

CHRYSOS CORPORATION Assays at the speed of light

Faster, more accurate **gold** analysis

Full Year Results FY22

August 2022

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Chrysos – revolutionising the global mining industry



Chrysos is a global provider of novel assay services through its proprietary PhotonAssay[™] technology

Disruptive Minerals Analysis Technology

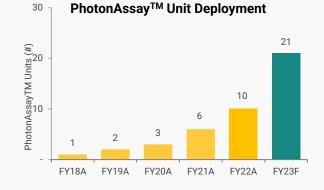
- Developed by CSIRO
- Faster process
- More accurate results
- Reduced sample preparation
- Automated operation
- Lower labour requirements
- Improved workplace OHS
- Better environmental outcomes
- Larger, more representative, sample size

Service and Lease Model with Tier 1 Counterparties

- Units operating commercially since 2018
- Deployed across 3 continents
- Over 3m commercial samples processed
- Secure Long-Term Revenue
- Unit deployments contracted out to 2025
- \$705m Total Contract Value
- Excess revenue via increased unit utilisation
- Annual Return on Invested Capital 47% 82%
- No known viable competitors

Industry Accepted Technology Displacing Traditional Fire Assay

- Non-discretionary industry spend
- Total addressable market of 610 units globally
- Used in JORC and NI43-101, ISO17025
- Ability to analyse additional elements to gold
- Exponential growth supported by pre-contracted units



Agenda

- 01 FY22 Results Highlights
- **02 FY22 Financial Summary**
- 03 Outlook
- **04 Questions**
- 05 About Chrysos





FY22 Results Highlights

FY22 results

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Strong growth ahead of Prospectus forecasts

\$14.3m

Total Revenue in FY22

- +215% growth on FY21 (+\$4.5m)
- +3.8% increase on Prospectus forecast (+\$13.7m)
- MMAP/AAC Revenue of \$13.5m
- On track to meet FY23 Prospectus target (+\$26.6m)

\$1.45m

Proforma EBITDA in FY22¹

- +\$2.2m growth on FY21 (-\$0.7m)
- 57% increase on Prospectus forecast (\$0.9m)
- Driven by lower unit costs and company expenses
- On track to meet FY23 Prospectus target (\$3.2m)

\$558m

Total Contract Value (TCV)

- +\$147m in TCV added post period (\$705m)²
- Expansion of customer base
- Improving TCV per unit
- Long-term committed revenue

\$92m

Cash position

- Operating cash-flow positive¹
- Continuing discussions with financiers for debt facility
- CAPEX of \$27m vs \$29m Prospectus forecast
- Well-funded to support PhotonAssay[™] unit growth

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Contracted units

- 23 new lease agreements signed in FY22
- 10 additional units leased post-period (total 48 units)
- Contracted unit deployment extends into 2025
- Supports manufacturing expansion to 18 units/year

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Deployed units

- 4 new units deployed in FY22
- 1 new unit deployed post-period
- Unit utilisation of 66% vs Prospectus forecast of 64%
- On track to meet FY23 Prospectus target (21 Units)

1. Proforma (excluding IPO Costs which are treated as financing activities)

2. As at 29 August 2022

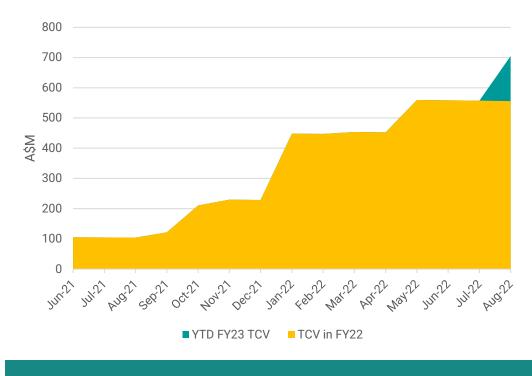
Accelerated market penetration driving Total Contract Value



New customer lease agreements expanded Chrysos' sales footprint in Africa and North America in FY22



Total Contract Value^{1, 2}



\$705m of Total Contract Value committed under existing contracts³

¹ TCV is calculated using foreign exchange rates of AUD:USD 0.73, AUD:CAD 0.94 and AUD:GBP 0.56. The USD and CAD rates are based on the average of the 3-month forward curve from Bloomberg in March 2022, per the Chrysos Prospectus and GBP rates are based on the average of the 3-month forward curve from Bloomberg in May 2022.

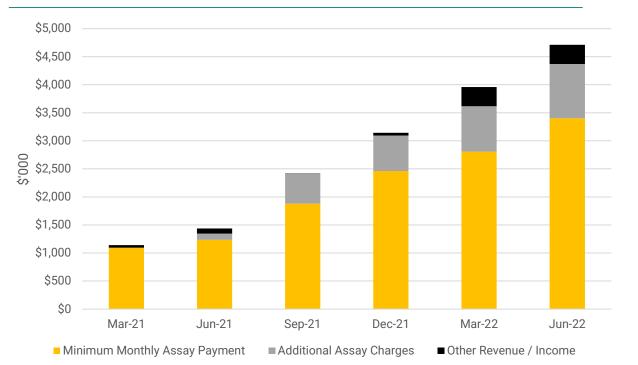
² TCV represents the future minimum contracted revenue on PhotonAssay leases (both deployed and committed) that are yet to be invoiced at a point in time, which are subject to the Company's contractual performance obligations and where the Directors consider reasonable certainty exists, may include values associated with exercise of option periods.

³ As at 29 August 2022

Revenue growth

Unit deployments plus strong and sustained utilisation is driving revenue growth

MMAP, AAC & Other Income



Growth reflects the ongoing strong performance of deployed units and the installation of additional units throughout FY22

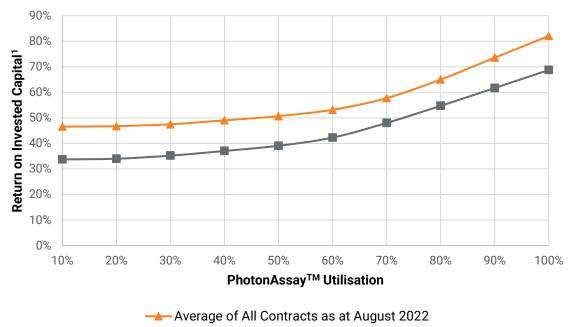
- Minimum Monthly Assay Payments (MMAP) provide sustainable, forecastable minimum revenue
 - The 11 currently deployed units¹ provide a baseline MMAP of \$1.3m per month, or \$15.6m per year
- Additional Assay Charges (AAC) are continuing to increase as a proportion of revenue, supported by high utilisation
 - AAC accounted for 22% of FY22 PhotonAssay[™] Revenue (up from 20% in FY21)
- Consumables Revenue (included in Other Revenue) reflects Chrysos' investment in supply chain security
 - During FY22, Chrysos made the decision to invest upstream into consumables supply for PhotonAssay[™]
 - Consumables Revenue is excluded from Proforma Revenue and EBITDA

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Improving unit economics in new sales

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Chrysos continues to execute larger customer agreements with improving unit economics



PhotonAssay[™] Unit Economics

¹ Return on Invested Capital (ROIC) is non-IFRS information and is calculated by the forecast annual gross profit divided by forecast capital expenditure to produce and install the unit, where the annual gross profit is calculated as the forecast annual revenue less the forecast direct costs associated with operating the unit. This information may assist forecast the growth of the Group, based on the groups growing deployment rate for PhotonAssay[™] and has not been audited by the Group's auditor. For the purposes of calculation, the company has used capital expenditure of \$3.65m and operating costs of \$0.375m, which are consistent with existing costs

- PhotonAssayTM agreements signed subsequent to the IPO have increased average minimum Return on Invested Capital (ROIC)¹ from 34% to 47%
- Additional Assay Charges related to utilisation add potential upside to Minimum Monthly Revenue of 76%
- Chrysos PhotonAssay[™] units generate excellent returns over a long estimated equipment life:
 - At 47% ROIC, a PhotonAssayTM Unit has a ~26-month payback period and generates ~\$1.75m gross profit per year
 - At 82% ROIC, a PhotonAssay[™] Unit has a ~14-month payback period and generates ~\$3.2m gross profit per year
- Chrysos' low OPEX PhotonAssayTM technology creates a sustainable, high-value revenue stream
- Clustering of units provides the opportunity to reduce operating costs and drive additional ROIC

Deployments & Utilisation

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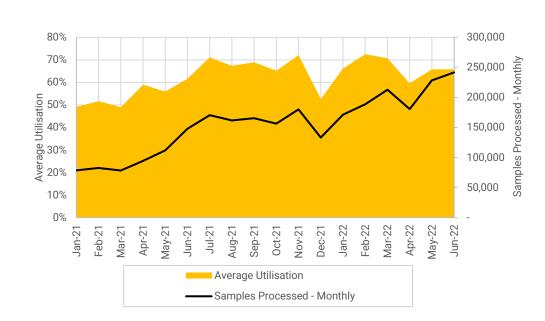
Strong and sustainable growth underpinned by long-term annuity-style recurring revenue

11 Units Deployed¹



Chrysos has grown its deployment capability to sustain three simultaneous installations

Unit Utilisation & Samples Processed in FY22



2.2m samples processed in FY22, reflecting 265% growth YoY and an average unit utilisation rate of 66%



FY22 Financial Summary

Revenue & profitability

FY22 Pro forma Results

\$'000	FY21A	FY22F Prospectus	FY22A
Revenue and other income			
Revenue	4,341	13,583	13,521
Other income	127	156	166
Total revenue	4,468	13,739	13,687
and other income	.,		
PhotonAssay [™] costs	-791	-2,130	-1,840
Gross profit	3,677	11,609	11,846
Operating expenses			
Employee benefits expense	-3,182	-8,123	-7,676 ¹
Legal fees	-176	-241	-400
Travel & marketing costs	-271	-529	-656
Admin and other expenses	-740	-1,791	-1,663 ²
Total operating expenses	-4,369	-10,684	-10,395
EBITDA	-692	925	1,452
D&A	-2,343	-3,167	-2,825
EBIT	-3,035	-2,242	-1,374
Net finance costs	-406	-692	-189
Profit before income tax	(3,441)	-2,935	-1,563
Income tax (expense)/benefit	-	-	-
Pro forma NPAT	(3,441)	-2,935	-1,563

 Includes \$114k in costs, from general and other costs which aligns employment cost versus prospectus forecast cost allocation for comparative and adds back \$850k of provision for payroll tax realised

2. Captures all other costs, adjusted for provision for expected credit loss of \$169k



Commentary

- Proforma Total Revenue is in line with Prospects forecast and excludes consumables income which is included in Statutory Total Revenue
- PhotonAssayTM costs 14% below Prospectus forecast due to better performance and emerging evidence of clustering impact of Australian units
- Proforma EBITDA \$1.45m is 57% ahead of Prospectus forecast
- Employee expenses were 6% below Prospectus forecast primarily due to the timing of employment hires
- Legal costs 66% higher than Prospectus forecast attributable to additional investment into new and increased IP protections
- Travel and Marketing costs were 24% above Prospectus forecast due increased investment in expanding PhotonAssay[™] application

Cash flow summary

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Chrysos is operationally cash-flow positive

Pro forma historical and forecast cash flow summary

\$000's	FY21A	FY22F Prospectus	FY22A
EBITDA	-692	925	1,452
Non-cash items	575	771	548
Changes in working capital	-344	167	-1,037
Operating cash flows	-461	1,863	962
Sustaining capital expenditure	-477	-3,312	-2,166
Growth capital expenditure	-6,622	-24,757	-23,349
Capitalised R&D	-973	-1,405	-1,561
Total capital expenditure	-8,073	-29,474	-27,076
Free cash flow before financing and dividends	-8,534	-27,611	-26,114

Commentary

- Positive operating cash flow of \$962k is below Prospectus forecast due to a build in working capital which was largely attributable to year end timing differences in cash collection
- Leasing model requires significant up-front CAPEX as the unit is manufactured and deployed and becomes chargeable to the client, after which highly predictable cash flow is generated over the life of the lease
- Growth CAPEX in the period primarily relates to new PhotonAssayTM units, with a small amount for infrastructure to support global business platform (office, technology, motor vehicles etc)
- Sustaining CAPEX largely relates to spare parts, testing and R&D equipment. As Chrysos continues to grow, spare parts will comprise the largest item of sustaining expenditure
- Chrysos is well progressed in discussions with financiers for an expanded debt facility and remains confident of a material increase in borrowing facilities

Reconciliation to statutory accounts

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P&L Reconciliation

	Pro forma	Statutory
\$'000	FY22A	FY22A
Revenue and other income		
Revenue	13,521	13521
Other income/consumables	166	737
Total revenue and other income	13,687	14,258
Maintenance + consumables	-1,840	-2,382
Gross profit	11,846	11,876
Operating expenses		
Employee benefits expense	-7,676	-6,712
Legal fees	-400	-400
Travel & marketing costs	-656	-656
Admin & other expenses	-1,663	-1,946
Total operating expenses	-10,395	-9,714
EBITDA	1,452	2,162
D&A	-2,825	-2,825
EBIT	-1,374	-663
Net finance costs	-189	-1905
Profit before income tax	-1,563	-2,568
Income tax (expense)/benefit		-1370
NPAT	-1,563	-3,938

Cash Flow Reconciliation

	Dro formo	Statutory
	Pro forma	Statutory
\$000's	FY22A	FY22A
EBITDA	1,452	2162
Non-cash items	548	-302
Changes in working capital	-1,037	-1037
Operating cash flows	962	823
Sustaining capital expenditure	-2,166	-2,166
Growth capital expenditure	-23,349	-23,349
Capitalised R&D	-1,561	-1,561
Total capital expenditure	-27,076	-27,076
Free cash flow before financing and dividends	-26,114	-26,253

Commentary

P&L

- Statutory other income includes \$571k of consumable revenue which is excluded from Proforma, but accounts for the 3.8% increase over Prospectus forecast
- Statutory PhotonAssayTM costs include \$542k of consumable costs which are excluded from Proforma operating expenses
- Statutory Employee benefits expense reflects the positive impact of a \$850k release of payroll tax provision (based on fair value of the employee share scheme payroll tax liability at balance date)
- Statutory Other expenses were \$169k higher as a result of creation of a provision for expected credit loss, while no concerns exist on current debtors
- Statutory Net finance costs of \$1,716k were excluded from proforma results due to cost of capital raising (series C and IPO)

Cash Flow

 Statutory Non-cash items are \$850k less than forecast as a result of the non-cash employment provision, stated above

Balance sheet

Strong balance sheet provides a solid platform to accelerate growth

\$000's	FY21	FY22
Assets		
Cash and cash equivalents	5,768	92,104
Trade and other receivables	1,024	5,782
Other current assets (incl prepayments)	3,120	6,822
Non-current assets	19,600	39,378
Total Assets	29,512	144,086
Liabilities		
Trade & other payables	7,706	10,098
Other current liabilities	2,261	2,706
Loans and Borrowings	-	4,900
Other non-current liabilities	5,317	4,064
Total liabilities	15,284	21,768
Net Assets	14,228	122,318
Equity		
Issued capital	24,081	135,725
Accumulated losses	(10,589)	(14,527)
Share-based payment reserve	736	1,120
Total Equity	14,228	122,318

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Commentary

- Highly liquid balance sheet with significant cash to fund growth into FY23 and beyond
- Growth in Trade receivables reflects an increase in deployed units with monthly billing. A significant proportion of this can be attributed to invoicing timing, based on implementation of appropriate global corporate structures during the financial period
- Non-current assets includes \$27.9m of income generating deployed PhotonAssay[™]units and \$9.3m of WIP units
- Movements in Traded Payables and other Current Liabilities are in line with growth expectations
- Chrysos is well progressed in discussions with financiers for an expanded debt facility and remains confident of a material increase in borrowing facilities
- Issued capital reflective of Series C and IPO capital raising activities



Outlook

Chrysos is well positioned to continue accelerating its global growth

- Growth momentum set to continue in FY23
- On track to meet FY23 Prospectus targets:
 - Total Revenue: \$26.6m
 - EBITDA: \$3.2m
 - 21 deployed units
- Expansion of customer base and improving TCV per unit with long-term committed revenue to underpin forecasts
- Improving ROIC from upcoming deployments as unit revenue increases and costs decrease due to unit clustering
- Contracted unit deployments extend into 2025
- Manufacturing expansion set to increase to 18 units/year
- Well-funded with \$92m cash in bank to support PhotonAssayTM unit growth
- Continuing discussions with financiers for debt facility to support further growth





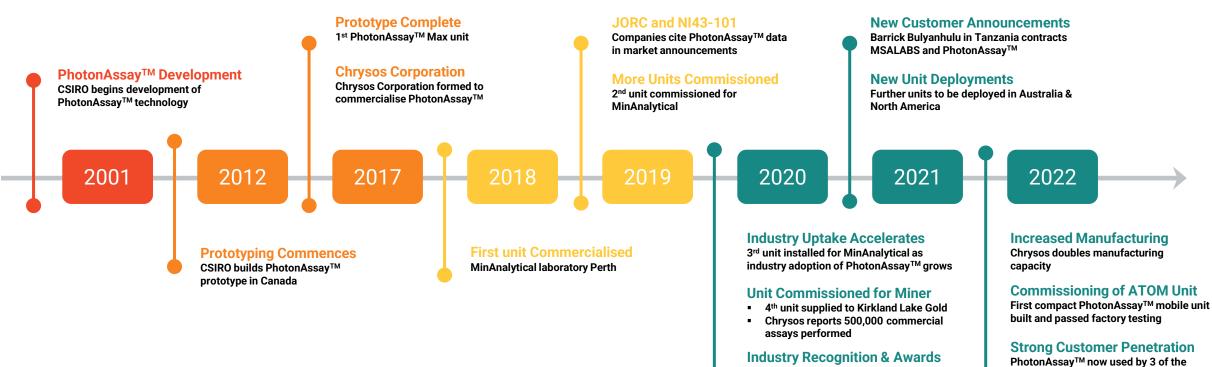


About Chrysos

Our commercialisation journey

The outcome of 20+ years of research and development





- SA Premier's Award for Energy & Mining – productivity Improvement category
- KCA Award for Best Research Commercialisation

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top 4 global laboratory services

providers (ALS, Intertek and SGS)

The Chrysos Vision

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To become the world's leading provider of innovative assay services and technologies



Market Challenge:

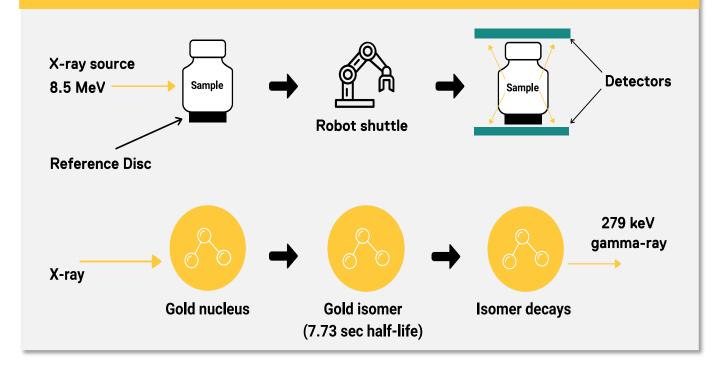
Traditional assay techniques are slow, labour intensive, complex, destructive to the assay sample, and involve dangerously high temperatures and toxic chemicals that are hazardous to both operators and the environment.



The Solution: Chrysos PhotonAssay™

- ✓ Provides faster and more accurate assaying
- ✓ Allows real-time delivery of information to support agile decision making
- Rapid decision making helps to improve operational efficiency, recovery and profitability
- Removes hazardous chemicals from the assay process protecting operators and reducing emissions
- ✓ Is non-destructive allowing for repeat testing and comparative analysis
- ✓ The process is **largely automated**, reducing labour requirements and the chance of human error

Fully-quantitative analysis in as little as 2 minutes!



PhotonAssay[™] technology

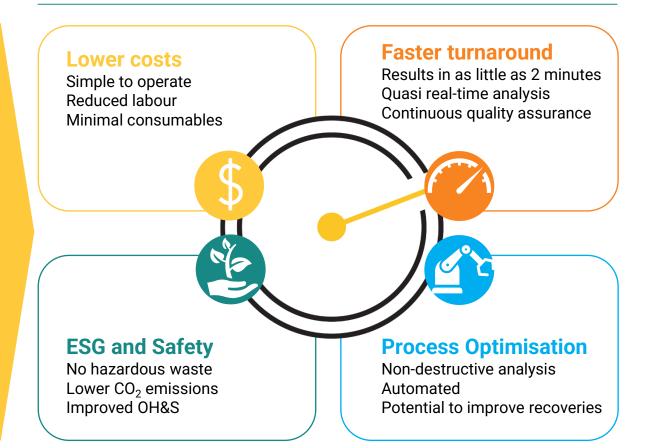
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Best in class gold assaying with measurable benefits over traditionally used methods

PhotonAssay[™] vs. Traditional Fire Assay¹

	Fire Assay	PhotonAssay [™]
Time per sample ²	~3-4 hours	~2-3 minutes 🗸
Sample size	10-50 grams	250-650 grams
CO ₂ per sample	0.91kg	0.455kg 🗸
Hazardous waste per sample	0.31kg	0kg 🗸
Energy use per sample ³	1.3kWh	0.65kWh 🗸
Automation	×	\checkmark

PhotonAssay[™] value proposition



1. Comparison of PhotonAssay[™] and fire assay per Frost & Sullivan industry report

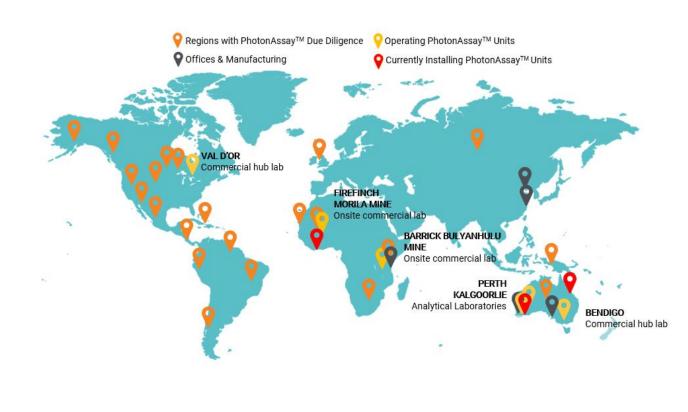
2. Fire assay shown based on the minimum processing time. 24-hours is generally considered rapid turn-around time in practice.

3. Assumes same electricity source is used

Large & unpenetrated TAM

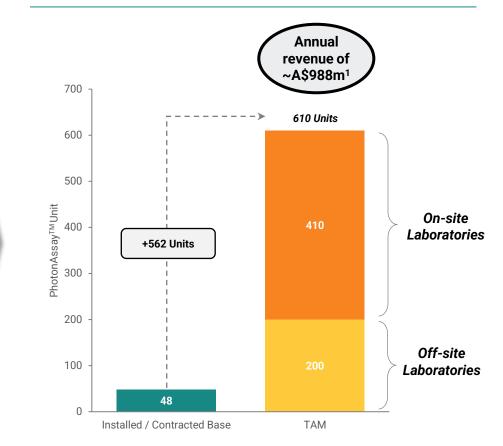
Assay expenditure is a non-discretionary operating cost

Existing PhotonAssay[™] Reach



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TAM for PhotonAssay[™] Units



Delivering tangible benefits for miners

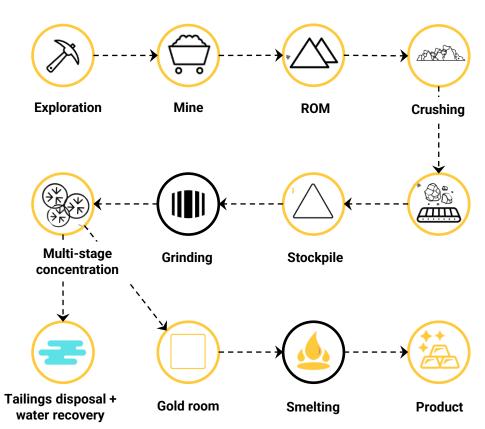


PhotonAssay[™] enables timely decision making and additional gold recovery

The opportunity...

PhotonAssay[™] is embedded in the mining value chain

- Each year global miners are estimated to lose >\$2.0 billion worth of recoverable gold
- PhotonAssayTM provides miners with access to real-time data, helping to improve decision making through the value chain
- Enabling the optimisation of processes to generate potential productivity gains



PhotonAssay [™] Value Add		
Exploration Mine	Fast turnaround for mine planning and scheduling in-pit	
ROM Crushing	Assay-supported blending between pit & processing	
Stockpile	Stockpile sampling & optimised gold recovery	
Multi-stage concentration	Reduction in process reagents & consumables	
Tailings + Water recovery	Tailings grade monitoring	
Gold room	All samples retained for QA/QC	
Product	Buyer / seller assays	



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An environmentally-friendly solution

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Substantially better for the environment and significantly safer than fire assay

PhotonAssay[™] has a substantial **positive environmental impact** that will continue to grow in tandem with the uptake of the technology

- ✓ PhotonAssay[™] reduces CO₂ emissions and eliminates leadcontaminated waste
- ✓ Quantifiable benefit
 - 0.455kg of CO₂ reduced per sample (compared to fire assay)
 - 0.31kg of hazardous lead-contaminated waste reduced per sample (compared to fire assay)
- Improved OH&S through the elimination of hazardous chemicals, lead exposure, and ultra-high temperatures used in conventional fire assay
 - Fire assayers require routine blood tests to confirm acceptable levels of lead
 - Fire assayers are routinely rotated through other laboratory tasks to prevent a build-up of lead

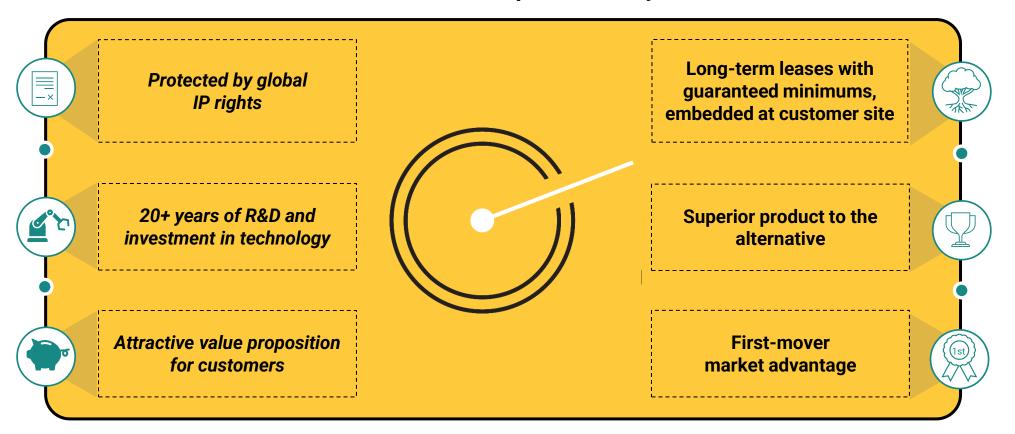
LIKE TO TREAD MORE LIGHTLY ON THE PLANET?

Every sample analysed with PhotonAssay means reduced CO2 emissions and less hazardous waste.

Image: Non-State State St

High barriers to entry

High barriers to entry supported by global IP rights



Barriers to competitive entry

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Clear growth pathway

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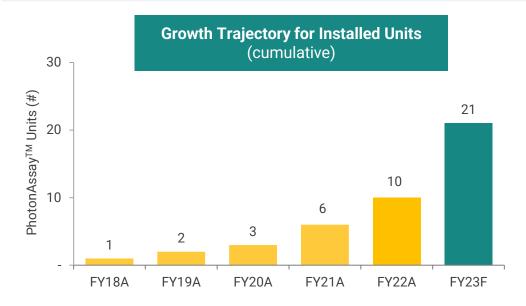
Clear organic growth plan with potential to expand TAM through additional commodities

Business development pipeline

Global networks of laboratories

Intertek ALS SGS MSALABS

- PhotonAssay[™] unit commitments extend out to 2025
- Existing customers offer additional deployment opportunities



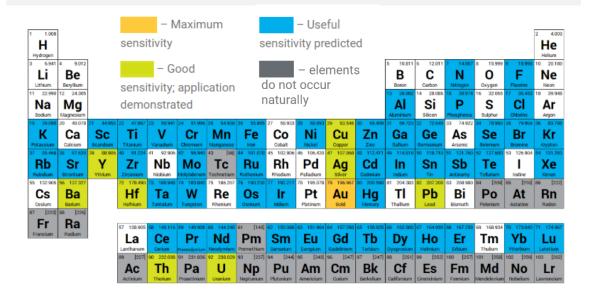
Multi-commodity assaying

Potential to expand TAM

- Base metals
- Energy metals
- Electronics recycling

Potential to increase profitability

- Add-on analyses
- Concurrent moisture



Experienced leadership team

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Supported by a well respected and tenured board

Senior leadership team



Dirk Treasure Founding CEO & Managing Director

- Metallurgist with a background in both technical and commercial mining aspects spanning 15 years in the industry
- 7 years in novel metallurgical process development and commercialisation prior to becoming Chrysos' founding CEO

Board of Directors



Rob Adamson

Founder & Chairman

- 20+ years' experience in mining and finance
- Executive Chairman of RFC Ambrian

Kerry Gleeson

Director

- Experienced executive and nonexecutive director in mining and associated industries
- Qualified Australian and English Lawyer: M&A, debt & equity funding & commercialising technology



Brett Coventry Chief Financial Officer

- Experienced in taking high growth technology start-ups from inception through to maturity
- 20 years in various roles encompassing international expansion, capital raising and listing through IPO



Brett Boynton Founding Director

- Co-founder of AI data analytics business and founder of London listed gold exploration technology co.
- 20+ years' investment banking experience in London, New York, Sydney



Eric Ford Director

40 years of strategic, management, commercial, operating and engineering experience in resources and energy



Ivan Mellado

Founding Director

- 20 years' experience in technology commercialisation and development ventures
- Business and Law qualifications; experienced executive and NED

Thank you

For more information, please visit chrysos.com.au or contact us at investors@chrysos.com.au

