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Disclosures

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Investment highlights

Leading global satellite operator with diversified revenue and long-term visibility across blue chip customer base



	•		
C\$609M¹	LTM Revenue	~US\$320B	Addressable Enterprise market
C\$434M¹ 71%	LTM Adjusted EBITDA ² Adjusted EBITDA margin ²	156+	Next-generation satellites with enterprise-class service
73%	Utilization rate as of September 30, 2024 Average remaining commercial life	US\$3.8B	Telesat Lightspeed is fully funded for global service
~7 years	of geostationary satellite fleet		

Telesat (NASDAQ & TSX: TSAT) is a leading global satellite operator with an established, high cash flow generative business and compelling growth opportunities backed by deep commercial, technical and regulatory expertise



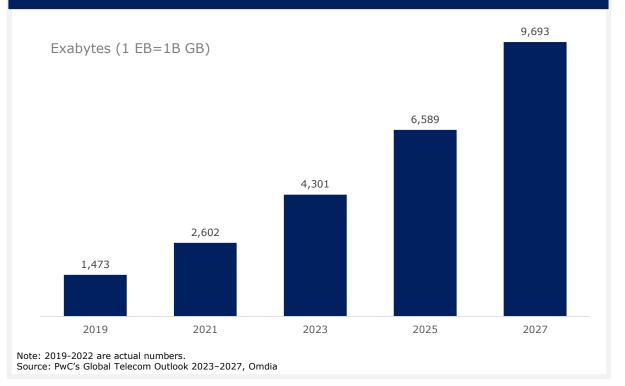
¹LTM as of September 30, 2024

² Adjusted EBITDA and Adjusted EBITDA margin are non-IFRS measures. See Appendix for reconciliation of Adjusted EBITDA and Adjusted EBITDA margin to Net Incom



Demand for broadband continues to increase dramatically with users requiring low latency connectivity





Internet, 5G and Cloud applications need low latency



+

Cloud and 5G application performance degrades with higher latency



VPN and secure encrypted links can time out over high latency links



Interactive webpages and social media apps demand low latency



Telesat Lightspeed is optimized for enterprise and government users and highly capital efficient

Guiding design principles

Customer-driven design to meet the requirements of global enterprise customers



On maximizing useable capacity per dollar of investment

Compelling enterprise value proposition



Low Latency 30 to 50 msec



High Speed & High Capacity Gbps links



Cost Effective
Transformational economics



Fully Global
Anywhere, Anytime



Reliable, Resilient and SecureDistributed, resilient and interference resistant



Advanced Enterprise Features
MEF compliant for seamless network integration;
customer ability to manage bandwidth pool

Telesat Lightspeed was designed to provide the most capable broadband solution to global enterprise customers in the most cost efficient way possible

TELESAT

Telesat Lightspeed enterprise-class service is empowered by highly advanced, state-of-the-art digital technologies



Highly flexible Digital Beamforming Antenna each satellite generates +1,500 beams ($\sim 300,000$ in total) to dynamically and efficiently deliver service to users



Digital Processor on-board each satellite supports high efficiency satellite links with full routing capability to deliver secure and dynamic global connectivity



Optical Inter-Satellite Links creating a space-based global mesh network for low latency interconnectivity, high resilience and security, and reduced investment in ground infrastructure



Global network of landing stations that scales with commercial demand and seamlessly integrates with customer networks



End to End Software Defined Network offering the level of flexibility and configurability needed to meet the demands of enterprise customers

Telesat Lightspeed Timeline

First Demo Launch
Telesat LEO 1

2018

Technology Demo on LEO 3 Network Emulator

2022

Launches Begin Field Trials

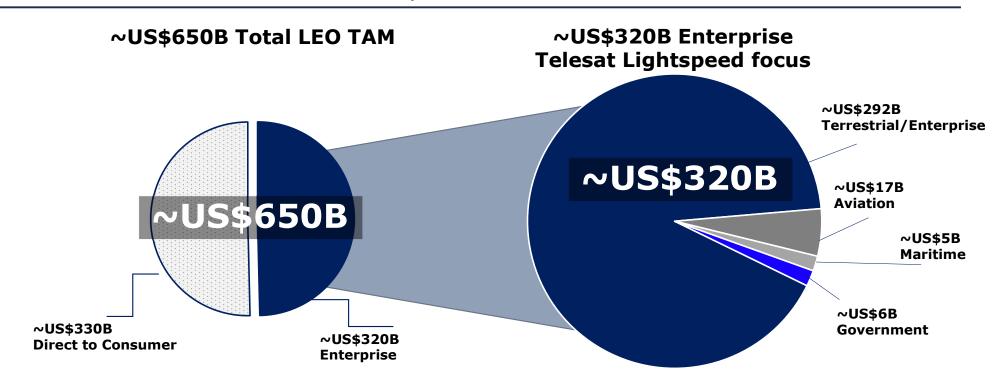
2H 2026

Global Service Begins

Late 2027

TELESAT

Telesat estimates Total Addressable Market (TAM) for LEO services in 2032 to be ~US\$650B



Telesat Lightspeed will initially focus on the ~US\$320B Enterprise market covering terrestrial enterprise, aviation, maritime and government verticals

Telesat Lightspeed delivers enterprise-class service to key market verticals that lack high-performing broadband

Enterprise/ Terrestrial



- Providing high throughput backhaul for fixed and mobile (4G/5G) networks serving rural and remote communities, enterprises and public safety users
- Backhaul to wireless towers where fiber does not exist

Maritime



- Cruise & Yacht: High quality broadband for passengers, crew
- ▲ Concentrated capacity at ports
- Energy and Merchant Ships: ship-to-shore operations; crew welfare
- ▲ Global coverage

Aviation



- Commercial aircraft and business jets: high quality broadband at every seat; flight operations
- Concentrated capacity at large airport hubs
- ▲ Global coverage

Government



- Ships, aircraft (manned and unmanned), military vehicles, and bases
- Low latency, global coverage and true end-toend encryption
- Distributed, redundant and self-healing mesh network able to bypass terrestrial networks

2032 TAM	\$292B	\$5B	\$17B	\$6B
2032 Telesat Rev. Est.	\$1.4B	\$0.5B	\$0.8B	\$0.5B
Telesat % Mkt. Share	0.5%	10.0%	4.7%	8.3%



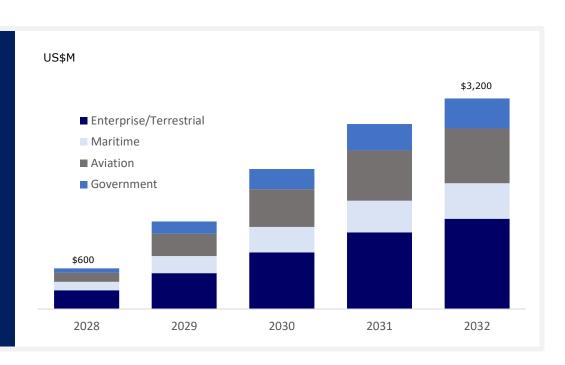
Strong support from Canadian government partners



TELESAT

Telesat expects strong LEO revenue growth driven by fast-growing demand and compelling enterprise-grade service value proposition

Telesat expects to capture ~1% of 2032 US\$320 billion Enterprise TAM with EBITDA margin in line with its historic GEO performance

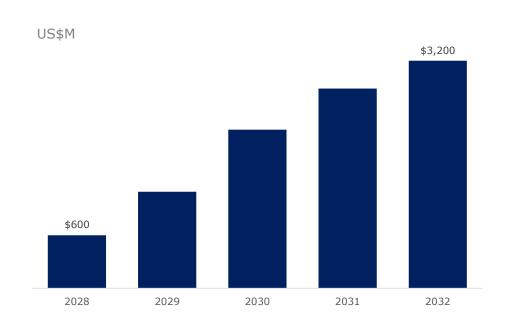


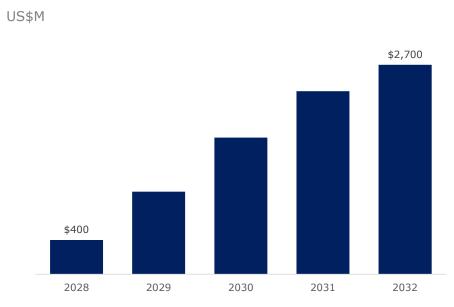


Telesat Lightspeed outlookRevenue and EBITDA

Telesat Lightspeed Revenue

Telesat Lightspeed EBITDA Margin expected to be approximately in line with historical levels by 2029





TELESAT

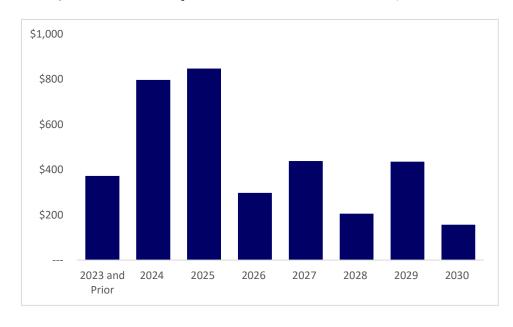
Sources and Uses Telesat Lightspeed Program | 198 Satellites

Sources of Funding (US\$)		<u>Uses Constellation Investment (US\$)</u>		
Telesat Equity	\$1.6B	Launch and Development of Initial 156 Satellites	\$2.8B	
Government Financing	\$1.9B	Operational expenditures	\$0.7B	
Vendor Financing \$0.3B		Contingency	\$0.3B	
Funding for Global Lightspeed Coverage	~\$3.8B	Total Investment for 156 Satellite Constellation	~\$3.8B	
Lightspeed Cash Flows Once Operational Fund Additional 42 Satell	ites \$0.8B	Remaining 42 Satellites and Infrastructure	\$0.8B	
Total Sources of Funding for 198 Satellite Constellation ~\$4.6B		Total 198 Satellite Constellation Investment	~\$4.6B	



Telesat Lightspeed CAPEX¹

US\$M Total Capex for 198 satellites US\$3.5B



Total Capex Program (2016-2030) (US\$B)					
6 Satellites	Add'l 42 Sats	198 Satellites			
\$1.6	\$0.5	\$2.1			
\$0.7	\$0.1	\$0.9			
<u>\$0.4</u>	<u>\$0.2</u>	<u>\$0.6</u>			
\$2.8	\$0.8	\$3.5			
	\$1.6 \$0.7 <u>\$0.4</u>	\$0.7 \$0.1 \$0.4 \$0.2			

¹156 satellites in service scheduled early 2028, additional 42 satellites in service scheduled end of 2030

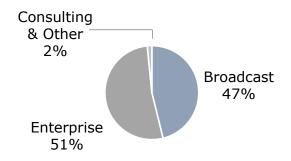




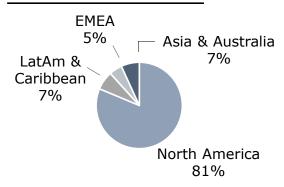
Revenue supported by blue chip customers and diversified by application and region

15 in orbit GEO satellites today

By Service Type



By Region





Enterprise 51%

- Satellite-delivered broadband and communications services for telcos, MNOs, ISPs, aviation, maritime, oil & gas, and government users
- Support networks for telecom operators, resellers and integrators





Broadcast 47%

- ▲ Leading North American Direct-to-Home TV providers









Consulting 2%

- ▲ Establishing, operating and upgrading 3rd party satellite systems worldwide (40+ countries)
- ▲ Assisted in over 100 satellite systems













Financial Highlights

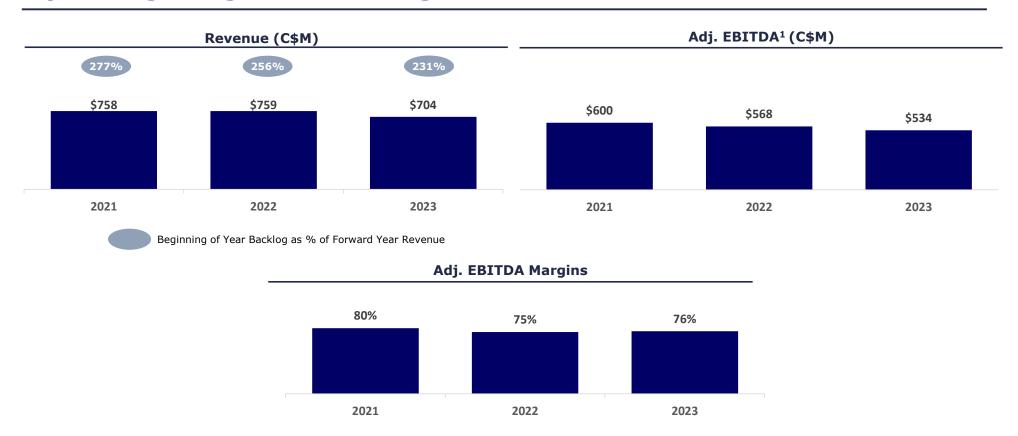
C\$1.0B Significant contractual backlog provides high revenue visibility Revenue Backlog¹ 73% GEO fleet Capital efficient business model with high asset utilization utilization1 ~83% GEO Margin Demonstrated disciplined execution enables High Adjusted EBITDA margin (2023)Telesat Lightspeed Strategically investing for long-term growth Program Fully Funded for Global Service Significant opportunity for growth at scale and value creation with Telesat ~US\$320B Enterprise Lightspeed TAM

² Adjusted EBITDA margin as of FY 2023 is a non-IFRS measure. Please refer to the Appendix for a reconciliation of Adjusted EBITDA and Adjusted EBITDA margin to Net Income.



¹ As of 9/30/202

Consistent and stable historical financial performance – high operating margins and strong cash flow



¹ Adjusted EBITDA and Adjusted EBITDA margin are non-IFRS measures. Please refer to the Appendix for a reconciliation of Adjusted EBITDA and Adjusted EBITDA Margin to net income.



Recent Performance – First Nine Months 2024 Update

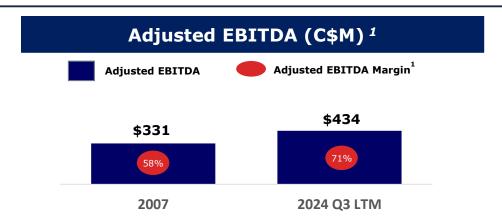
- ▲ Generated total revenues of C\$443 million in the first nine months of 2024.
 - YTD decrease in revenues of C\$95 million (or 17.7%) compared to the same period last year. Adjusting for changes in foreign exchange rates, revenues declined 18.3% or C\$98 million compared to 2023.
 - The decrease was mainly due to a reduction of revenue from one of Telesat's North American DTH customers and lower revenue from certain mobility and Latin American customers.
- ▲ Operating expenses of C\$149 million in the first nine months of 2024.
 - YTD decrease in operating expenses of C\$5 million from 9Mos23. Forex impact was minimal.
 - The decrease was primarily due to lower non-cash share-based compensation and higher capitalized engineering associated with Telesat Lightspeed, partially offset by higher bad debt expense, professional fees, and increased headcount at Lightspeed.
- ▲ Adjusted EBITDA of C\$310 million in the first nine months of 2024.
 - YTD decrease in EBITDA of C\$100 million (or 24.4%), or \$104 million (25.3%) after adjusting for changes in foreign exchange rates.
 - Adjusted EBITDA margin was 70.0%, compared to 76.2% in 9Mos23.
- ▲ As of September 30, 2024, contracted backlog for future services (excluding Telesat Lightspeed) stood at approximately C\$1.0 billion, with fleet utilization at 73%.

Financial Summary - Total					
(C\$M)	9 Mos 23 9 Mos 24				
Revenue	\$538.3	\$443.0			
Adj. EBITDA % Margin	\$410.4 76.2%	\$310.3 70.0%			

Financial Summary - GEO Only					
(C\$M)	9 Mos 23 9 Mos 24				
Revenue	\$530.6	\$429.4			
Adj. EBITDA % Margin	\$445.5 84.0%	\$346.0 80.6%			



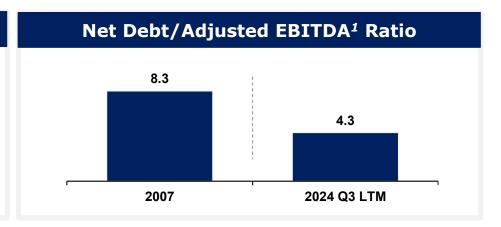
Strong financial performance and value creation



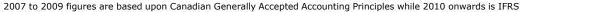
Cash Generation and Uses

Between 2007 and Q3 2024, Telesat:

- C\$3.7B invested in new satellites and other assets
- C\$1.2B returned to shareholders
- C\$1.2B outstanding notes and term loan repurchased
- C\$0.5B pre-paid in Term Loan
- Notes and Term Loan reductions represent approx.
 36% of overall debt



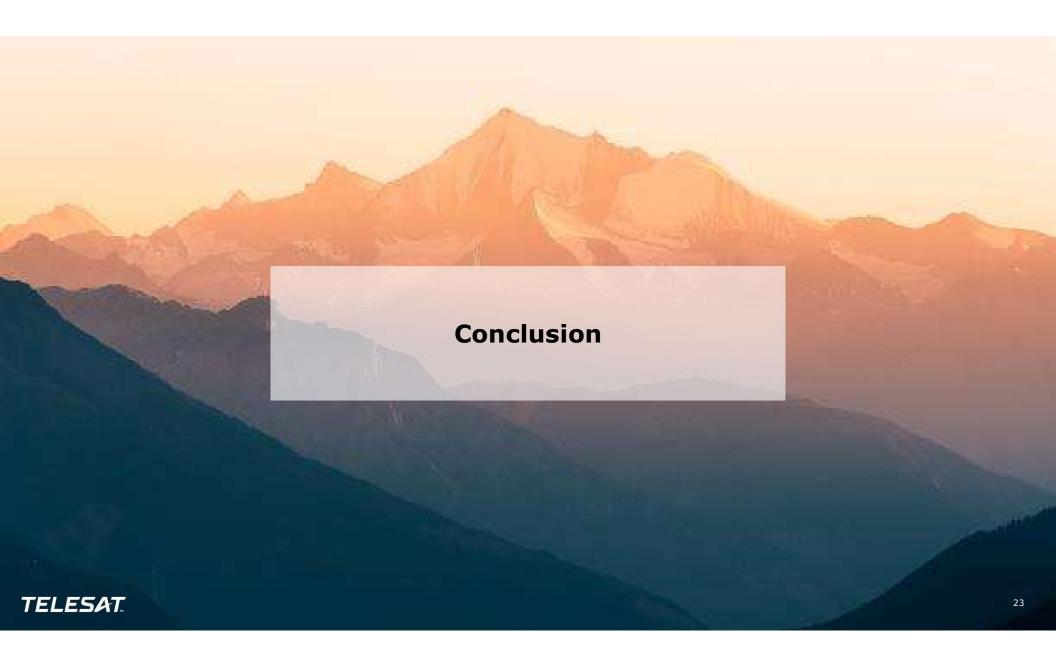




Net debt is defined as gross short and long-term indebtedness less cash and short-term investments; 2007 excludes Senior Preferred Shares and swap liability from debt

1 Adjusted EBITDA and Adjusted EBITDA margin are non-IFRS measures. Refer to Appendix for reconciliation of Adjusted EBITDA and Adjusted EBITDA margin to Net Income

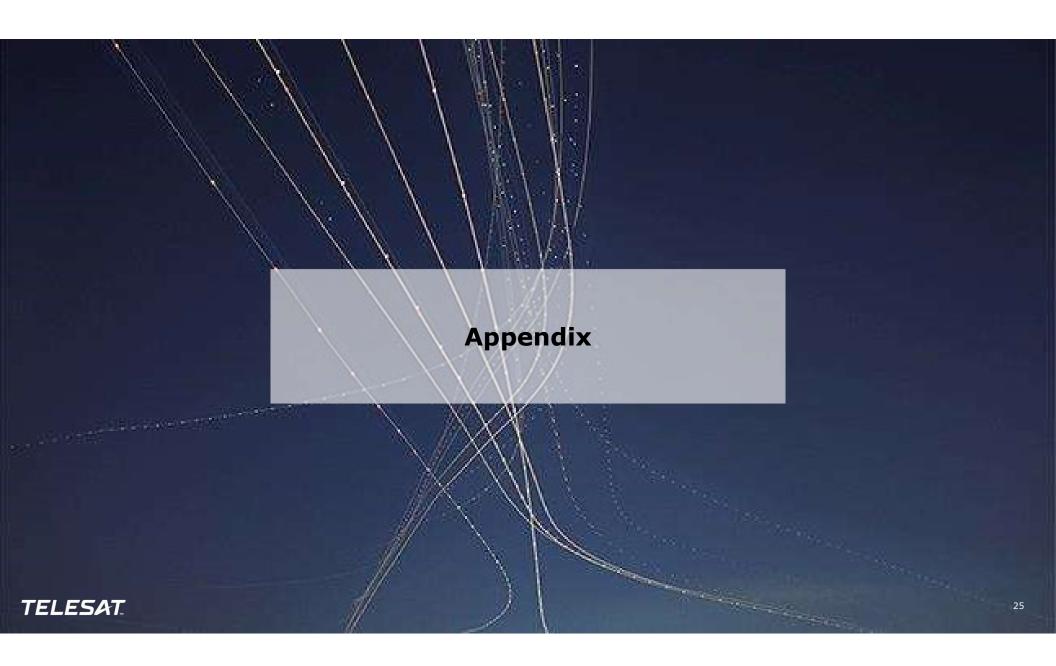




Telesat is strongly positioned to execute its growth plan and create significant shareholder value

- 55+ years of innovation, industry firsts, engineering excellence and world class customer service
- Longstanding and trusted provider of mission-critical, enterprise-grade communications services to enterprise and government users
- Telesat Lightspeed is optimized to meet fast-growing requirements of enterprise and governments users in the most cost efficient manner
- Telesat Lightspeed is fully funded with substantial contractual backlog
- Telesat has the strong support of Canada's Federal and Provincial governments





Revenue and Adjusted EBITDA Reconciliation: LTM September 2024

C\$000

	<u>4023</u>	9 Mos 24	3024 TTM
Net Income (loss)	\$39,340	\$144,764	\$184,104
Tax Expense (recovery)	(10,224)	40,192	29,968
(Gain) loss on foreign exchange	(77,577)	67,215	(10,362)
Interest and other income	(17,768)	(57,033)	(74,801)
Interest expense	65,179	185,815	250,994
Gain on repurchase of debt	(8,618)	(193,690)	(202,308)
Depreciation	42,602	100,272	142,874
Amortization	3,166	8,438	11,604
Other operating (gains) losses, net	79,900	(2,254)	77,646
Non-recurring compensation expenses	385	2,065	2,450
Non-cash expense related to share-based compensation	<u>6,949</u>	<u> 14,504</u>	<u>21,453</u>
Adjusted EBITDA	\$123,334	\$310,288	\$433,622
Revenue	\$165,901	\$443,049	\$608,950
LTM Adjusted EBITDA Margin	74.3%	70.0%	71.2%



Adjusted EBITDA Reconciliation: 2021-2023

	FY2021	FY2022	FY 2023
Revenue	\$758,212	\$759,169	\$704,161
Net Income (loss)	\$155,025	\$(80,117)	\$583,270
Tax Expense (recovery)	78,377	49,929	89,596
(Gain) loss on changes in fair value of financial instruments	18,684	(4,314)	
(Gain) loss on foreign exchange	(27,539)	239,591	(77,758)
Interest and other income	(3,418)	(23,476)	(66,532)
Interest expense	187,994	221,756	270,350
Gain on repurchase of debt	203,772	188,755	(230,080)
Depreciation	15,983	14,979	182,669
Amortization	(107,615)	(7)	13,093
Other operating (gains) losses, net	-	(106,916)	(264,999)
Non-recurring compensation expenses	5,423	305	1,078
Non-cash expense related to share-based compensation	73,723	67,428	33,015
Adjusted EBITDA	\$600,409	\$567,913	\$533,702
% Margin	79.2%	74.8%	75.8%



Adjusted EBITDA Reconciliation: 2007

	d year ended ber 31, 2007
Operating revenues	\$ 569,203
Net (loss) earnings	\$ 77,691
Income tax (recovery) expense	(5,093)
Other expense	1,412
Loss on foreign exchange	118,969
(Gain) loss on foreign exchange	(68,445)
Interest expense	52,409
Impairment loss on long-lived assets	2,116
Amortization	145,834
Non-cash expense related to share-based compensation	5,867
Adjusted EBITDA	\$ 330,760

Adjusted EBITDA margin 58.1%



Telesat's commitment to ESG

Environmental

1. Responsible use of space

- 55+ years of experience
- Advanced features to mitigate space traffic and limit debris
- Minimized carbon footprint through low number of satellites and launches

2. Enabling net zero emissions

 High-speed, ubiquitous broadband key for clean tech and reducing energy and fuel consumption

3. Global environmental monitoring and climate change / emissions tracking

 Support real-time data transport requirements for mission-specific Earth observation satellites

4. Protecting sensitive and biodiverse environments

 Delivering high-quality Internet from space without disrupting local ecosystems

Social

1. Committed to STEM community

- Major employer of co-op students
- · Women in STEM Annual Scholarship

2. Committed to Indigenous communities

- Critical connectivity provider, closely engaged with Indigenous ISPs and community leaders
- · Indigenous Youth Fellowship

3. Connecting scientific research outposts globally

4. ESG strategy aligned with several UN SDGs*

- Universal access to broadband as a UN-defined human right
- Supporting other essential rights (education, healthcare, remote work) and reducing inequalities

Governance

- 1. Equal votes across shareholders
- 2. Independent directors
- 3. Strong track record of compliance with public company standards prior to public listing
- 4. 55+ years of service and partnership with blue-chip customers globally



Telesat's ESG priorities are central to the Telesat Lightspeed network and in line with global best practices and highest business standards



