 Climate Change	 Water
2030	2030	2030
Deliver NPI on Biodiversity across Anglo American	Reduce net GHG emissions by 30%	Reduce the abstraction of fresh water in water scarce areas by 50%
	Improve energy efficiency by 30%	
	8 sites carbon neutral	

2030 social and governance targets

Thriving Communities			Trusted Corporate Leader		
 <p>Health & Wellbeing</p> <p>2030</p> <p>SDG3 targets for health to be achieved in our host communities</p>	 <p>Education</p> <p>2025</p> <p>Schools in host communities to perform within the top 20% of state schools nationally</p>	 <p>Livelihoods</p> <p>2030</p> <p>Five jobs created/supported off-site for every job on-site</p>	 <p>Accountability</p> <p>2030</p> <p>Establish multiple levels of open and accountable dialogue leading to greater mutual trust</p> <p>Widespread recognition of the benefits that responsible mining can bring, a collaborative openness about the challenges and a more consensual working relationship between Anglo American and society</p>	 <p>Ethical Value Chains</p> <p>2025</p> <p>All Anglo American operations to undergo third-party audits against recognised responsible mine certification systems</p>	 <p>Policy Advocacy</p> <p>2030</p> <p>External recognition of our leadership on policy advocacy</p> <p>Strong levels of engagement in policy debates</p>

Summary



Culture & people

Systems

Process

Capability

Structure

Innovation

Thank you

