



Patronus

2D and Nano Materials for
the world's toughest
environments

CORPORATE
PRESENTATION
2026

Patronus Technologies Inc.



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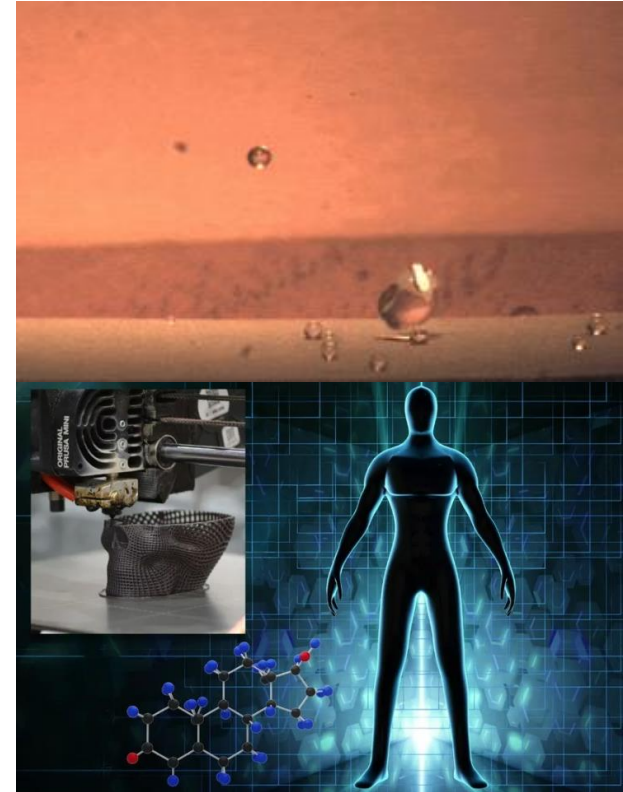
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Atomically engineered systems

Performance-optimized nanomaterials with extraordinary properties - for superior performance.

Strength, efficiency, and function — built in at the nanoscale.






Atomically engineered nanomaterials

The next generation of industrial and defence systems demand materials that do more than just one job.

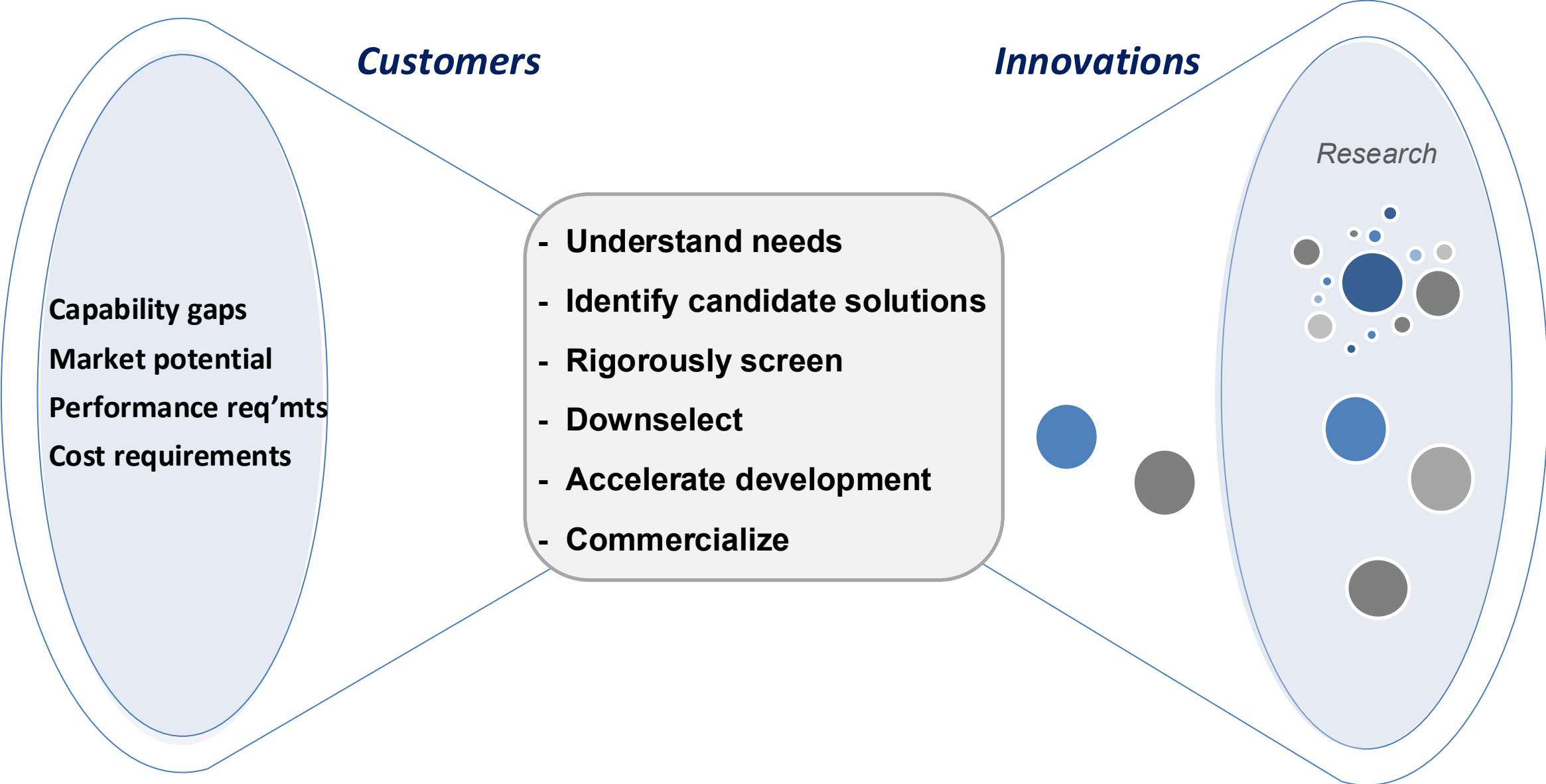
Our Performance-Optimized Nanomaterials are designed to improve performance in the world's toughest environments.



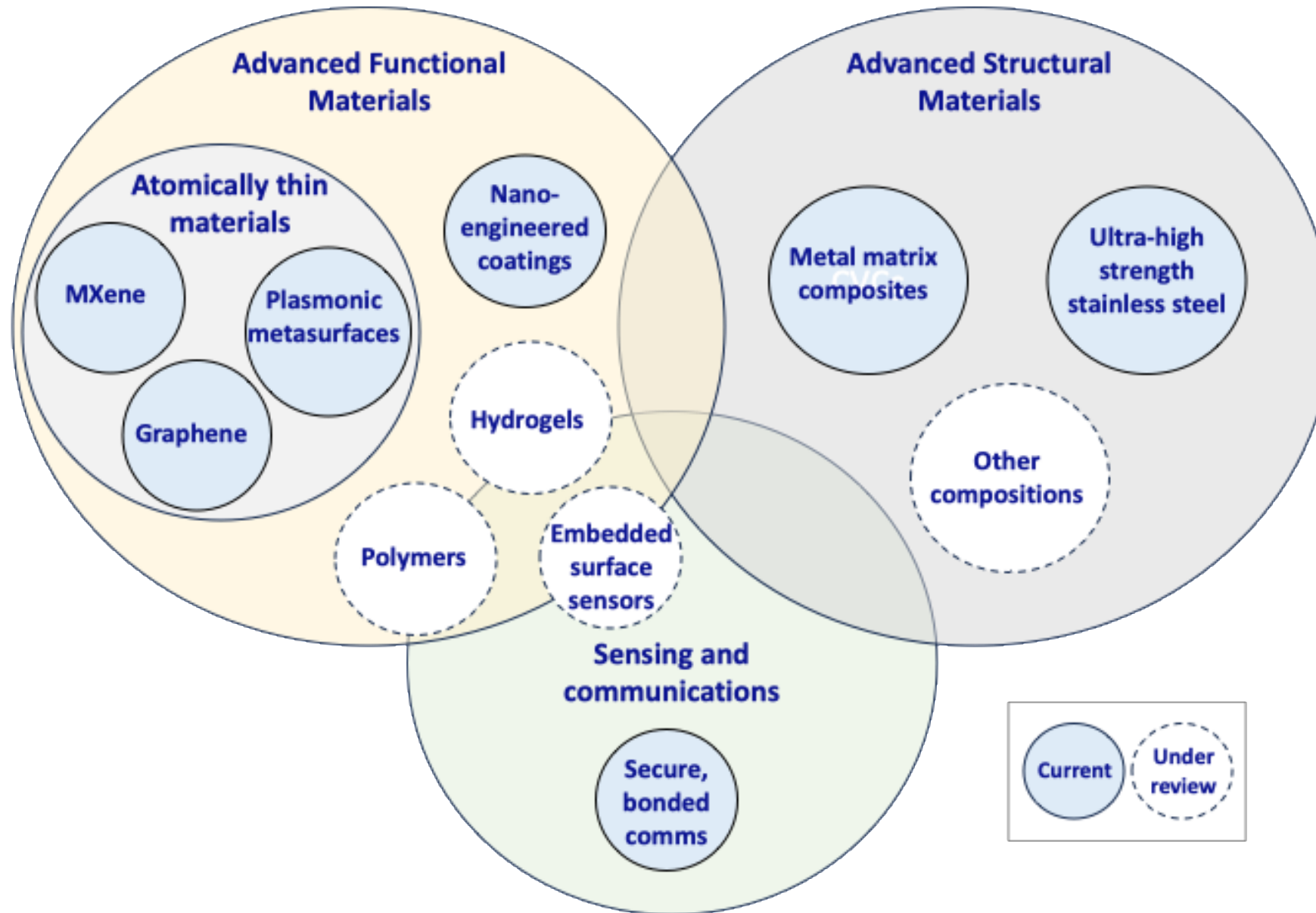
Aerospace 	Transportation 	Energy 	Environmental Remediation 
Manufacturing 	Maritime 	Infrastructure 	Construction 
Electronics 	Health Care 	Textiles 	



Our Approach



Development portfolio



Business Model

Value Proposition

- Discover and de-risk innovation
- Accelerate the time from invention to commercial use
- Monetize intellectual property
- Commercialize through partnerships

Cost structure

- Capital-light
- Distributed R&D
- Lean structure
- Manufacturing partners
- Distribution partners

Customers

- Prime contractors
- Procurement agencies
- Component suppliers
- End users
- Distribution partners

Revenue Streams

- Non-exclusive licenses
- Royalties
- Distribution agreements
- Partnership agreements

Growth Path

- Co-development
- IP capture
- Joint ventures
- Product pipeline
- M&A

PARTNERS /CLIENTS/ RELATIONSHIPS



We have highly developed relationships with key industry players, including;

BAE SYSTEMS

R&D partner supplying core intellectual property and market insights

QINETIQ

Advanced material research development partner and international armour alliance lead

 **Raytheon**
Technologies

Research funding partners under Canadian Industrial and Technological Benefits Program



Recent Developments

- ✓ **Imminent contract with a major aerospace company to develop MXene-based antenna and other components**
- ✓ **R&D project with an international industrial partner (nano-silicone and graphene)**
- ✓ **R&D project with Italian crane maker (metal matrix composites and ultra-hard stainless steel)**
- ✓ **Licensing agreement reached with Finland stainless steel company – path to joint R&D**
- ✓ **In commercial discussions with Nova Scotia-based innovator of graphene-enhanced products**
- ✓ **In discussions with other private sector and university researchers on new business formation**



Representative projects underway:

- Mxenes
- Graphene
- Plasmonics
- Advanced composites
- Shear thickening fluids



MXenes

Based on two-dimensional transition metals with exceptional electrical conductivity, strength, thermal, and other properties.

Applications include:

- Communications (e.g., ultra-light weight waveguides and antennas)
- Electromagnetic interference attenuation
- Electromagnetic signature reduction
- Infrared signature reduction
- Remote sensing

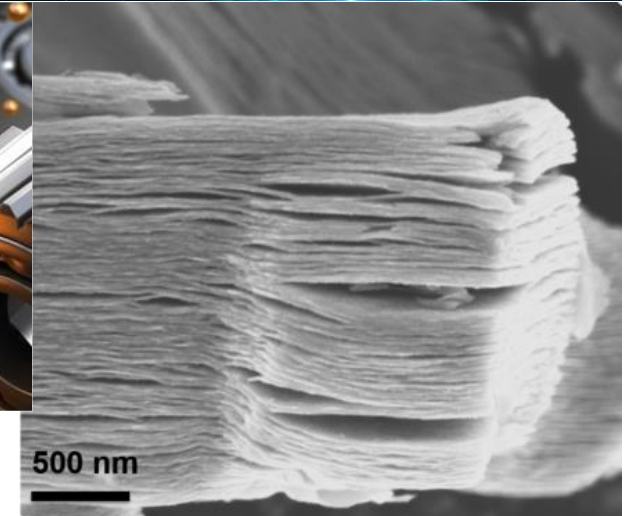
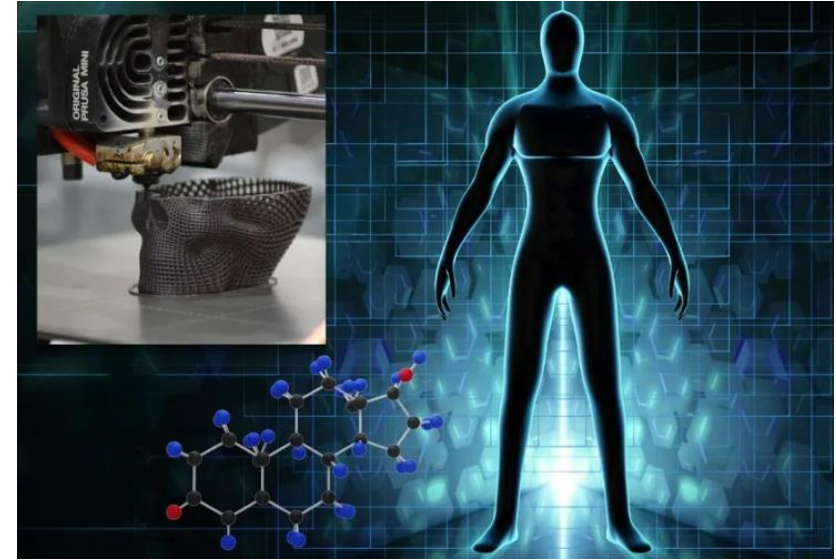


Graphene

Graphene products for superior functional performance across a range of industries

Applications:

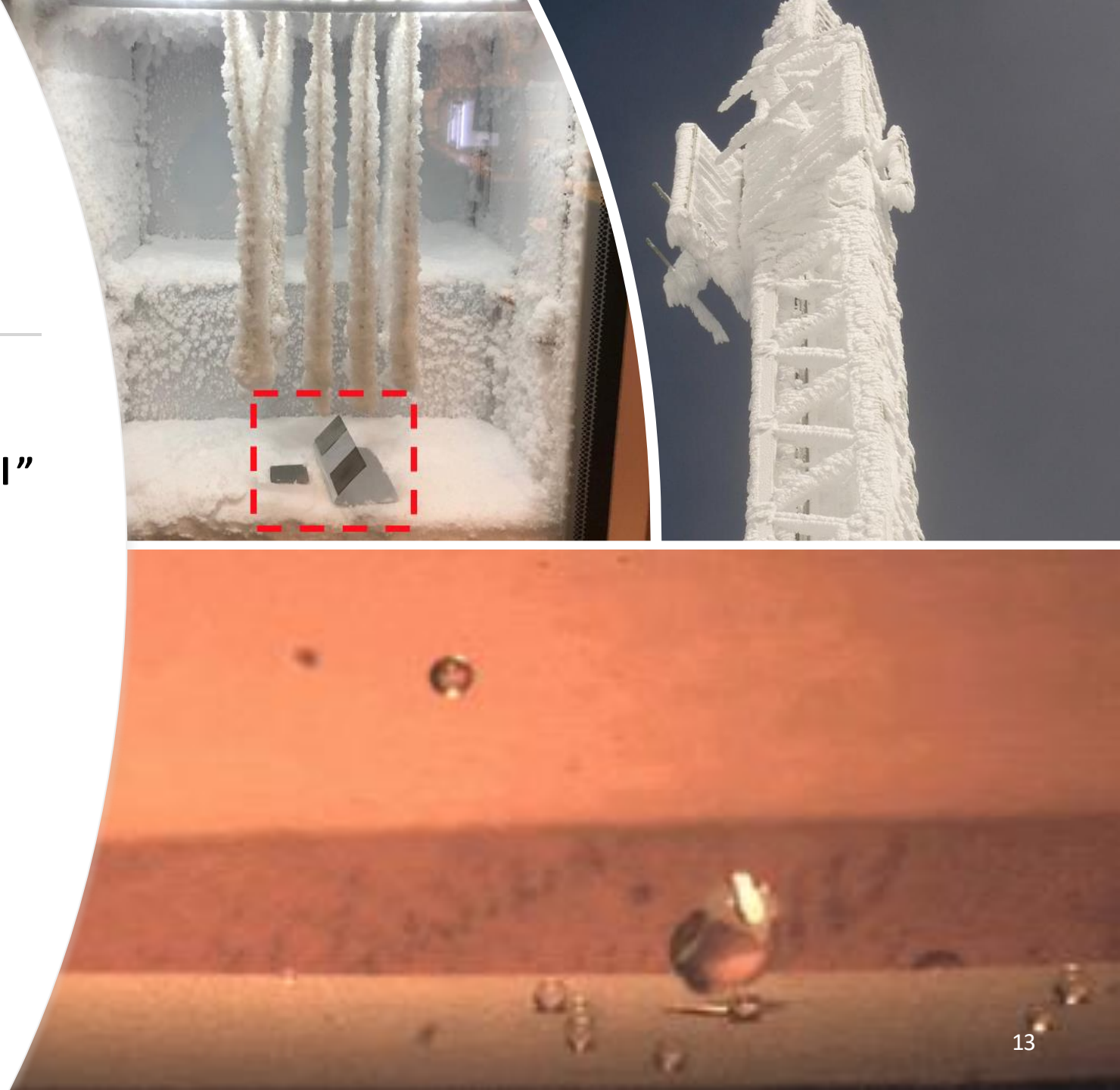
- *Ballistic protection*
- *High performance lubricants*
- *High strength polymers*
- *Energy storage & conversion (e.g., batteries)*
- *Electronics & sensors (e.g., waveguides, EMI shielding)*
- *Environmental (e.g., carbon capture)*
- *Biomedical (e.g., antibacterial coatings)*



Nano-engineered oleophobic coatings

Silicone-based nano coatings that are free of PFAS “forever chemical”

- Ice mitigation
- Waterproofing
- Drag reduction
- Chemical protection



High strength Stainless Steel

Proprietary stainless steel with unique properties

- Derived from standardized compositions, without the need to use expensive alloying elements
- Potential to reduce materials up to 70% while significantly extending lifetime
- Uses conventional production equipment
- Corrosion-resistant
- Sustainable and recyclable

Applications:

- Transportation (e.g., rail cars)
- Machinery (e.g., offshore cranes)
- Infrastructure (e.g., bridges)
- Defence (e.g., armour plates)



Advanced Composites

Advanced ceramics with low density, high hardness, and fracture resistance. Ideal properties for next-gen armour and other applications.

Dual-Use Applications

- Armour
- Brake calipers
- Robotics
- Aerospace
- Engine components



TEAM / MANAGEMENT



Rick Fichera

CEO & Director

Mr. Fichera is a strategically focused executive with extensive experience in technology and aerospace. His expertise is in driving profitable growth and efficient execution for individual projects and large business portfolios. His leadership roles have spanned product development, production, support, and internal services. Rick was a senior leader for a large multinational aerospace corporation. He led the financial functions for divisions with over \$2B in annual revenue, in addition to managing operations, physical infrastructure, and capital deployment. He has worked closely with domestic and international customers, including US Government agencies. In addition to his 30 years of corporate experience, Rick is a founding partner in two companies focused on fostering the growth of entrepreneurs, startups, and small businesses. Rick also serves as the Board Treasurer for an environmental nonprofit and advises small technology companies focused on sustainability. He holds an MBA from Seattle University.



Robin Brodhurst

COO & DIRECTOR

Mr. Brodhurst brings over 25 years of professional aviation industry management services principally focused on the charter and leasing sectors. His career includes extensive operational and logistics oversight regarding the maintenance and refurbishment of fleet service aircraft. Subsequently he served for 10-years with Helios Global Technologies in the development and deployment of worker safety systems including the development of advanced protective materials. To-date, he has been instrumental in the progression of Patronus' commercial efforts and propelling ongoing activities towards the continued development of protective materials and the advancement of related manufacturing technologies.



Darren Urquhart

CFO

Mr. Urquhart is a chartered professional accountant with twenty years of experience working in public practice and industry. Mr. Urquhart operates his own public practice accounting firm offering chief financial officer and accounting services to TSX Venture Exchange listed companies in Vancouver. He has also served as director for some of his corporate clients. Mr. Urquhart began his career working as an audit accountant with Grant Thornton LLP, then later worked as a senior tax accountant with Lohn Caulder Chartered Accountants. Mr. Urquhart obtained his chartered accountant designation in 2001 and is a member of the Chartered Professional Accountants of British Columbia. In 1995, Mr. Urquhart graduated from the University of British Columbia with a Bachelor degree of Applied Science in Electrical Engineering.





Martin Cronin

DIRECTOR & INTERIM CHAIR

Mr. Cronin served over 20 years in international diplomacy with the British Government with appointments across the Middle East, South Asia, Europe and North America spanning counter-terrorism, conflict resolution, trade and inward investment. Following a posting as Consul-General to Western Canada, Martin settled in British Columbia and joined the private sector, serving as CEO and Director of several private and public companies in the public safety and defence sectors, including Patriot One Technologies (PAT:TSX), before joining Syniad Innovations in 2021. He has also served as Honorary Colonel of a Canadian Army Reserve Regiment, Regional Director of the Canadian Forces Liaison Council, Advisory Board of the Central Okanagan Economic Development Commission and Advisory Board of International Yacht Training Worldwide. Martin has a BA in International History and Politics with Economics from the University of Leeds.



Victoria Calvert

INDEPENDENT DIRECTOR

As a Professor Emeritus of Entrepreneurship for Mount Royal University, Victoria is engaged in Board work and consulting. She served as the University's Community Service Learning (CSL) facilitator overseeing community relationships, development of faculty research programs, and represented MRU nationally and internationally. She published numerous articles and books, presented at over 100 conferences and symposiums, served on numerous academic organizations, and was a reviewer for funding grant applications for the Natural Sciences and Engineering Research Council of Canada (NSERC). As a consultant for more than three decades, Victoria has extensive experience in venture launch, growth and harvest, with a focus on mentoring management to optimize growth capacity by aligning strategic imperatives with a high-performance culture, integrated systems, and focused execution. She has served on Boards for over thirty years, including TSX listed companies including AltaGas Ltd and Xtract Technologies, Crown Agencies, academic alliances and non-profit organizations. She has extensive experience in Governance, with a focus on stakeholder relationships, strategic planning, and capital allocation frameworks.



Mike McGinty

INDEPENDENT DIRECTOR

Mr. McGinty worked as a senior risk manager for the University of British Columbia (UBC), as the COO of a Vancouver based tech start-up using Artificial Intelligence to analyse nanosatellite data for safety and security purposes, and as Chief of Staff to the CEO of a large publicly traded company. He worked for just over two years as the COO and Director of Business Development for a defence/dual use Artificial Intelligence/Machine Learning software company before becoming CEO in June 2022. He was commissioned as an officer in the British Army from the Royal Military Academy Sandhurst and served a distinguished career beginning as a troop commander until a transition to helicopters led to leadership and operational roles in Ireland, Bosnia, Iraq, and Afghanistan. Along with an MSc in Corporate Management from Cranfield University (UK), he holds an MA in War Studies from Kings College, University of London. He went on to serve at the Canadian Forces College in Toronto, where he taught leadership, ethics, and planning to master's degree students. On retirement from the British Army, he remained in Canada and continues to work as an Adjunct Professor of Leadership at UBC and continues to serve as a reserve Colonel for the Canadian Army.



Lori Scotvold

INDEPENDENT DIRECTOR

Lori is an experienced board director and independent consultant with a global career spanning over 35 years. Her background includes extensive work in accounting and finance, technology, business transformation, and strategy, primarily within the energy sector. Her consulting practice specializes in strategic transformation and enterprise data management. A CPA (CA) and accomplished change leader, Lori has driven major ERP and technology initiatives and supported billion-dollar M&A activity. She offers deep expertise in audit, risk management, and digital innovation. Recognized for her strategic acumen, steady leadership in times of crisis, and commitment to mentoring and organizational culture, Lori brings a strong voice, diverse perspective, and a passion for meaningful impact to the boardroom.

Rick Fichera
DIRECTOR & CEO

Robin Brodhurst
DIRECTOR & COO

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Patronus

THANK YOU

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