



Patronus

Advanced Materials for
the world's toughest
environments

CORPORATE
PRESENTATION
2025

Patronus Technologies Inc.



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OVERVIEW

Innovation & Acceleration

The Defence and Civilian Industrial sectors increasingly demand cutting-edge discovery, accelerated development, and rapid commercialization of advanced materials.

Our approach to material development accelerates the time to identify, optimize and produce novel materials. We do this through:

- Deep customer knowledge. Identify needs and uncover business growth opportunities by cultivating deep and sustained relationships with end users.
- Discovery. Identify promising technologies through strong relationships with university researchers, innovators, and industry partners – and a range of tools including AI and simulation.
- Partnerships. Compress time-to-market through strong business relationships with prime contractors and other partners.
- Disciplined execution. A rigorous approach to advance and mature technologies for commercialization.
- Subject matter expertise. Access to the brightest minds in industry to find opportunities, manage risk, and speed progress.
- Technology. Developing machine learning and other computational tools to speed the time from discovery to application.

Defence materials protect people & property. Most new discoveries have civilian applications.

Industrial materials target higher performance & advanced capabilities.

Patronus brings together subject matter experts in the fields of material design, manufacturing, and commercialization, alongside deep research affiliations with the University of British Columbia, and active relationships with industrial contractors such as BAE Systems, Raytheon, and QinetiQ.



OVERVIEW

Advanced Materials provide enhanced protection, increased functionality, and achieve top performance in their class.

These materials focus on enhancing performance in complex environments.

They include metals, polymers, ceramics, composites and extend to superalloys, biomaterials, smart materials, and nanomaterials.



Industrial Applications for Advanced Materials



Aerospace



Automotive & Transportation



Construction & Infrastructure



Clean Energy



Advanced Manufacturing



Maritime Services & Logistics



ACCELERATED MATERIALS DEVELOPMENT

Advanced material acceleration
built on real-world data.

Our advantage comes from combining three key factors:

Customer Engagement cultivates deep and sustained relationships with end users.

Subject Matter Expertise accesses the brightest minds in industry to find opportunities, manage risk, and speed progress.

Potential proprietary materials and manufacturing processes identified, developed and optimized for manufacturing at scale.

Our robust integrated and efficient approach aims to **dramatically compress the timeframe from material innovation to solution deployment.**

OUR APPROACH

Package critical materials into dual-use applications

Examples



Ultra-Resistant

Ballistic, Temperature, Interference



Self-Healing

Tearing, Puncture, Deformation/Fatigue



Extreme Conditions

Weather, Altitude, Prolonged Exposure

MARKET DEMAND

Materials development fails too often, takes too long, and costs too much.

Result: **Market Bottleneck.**

~\$500M + ~12-20YRS

The average cost of new material development

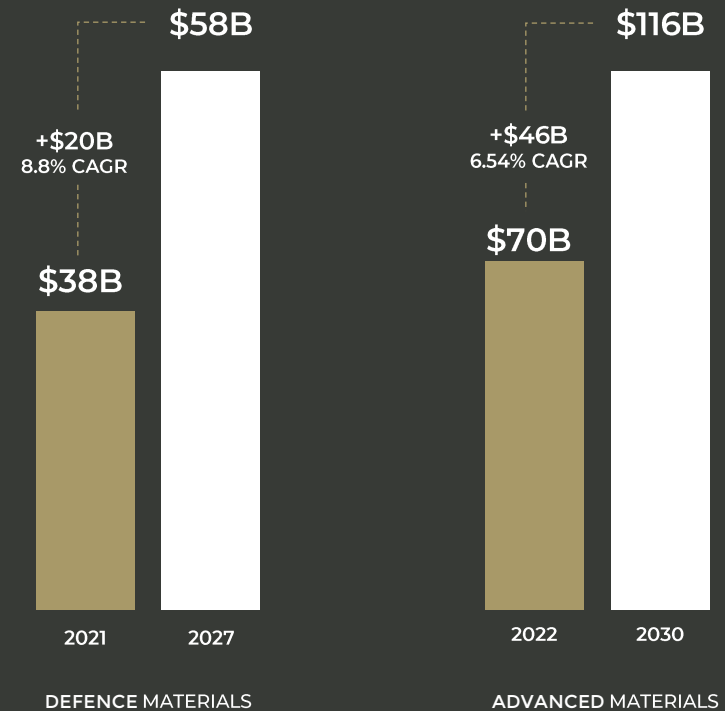
The time it takes a new material to enter production.

**~90%
Failure Rate**

Manufacturers focus on getting one new material to market.

Result: Chronic underinvestment in technologies to improve materials development processes.

New technologies and a new business model are needed to lead new materials commercialization and capture markets for defence and industrial materials to address evolving novel next-gen applications.



OUR GOAL: BREAKING BOTTLENECKS IN THE HIGH VALUE DEFENCE/ADVANCED MATERIALS MARKETS.

MARKET OPPORTUNITY

Historically, many critical materials have **dual-use** military/civilian applications.

Accelerating advanced materials commercialization is a massive opportunity.

Materials development to meet surging demand is a high-value opportunity. But commercialization has been challenging to operationalize.



Products created from advanced materials often provide performance, quality, and scalability. For instance, many defence materials have dual-use civilian applications.



ARCTIC SECURITY AND RESILIENCE

Everything that we do at Patronus is driven by deep engagement with end users.

The intense focus on operations in the Far North permeates both defence thinking across NATO, as well as the natural resource industries.

Extreme Conditions

Our team aims to solve the challenges presented for effective operations.

We do this with both with our own in-house material development and in partnership with a consortium of like-minded innovation partners spanning protection, apparel, signature reduction, structural integrity/functionality, shelter, power and communications.



Accelerating Innovation To Deployment

A Proven Pathway To Novel Solutions

Process Driven



ACCELERATED MATERIALS DEVELOPMENT leverages sustainable deep customer engagement combined with access to some of the brightest minds in industry. Patronus identifies, develops and optimizes new materials for manufacturing at scale.

CASE STUDIES



SHEAR THICKENING FLUIDS – Our family of patents covering a form of "liquid armour" were developed inside BAE Systems' Advanced Technology Centre and transferred to us for further development and commercialization. The "liquid armour" product is a shear thickening fluid (STF) designed to enhance fabric performance (e.g.: Kevlar) against a variety of threats including spike, knife and ballistic projectiles. These products are ideally suited to enhance soft body armour or as vehicle armour appliqué or interior spall liners.



ADVANCED CERAMICS – We are investigating novel materials that will offer high hardness and high fracture toughness, all of which are important properties for defence and civilian industrial uses (e.g.: automotive sector).



Materials Development

Patent Portfolio

4 master patents for protective armour and related materials granted across 9 significant commercial jurisdictions.



SHEAR THICKENING FLUIDS

A lightweight, flexible armor capable of increasing the mobility and survivability of mounted and dismounted soldiers.

Features & Benefits

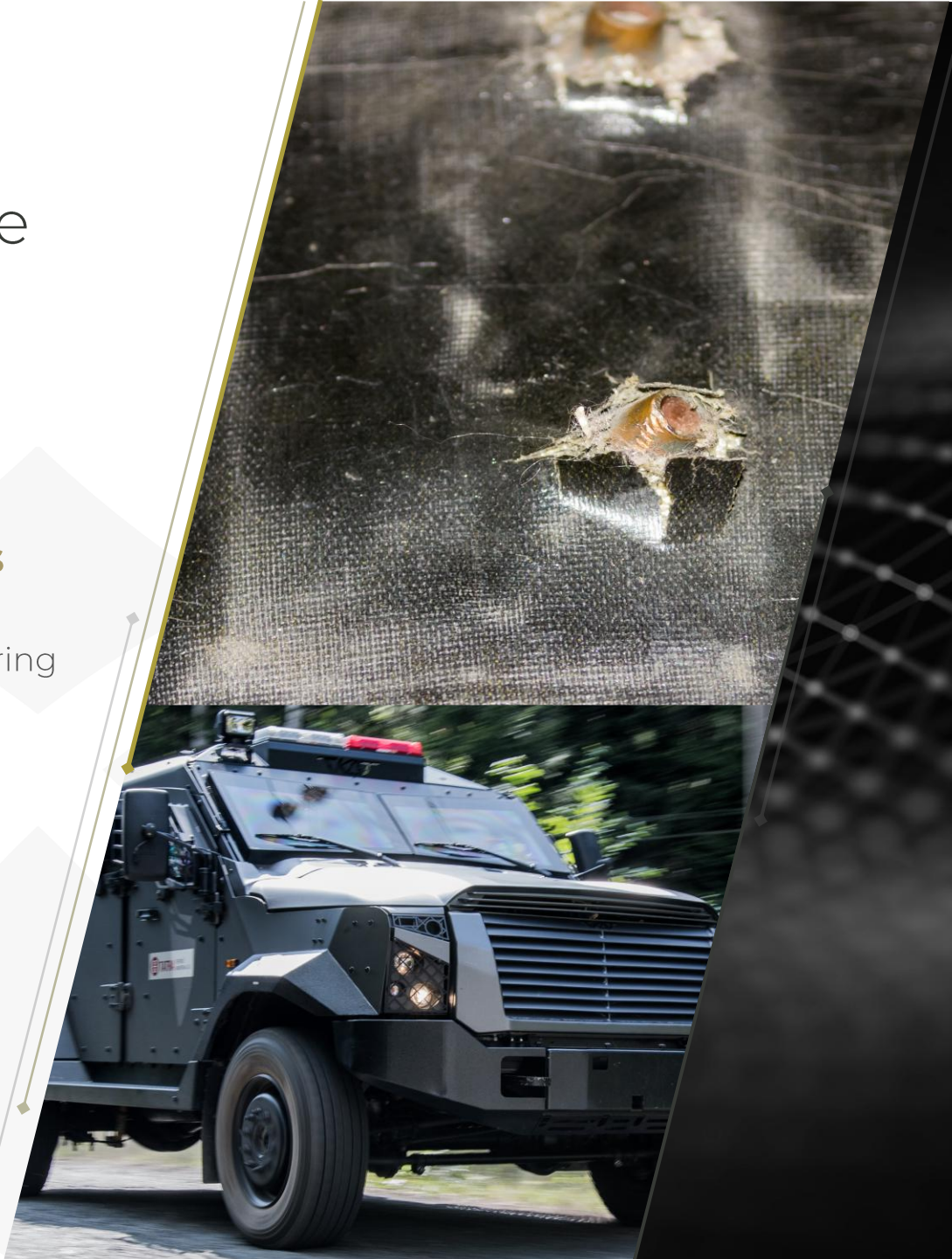
- Enhanced ballistic resistance
- Stab protection
- Impact resistant
- Flexible
- Lightweight

Dual-Use Applications

- Energy & automotive sector
- Infrastructure & manufacturing
- Industrial safety

Defense Applications

Designed as armour appliqué, or as an interior “spall” liner detachably applied to rigid surfaces as found on vehicles, aircraft, or helmets.



ADVANCED CERAMICS

Advanced ceramics offers low density, high hardness and high fracture toughness. Ideal properties for next-gen armour.

Feature & Benefits

- Ballistic resistant
- Lightweight
- Cost competitive with existing materials

Dual-Use Applications

- Brake calipers
- Robotics
- Aerospace
- Engine components



PARTNERS /CLIENTS/ RELATIONSHIPS



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

The BAE SYSTEMS logo, consisting of the words "BAE SYSTEMS" in white, uppercase, sans-serif font inside a red rectangular box.

BAE SYSTEMS

R&D partner supplying core intellectual property and market insights

The QINETIQ logo, featuring the word "QINETIQ" in a blue, sans-serif font.

QINETIQ

Advanced material research development partner and international armour alliance lead

The Raytheon Technologies logo, featuring a red sunburst icon to the left of the words "Raytheon Technologies" in a red, sans-serif font.

Raytheon Technologies

Research funding partners under Canadian Industrial and Technological Benefits Program



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.



DIRECTORS



Giles Hill

CHAIRMAN

LTG (Ret.) Giles Hill was one of the most senior officers in the UK armed forces until his retirement in 2021 after 35-years of service. He has acted as an advisor to several commercial ventures and operated an international business consultancy. His highly distinguished 35-year military career culminated with his promotion to Lieutenant General. He has served operational tours in Northern Ireland, the Balkans, Iraq, and Afghanistan and has held multiple command and leadership positions including Commanding Officer of the 1st Battalion Parachute Regiment and UK Special Forces Support Group, Commander of 16 Air Assault Brigade, General Officer Commanding 1st Armoured and 1st (United Kingdom) Division, Deputy Commander of the NATO Coalition and Senior British Representative (Afghanistan). He also holds the distinction of having served as Deputy Commanding General of the US 82nd Airborne Division at Fort Bragg. Within the UK Ministry of Defence, he has been Assistant Chief of Staff (MENA and Asia) and Assistant Chief of Defence Staff (strategy and global engagement). He was awarded the CBE in 2014, the CB in 2020 and the US Legion of Merit in 2021 for leadership and is the Honorary Colonel of the 4th Battalion, Parachute Regiment



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.



Martin Cronin

DIRECTOR

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.

Rick Fichera
DIRECTOR & CEO

Robin Brodhurst
DIRECTOR & COO

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Patronus

THANK YOU

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