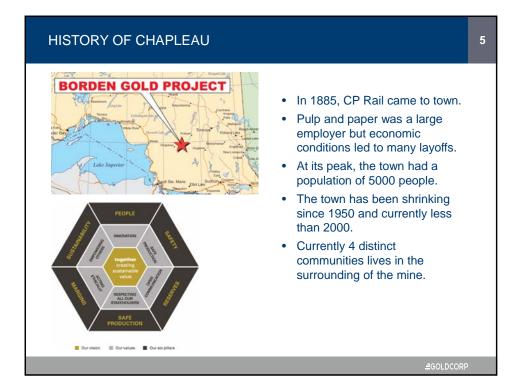
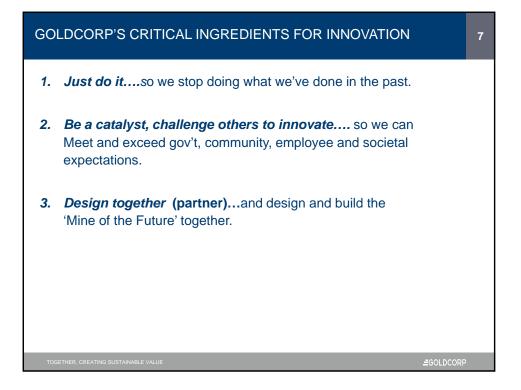


#### S3P1 - 2











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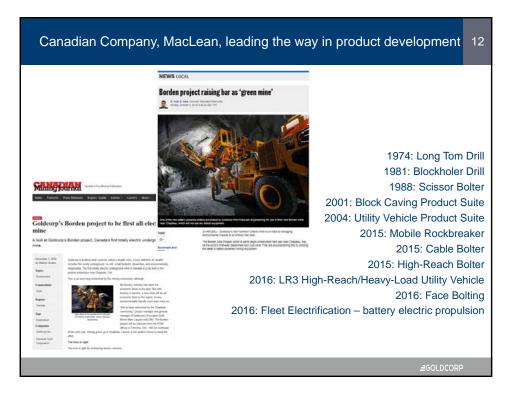
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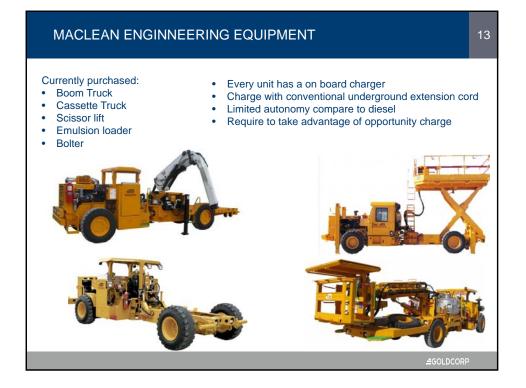
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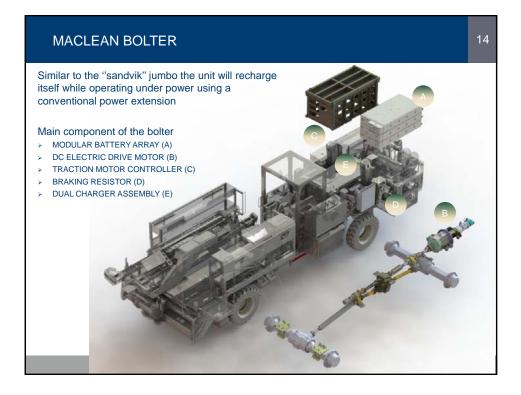


# S3P1 - 5

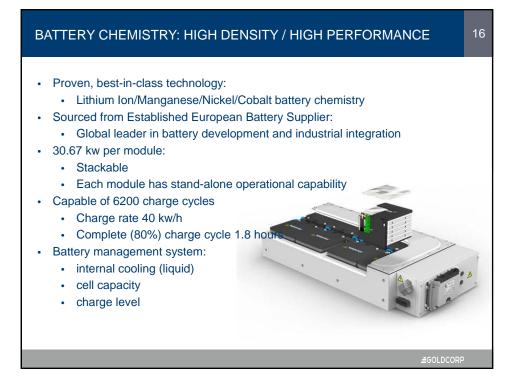






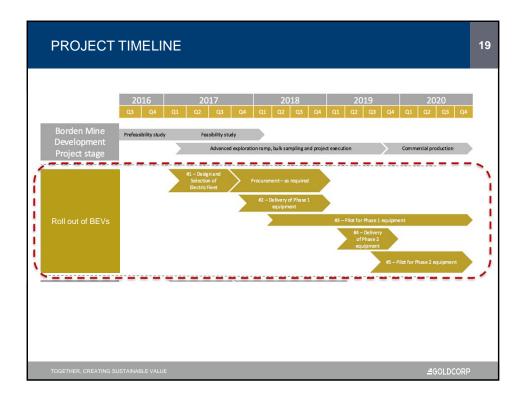


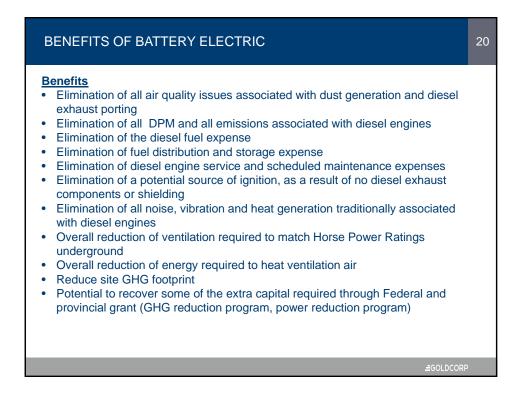


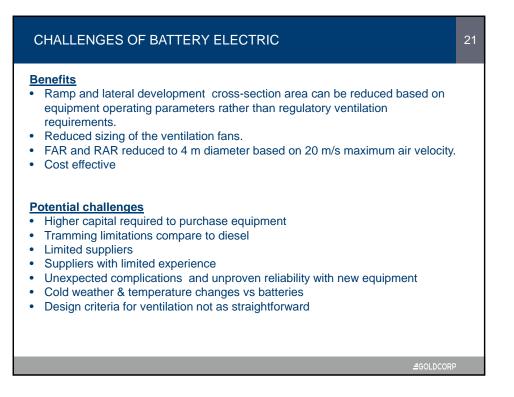


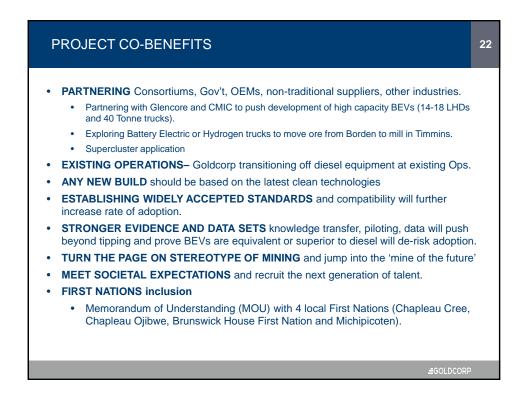
Equipment	Model	kW Rating	Quantity
Jumbo	AC Bommer M2D-Battery	179	3
Truck	AC Mine Truck MT 42	414	5
Bolter	AC Boltec S Battery	113	3
Drill rig	AC Simba S7 C – Battery	113	2
Boom truck	E-BT3 Boom	93	2
ANFO loader	AC3 ANFO Charger	93	3
Scissor lift	McL SL3 Scissor lift	31	2
Block holer	McI E-BH3	93	1
Grader	E-Grader (estimate)	93	1
Personel carrier	Marmot-EV	95	5
Tractor	E-mine Cat (estimate)	93	5
Shotcreter	McL E-SC3	93	1
Mixer	E-Concrete Mixer (estimate)	93	1
Scoop	AC Scooptram ST14	414	5
Scoop	AC Scooptram <sup>®</sup> Model BEST 7	259	2
Total Number of Units 41			41

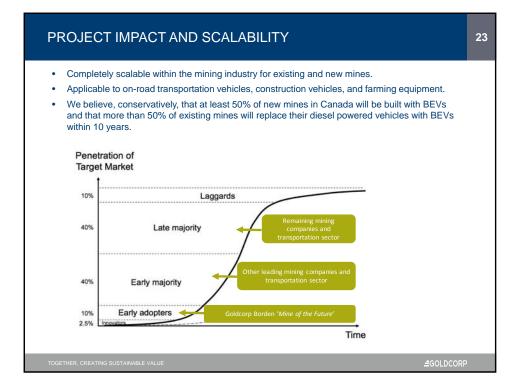
Estimated ventilation requirement				
Based on the requirement for	Air Usage	Diesel Fleet Airflow (m <sup>3</sup> /s)	Battery Fleet Airflow (m <sup>3</sup> /s)	
year 2022	Development	65.7	36.0	
Battery equipment will offer a	Production	88.9	24.0	
ventilation reduction of 40% over a diesel fleet	Backfill	59.5	24.0	
This is with no VOD in both cases	Infrastructure	45.0	45.0	
	Inactive Levels	20.0	20.0	
Battery fleet will require higher capital but will reduce OPEX	Distribution Factor	51.8 (20%)	15.7 (10%)	
requirement	Safety Factor	38.9 (15%)	23.6 (15%)	
Electricity consumption will	Total Mine Air	369.8	216.3	
decrease with a fleet of electric equipment	CFM/Tonne Mined	0.97	0.57	













S3P1 - 12

