Canada's Expanding Space Economy: Economic Impacts of Global Trends & I

Space Exploration · Answer Key · 10 Questions

1. What was the approximate contribution of Canada's space sector to its GDP in 2023, and what was the percentage growth from the previous year?

A) $3.4 billion, a 4.1% increase

B) $5.1 billion, a 0.8% increase

C) $2.3 billion, a 2.0% increase

D) $3.8 billion, a 6.3% increase

2. How does the Canadian space sector's economic impact on the larger economy compare to its direct GDP contribution?

A) For every dollar contributed to GDP, an additional $0.90 is generated in the broader economy.

B) For every dollar contributed to GDP, an additional $1.90 is generated in the broader economy.

C) For every dollar contributed to GDP, an additional $0.50 is generated in the broader economy.

D) The space sector's impact is limited to its direct GDP contribution.

3. What is the projected impact of Canada's investment of $528.5 million into European Space Agency (ESA) programs on Canadian businesses?

A) It is expected to result in over three dollars in follow-on sales for every dollar awarded through ESA contracts.

B) It will primarily benefit European companies, with minimal return for Canadian businesses.

C) It will secure contracts for Canadian companies that will generate over five dollars in follow-on sales per dollar invested.

D) The investment is purely for research and development, with no direct economic returns expected for Canadian companies.

4. Which of the following represents a key sector experiencing growth within Canada's space economy, as indicated by recent reports?

A) Satellite communication (broadcasting)

B) Earth observation and space exploration

C) Space tourism infrastructure

D) Traditional satellite manufacturing

5. What is the estimated return on investment (ROI) for CSA funding programs, according to recent analyses?

A) For every dollar invested, three dollars and sixty cents are returned through follow-on revenues five years after project completion.

B) For every dollar invested, one dollar is returned through follow-on revenues five years after project completion.

C) For every dollar invested, five dollars are returned through follow-on revenues ten years after project completion.

D) The ROI for CSA programs is not publicly disclosed.

6. What is the significance of the Canadarm3 project for Canada's involvement in space exploration?

A) It is Canada's contribution to the Lunar Gateway, a sophisticated robotic system for human space exploration.

B) It is a new satellite constellation for enhanced global communication.

C) It is a de-orbiting system designed to manage space debris.

D) It is a scientific instrument for deep-space astronomical observation.

7. What is the approximate number of jobs directly supported by Canada's space sector, and how many additional jobs are supported in the wider Canadian economy?

A) Approximately 13,888 direct jobs and an additional 12,592 jobs in the wider economy.

B) Approximately 10,000 direct jobs and an additional 5,000 jobs in the wider economy.

C) Approximately 28,000 direct jobs and an additional 15,000 jobs in the wider economy.

D) Approximately 8,000 direct jobs and an additional 3,330 jobs in the wider economy.

8. Which of the following areas is Canada leveraging its leadership in to drive innovation in space exploration?

A) Biotechnology and pharmaceuticals

B) Artificial Intelligence (AI) and robotics

C) Advanced materials science

D) Quantum computing

9. What is the estimated annual contribution of satellite Earth observation (EO) and geospatial information to the Canadian economy in terms of productivity improvements?

A) $20.7 billion

B) $12.1 billion

C) $5.1 billion

D) $3.4 billion

10. What is the stated goal of NordSpace Ventures, a Canadian space launch services startup?

A) To fund startups that support satellite launch activities and boost Canada's spacetech ecosystem, aiming for 'launching Canadian payloads on Canadian rockets from Canadian soil'.

B) To focus solely on developing advanced rocket propulsion systems for interplanetary travel.

C) To acquire and integrate existing European space technology for Canadian use.

D) To exclusively develop satellite internet services for remote Canadian communities.