

## PhotonAssay

**Delivering faster, safer, and more accurate gold, silver and copper analysis.**



**PhotonAssay is a groundbreaking x-ray assay technology providing more accurate analysis results in hours, not days or weeks. It is an environmentally friendly alternative to fire assay on-site and in the laboratory.**

Hitting samples with high-energy X-rays, Chrysos PhotonAssay causes excitation of atomic nuclei allowing enhanced analysis of gold, silver and complementary elements.

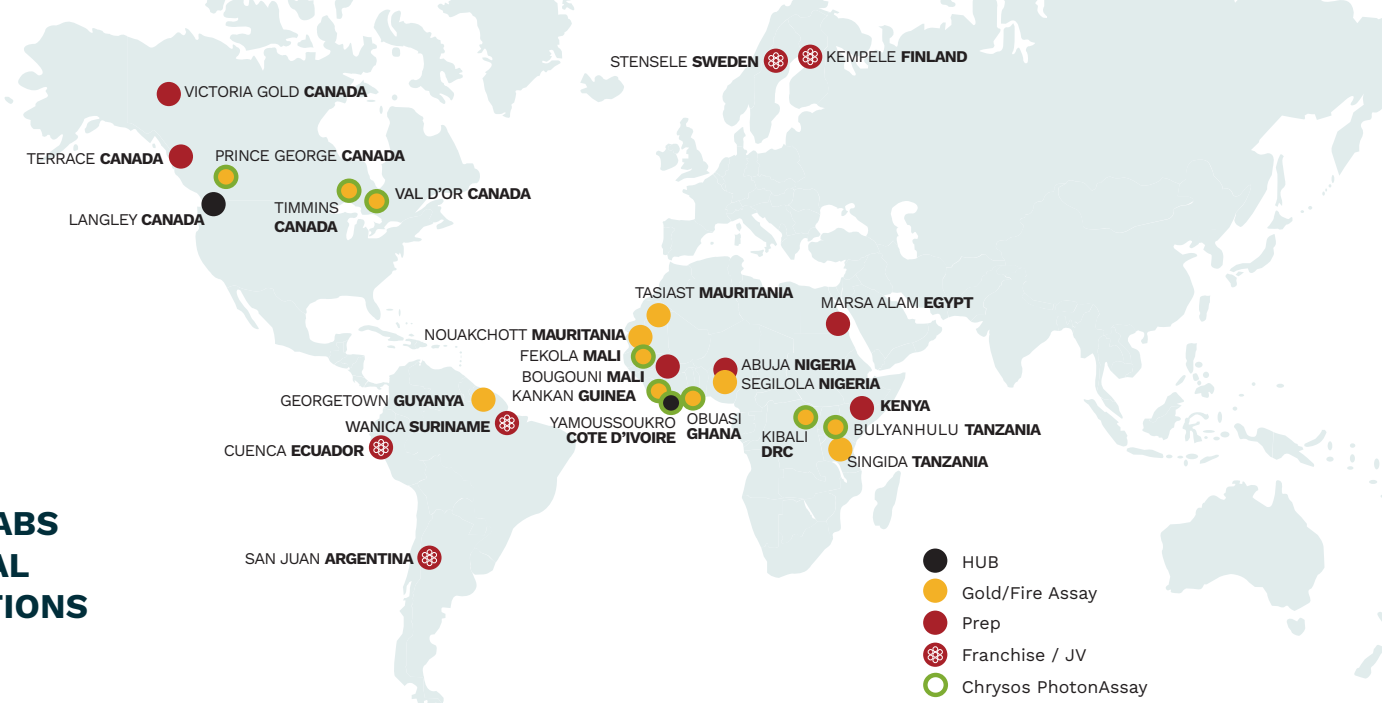
PhotonAssay's fast turnaround on high sample volumes provides critical operational information and drives optimisation through the entire mining value chain.

### PHOTONASSAY DELIVERS:

- Enhanced analysis of gold, silver and copper in hours, not days or weeks.
- Larger samples up to 500g provides true bulk reading
- Non-destructive analysis
- Significant environmental benefits
- Safer assay process for improved OH&S
- Can improve definition of reserves and resources

	PHOTONASSAY	FIRE ASSAY
Faster results	<b>~2-3 minutes</b>	~3-4 hours
Larger samples	<b>250-650 grams</b>	10-50 grams
Less Emissions	<b>0.455kg</b>	0.91kg
NO hazardous waste	<b>0kg</b>	0.31kg
Less energy used	<b>0.65kWh</b>	1.3kWh
Automated process	<b>YES</b>	NO





## MSALABS GLOBAL LOCATIONS

### OUR SERVICES

- PhotonAssay Analysis (Gold, Silver and Copper)
- Sample preparation, storage and disposal
- Precious metals by Fire Assay
- Multi-element packages - Basic, Trace, Ultra-trace
- Fusion, ICP-OES and ICP-MS
- XRF
- Specialty Assay
- Biogeochemistry and Hydrogeochemistry
- Metallurgical Samples Analysis and Services
- Mineralogical Services

### STRINGENT QUALITY STANDARDS

Our company maintains the highest quality standards and follows the guidelines of ISO17025 accreditation and ISO9001, ISO14001 and ISO45001 certification. Certificates are available for download from our website.

Additionally, we participate in CDN Labs, Geostats, PTP-MAL, and Rockslabs Proficiency Testing Schemes (PTS), among others.

### SUPPORTING YOUR SITE-BASED LABORATORY

- We have extensive laboratory design, construction and management experience in a range of countries
- We implement a complete set of systems, training, software and procedures enabling ISO certification
- We deliver laboratory management with experienced, highly qualified staff, regular training and auditing

### COMMODITIES

We operate across a broad range of commodities.

- Gold
- Silver
- Platinum Group Metals
- Copper
- Rare Earth Elements
- Cobalt
- Lithium
- Lead
- Zinc

### CLIENTS

Clients include:



BARRICK



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