



Faster, more accurate **gold** analysis

2025 AGM Presentation

24 November 2025

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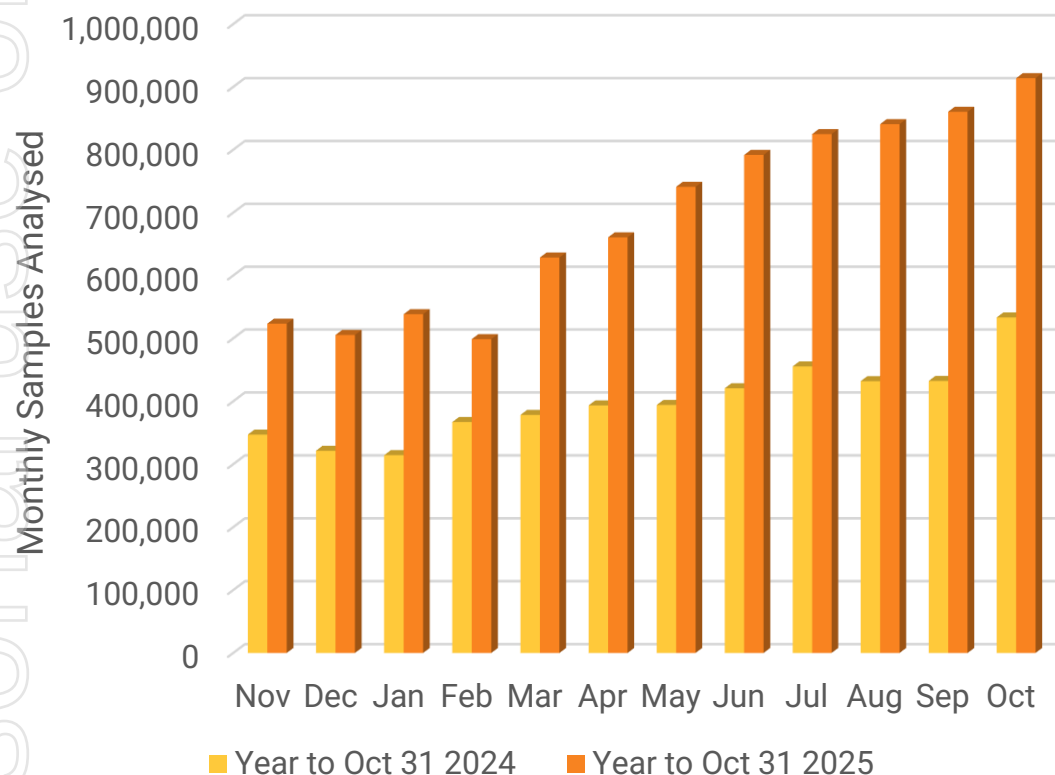
Trading Update

Dirk Treasure

PhotonAssay™ sample volumes

Continued conversion to PhotonAssay™ and industry activity driving samples

YTD PhotonAssay™ Samples Analysed



Activity Commentary

- Sustained PhotonAssay™ demand with volumes approaching 1,000,000 samples per month
- Increased monthly throughput with growth consistently between +50-100% YoY
- Industry outlook remains positive - supported by a strong gold price, exploration activity and production outlook

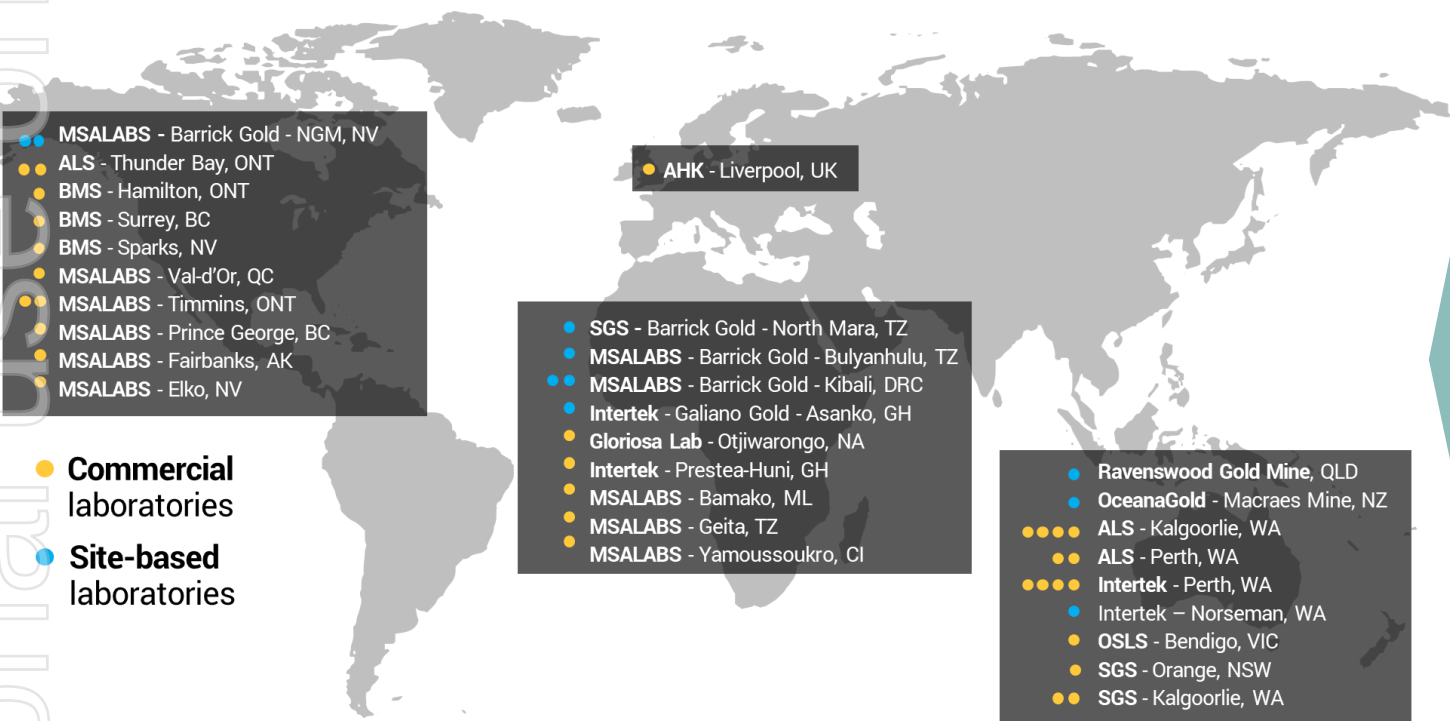
Unaudited Revenue

- YTD revenue of \$28.9m¹, comprising \$21.2m MMAP and \$7.6m AAC
- Additional assay charges (AAC) now represent 26.4% of revenue, up from 15.3% in FY25
- Record sample volumes remain a key revenue driver

Executing on our global PhotonAssay™ roll out

Strengthening relationships with key miners and laboratories

41 Units Deployed



YTD Activity (as at 24th Nov 2025)

- **41 PhotonAssay™ Units operating:**
 - Two units deployed in FY26
 - Second at Thunder Bay, Ontario for ALS
 - Pantoro's Norseman gold mine in WA with Intertek
 - MSA Ghana unit at end of lease and will be redeployed
- **Two units currently being deployed**
 - SGS, Perth, deploying the new "XN" generation unit
 - ALS, Perth, deploying its 7th unit in WA
- **Two new lease agreements**
 - ALS, Perth
 - Acrux Gold, Scotland
- **Four upcoming installations**, highlighting strong global demand and continued diversified customer growth
 - Newmont's Ahafo Mine, Ghana
 - First unit for Bureau Veritas in Chile
 - MSA unit in Newfoundland, Canada
 - Allied Gold's Sadiola mine, West Africa
- **MoU signed with Allied Gold for adoption** of PhotonAssay™, with two units to be deployed directly to its sites, and the remainder of samples to be processed through PhotonAssay hub laboratories

PhotonAssay™ units on four continents in key mining hubs

Financial highlights

Record sample volumes continue to underpin revenue



FY26 Guidance

- Reiterated FY26 guidance¹ of:
 - FY26 Total Revenue range of \$80m to \$90m
 - FY26 EBITDA range of \$20m to \$27m

Cash & Debt Position

- Cash on hand \$26.7m²
- \$95m debt facility from CBA, of which \$46.0m² has been drawn
- Well-funded to support PhotonAssay™ unit growth

1. Constant currency assumptions (AUD:USD 0.639 AUD:CAD 0.884, AUD:GBP 0.479 AUD:NZD 1.079)
2. Unaudited as at 31 October 2025



Research & Development Roadmap

James Tickner

Research and Development Drivers

Advancing capability to enable sustainable growth

Quality and Resilience

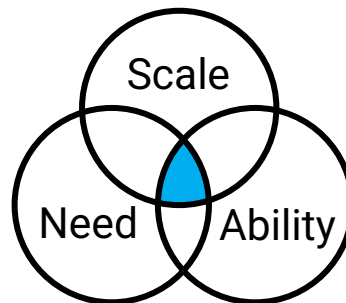
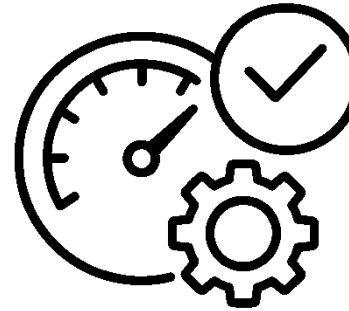
Supply chain resilience ensures providers are available for all critical components which cannot be produced in-house. Chrysos maintains practical ownership of its IP and the ability to freely build and support its equipment.

Performance delivery means Chrysos units continuously provide high-quality results that meet or exceed customer expectations. Data are fit-for-purpose and support miners meeting JORC or NI-43101 reporting obligations.

Reliability improvements mean instruments are always available when needed. Spare parts, maintenance and support staff requirements are minimised.

Ease-of-use units are straightforward to operate with minimal training. As far as possible, the quality of results should not depend on operator skill.

Continuing to develop our ability to independently manufacture, install and support units is critical to Chrysos' long-term growth



New opportunities must meet thresholds of scale, industry need and Chrysos' ability to deliver a unique solution

Broaden the Offering

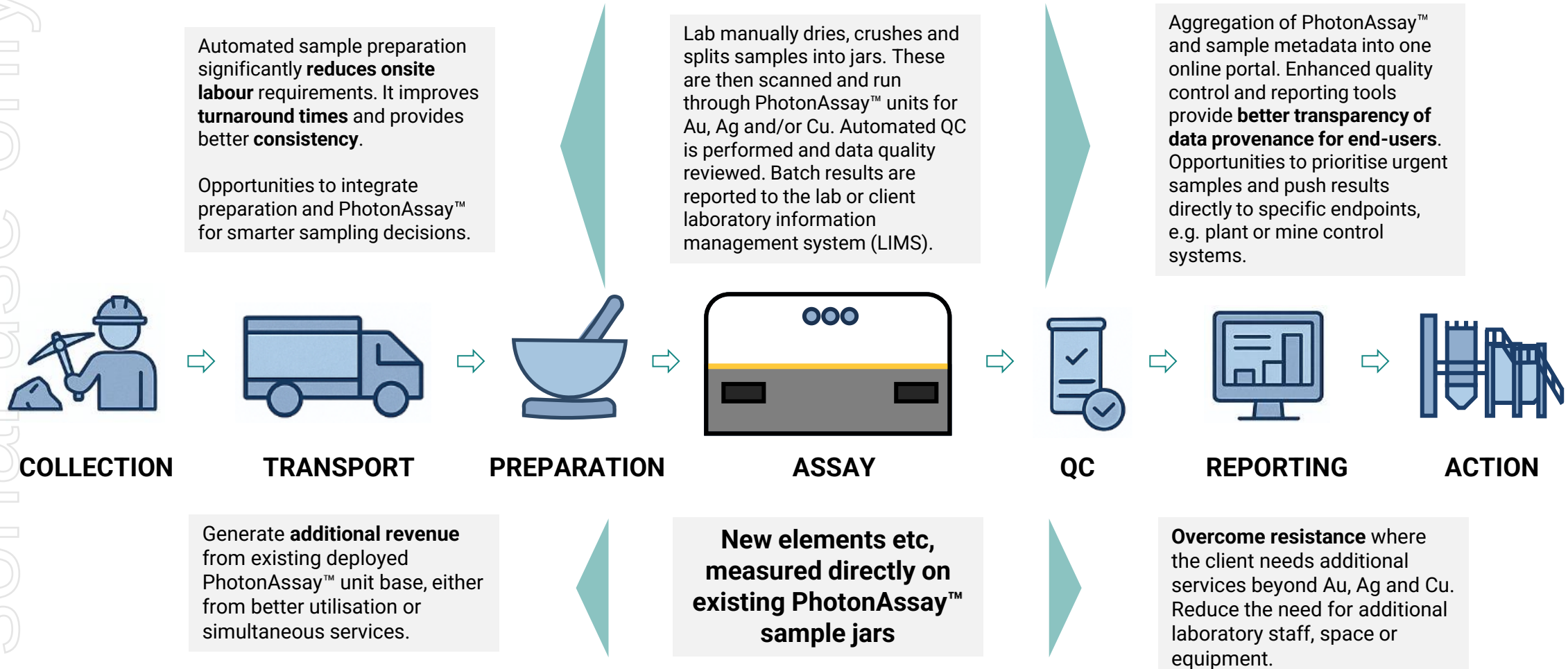
New PhotonAssay™ services allow more to be done with existing units, often with no more than a software upgrade. New services include assaying a wider range of elements, or existing elements in different materials or matrices.

New technologies expand our analysis capabilities beyond PhotonAssay™, adding options for new elements or other material properties such as mineralogy or density. Preferred technologies build on Chrysos' strength of bulk analysis of large, unprepared samples.

Expanding up- and down-stream makes PhotonAssay™ a more compelling offering by reducing bottlenecks in sample preparation, data quality control and reporting. Provision of a more end-to-end service is especially relevant for mine-site installations.

Expanding Footprint in the Mining Data Chain

Delivering faster and more reliable analysis results for more materials

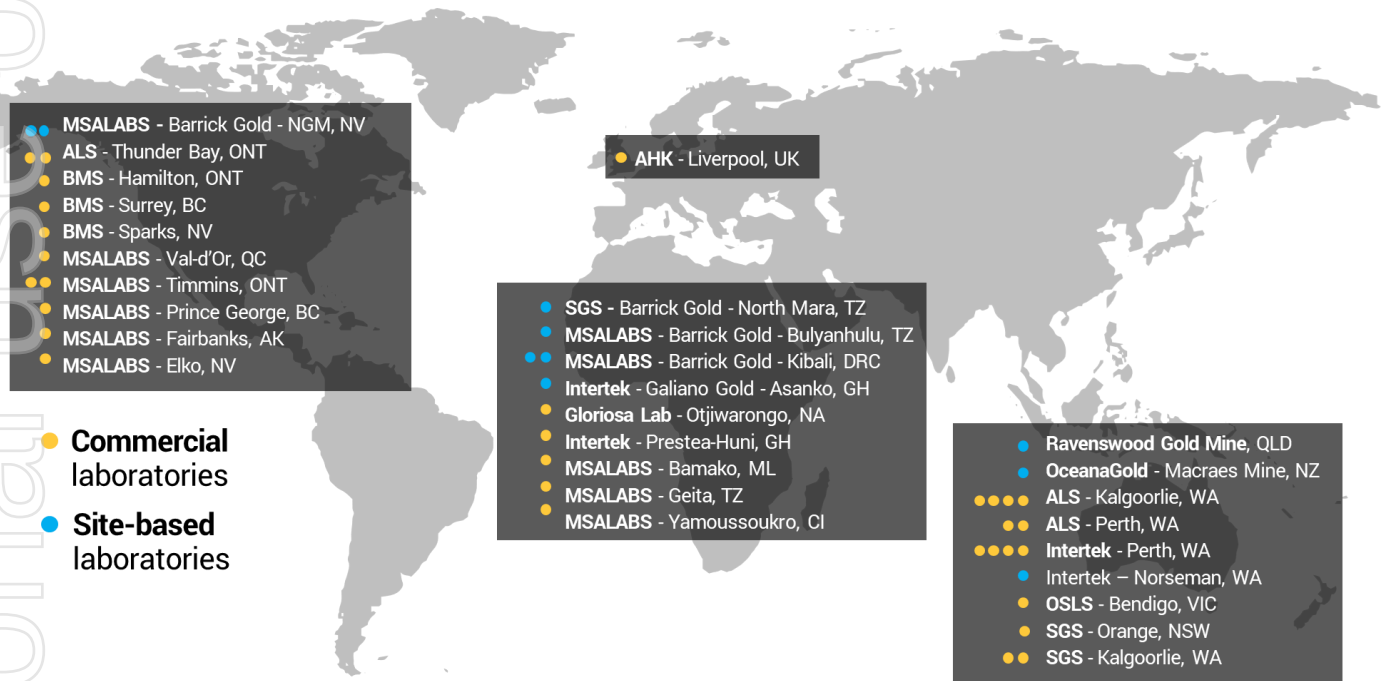


PhotonAssay™ - The Next Generation

Improving quality, resilience and performance

41 Units Deployed

(at 24 November 2025)



Generation 2 – parallel supply chains

XC units target the North American market including the US, Canada and Mexico. They include US-made X-ray sources and detectors and Australian-sourced automation and shielding components. Other components are wholly designed and sourced by the Chrysos team.

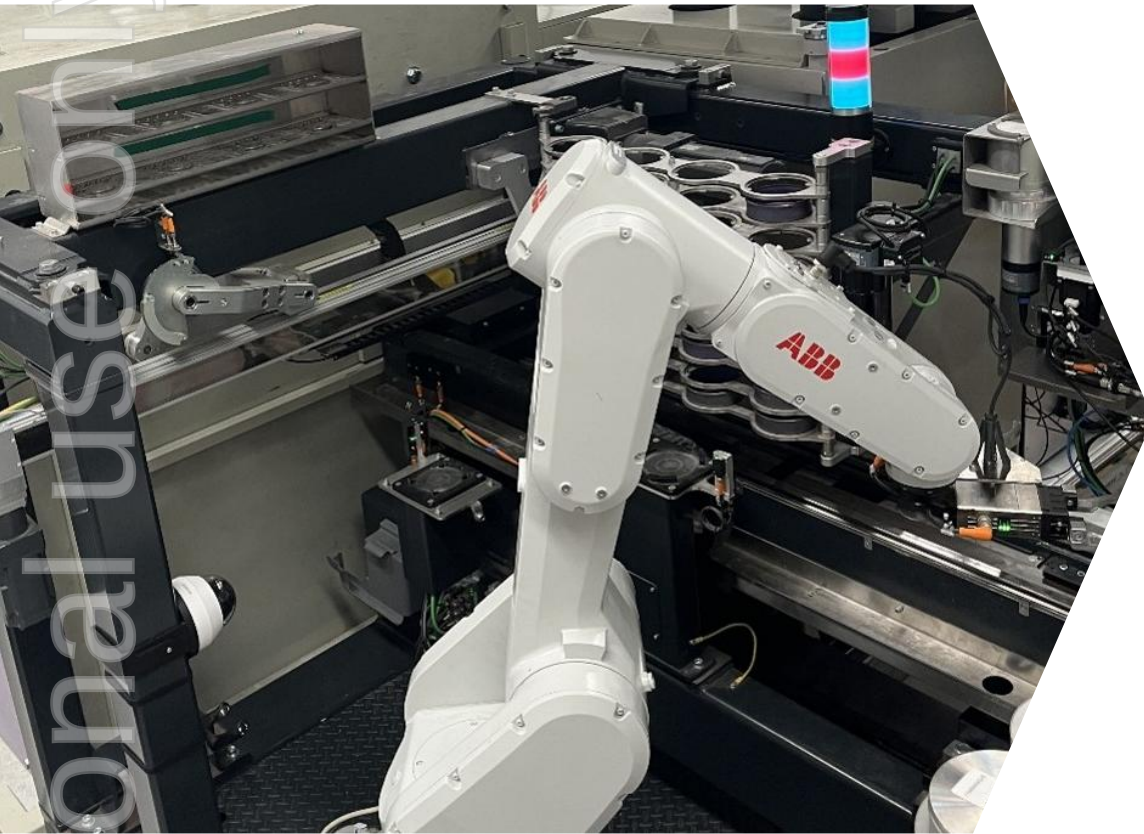
XN units are manufactured in partnership with our existing supplier, Nuctech Technology Ltd. They include upgraded versions of the X-ray source, a wholly new automation system and a smaller footprint.

Robotic automation used in both systems is a substantial upgrade on the Gen-1 units, designed for higher reliability and availability. It offers more flexible operation and higher sample throughput.

Ease-of-use is improved by internalising several operator functions, including sample mass and fill registration, instrument calibration, standard insertion for performance monitoring and handling of naturally radioactive samples.

PhotonAssay™ - XC

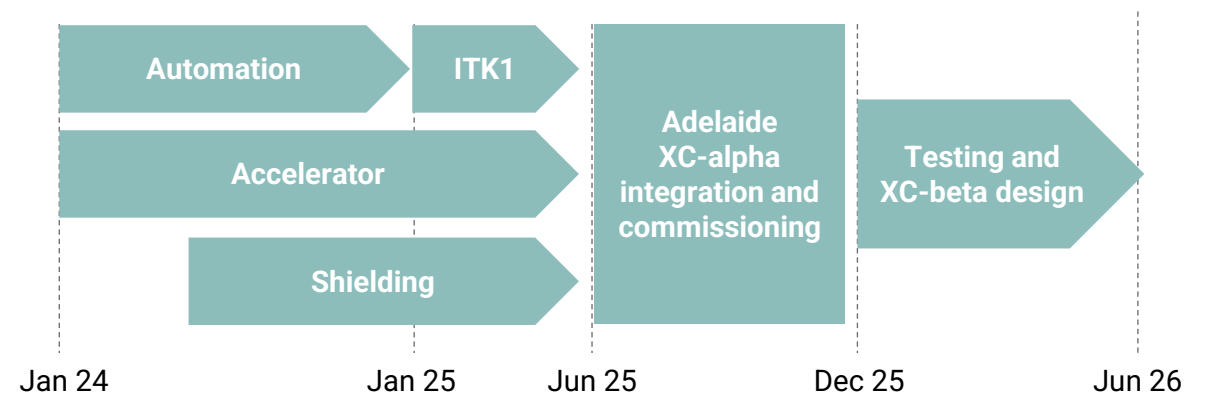
The Aussie contender



Automation redesign undertaken in partnership with Australian companies SAGE and Automation Innovation. High-performance robot executes majority of sample handling, providing flexibility to reprogram operations and add additional analysis stages. Installed as an upgrade to ITK1 unit and operating successfully in Perth since May 2025. Throughput increased to 83-84 jars per hour.

X-ray source (accelerator) developed for Chrysos by the US company Accelerad. Modular design with many key components available 'off the shelf' from commercial vendors. Training provided for Chrysos staff to install and maintain accelerators around the world.

Shielding sees supply chain decoupled from Chinese manufacturers.



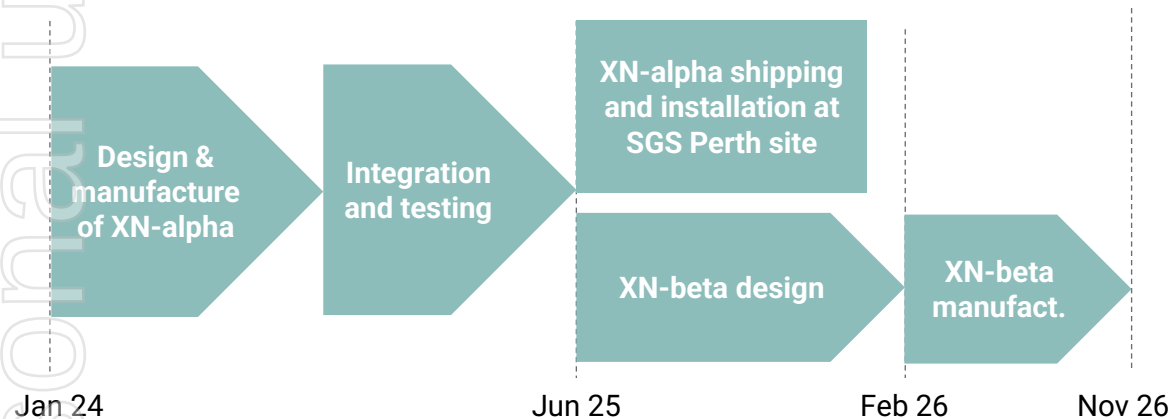
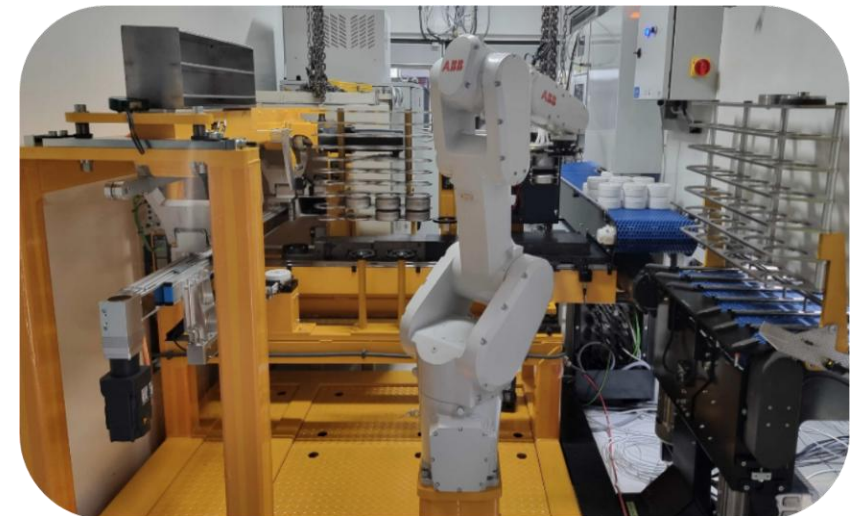
PhotonAssay™ - XN

Continuing the Nuctech partnership

Shared automation design with XC, building on the successful operating experience with the first prototype. Manufacture will be transferred to China for more efficient integration with Nuctech's supply chain.

Cabins have been redesigned to significantly reduce footprint and the required facility height, with the aim of making it easier to find existing buildings to accommodate new units.

Shielding redesigned for easier, faster and safer installation. Splitting accelerator cabin into two parts allows for shipping and onsite setup without removing heavy shielding blocks.



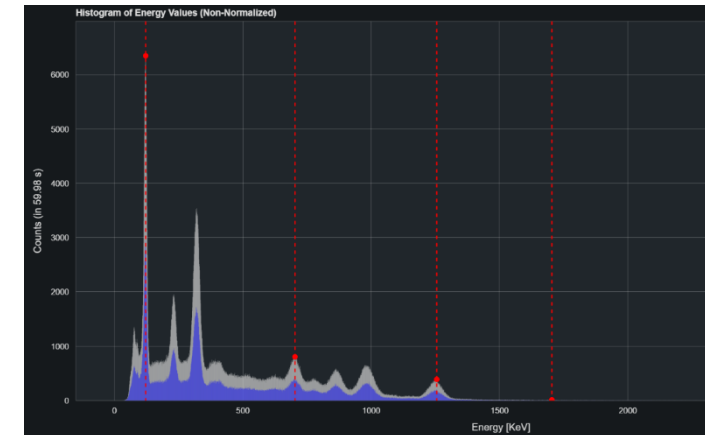
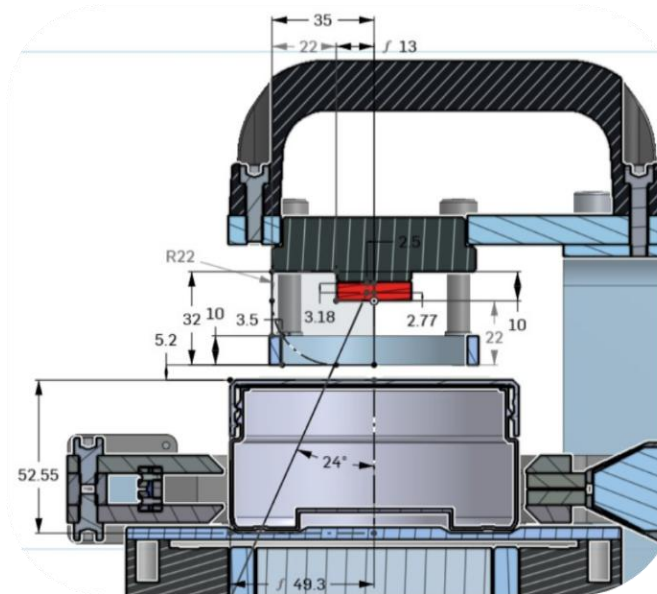
RAFT – Rapid Analysis of Fill & Transmission

Improving ease-of-use and data quality

FACT

Jar fill level and gamma-ray transmission are important parameters needed for accurate analysis of gold and other elements

- Several parameters, including sample mass, jar fill level and how easily radiation passes through the sample material ('gamma-ray transmission'), are inputs into the calibration algorithm
- The jar fill level is currently measured by the operator using an optical camera system. This requires careful attenuation and can be affected by dusty or dirty jars and particularly light or dark sample materials
- Accurate knowledge of gamma-ray transmission is particularly important for certain elements. This factor currently dominates the analysis precision for silver, for example.
- The RAFT project overcomes both these limitations, determining the jar fill using an X-ray scan and directly measuring radiation absorption using a small radioisotope source
- RAFT will be included as standard in XC and XN units, and has been designed as a retrofittable upgrade for existing Generation 1 units
- Result: easier process for users, 3-4× better jar fill and gamma-ray transmission measurements and more accurate assay results



Broadening the Offering

Moving beyond gold, silver and copper; making life easier on-site

Doing more with standard PhotonAssay™

- PhotonAssay™ systems were always designed to be inherently software-upgradeable
- Changing the operating conditions of the X-ray source allows a wide range of elements to be excited
- The high-resolution detector system allows emissions from these elements to be distinguished and counted
- Upgrading the analysis software and internal corrections tables allows new elements to be assayed and reported

Modifying PhotonAssay™ for new elements

- Neutron activation analysis (NAA) is a powerful complement to PhotonAssay™
- NAA enables the analysis of many elements that are not accessible to PhotonAssay™
- Analysis can potentially be performed using existing X-ray source and detector systems
- Concepts for a combined PhotonAssay™/NAA system are under development

New assay technologies

- Take advantage on work already done to obtain, label and prepare samples for PhotonAssay™
- Focus on technologies that provide complementary analysis capabilities
- Measurements performed on bulk, minimally prepared samples in existing jars
- Current focus on X-ray fluorescence (XRF) analysis, already widely used and accepted in minerals industry
- Additional technologies planned in the future

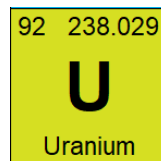
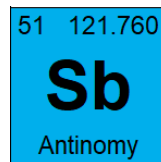
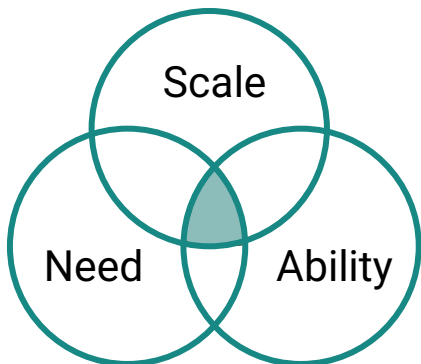
Automated sample preparation

- With labour savings realised from elimination of fire-assay, sample preparation is major driver of onsite manpower requirements
- Sample preparation requirements for PhotonAssay™ are a good match for emerging automated technologies

New elements with standard PhotonAssay™

Unlocking further market opportunities

- Measurement via PhotonAssay™ requires an element to have a suitable activation reaction with a short half-life and distinctive emission signature
- About half the elements in the periodic table meet these basic requirements
- Changing the energy and duration of the X-ray activation phase can target specific elements or element combinations
- Two applications under active development are analysis of antimony (Sb) and uranium (U)
- Applications must always meet basic requirements of market scale, industry need and PhotonAssay™ performance



Stibnite, a major ore source of antimony¹

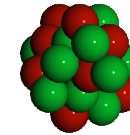


Uraninite, a significant ore source of uranium¹

Neutron analysis using PhotonAssay™ units

Broadening our element coverage

- **Neutrons** are emitted as a by-product from the X-ray source in a PhotonAssay™ unit
- **Current instrument design** minimises their production, but there are opportunities to modify the source design to rapidly 'tune' neutron production
- **Computer modelling** is being used to optimise instrument design and calculate likely performance for different elements
- **Experimental testing** planned for coming calendar year
- **Applications** to many critical, commodity and penalty elements



FACT

Neutrons are one of the constituents of atomic nuclei, the other being protons. Being uncharged, neutrons penetrate solid samples easily and are well suited to bulk analysis

Critical minerals

- Scandium
- Vanadium
- Manganese
- Antimony

Penalty/deleterious elements

- Fluorine
- Arsenic
- Sulphur

Rock-forming elements

- Silicon
- Aluminium
- Calcium
- Iron etc

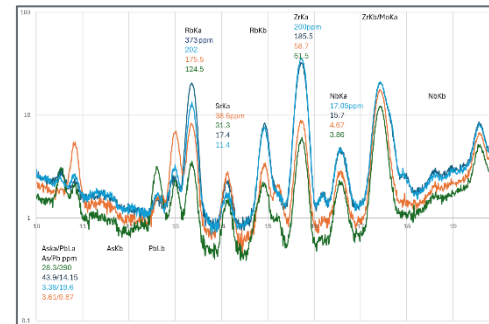
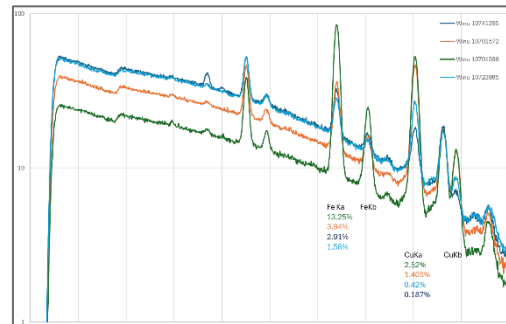
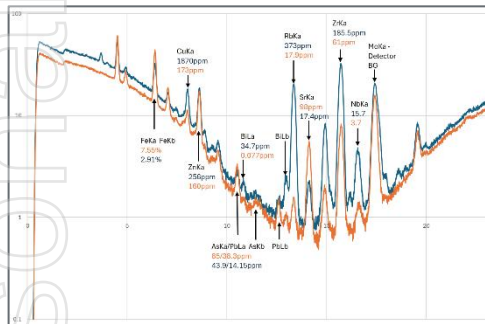
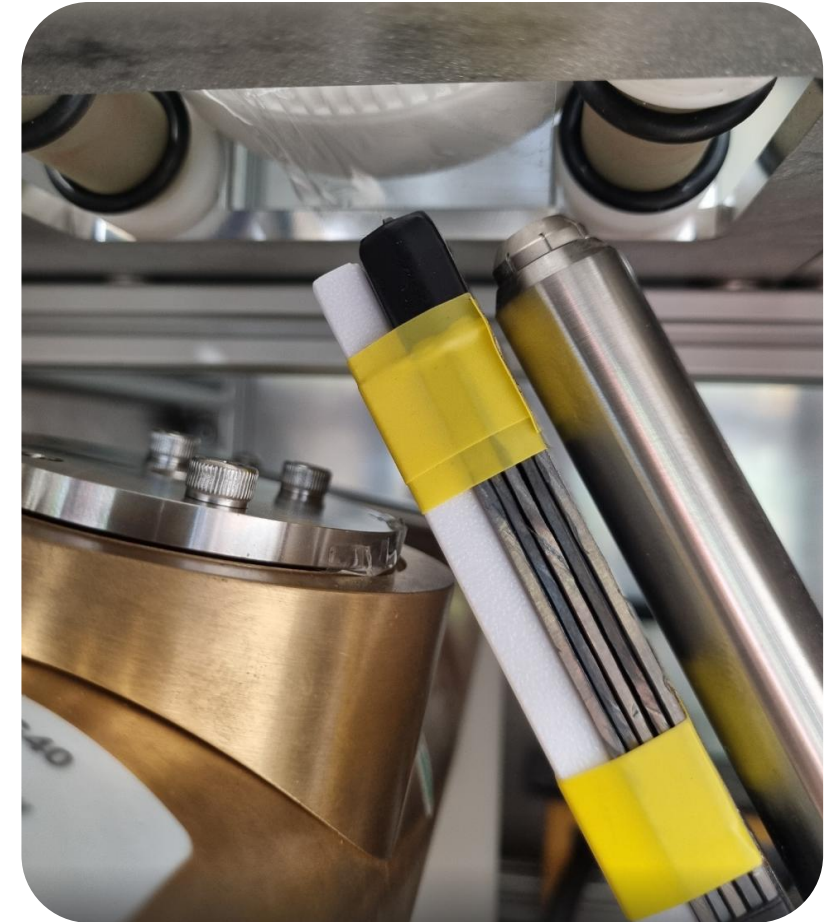
Commodity elements

- Aluminium
- Titanium
- Tin
- Rare earths

New technologies – X-ray Fluorescence

Fast, low-cost supplement to PhotonAssay™

- Widely deployed technology for multi-element analysis
- Accurate, quantitative lab applications require careful and extensive sample preparation – typically fusion – due to significant matrix and particle size effects
- ‘Low-prep’ approaches such as portable XRF (pXRF) typically provide only semi-quantitative data, but there is growing interest in performing semi-automated pXRF as a fast, low-cost adjunct analysis in laboratory settings
- Chrysos is exploring targeted XRF performed directly on samples inside PhotonAssay™ jars. The team has significant R&D experience in on-stream XRF analysis of mineral slurries and similarly ‘unprepared’ materials
- Equipment would be installed inside PhotonAssay™ units and operate in parallel without reducing overall sample throughput or analysis time
- Opportunities to combine PhotonAssay™ and XRF data to improve calibration performance



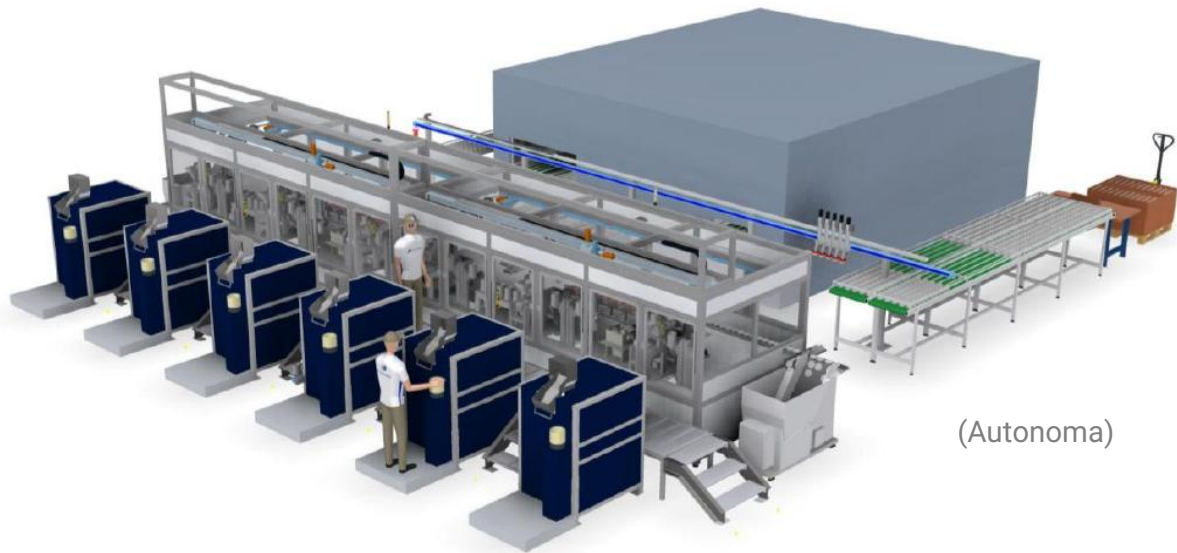
Automated Sample Preparation

Towards a fully automated on-site laboratory

- Several industrial automation specialist providers have developed automated sample preparation solutions specifically targeted at PhotonAssay™
- Typically, these include manual loading of sample bags by operators, followed by automated crushing, splitting, jarring and weighing
- Samples can then be automatically conveyed to PhotonAssay™ unit for analysis and reporting
- Parallel installations are currently planned or underway at client sites in North America and Australia

Action	Fire-assay	PhotonAssay™
Sample receipt	2	2
Sample prep	8	4
Assay	7	3
Lab finish	7	
Admin/QC	3	3

Staffing for lab, 1500 samples/day (manual prep)



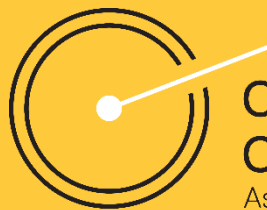
Long-term IP strength is about
momentum, not position



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