METALLIUM

Quarterly Investor Webinar

August 2026

Michael Walshe – Managing Director & CEO

ASX: MTM / OTCQX: MTLMY (ADR) & MTMCF

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QUARTER HIGHLIGHTS

Our focus has shifted from proving the technology to optimising, scaling and commercialising the platform

TECHNOLOGY

- Platform substantially de-risked

COMMERCIAL

- PCB feedstock secured
- First revenue pathway established

OPERATIONS

- Gator Point commissioning progressing

GROWTH

- Strategic expansion into MXenes

Transition from Technology Validation to Commercial Execution

CORE FJH PLATFORM SUBSTANTIALLY DE-RISKED

100+
TEST CAMPAIGNS

12-HOUR
CONTINUOUS OPERATION

3 FJH UNITS
OPERATING SIMULTANEOUSLY

400,000x
SCALE-UP




WHAT HAS NOW BEEN PROVEN?

- ✅ Reactor mechanical integrity
- ✅ Process control systems
- ✅ Operating procedures
- ✅ Modular reactor scale-up
- ✅ Stable parallel reactor operation

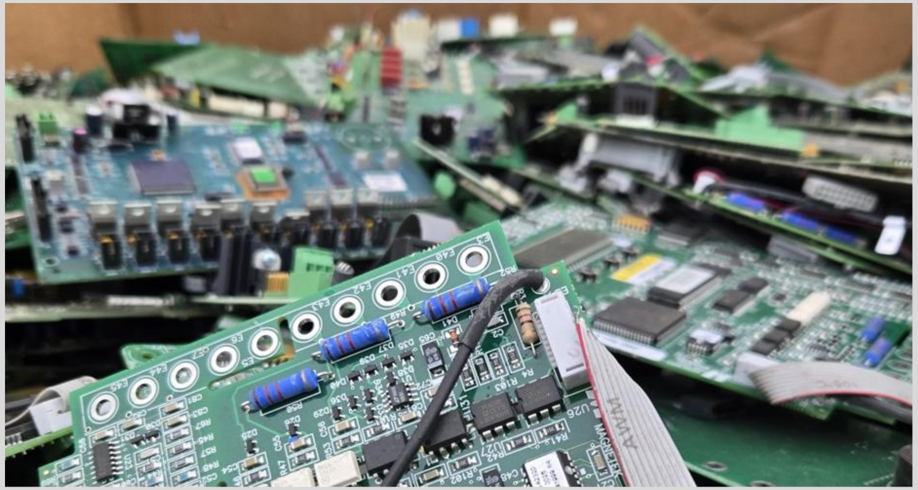
WHAT REMAINS?

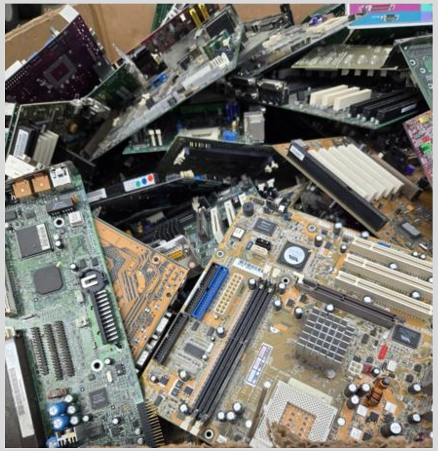
- ➞ Multi-reactor chlorinated commissioning
- ➞ Integrated PCB processing flowsheet demonstration
- ➞ Commercial processing services
- ➞ Initial saleable product production

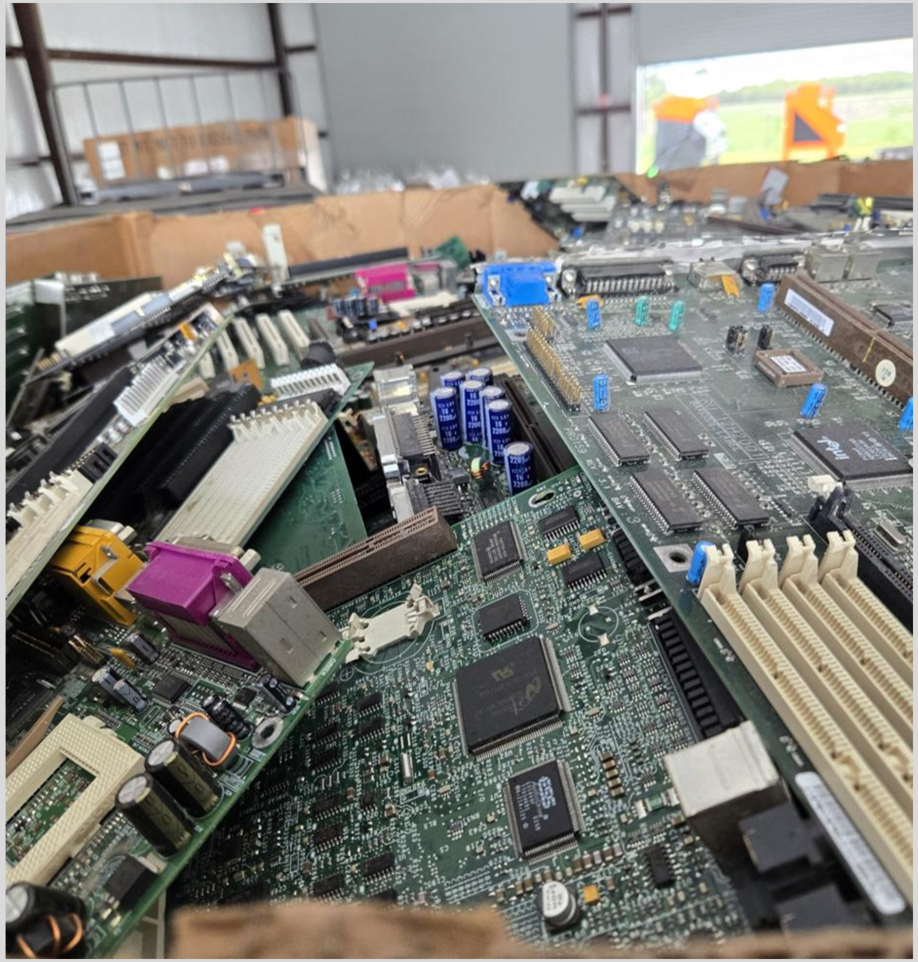
Tech validation phase is substantially complete.
Metallium is now focused on commissioning, optimisation and commercial deployment.

COMMERCIALISING PCB PROCESSING

Maximising Value from Every PCB



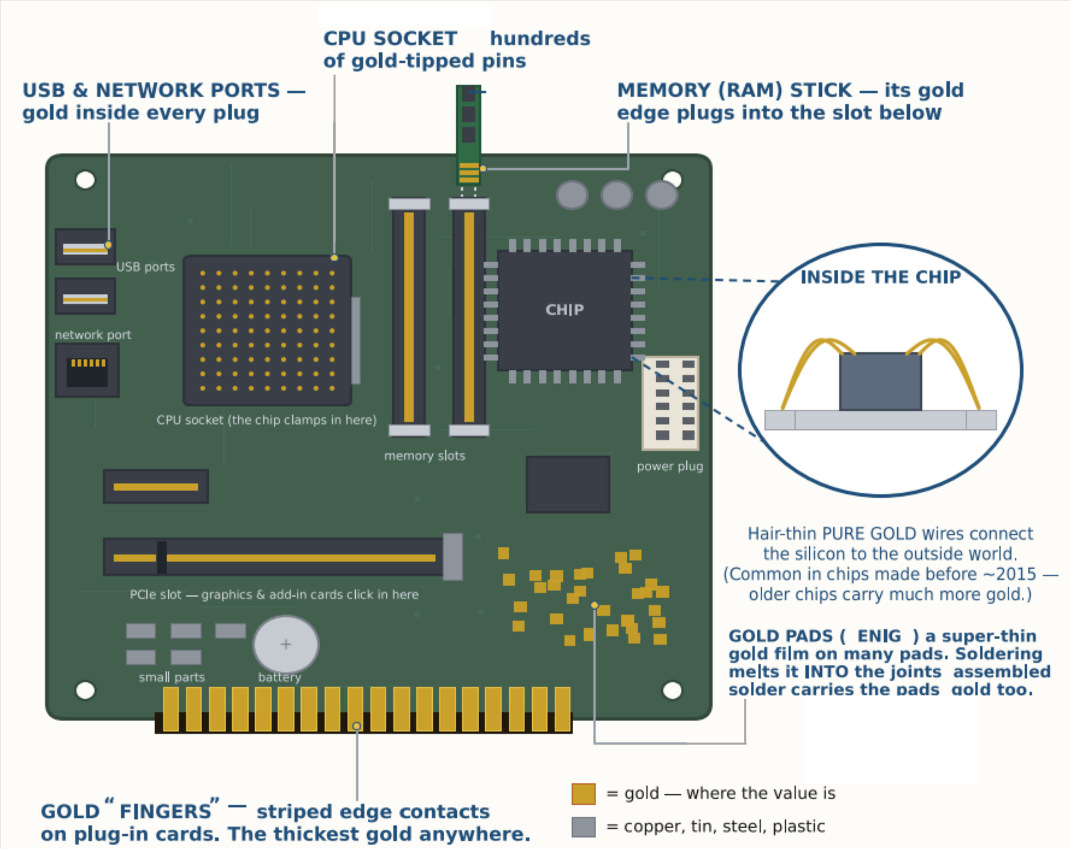




COMMERCIALISING PCB PROCESSING

Maximising Value from Every PCB

Typical Printed Circuit Board – Gold Metal Location*

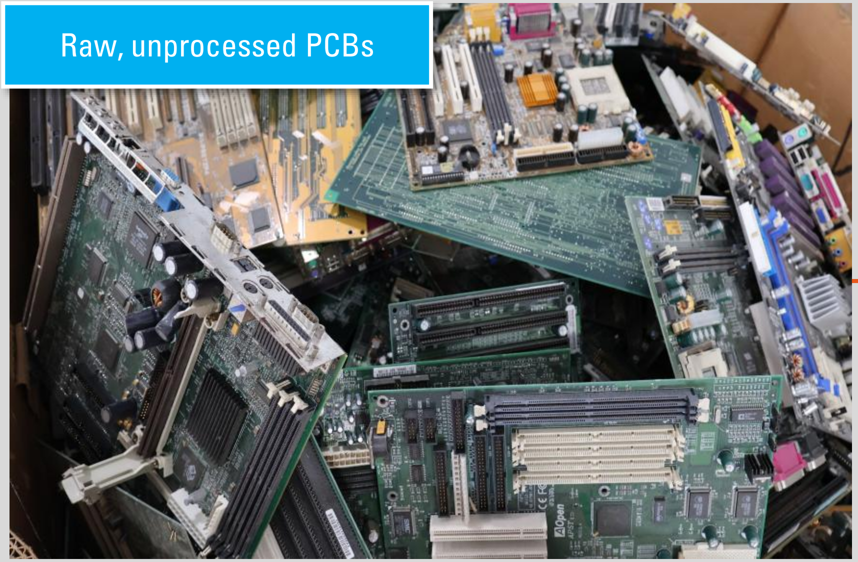


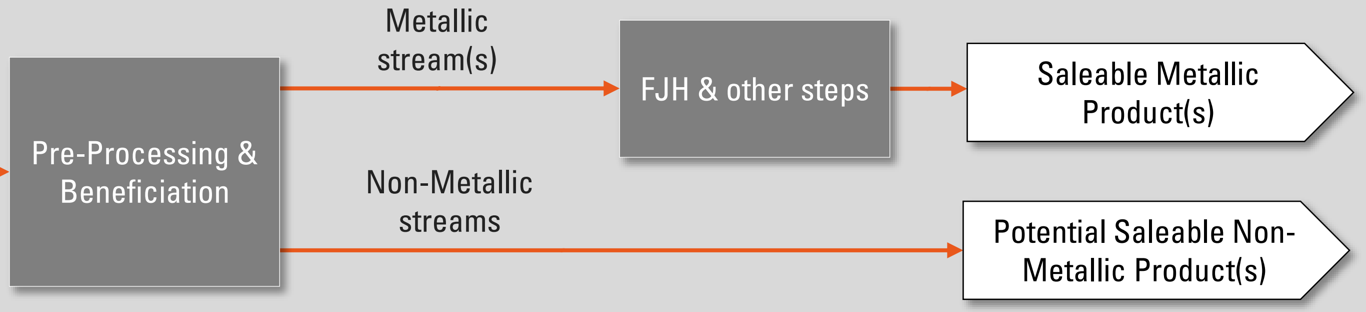
Typical Printed Circuit Board – Metal-Rich Components*

Illustrative only; Metallium internal technical database.

COMMERCIALISING PCB PROCESSING

Maximising Value from Every PCB





Why develop a proprietary pre-processing flowsheet?

✓ Increase reactor throughput
✓ Improve economics
✓ Recover additional products
✓ Generate new IP

*i.e. example dry mechanical separation equipment**

Maximisation of value from Electronic Waste: Higher Returns on Capital & Improved Resource Utilisation

**Illustrative only;*

COMMERCIALISING PCB PROCESSING

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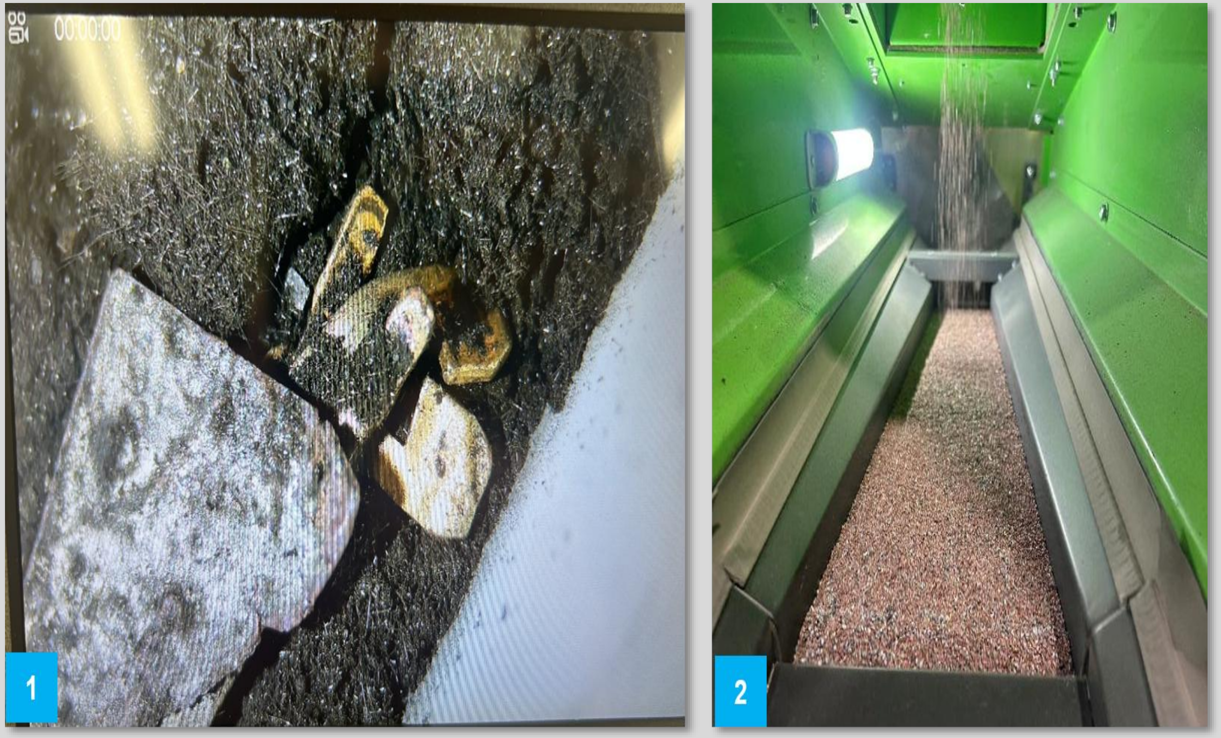
Maximising Value from Every PCB

1. Mechanically separated gold fingers;
2. 2. Milled PCB product;
3. 3. Pyrolysed PCB's;
4. 4. Granulated and milled PCB's



1. Solid gold particles visible in post-pyrolysis 'metal-rich carbon' (produced by pyrolysing PCBs;
2. 2. Copper dominant product achieved from mechanical separation of shredded Printed circuit boards

GATOR POINT – FJH TECHNOLOGY CAMPUS

Texas-based hub for ongoing development and eventual commercial production

Completed
- Three-reactor campaign
- Laboratory progressing
- Infrastructure upgrades

Current Focus
- Roof remediation
- TCEQ permit amendment
- Electrical installation

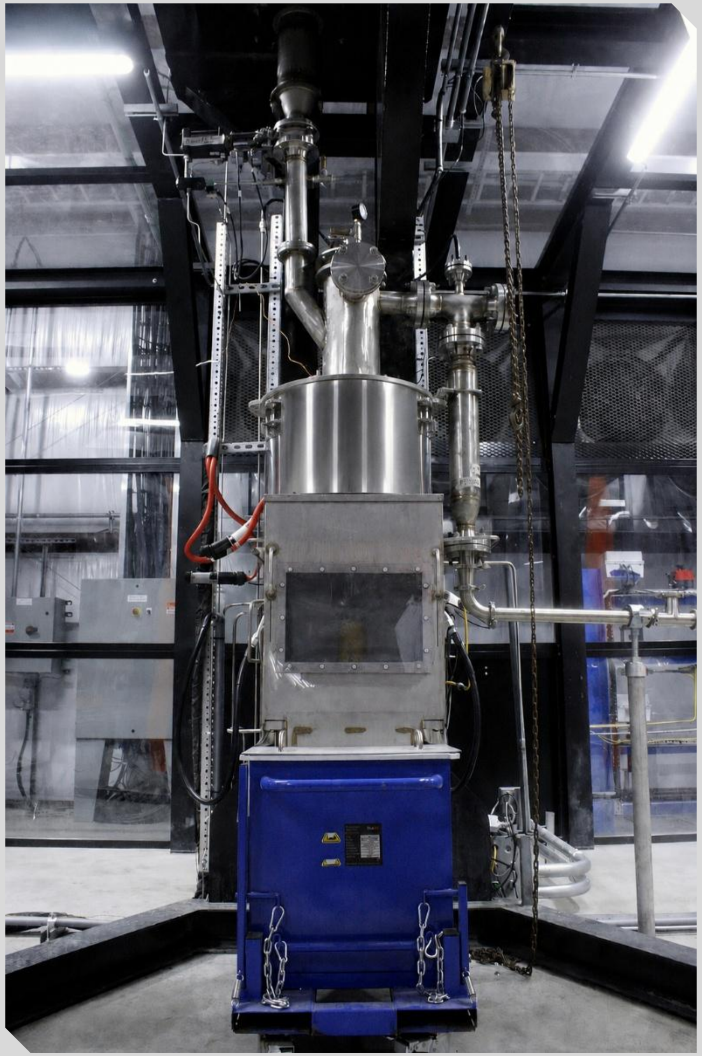
Next Milestones
- Chlorinated campaign
- Integrated flowsheet
- Commercial processing

ONGOING COMMISSIONING

Progressing FJH Technology to Commercial Scale

Major interim commissioning milestones achieved: Successful 12-hour continuous commercial-scale FJH reactor campaign using **3 reactors**

Next Major Milestone: Multi-reactor chlorinated commissioning



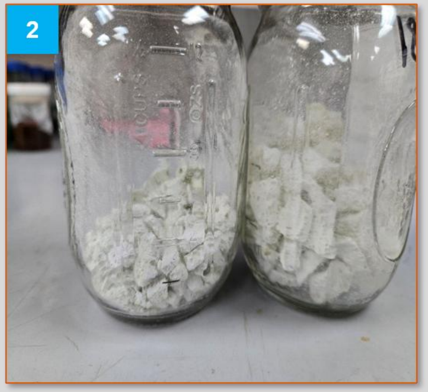
ONGOING COMMISSIONING

Progressing FJH Technology to Commercial Scale

PLATFORM VERSATILITY EXPANDS

Successful development across multiple strategic feedstocks continues to broaden the commercial potential of Flash Joule Heating

Pulverised spent catalytic converter feedstock rich in PLATINUM GROUP METALS (Palladium, Platinum, Rhodium)



Recovered REE Chloride product produced from raw unbeneficiated REE ore

Coming Soon: ***Dedicated Technical Update***

While e-waste remains Metallium's immediate commercial priority, successful development across multiple critical metal feedstocks continues to demonstrate the versatility of the FJH platform and significantly expands the Company's long-term opportunities

OUR BUSINESS MODEL: TWO ENGINES OF VALUE

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Models:
Plant Owner/Operator
+
Licencing / Royalty

	URBAN MINING (WASTE RECYCLING)		MINERAL PROCESSING (MINING PROJECTS)		EMERGING APPLICATION
	Technology Metals: Gallium, Germanium, Indium, Tin, Antimony	**Electronic Waste:** Gold, Copper, PGE -rich Printed Circuit Boards	**Rare Earth Elements** (REEs) Nd, Pr, Dy, Tb	**Red Mud** (Bauxite Residue) Alumina, Ga, REEs, Titanium	**MXenes** (2D super materials)
					
	Build-Own-Operate (BOO)		Processing-as-a-Service (PaaS)		
BUSINESS MODEL	**End-to-end ownership of feedstock, processing, and metal sales:** Metallium sources feedstock, operate its own facilities, & capture full value from recovered metals		**Licencing:** Provide equipment & services to miners / processors. Monetise via **Licensing** & **Production Royalties**		
PRODUCTS	Metal chlorides or derivatives – Essential for semiconductors, photovoltaics etc.	Metal chlorides or derivatives incl. Gold Chloride – Highly saleable``	Various optionality for metal chlorides or more refined intermediates, or special compounds		
INDUSTRIAL PARTNER(S)	INDIUM CORPORATION	GLENCORE; DYNAMIC LIFECYCLE INNOVATIONS; Plastic Recycling Inc.	METEORIC RESOURCES; ucore	vedanta transforming for good; ELEMENTUSA	ECT ENVIRONMENTAL CLEAN TECHNOLOGIES LIMITED
	Upstream sourcing initiative	4000 tpa secured	Ongoing	Ongoing	New*

U.S. GOVERNMENT ENGAGEMENT

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Metallium's Technology and Focus Metals Align with U.S. Strategic Priorities

US$1M U.S. Defence Contract already in place

Successful completion of **Phase I Small Business Innovation Research (SBIR) contract & award of Phase II** with the **U.S. Department of War** through the Defense Logistics Agency (DLA).

Over **US$600 million in identified funding opportunities**

Strategic collaboration with AmForge

AmForge

U.S. Department *of* Defense
Office *of* Strategic Capital

FIRST COMMERCIAL TECHNOLOGY SERVICES AGREEMENT

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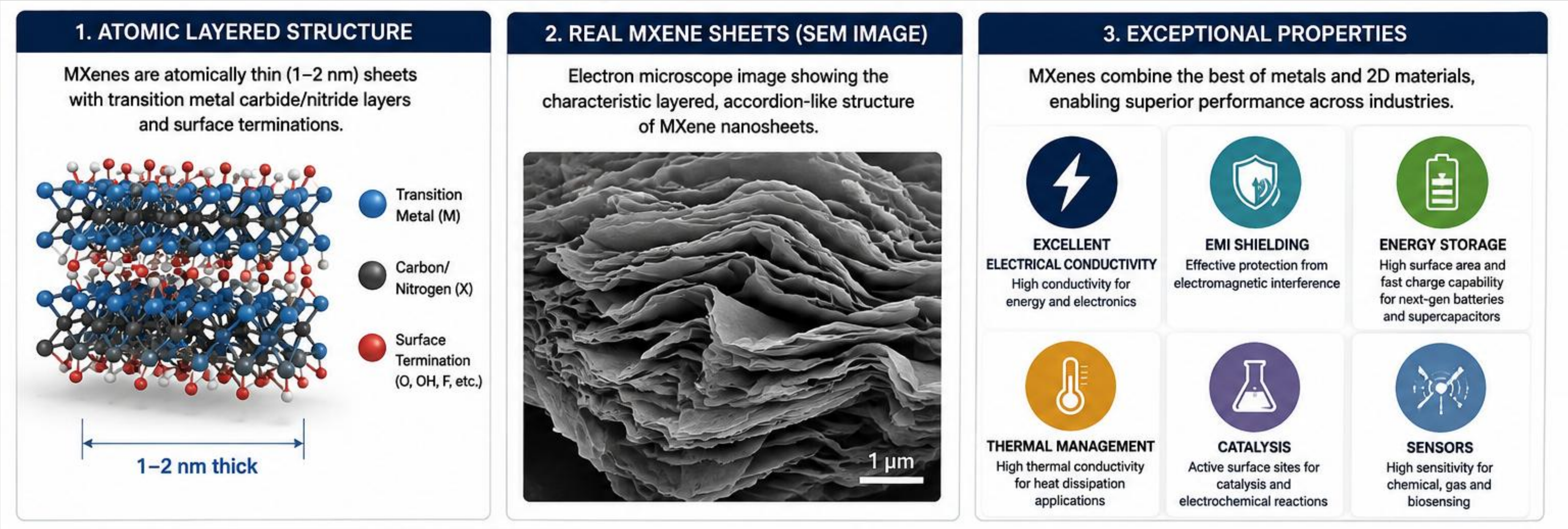
Advancing Processing-as-a-Service Strategy with ECT



FIRST COMMERCIAL TECHNOLOGY SERVICES AGREEMENT

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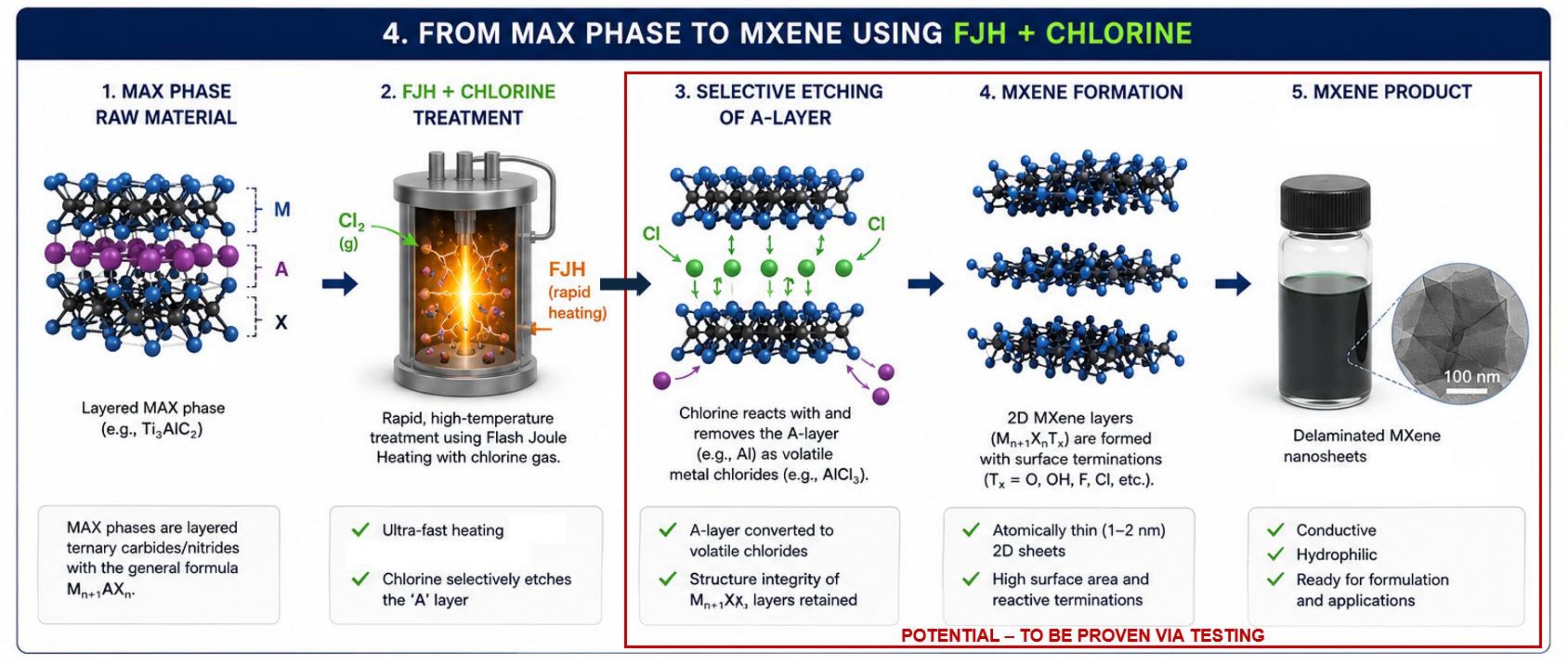
Advancing Processing-as-a-Service Strategy with ECT



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FLASH JOULE HEATING PLATFORM:
Proprietary IP • Scalable • Multiple Applications

BUILD–OWN–OPERATE (BOO)
(MTM Owned Facilities)

Metallium owns and operates FJH processing facilities.

- Recover critical and precious metals from strategic feedstocks
- Sell recovered metals
- Generate strong long-term value from owned operations

Example: Gator Point & future MTM facilities

CORE STRATEGIC PRIORITY
High-value metal recovery operations

PROCESSING-AS-A-SERVICE
(Customer access to MTM's FJH Platform)

Technology Services *(Engineering & Development)*
Engineering support, reactor access and R&D to develop customer applications.

↓

Pilot Programme *(Demonstration)*
Pilot and demo campaigns to validate performance and economic outcomes.

↓

Commercial Deployment *(Scale & Optimise)*
Scale-up and optimisation leading to **commercial-ready operations**.

↓

Commercial Agreement *(Long-Term Relationship)*
Potential revenue streams:

- Technology licences
- Reactor & equipment supply
- Operator support
- Processing fees,
- Service and spare parts
- Royalty streams

ECT Deal

We are here

CAPITAL-LIGHT RECURRING REVENUES
Engineering • Licences • Fees • Equipment • Royalties

U.S. CAPITAL MARKETS EXPANSION STRATEGY

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PCAOB audit underway and nearing completion to support anticipated Nasdaq uplisting of American Depositary Receipts (ADRs) by CYQ4 2026

✓ ADR established

✓ PCAOB audit nearing completion

✓ Targeting NASDAQ ADR uplisting

*American Depositary Receipts

UPCOMING CATALYSTS

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Q3 2026

Multi-Reactor FJH Demonstration
Demo of multiple FJH reactors operating in parallel under chlorine atmosphere, validating modular industrial scale-up

Q3 2026

Critical Metals Technical Update

Q4 2026

Stage-1 Commercial Throughput Ramp-Up
Targeting system demonstration of ~8,000 tpa PCB e-waste processing capacity at Gator Point

Q4 2026

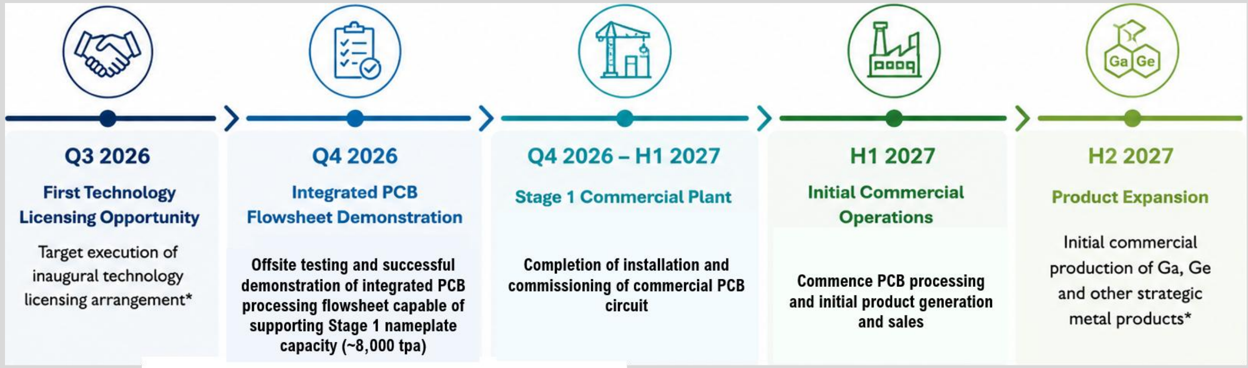
NASDAQ Uplisting of ADRs
Targeted NASDAQ uplisting of Metallium ADRs, subject to board approval once PCAOB audit complete.

Q3 / 4 2026

U.S. Government Engagement
Progressing DoW, DoE and strategic U.S. critical minerals initiatives and partnerships.

Q1 2027 +

Technology licencing deals (global & domestic USA); Update on U.S. site expansion plans; Additional feedstock and offtake agreements



Indicative Commercialisation Roadmap

CLOSING

Technology
Platform substantially de-risked

Commercialisation
Execution accelerating

Growth
Building a diversified critical materials and advanced materials platform.

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