

Investor Presentation November 2024

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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		 Developing highly advanced low earth orbit (LEO) satellite network to capture fast growing enterprise broadband market 	
C\$609M ¹	LTM Revenue	~US\$320B	Addressable Enterprise market
C\$434M ¹	LTM Adjusted EBITDA ²		
71%	Adjusted EBITDA margin ²	156+	Next-generation satellites with enterprise-class service
C\$1.0B	In contracted GEO backlog as of September 30, 2024	US\$4.6B	Telesat Lightspeed is fully funded for global service
73%	Utilization rate as of September 30,		
~7 years	2024 Average remaining commercial life of geostationary satellite fleet	US\$0.5B	In contracted LEO backlog as of September 30, 2024

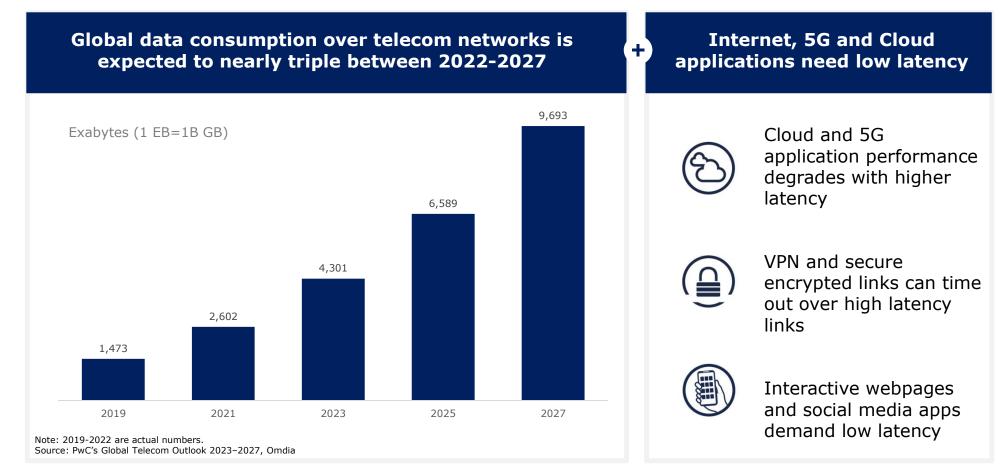
Telesat (NASDAQ & TSX: TSAT) is a leading global satellite operator with an established, high cash flow generative business and compelling growth opportunities backed by deep commercial, technical and regulatory expertise

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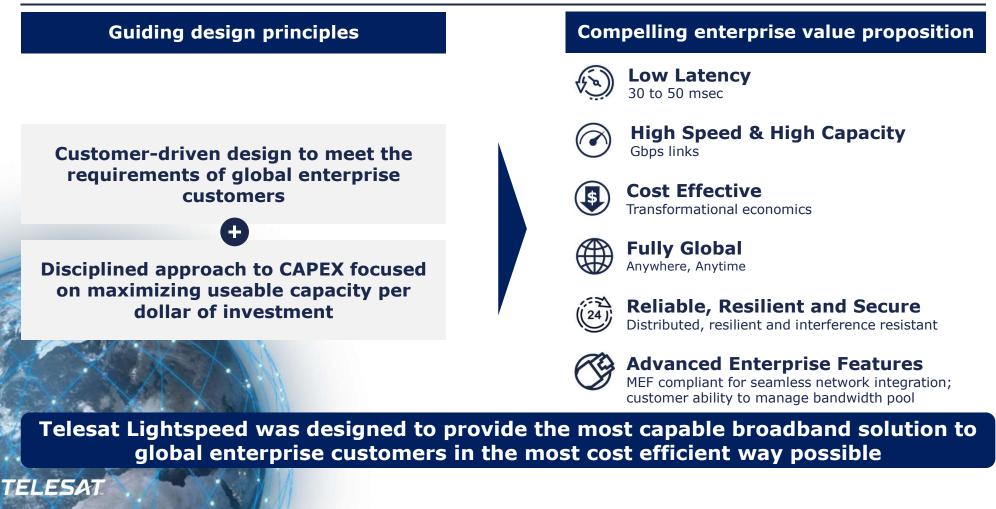
¹ LTM as of September 30, 2024 ² Adjusted EBITDA and Adjusted EBITDA margin are non-IFRS measures. See Appendix for reconciliation of Adjusted EBITDA and Adjusted EBITDA margin to Net Income

Telesat Lightspeed

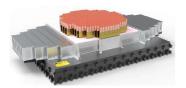
Demand for broadband continues to increase dramatically with users requiring low latency connectivity



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



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 (~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



TELESAT

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

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Telesat Lightspeed will bring differentiated features and capabilities to its customers

	Capabilities	LIGHTSPEED	STARLINK	amazon project kuiper	
	Global LEO Coverage¹ Without dead zones and including Polar Regions				
Technical	Ground Connect Options Option of private/public network connect				
Tech	User-Terminal Flexibility Ability to leverage third-party ² & high-throughput hardware/UTs				
	Layer 2 (Ethernet) & Internet Flexibility to connect to data centers or direct to internet				
omer	Enterprise-Class SLAs Industry standard (MEF 3.0, APIs, etc.) service guarantees				
Custome	Service Flexibility Offers channel partners & users flexibility for custom services & packages				

1 OneWeb Gen 1 includes dead zones

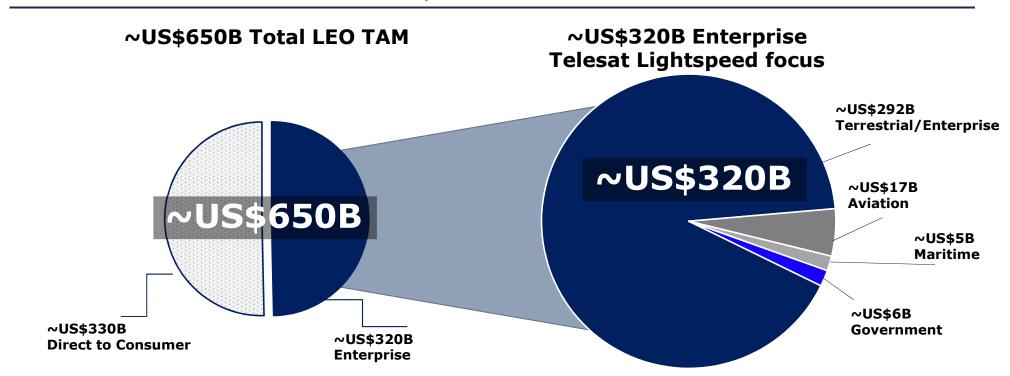
2 Starlink Ku terminals are a wholly closed-ecosystem (cannot bring 3rd party terminals), and cannot support high-throughput data rates outside of community gateways



Telesat Lightspeed Timeline



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 | Source: ITU, International Civil Aviation Organization, UNCTAD, NSR, International Defense Budgets, US Department of Defense Budgets, Management's Analysis and Estimates

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

	Enterprise/ Terrestrial	Maritime	Aviation	Government
	 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 	 Cruise & Yacht: High quality broadband for passengers, crew Concentrated capacity at ports Energy and Merchant Ships: ship-to-shore operations; crew welfare Global coverage 	 Commercial aircraft and business jets: high quality broadband at every seat; flight operations Concentrated capacity at large airport hubs Global coverage 	 Ships, aircraft (manned and unmanned), military vehicles, and bases Low latency, global coverage and true end-to-end 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

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Telesat % Mkt. Share

0.5%

2032 TAM; Source: ITU, International Civil Aviation Organization, UNCTAD, NSR, International Defense Budgets, US Department of Defense Budgets, Management's analysis and estimates

4.7%

10.0%

8.3%

Governments of Canada, Ontario and Quebec strongly support Telesat Lightspeed: ~US\$2.4 Billion in aggregate funding



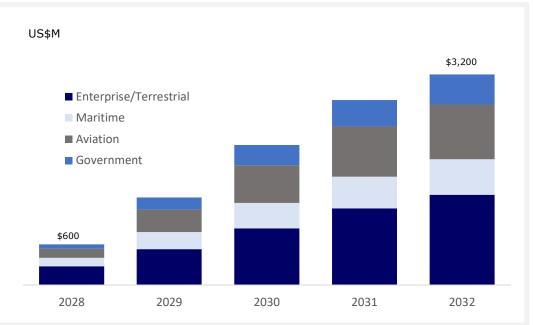
"As a global leader in the new space economy, Canada is proud to see two domestic champions [Telesat and MDA] join forces on this flagship Canadian program to create high-skilled jobs and support cutting-edge innovation in the telecom industry, helping unlock economic and social opportunities in Canada's rural and remote communities.

Canada remains a strong supporter of Telesat Lightspeed and will continue to help solve some of the most pressing challenges we face here on Earth, from bridging the digital divide, to health, climate change, national security, and more"

- The Hon. François-Philippe Champagne, Min. of Innovation, Science and Industry of Canada

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

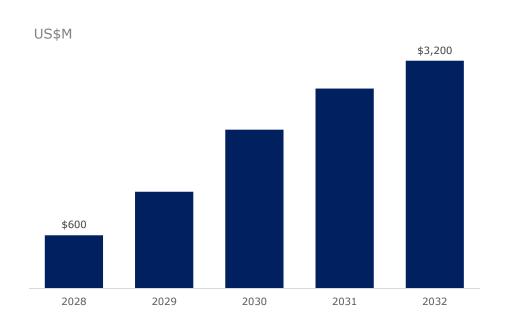
Telesat expects to capture ~1% of 2032 US\$320 billion Enterprise TAM with EBITDA margin in line with its historic GEO performance



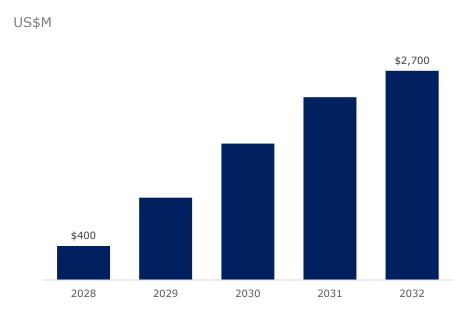
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Telesat Lightspeed outlook Revenue and EBITDA

Telesat Lightspeed Revenue



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

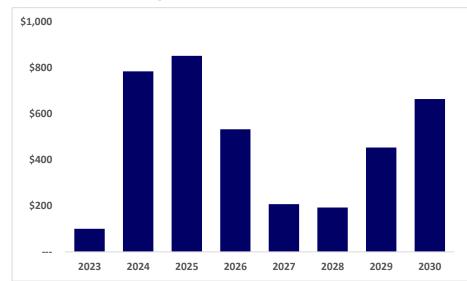


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Sources and Uses Telesat Lightspeed Program | 198 Satellites

	Uses Constellation Investment (US\$)	
\$1.6B	Launch and Development of Initial 156 Satellites	\$2.8B
\$1.9B	Operational expenditures	\$0.7B
\$0.3B	Contingency	\$0.3B
~\$3.7B	Total Investment for 156 Satellite Constellation	~\$3.7B
es \$0.9B	Remaining 42 Satellites and Infrastructure	\$0.9B
~\$4.6B	Total 198 Satellite Constellation Investment	~\$4.6B
	\$1.9B \$0.3B ~\$3.7B	\$1.6B Launch and Development of Initial 156 Satellites \$1.9B Operational expenditures \$0.3B Contingency ~\$3.7B Total Investment for 156 Satellite Constellation res \$0.9B Remaining 42 Satellites and Infrastructure

Telesat Lightspeed CAPEX¹



US\$M Total Capex for 198 satellites US\$3.6B

Total Capex Program (2023-2030) (US\$M)				
	<u>156 Satellites</u>	Add'l 42 Sats	<u>198 Satellites</u>	
Satellite Costs	\$1,608	\$458	\$2,066	
Launch Costs (inc. Insurance)	\$713	\$221	\$934	
Ground Network and Other	\$434	\$190	\$624	
Total Capex Costs	\$2,755	\$869	\$3,624	

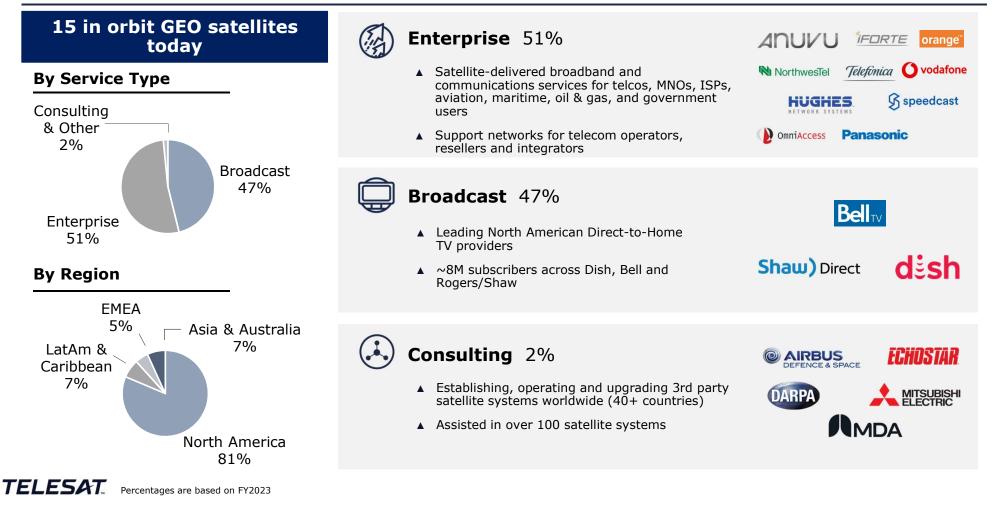
¹ Note

156 satellites in service scheduled early 2028 42 satellites in service scheduled end of 2030 See slide 10

Telesat – A History of Strong Operational and Financial Performance



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



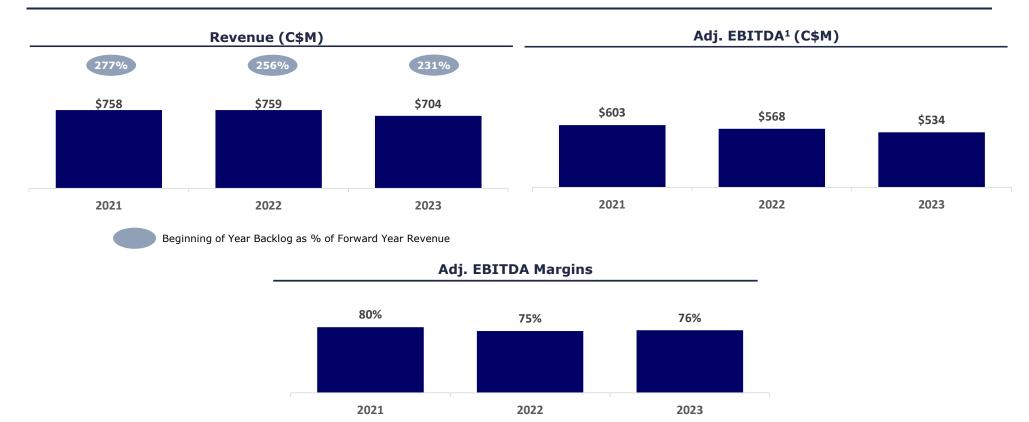
Financial Highlights

Significant contractual backlog provides high revenue visibility	<i>C\$1.0B Revenue Backlog¹</i>
Capital efficient business model with high asset utilization	73% GEO fleet utilization ¹
Demonstrated disciplined execution enables High Adjusted EBITDA margin	~83% GEO Margin (2023)
Strategically investing for long-term growth	Telesat Lightspeed Program Fully Funded for Global Service
Significant opportunity for growth at scale and value creation with Telesat Lightspeed	~US\$320B Enterprise TAM

1 As of 9/30/2024

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.

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

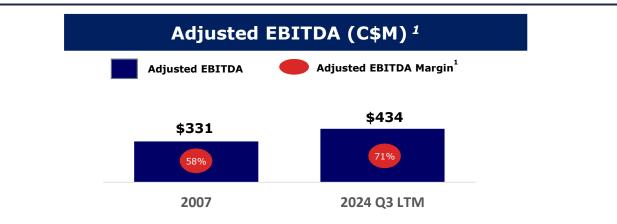
- ▲ Generated total revenues of C\$443 million in the first nine months of 2024.
 - YTD decrease in revenues of C\$95 million (or 17.7%) compared to the same period last year. Adjusting for changes in foreign exchange rates, revenues declined 18.3% or C\$98 million compared to 2023.
 - The decrease was 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%.

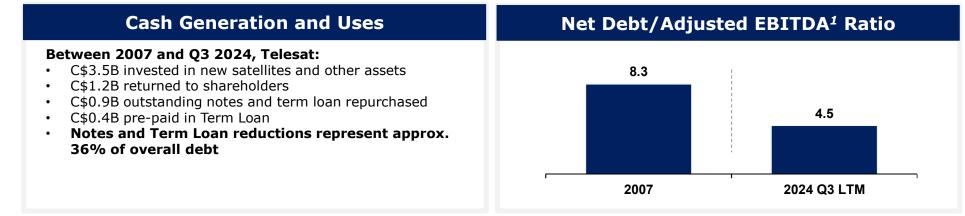
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Financial Summary - Total					
(C\$M)	9 Mos 23 9 Mos 24				
Revenue	\$538.3	\$443.0			
Adj. EBITDA % Margin	\$410.4 76.2%	\$310.3 70.0%			

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





LTM as of September 30, 2024

2007 to 2009 figures are based upon Canadian Generally Accepted Accounting Principles while 2010 onwards is IFRS

TELESAT 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

Conclusion



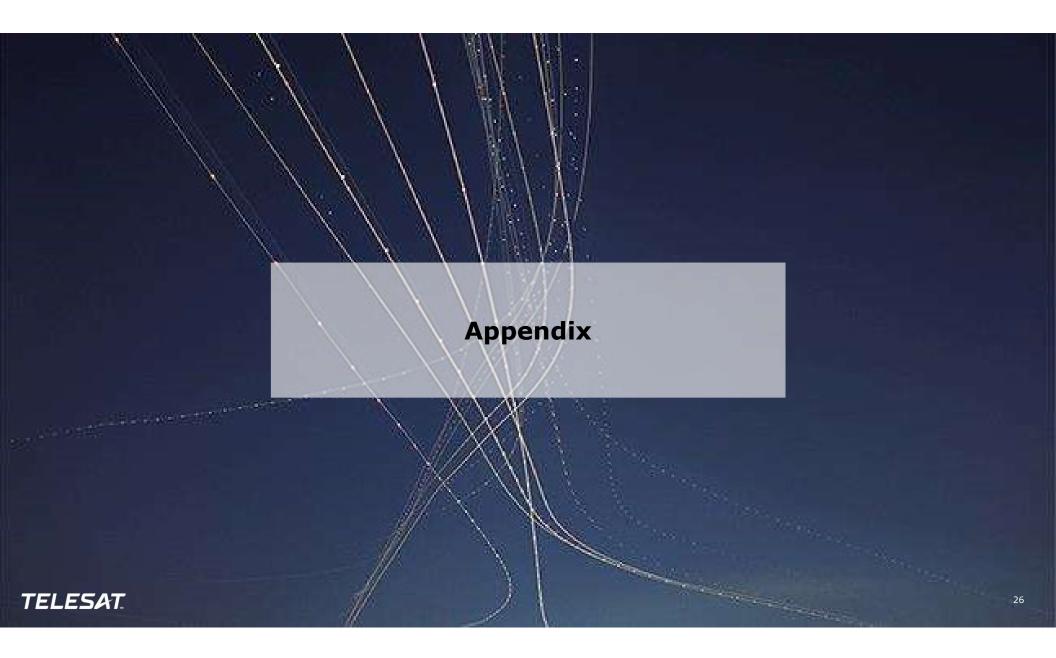
Telesat is strongly positioned to execute its growth plan and create significant shareholder value

- 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

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- Telesat Lightspeed is fully funded with ~US\$0.5B of contractual backlog
- Telesat has the strong support of Canada's Federal and Provincial governments





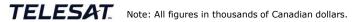
Revenue and Adjusted EBITDA Reconciliation: LTM September 2024

C\$000

	<u>4023</u>	<u>9 Mos 24</u>	<u>3Q24 TTM</u>
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%

4022

0 Maa 24 2024 TTM



Adjusted EBITDA Reconciliation: 2021-2023

	<u>FY2021</u>	<u>FY2022</u>	<u>FY 2023</u>
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	<u>73,723</u>	<u>67,428</u>	<u>33,015</u>
Adjusted EBITDA	\$600,409	\$567,913	\$533,702
% Margin	79.2%	74.8%	75.8%

TELESAT. Note: All figures in thousands of Canadian dollars.

Adjusted EBITDA Reconciliation: 2007

Operating revenues	Combined year ended December 31, 2007	
	\$ 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. Note: All figures in thousands of Canadian dollars. Values are based upon Canadian Generally Accepted Accounting Principles

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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

1. Committed to STEM community

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

2. Committed to Indigenous communities

Social

- 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



*The United Nations identifies 17 Sustainable Development Goals



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