

CRC ORE PROJECT PIPELINE

Click on underlined project number to download project snapshot

Development Projects (timeline is calendar year)	Partners	2015		2016				2017				2018				2019				2020				2021	
		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
PROGRAM 1: DEFINE																									
P1-001 & P1-009 & P1-012 : Gamma Activation Analysis for geo-sensing	CSIRO					Concept TRL2-TRL3 P1-001		Design TRL4-TRL5 P1-009			Prototype TRL 5 P1-012														
P1-002 : PGNA elemental logging for Instrumenting the Bench	CSIRO					Prototype TRL5 P1-002																			
P1-003 : Magnetic resonance of covellite for geo-sensing	CSIRO					Prototype TRL4 P1-003																			
P1-004 : GE View an online tool for assessing Grade Engineering® (GE) opportunities	MRIWA					Enhance database TRL4 P1-004																			
P1-005 : Upconversion fluorescence of minerals for geo-sensing	Uni of Adelaide																								
P1-006 : Geological controls on grade by size department	UTAS																								
P1-007 : Surface techniques for geo-sensing	UTAS					Review TRL4 P1-007																			
P1-011 : Resource scale heterogeneity evaluation	Uni of Adelaide																								
P5-013 : Magnetic Resonance Bench Analysis – Stage 1 Laboratory Feasibility	CSIRO																								
PROGRAM 2: SEPARATE																									
P2-001 : Sensors for rock mass characterisation	Mining³																								
P2-002 : Blast design optimisation for GE	Mining³																								
P2-003 : Orebody DNA	Mining³																								
P2-004 : LIBS analysis for Geo-sensing	NRC																								
P2-005 : Simulation of GE mining processes	UQ, Mining³																								
M3-001 : MWD for Top-of-Coal Stand-off Ph3	Mining³																								
M3-002 : Real-time Strata Interface Delineation	Mining³																								
M3-003 : Orebody DNA- Volumetric Analytics for GE	Mining³																								
M3-004 : Improving Resilience of Mine Haul Roads	Mining³																								
M3-005 : Alternative Explosives Formulations Ph 2	Mining³																								
M3-006 : Alternative Explosives Formulations Ph 3	Mining³																								
M3-007 : Surface Mining – Dynacut Ph.2	Mining³																								
M3-008 : Continuous Drilling Ph.1	Mining³																								
M3-009 : Sensing Technologies	Mining³																								
PROGRAM 3: EXTRACT																									
P3-001 : IES Baseline Project	CRC ORE																								
P3-006 : AMIRA P9Q	UQ, Amira and others																								
P3-005 : AMIRA P420F	Curtin																								
P3-007 : Simulation Stream Behaviour	UQ, AMIRA and others																								
P3-008 : Comminution optimisation for GE	JKMRC, Gekko																								
P3-009 : Additional Research P9Q – IES Development Project	AMIRA, JKMR, UFRJ, UCT, Hacettepe, Chalmers, Anglo American, AngloGold Ashanti, Barrick, BGRIMM, JKTech, Magotteaux, Metso, Newmont, South32, Vale Technology, Weir Minerals																								
P3-010 : Beneficiation of Hard Rock Lithium Ores	Curtin																								
P3-012 : IES Foundation Project	AMIRA, Hatch, Sedgman, BHP, Anglo American, Teck																								
PROGRAM 4: CONTROL																									
P4-001 & P4-003 : Data driven models	QUT																								
P4-004 : Implementation Accelerator	Clareo																								
P4-007 : Optimised Production Scheduling for Grade Engineering	Curtin																								
P4-008 : Business and eco-system management tools to overcome barriers to change	QUT																								
IMPLEMENTATION																									
S2-060.A : Los Bronces Advanced Concept Study	Anglo American, COMET																								
S2-060.E : Mantoverde Grade Engineering® Study	Anglo American																								
S2-079 : Los Bronces Grade Engineering® Blast Trial	Anglo American, Davey Bickford, Jerricho, SGS																								
S2-082 : THM Livengood GE Opportunity Assessment	Tower Hill Mines																								
S2-085 : Gruyere GE Opportunity Assessment	Gold Road Resources																								
P5-001.A : Escondida Differential Blasting Study	BHP, SGS																								
P5-001.B : Escondida Integrated Extraction Simulator (IES) Implementation	BHP, JKTech																								
P5-001.C : Escondida As-Is Mapping	BHP																								
P5-005.A : Advanced Fragmentation Technologies	Anglo American, JKTech																								
P5-005.B : Advance Production Modelling and Control	Anglo American, JKTech																								
P5-007.C : Lihir Opportunity Assessment	Newcrest, Bear Rock																								
P5-009 : Linking Grade Engineering® and Whittle EO	Whittle Consulting																								
P5-010 & P5-037 : Minera San Cristóbal GE Study and Production Trial	Sumitomo, JKTech, METSO																								
P5-011 : Detour Gold GE Opportunity Assessment	Detour Gold																								
P5-012 : Los Bronces IES Implementation Project	Anglo American, JKTech																								
P5-015 : Kalgoorlie-Boulder Mining Innovation Hub	WASM																								
P5-016 & P5-040 : Carmen de Andacollo Screening Assessment	Teck																								
P5-018 : Sierra Gorda Grade Engineering Study	Sumitomo, KGHM																								
P5-019 : CRC ORE - ORICA Differential Blasting Partnership	ORICA																								
P5-021 : Surge Slave Separator-Sensing Opportunity Assessment at Minera Escondida Limitada	BHP, Hatch, Mining³																								
P5-022 : Los Bronces Opportunity Assessment and Surge Slave Separator	Anglo American, Hatch																								
P5-023 : Gramalote Grade Engineering PFS Review	Anglo American, CSIRO, Advisian																								
P5-025 : Instrumenting the Bench	Imdex, Orica, Sodern, Atlas Copco																								
P5-026 : Bonikro Stockpile Preferential Department Sampling Study	Newcrest																								

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P5-027 : Los Bronces Blasting Study	Anglo American											TRL5-TRL7 P5-027														
P5-028: MEL Grade Heterogeneity Study	BHP																									
P5-042 : BHP Heterogeneity Partnership	BHP																									
P5-044: Data analytics for integrated sensor trials at Escondida	BHP																									
P5-045: Analysis of Extended BIMM at MEL	BHP																									
P5-048: BlastOre Applicability	BHP																									
P5-049: Escondida Mine to Mill value quantification	BHP																									
P5-050: Simulation of movement and mixing during blast and excavation	BHP																									
P5-052: Mogalakwena Sensor Fusion Trial	Anglo American																									
P5-054: Barro Alto Sensor Fusion Trial	Anglo American																									
P5-057: Brown Book																										
P5-058: CADIA	Newcrest																									