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# Future Fighter Capability Project

**Delivering Canada's Future Fighter Capability**  
Future Fighter Industry Day – 22 January 2018

# OUTLINE



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# DISCLAIMER



The information provided today is subject to change and is intended for discussion purposes only. Due to the interactive nature of the Future Fighter Industry Day, any verbal statements made by Canada's representatives will not be binding for purposes of the Suppliers List Invitation or the procurement process. Only the information released by Canada in the Suppliers List Invitation or in other procurement documents should be followed when preparing a response. Any verbal comments by Canada must not be construed as a preference, rejection or assessment of any solution. Canada reserves the right to consider comments and suggestions received during the Future Fighter Industry Day.

# 1. PROJECT OBJECTIVE



The successful acquisition and entry into service of 88 advanced fighter aircraft along with the associated equipment, weapons and sustainment capability that leverages Canadian capabilities and contributes to economic growth and jobs.



# 2. PROJECT SCOPE



- 88 advanced fighter aircraft
- Initial Weapons and Stores
- Infrastructure
- Sustainment Set-up
  - Initial Spares
  - Support Equipment
  - Software and Mission Data Support
  - Mission Planning/Debriefing Capability
  - Technical Data and associated Intellectual Property Rights
  - Training Devices, Equipment and Courseware (operational and support)
  - Initial Training (operational and support)
- Initial Sustainment Services
  - Fleet and Program Management
  - Engineering Support
  - Maintenance (aircraft, simulators, support equipment)
  - Materiel Management
  - Information Management
  - Training (operational and support)

# 3. COMPETITION SCOPE



- 88 advanced fighter aircraft ..... ➤ ✓
- Initial Weapons and Stores..... ➤ To be determined
- Infrastructure..... ➤ To be determined
- Sustainment Set-up
  - Initial Spares ..... ➤ ✓
  - Support Equipment..... ➤ ✓ (aircraft specific)
  - Software and Mission Data Support..... ➤ ✓
  - Mission Planning/Debriefing Capability ... ➤ ✓
  - Technical Data and associated Intellectual Property Rights ..... ➤ ✓
  - Training Devices, Equipment and Courseware (operational and support) ... ➤ ✓
  - Initial Training (operational and support).. ➤ ✓

# 3. COMPETITION SCOPE (cont'd)



- Initial Sustainment Services
  - Fleet and Program Management
  - Engineering Support
  - Maintenance (aircraft, simulators, support equipment)
  - Materiel Management
  - Information Management
  - Training (operational and support)
- ❖ The duration of the initial sustainment services contract(s) / agreement(s) remains to be determined and will be informed through Supplier engagement
- These activities will be shared between the Supplier and the CAF/DND

# 4. OUTCOMES FOCUS



- Outcome – “what” rather than the “how”
- Objective – enable potential suppliers to provide their best solution that meets Canada’s requirements
- Approach – minimize constraints and focus on high-level outcomes (required and desired)
  - High level outcome example – mission effectiveness for each mission
- Challenge – we need to be able to evaluate the solution and ensure it will meet our requirements
- Result – expect a mix of high level requirements and detailed requirements
  - Detailed requirements example – cold weather requirements

# 4. OUTCOMES FOCUS (cont'd)

## AIRCRAFT CAPABILITY OUTCOMES



- Mission Capable Fighter Platform
  - Aircraft, weapons, mission planning, ground systems for successful mission completion
- Interoperable within NORAD and NATO
- Delivered When Needed
  - Considering risk from development, integration, production
- Viable Over the Long Term
  - Sustainability, maintainability, upgradeability
  - Acceptable cost and technical risk

# 5. PROJECT BUDGET



- Acquisition budget of \$15B-\$19B Cdn announced as part of “Strong, Secure, Engaged” Defence Policy
- Project acquisition budget addresses the entire acquisition scope as well as the costs associated with conducting the competition.
  - 88 advanced fighter aircraft
  - Initial Weapons and Stores
  - Infrastructure
  - Sustainment Set-up
- The budget will be informed by ongoing project definition work including engagement with governments and industry.

The capability must be affordable to buy, operate and sustain.  
The evaluation will be considering not only acquisition costs, but the anticipated Life Cycle Costs

# 6. PROJECT TIMELINE



- Contract Award – 2021/2022
- First aircraft delivery to Canada – 2025
- Initial Operational Capability – 2026 (one Squadron)
- Full Operational Capability – 2031 (4 operational squadrons, plus training)
- Retirement of last CF-18 - 2032
- Training:
  - Initial Cadre Training – 2024/2025 (Host Nation)
  - Transition Training – 2025-2031
  - Steady State Training – 2031 onward
- ❖ The project timeline will be refined through engagement with potential suppliers and will be accelerated if possible

# 7. KEY DISCUSSION TOPICS – SYSTEMS ENGINEERING



- Ensuring interoperability using systems that can be operated with 5- and 2-eyes (CAN-US) data and US-origin (ITAR) equipment
  - Especially mission data (EW) and crypto capabilities
  - Could lead to a need to replace/integrate systems
  - Intellectual Property and technical data required for security assessments/approvals
- Access to detailed, sensitive data (Secret/Top Secret) for proposal evaluation
- Support for operational flight program software and mission data
- Long-term capability upgrades

# 7. KEY DISCUSSION TOPICS (Cont'd) – INFRASTRUCTURE



- In addition to infrastructure outside of the military base that the eventual Supplier may have to construct or secure to support the Future Fighter capability, it is possible that some flight line infrastructure could be included in the competition. The requirements could include the facility design, build and operation
  - The team will be seeking to understand what infrastructure Suppliers believe should be included in the competitive process and why
  - The team is interested in better understanding the challenges foreseen by potential Suppliers in providing a design, build and operation solution

# 8. SUMMARY



- The project scope is that required to deliver the Future Fighter capability
- The competition scope is a subset of the project scope
- The requirements and evaluation criteria will be high-level and outcomes-focused to the extent possible
- Canada will be engaging with potential suppliers to inform the requirements, criteria, budget and timelines

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