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# Future Naval Training System Industry Day

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## Welcome!

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# Housekeeping

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A few notes before we begin...



Presenters



Language of your choice



Presentation material



Audience questions



Technology

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# Agenda

Start Time	Event	Allocated time	Presented by
13:00	Welcome and Round Table	15 minutes	<p>Pascale Archambault - A/Director General – PSPC</p> <p>Mark Gray - Deputy Director – ISED</p> <p>Capt (N) Jason Boyd - Commander Naval Personnel and Training Group - RCN</p>
	Overview of PSPC Proposed Engagement Approach	20 minutes	<p>Matthew Henry A/Senior Director - PSPC</p>
	NTST Overview & Industrial and Technological Benefits	25 minutes	<p>Cdr Bradley White Royal Canadian Navy</p> <p>Juthika Hasan Project Officer - ISED</p>
14:00	Break	20 minutes	
	Procurement overview	15 minutes	<p>Matthew Henry A/Senior Director - PSPC</p>
	Questions and Answers	60 minutes	PSPC AP & RCN
	Closing Remarks		

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# Opening Remarks

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# PROPOSED PROCUREMENT APPROACH

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# Rules of Engagement

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- ☐ The Industry Engagement period begins with the RFI and concludes when an official ITQ and/or RFP is published on [BuyandSell.gc.ca](https://buyandsell.gc.ca).
- ☐ Overriding principles of Industry Engagement:
  - ☐ To be conducted with the utmost fairness and equity between all parties.
  - ☐ Suppliers have completed and submitted the Rules of Engagement form.
  - ☐ Canada will not disclose proprietary or commercially sensitive information.
  - ☐ All enquiries to be directed to the Contracting Authority.
  - ☐ Canada not obliged to issue any Invitation to Qualify (ITQ), Request for Proposal (RFP), or to award any Contract.
  - ☐ Any information submitted as part of this Process may be used by Canada in the development of a subsequent competitive ITQ and/or RFP.

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# Information Session Objectives

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- ☐ Introduce the various stakeholders;
- ☐ Inform and consult with industry on the proposed procurement timelines;
- ☐ Provide Industry with the context and details of the requirement;
- ☐ Receive any feedback from Industry; and
- ☐ Answer questions from Industry on the requirement.

# Project Team

## Contracting Authority

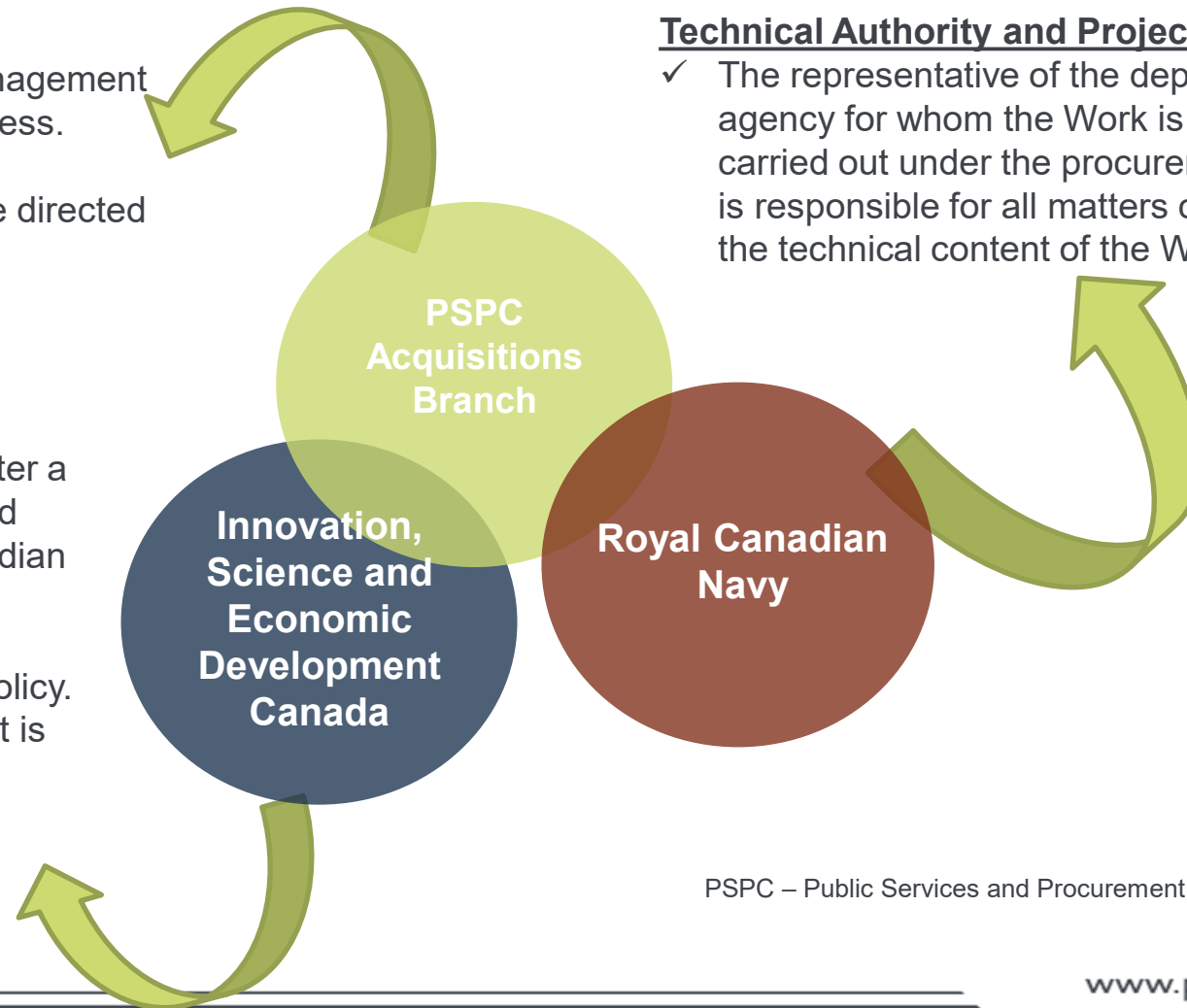
- ✓ Responsible for the management of the procurement process.
- ✓ All enquiries and other communications shall be directed exclusively to the PSPC Contracting Authority.

## ISED

- ✓ ISED's mission is to foster a growing, competitive and knowledge-based Canadian economy.
- ✓ Responsible for administering the ITB Policy.
- ✓ Provides insight on what is required of contractors under the ITB Policy.

## Technical Authority and Project Sponsor

- ✓ The representative of the department or agency for whom the Work is being carried out under the procurement and is responsible for all matters concerning the technical content of the Work.



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# Role of PSPC – Acquisitions Program

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- ❑ Serve federal departments and agencies as a central purchasing agent.
- ❑ One of the core values for all procurement at PSPC is **Integrity**.
- ❑ Acquisition Program's mission, who we are and what we do.

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# Agile Procurement

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**A modern, efficient procurement process that respects the principles of openness, fairness, transparency, flexibility and collaboration.**

The GC is committed to modernizing procurement processes to increase value for taxpayers, while decreasing the burden for businesses. An Agile Procurement Process (APP) will result in:

- improved investment manageability,
- improved likelihood of project success,
- increased focus on value and shortened time to realize that value,
- improved ability to adapt to changing needs and market conditions and,
- improved collaboration between parties.

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# Agile Procurement – Our Guiding Principles

## User Centric



Involve users in the design, testing and evaluation of solutions

## Open & Transparent



Documentation, criteria and progress is posted publicly

## Iterative



Requirements are reviewed and refined throughout the process

## Collaborative



Work with suppliers and key government stakeholders to achieve the best results

## Lean



Maximize the amount of work not done

## Modular Contracting



Key Decision Points established at each gate to establish Go-No-Go

## Outcomes



Define goals and outcomes and let bidders propose the how

## Forward Thinking



Evaluate solutions based on current proposals and their future roadmaps

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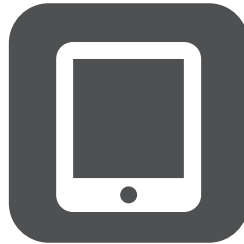


# Early Engagement – RFI #1

- The aim of the APP is to more effectively provide industry with time to review and provide feedback on draft documents.
- Responses from the RFI are used to assist GC in finalizing their plans for the requirement and in developing achievable objectives and deliverables.
- Our objectives for early engagement are:



Inform Industry of  
the CONOPS



Integrate industry  
knowledge into the  
procurement  
process



Identify possible  
solutions and  
potential  
procurement  
strategies



Identify benefits or  
risks early in the  
process



Develop mitigation  
strategies

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# Future Naval Training System Concept



Cdr Bradley White – NTST Program Manager

21 April 2021





- Background
- Key Deliverables
- Outcomes
- Industry Enablers and Benefits
- Economic Benefits
- Key Industry Enablers
- Sub-system Enablers and Benefits



# What is the Naval Training System Transformation Program?



*The Naval Training System Transformation (NTST) Program was initiated to modernize the training system to meet the needs of the future.*

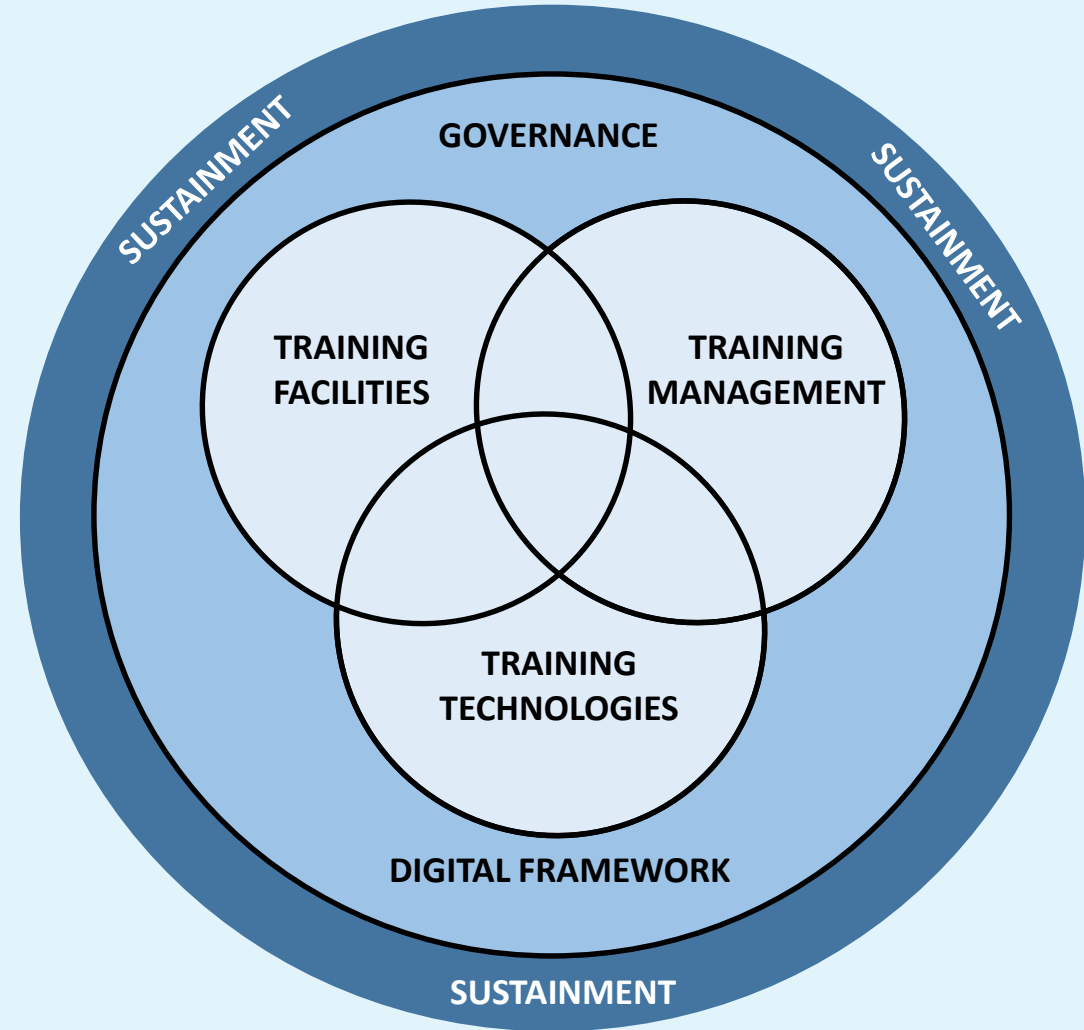
- Initiated to correct significant capability deficiencies in the existing training system
- It defines the Future Naval Training System (FNTS) Requirements and enables the transformation of the current NTS to the FNTS
- It is a Program, and has a beginning and an end.

# FNTS System of Systems



*A holistic, complex, and expansive System of Systems comprised of six major systems.*

*These six systems in combination provide, operate, and sustain the complete breadth of RCN training across the Training Continuum.*





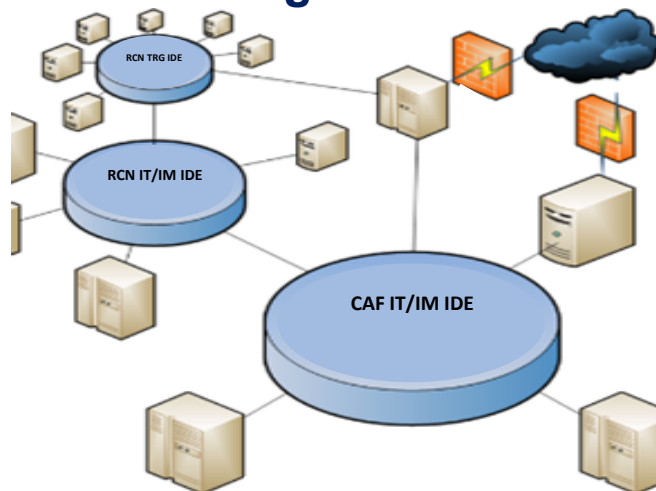
# Key Program Deliverables



## Modernized Infrastructure



## Holistic Digital Framework



## Training Technologies



## Improved Training Management

COMMAND	
Set Training Requirements Direct Priorities	
TRAINING MANAGEMENT	
<ul style="list-style-type: none"><li>• Manage Contracts</li><li>• Manage priorities</li><li>• Schedule/Productior</li></ul>	<ul style="list-style-type: none"><li>• Prioritization of work</li><li>• Security Requirements</li><li>• Administration</li></ul>
DEVELOPMENT	DELEVERY
<ul style="list-style-type: none"><li>• Configuration</li><li>• Design TT</li><li>• Management</li><li>• Procure TT</li><li>• Lifecycle Maintenance</li><li>• Maintain TT</li><li>• Produce QSPs</li><li>• Develop Training</li></ul>	<ul style="list-style-type: none"><li>• Instruction of sailors</li><li>• Operate TT</li><li>• FSR instruct</li><li>• Simulator mentors</li><li>• Simulator back row</li><li>• Simulator game master</li></ul>

## Updated Governance

## Sustainment Strategy



English video:

<https://vimeo.com/showcase/7150873/video/420462765>

French Video:

<https://vimeo.com/showcase/7150873/video/420546757>



*Interoperable*

*Sustainable*

*Agile*

*Integrated*

*Scalable*

*Professional*

*Retention*

*Modern*

*Technology Enabled*



# FNTS Benefits



**What did we deliver?**  
NTST Charter

**What are the key capabilities?**

**Why is this change important to the RCN?**  
Vision in FNTS Strategy 2015

**What is the measurable result?**  
FNTS CONOPS

**What does this support for DND/CAF?**  
RCN Strategic Plan 2017-22

## NTST Outputs

Governance System

Training Management System

Training Technologies System

Digital Framework System

Training Facilities System

Sustainment System

## Training System Capabilities

Ensures design, development and delivery of training is comprehensive and integrated.

Provides the right mix of personnel including contracted resources.

Provides timely and clear decisions and direction at appropriate command levels

Provides efficient, consistent and proficient training

Provides modern, scalable, flexible, reconfigurable, and networked FNTS infrastructure on both coasts.

Adapts training to respond to rapidly changing requirements.

Provides professional training cadre to required capability and capacity including industry partnerships.

Enables access to consistent, accurate, trusted and real time data across the system.

Provides ongoing optimization of modern technologies throughout the training system.

## Training System Outcomes

Training better leverages modern technological solutions

Training recognizes the importance of mentoring and supervision by uniformed members

Training delivered at the point and time of need

Training which reduces the need for and duration of training

Modular and reconfigurable training courses, materials, technologies and infrastructure

Performance focused training management organization

Partnerships within and outside of the RCN.

A system that is both affordable and sustainable

## NTST/FNTS Benefit

Increased value from our training dollar

Increased retention of personnel

Sailors Ready Faster

Increased readiness of personnel

Increased responsiveness to fleet requirements

Increased Training Quality

## Strategic Goals and Objectives

Maintain Excellence at Sea

Evolve the Business of our Business

Transition to Future Fleet

Deliver the RCN's Future Fleet

Inspire and Support the RCN

Recover and Rebalance the RCN Workforce, and Enable Support to the RCN Team

Improve the Delivery of Materiel Sustainability for the RCN Fleet

Optimize Individual Training and Military Personnel Readiness

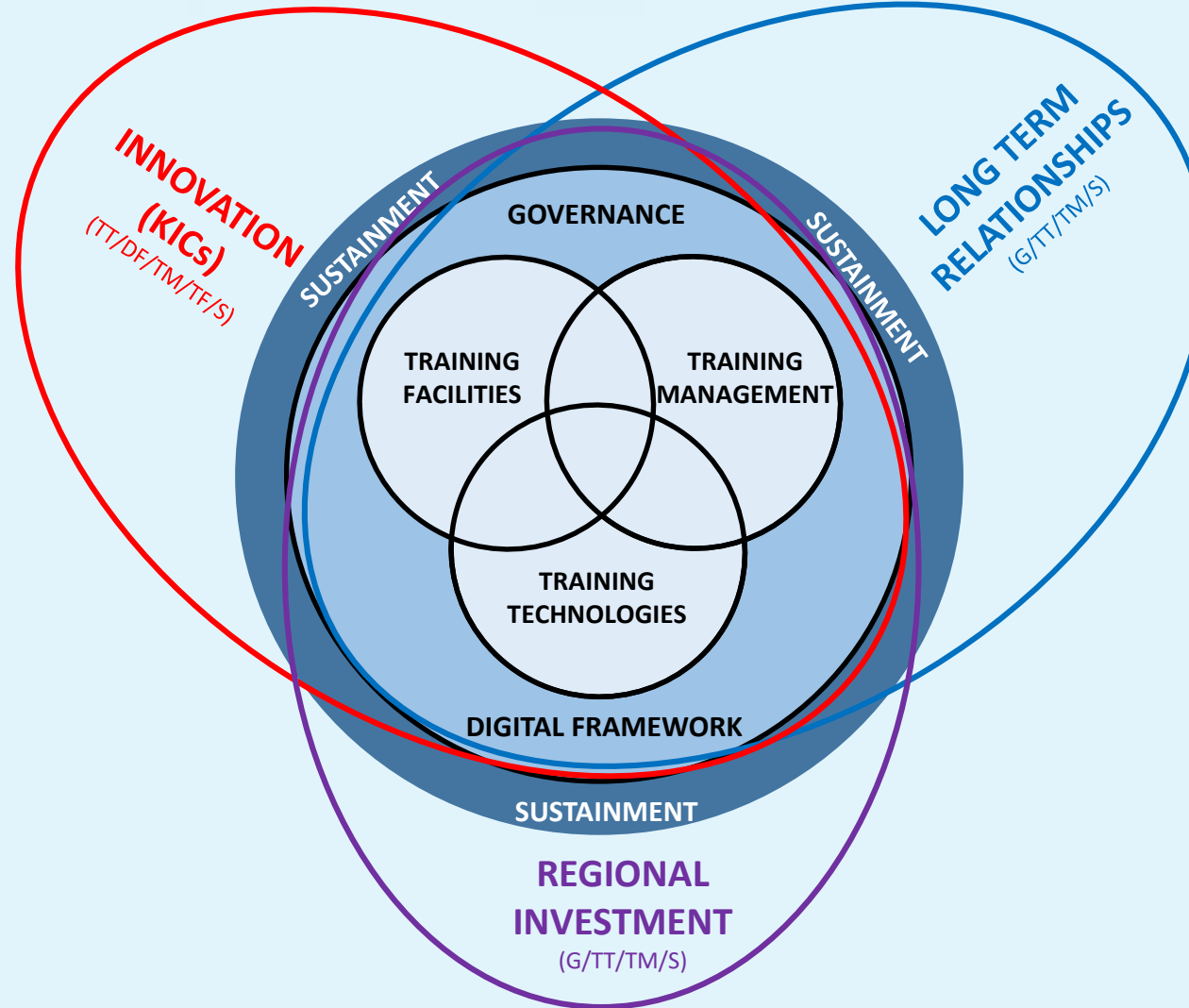
Optimize the Delivery of Readiness and Combat Effectiveness

Maintain Modernized Business Management and Communication Practice

# Benefits to Industry



Long term engagements encourage growth of the supply chain and Industry R&D investment enabling further development of Canadian Key Industry Capabilities (KICs) (e.g. Cyber Security). Engagement with niche technology companies addresses NTST strategic and performance needs.



Mature contracting with Industry utilizing Relational Charters to bring efficiencies in management and coordination of changing requirements to formalized performance expectations and commitments.

Regional and Indigenous organizations see economic growth through stabilized service requirements and demands. Industry management of training campuses ensures consistent and flexible property oversight while supporting Green environment, GBA+ and Accessibility as long-term goals.



- **The Industrial and Technological Benefits Policy may be applied on NTST in order to leverage economic benefits for Canada.**
  - Requires that companies awarded a defence and security contract by the Government of Canada undertake business activities in Canada **equal to the value of the contract.**
- **Developed in conjunction with our federal partners and with industry on a procurement by procurement basis,** targeted commitments and business activities through a Value Proposition (VP) aim to also benefit Canada and encourage growth of the domestic defence industry.



Under the ITB Policy, contractors bidding on major defence contracts must submit an economic proposal to Canada called a **Value Proposition (VP)**

## OBJECTIVES OF THE VALUE PROPOSITION






- 1 Direct Defence Sector Work:** Support long-term sustainability and growth of Canada's aerospace and defence sectors.
- 2 Canadian Supplier Development:** Support the growth of prime contractors and suppliers in Canada, including small and medium business (SMBs) in all regions of the country
- 3 Research and Development (R&D):** Enhance innovation
- 4 Exports:** Increase export potential and international competitiveness of Canadian-based firms
- 5 Skills Development and Training:** Leverage opportunities in skills development and training to fill skills and training gaps within the Canadian economy.



## WHAT ARE KICs?

- KICs are designed to help target priority areas of investment under the VP in areas of **emerging technology** and **established industrial strength** in Canada
- KICs were developed through analysis and expert input, and validated through extensive industry engagement
- KICs align with Government priorities and focus on defence technologies, but also include commercial and dual-use sectors
- Only KICs relevant to a particular project would be applied. For example, potential KICs to be applied on NTST may be **Cyber Resilience** and **other emerging technologies**

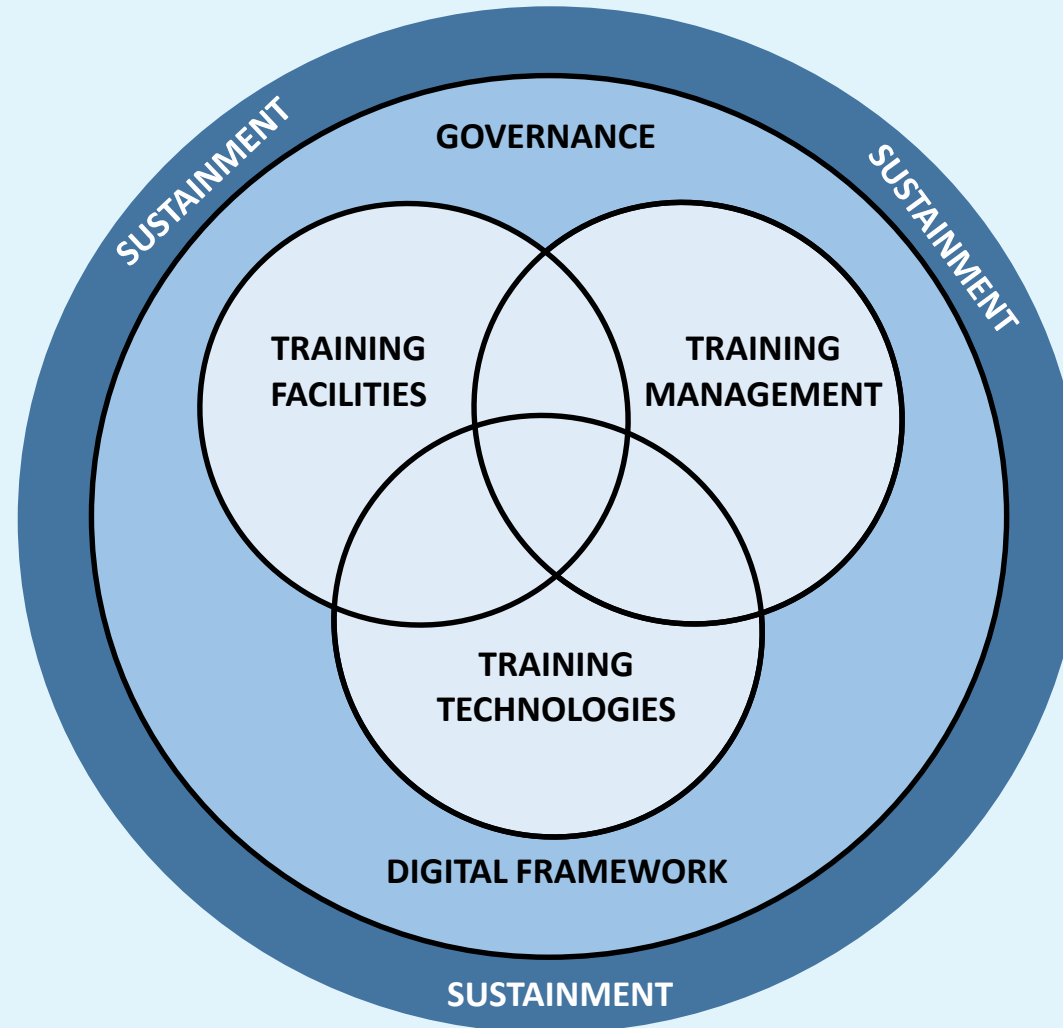
## EMERGING TECHNOLOGIES

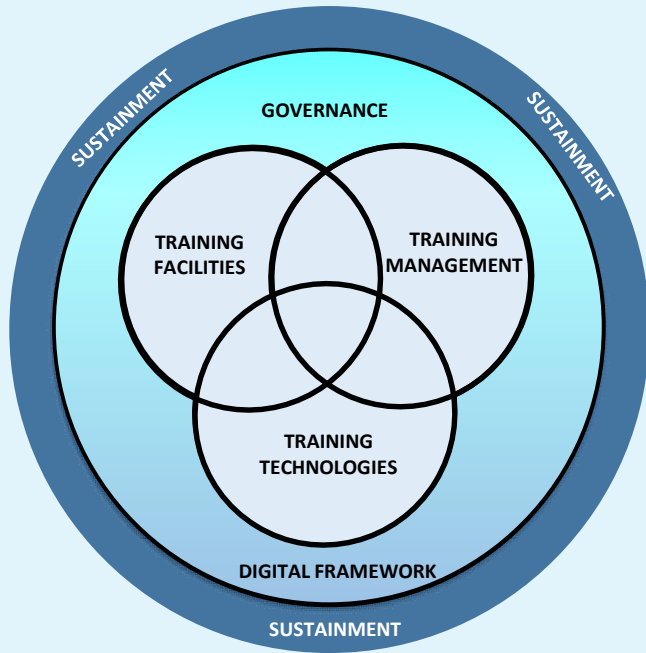
- |  |   |
|--|---|
|  Advanced Materials                                   |  Artificial Intelligence |
|  Cyber Resilience                                     |  Space Systems           |
|  Remotely-piloted Systems and Autonomous Technologies |   |

## LEADING COMPETENCIES & CRITICAL INDUSTRIAL SERVICES

- |  |  |
|--|--|
|  Aerospace Systems & Components                   |  Armour                             |
|  Defence Systems Integration                      |  Electro Optical / Infrared Systems |
|  Ground Vehicle Solutions                         |  In-Service Support                |
|  Marine Ship-Borne Mission and Platform Systems |  Munitions                        |
|  Shipbuilding, Design and Engineering Services  |  Sonar & Acoustic Systems         |
|  Training & Simulation                          |  |

# FNTS Systems and Industry Enablers





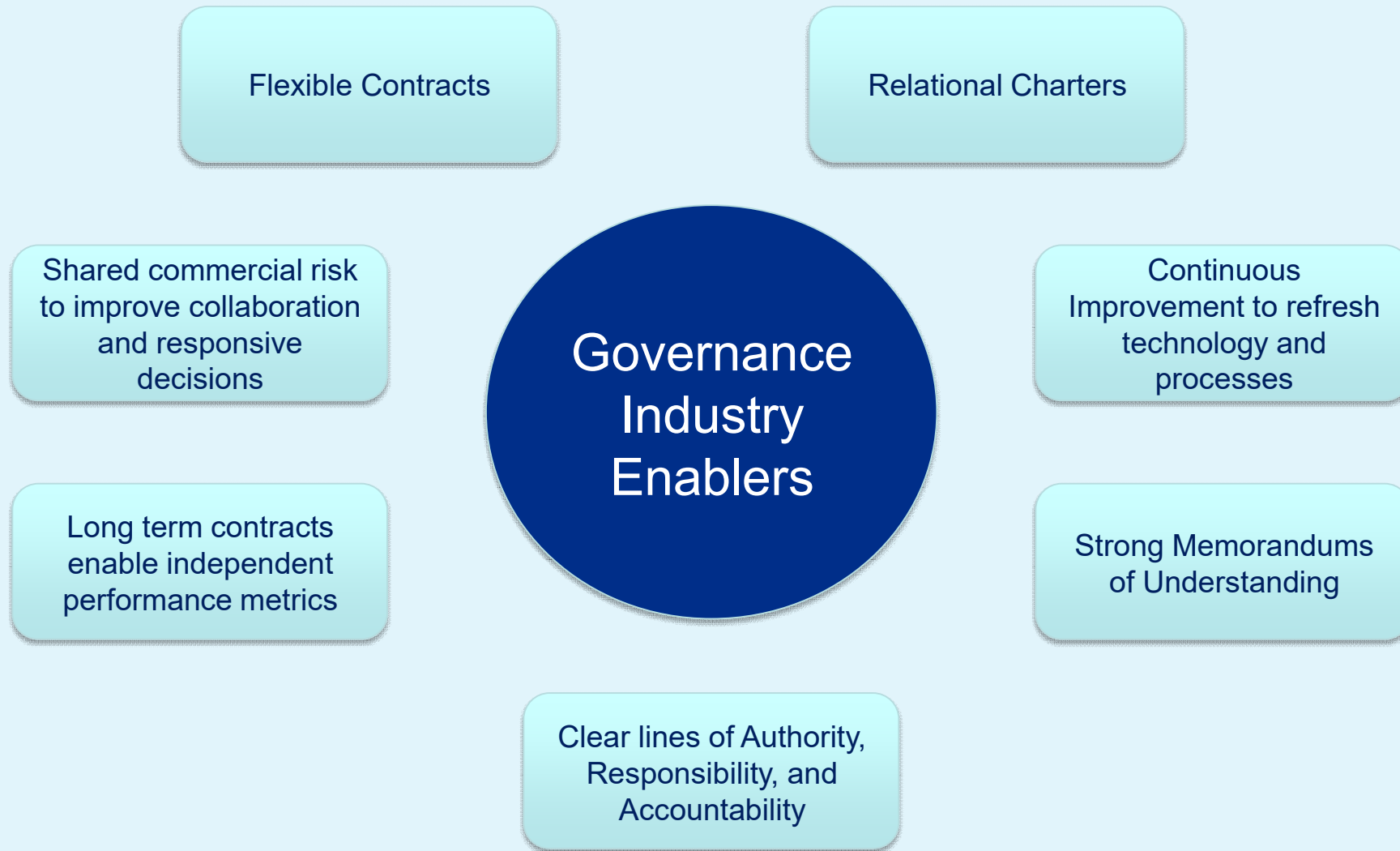
The FNTS Governance System will provide:

- Singular unified Command and Control
- Clear lines of Authority and responsibility
- Be inclusive of Individual and Team Training

The FNTS Governance System will incorporate:

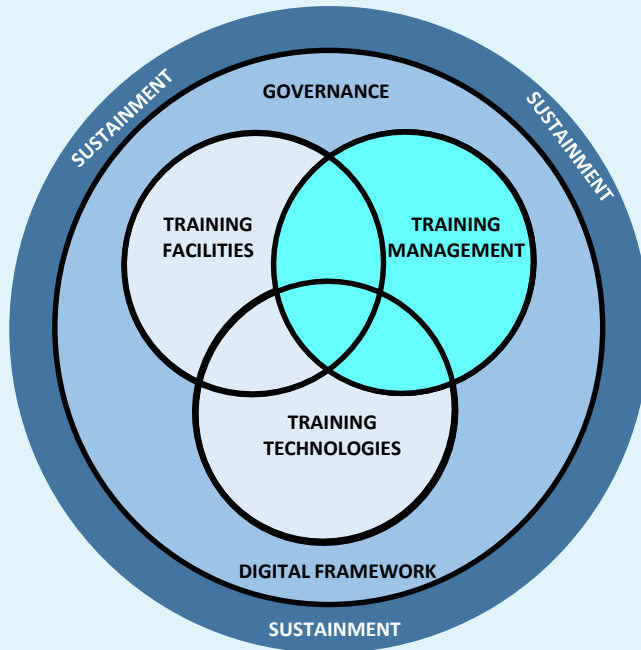
- System Engineering
- Procurement oversight and sustainment contracts
- Metrics-based performance Management
- Quality Management System

# Governance Industry Enablers



The FNTS Training Management System will provide:

- Resource Management
  - Streamlined,
  - Integrated, and
  - Centrally managed through the Digital Framework.
- Operations Management
  - Facility Scheduling
- Training Management
  - Personnel – professional training cadre
  - Processes – Training will be designed, delivered, implemented and evaluated to be adaptive and performance based
  - Tools – track, analyze, manage, and enhance the learning experience and support training decisions



# Training Management Industry Enablers

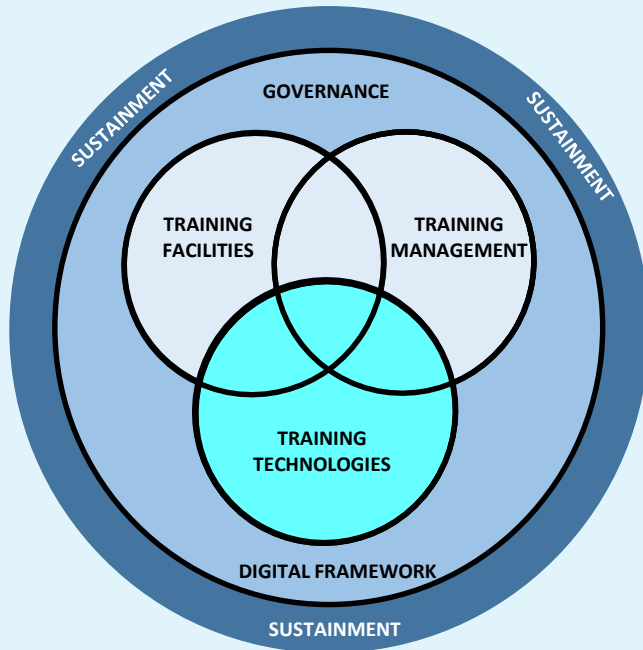


The FNTS Training Technologies will provide:

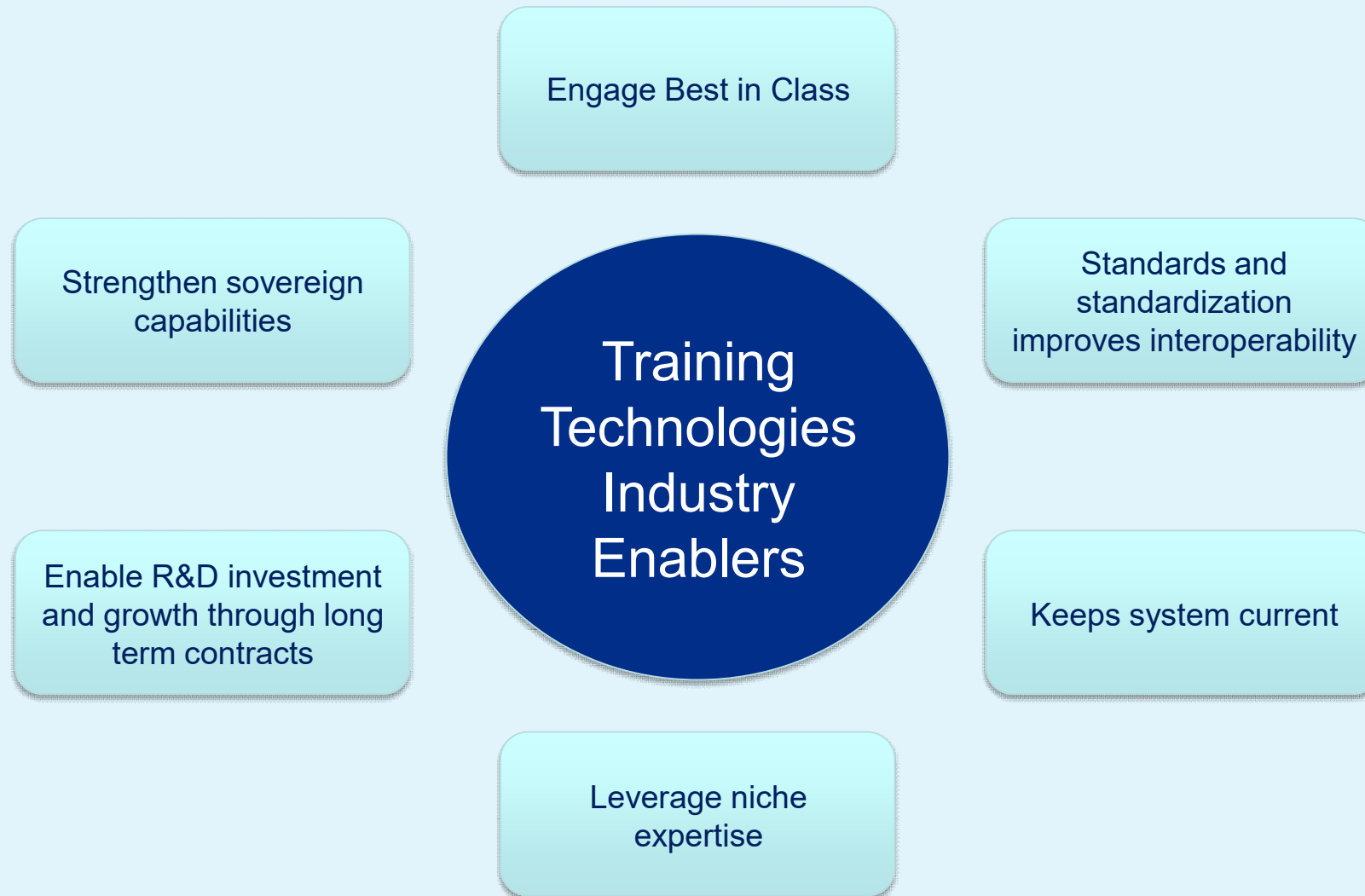
- Hardware
- Software
- Devices

The FNTS Training Technologies System will support:

- Modern curriculum
- Modern instructional methods
- Improved retention
- Flexibility and scalability through reconfiguration and multi-use



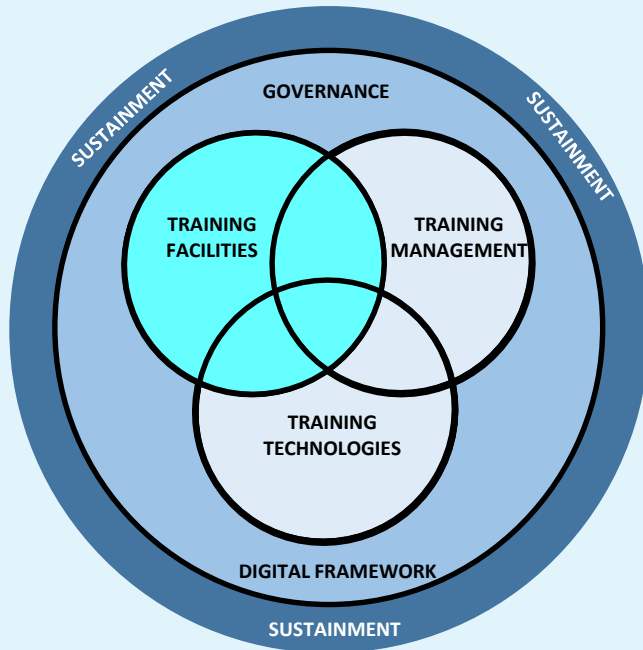
# Training Technologies Industry Enablers





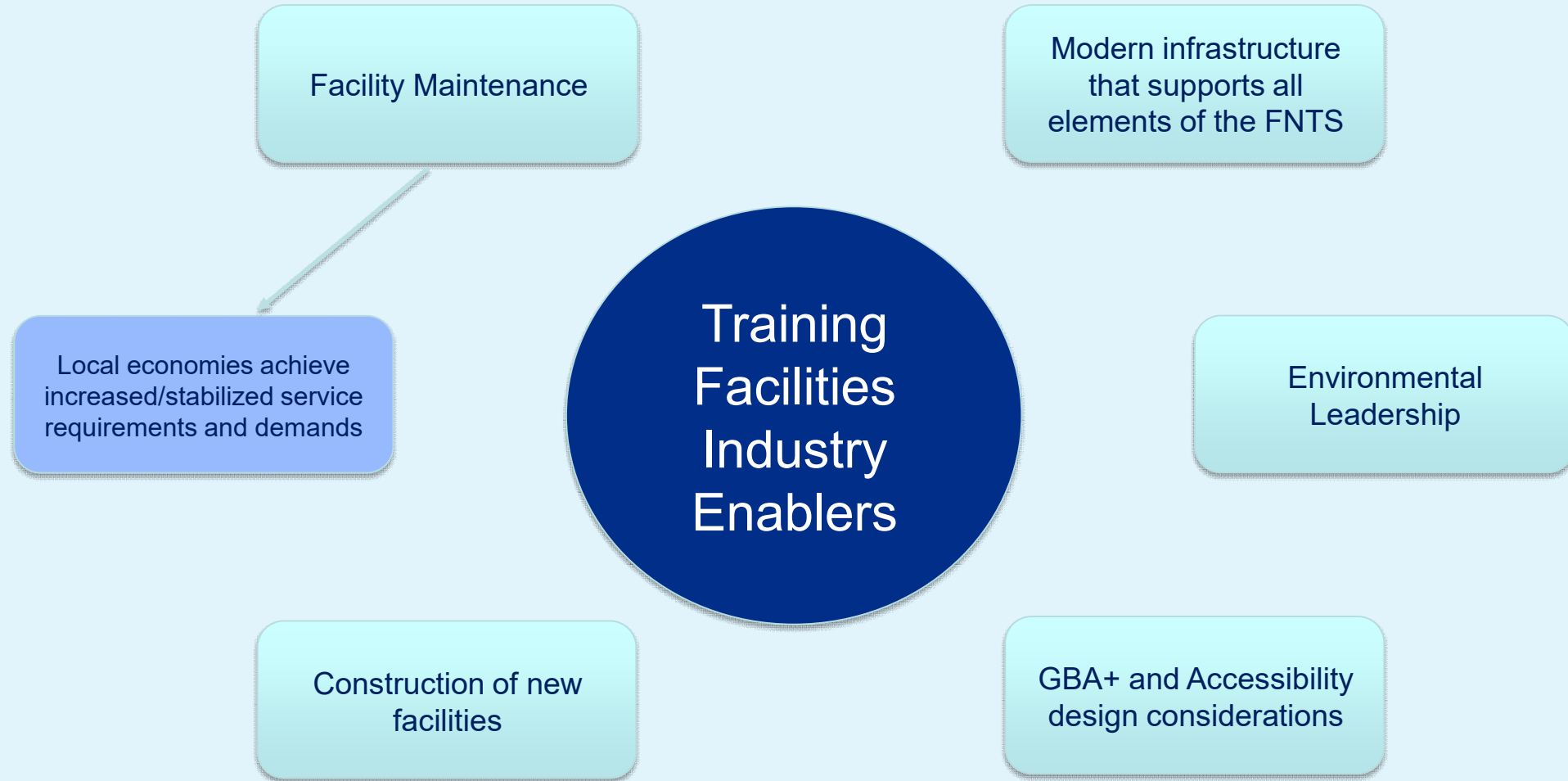
The FNTS Training Facilities will provide:

- Infrastructure to support the FNTS
- Secure and Non-secure facilities that are:
  - Networked
  - Flexible
  - Scalable
  - Multi-configurable
  - Sustainable



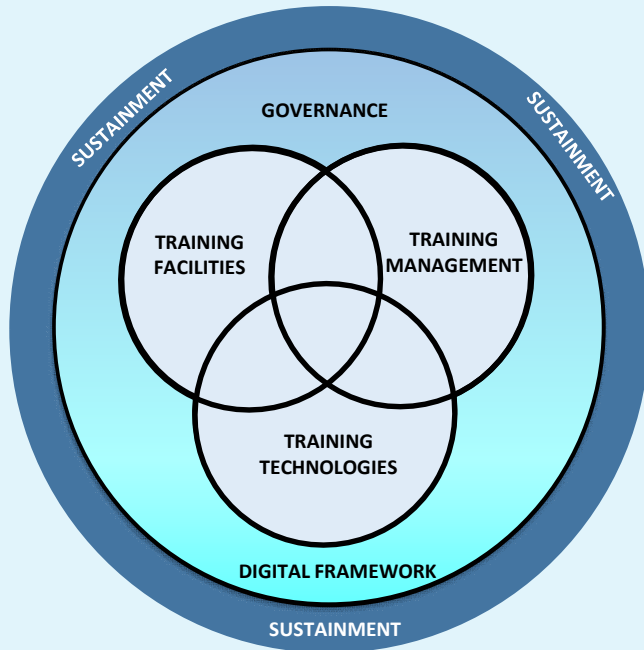
Training Facilities Projects will be progressed through ADM(IE) and Defence Construction Canada.

# Training Facilities Industry Enablers



## The FNTS Digital Framework will provide:

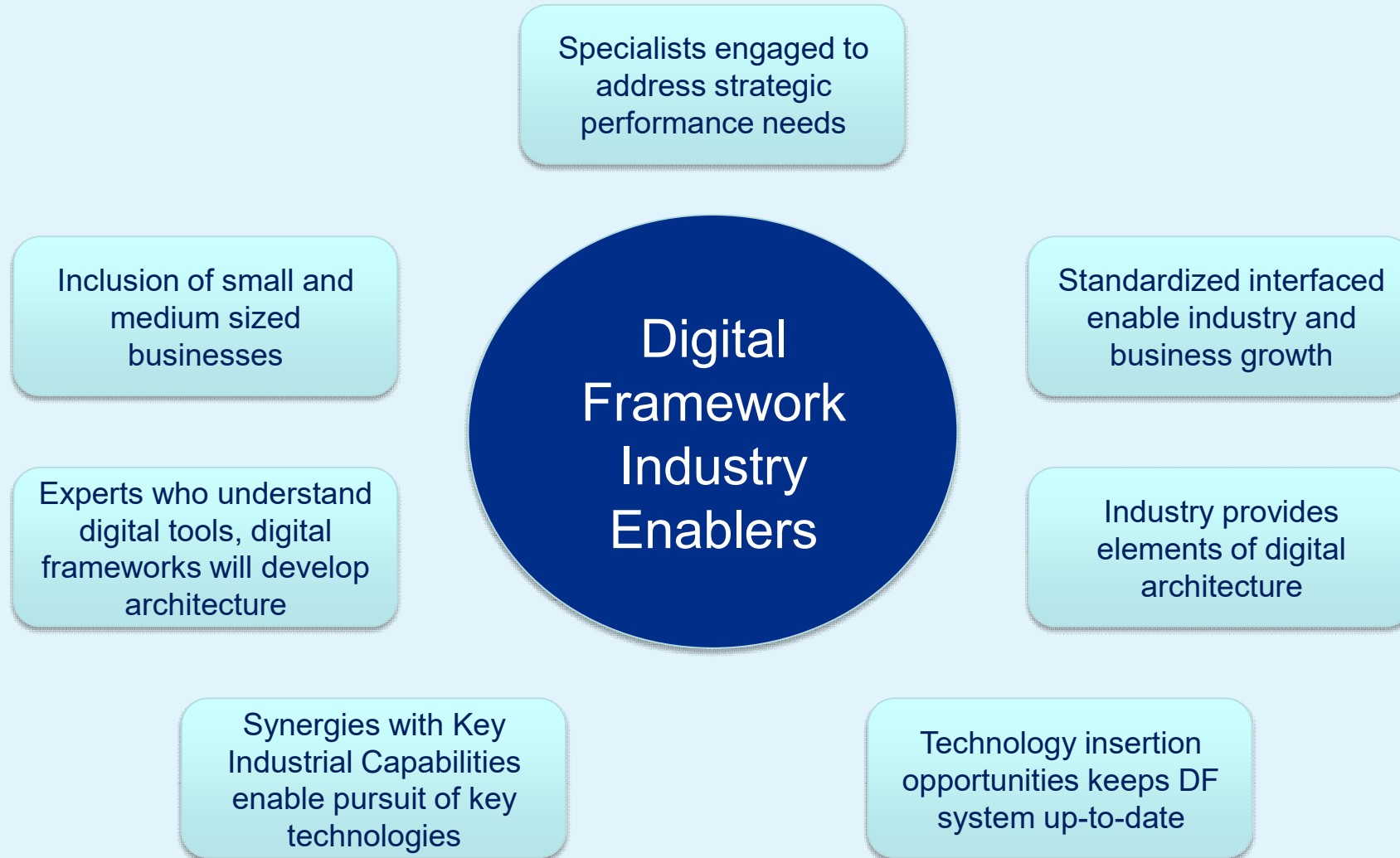
- Enterprise architecture
- Integrated data environment – open standards and interoperability
- Distributed learning ecosystem
- Technical, functional, and instructional framework configuration management
- Interconnected digital assets, tools, services, and environments
- Data driven processes and analytic tools
- Collaborative environments

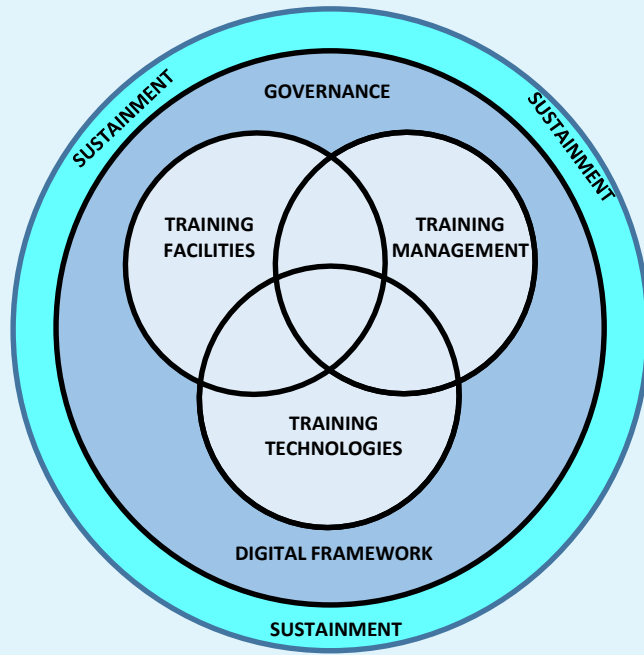


## The FNTS Digital Framework will enable:

- Training at the Time and Point of Need
- Integration of data and systems
- Collaboration and innovation
- Digital Threads - training integration with product lifecycle data
- User centred, adaptive, and predictive training experiences
- Real time decision making

# Digital Framework Industry Enablers





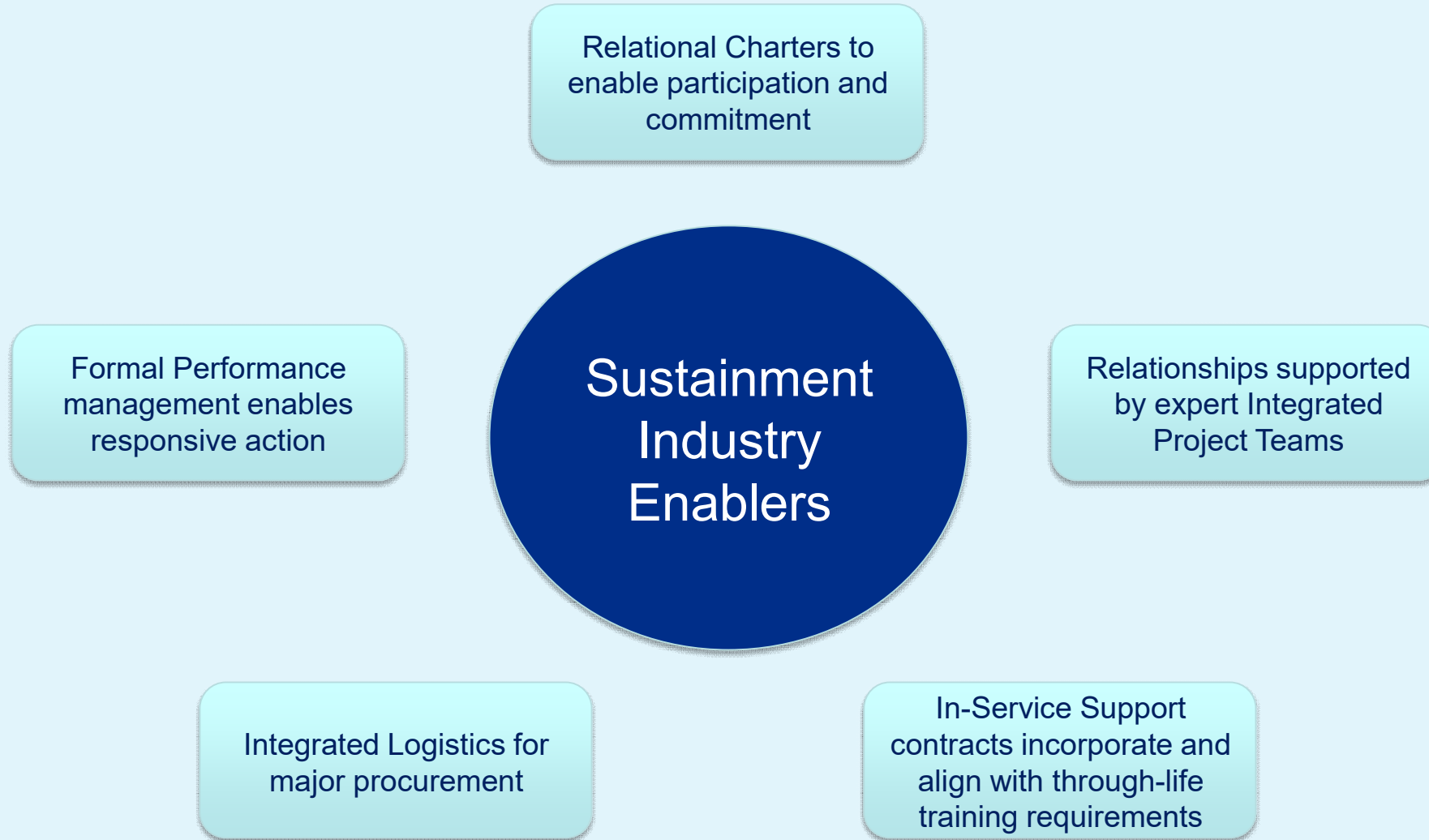
## The FNTS Sustainment System will provide:

- Interim sustainment solution(s) to address critical gaps in sustainment of the current Naval Training System
- Long-term sustainment solution(s) to address sustainment of requirements of the FNTS

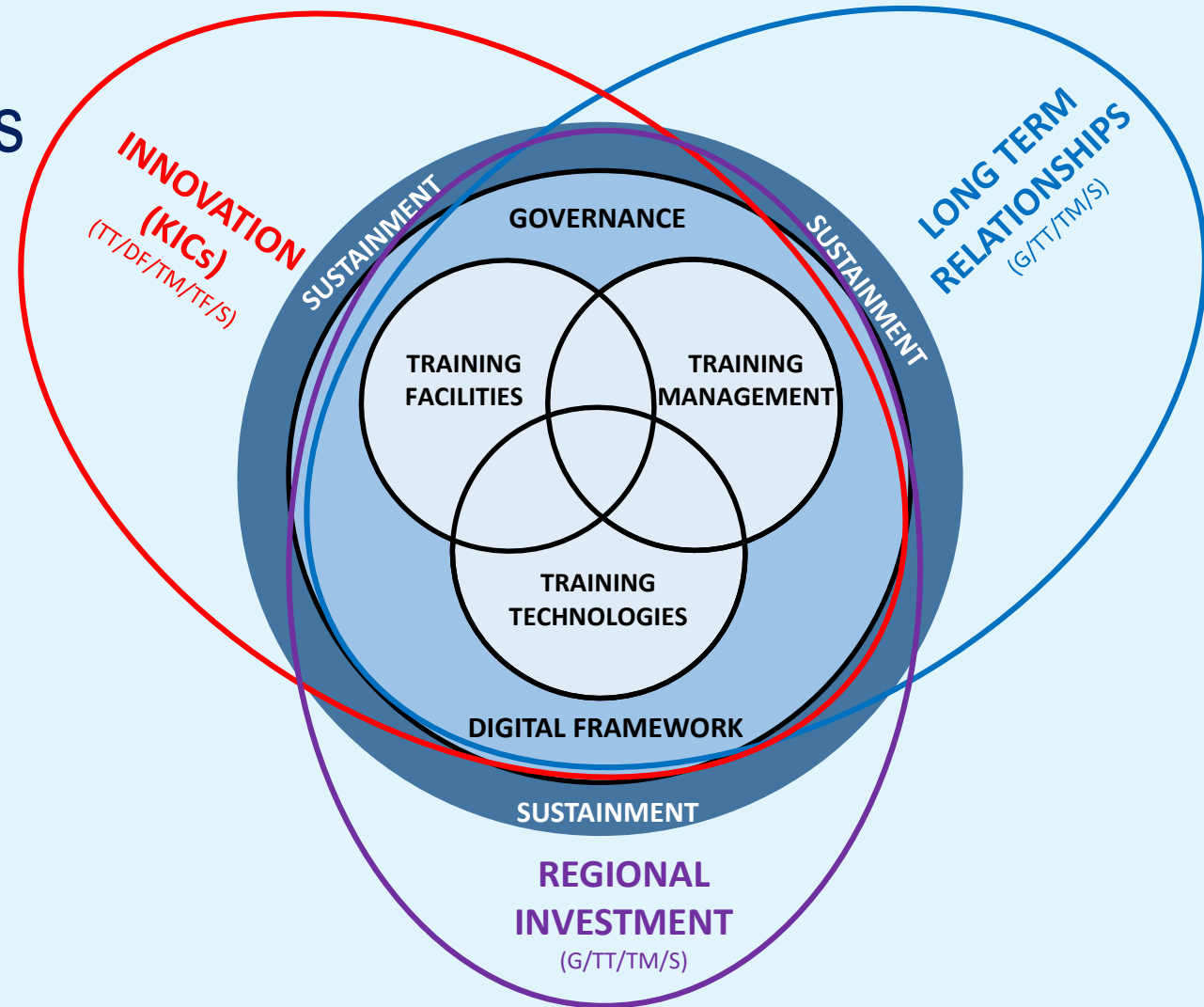
## Long term sustainment planning will:

- Consider sustainment requirements for the breadth of the FNTS
- Follow a Business Case Analysis approach that is comparable to DND's Sustainment Business Case Analysis process.
- Ensure performance, value for money, flexibility and economic benefits
- Pursue compatibility with sustainment solutions of other major programs that integrate with the FNTS (AJISS, CSC, etc.)

# Sustainment Industry Enablers



- The FNTS is a System of Systems
- RCN/Industry relationships can provide mutually beneficial outcomes





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# Break

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# PROCUREMENT OVERVIEW

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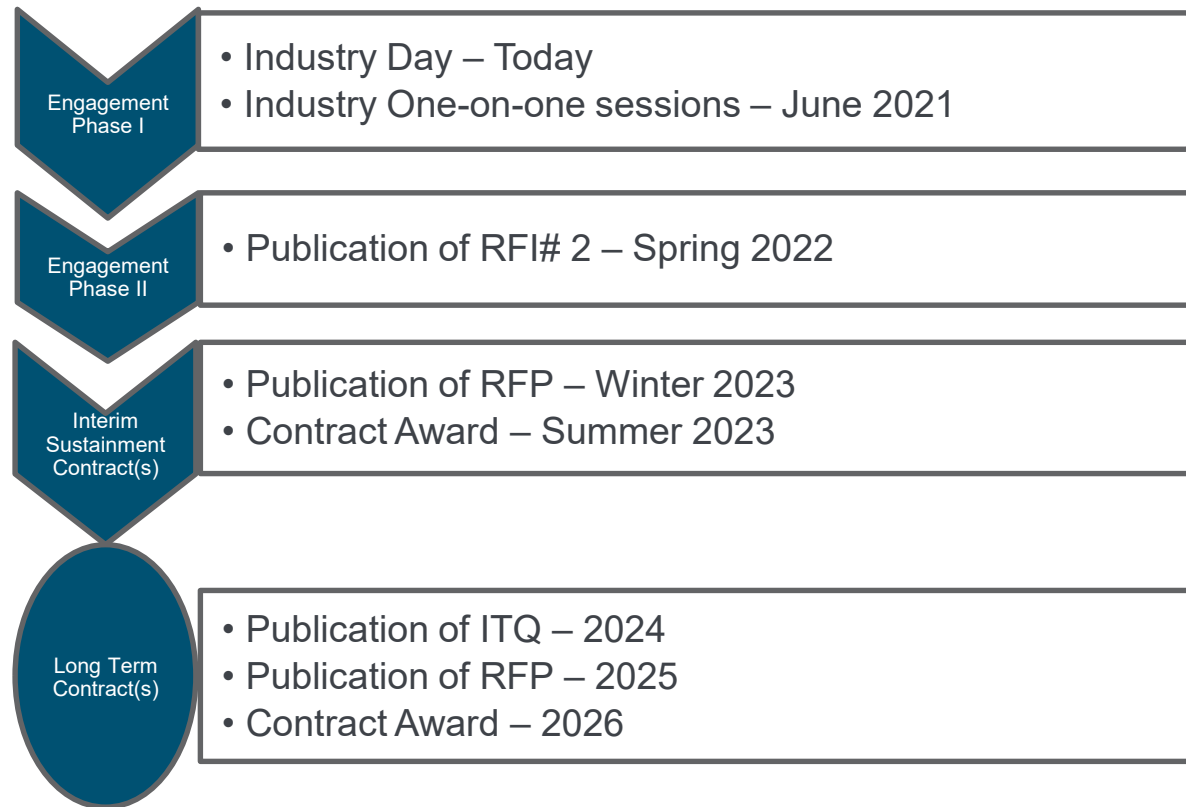


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# Procurement Schedule

- ❑ The following schedule of **tentative dates and activities** is provided to assist in developing responses to the Annex B - Questions to Industry.
- ❑ GC reserves the option to delete or change each of the individual named activity and their associated dates as the GC sees fit.



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# Point of Contact

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The PWGSC Contracting Team is the sole point of contact for the Future Naval Training System



PWGSC Contracting Team

Matthew Henry, A/Senior Director: 613-415-6702

Harold McKenny, Supply Specialist: 873-455-5271



[TPSGC.PAFSIN-APFNTS.PWGSC@tpsgc-pwgsc.gc.ca](mailto:TPSGC.PAFSIN-APFNTS.PWGSC@tpsgc-pwgsc.gc.ca)

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# Next Steps

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- Ask any questions to the Contracting Authority
- Provide requested feedback on the RFI;
- Be ready for optional one-on-one meetings;
- Watch [buyandsell.gc.ca](http://buyandsell.gc.ca) for any amendments to the RFI, status updates, and launching of the next phase.

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# Questions?

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# Closing Remarks

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Do let us know:

- ☐ If you have enough information to provide a response to the Questions in the RFI.
- ☐ If you have the information you require to understand the context of the Future Naval Training System.
- ☐ If you think the timelines are feasible.

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