



Technology Priorities, Economic Development and the Emerson Aerospace Review

WORKSHOP OVERVIEW AND GOALS

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The Issue: Competitiveness

- Aerospace is a global industry with resources and economic success gravitating to those who provide the best technology and product at the most competitive price
- Technology, and the infrastructure to develop, use and capitalize on technology, are the basis of long term economic development
- **GOAL: Win Industry Investments/Contracts**

Workshop Intent

- Provide, as a first step, the Manitoba Aerospace Community with an opportunity to discuss its strategic technology requirements to ensure it can compete in both the global and national arenas to win economic success
- Explore the fundamentals of technology development, namely funding, workforce development and partnerships
- Define a Way Ahead

Emerson Report

- Important federal-industry initiative with potential to fundamentally alter federal aerospace investments

The Opportunity

- Substantiate and articulate Manitoba's technology and technology related requirements in terms of technology, business and environmental impacts
- Influence/Demand implementation decisions to Manitoba's benefit

The Challenge

- Build this articulated and substantiated case

Emerson Report- Tech Priorities

- **Priority Technologies (~10)** to guide aerospace related policies and funding programs – selected on *greatest long-term potential*
 - Current competitive edge
 - Government policy and procurement priorities are creating a market
 - Domestic and global demand steady or growing
 - Increase aircraft efficiency, reduce fuel, environment
- ***What are Manitoba's priority technologies?***

Emerson Report: Funding

- **FISCALLY NEUTRAL: Re-Distribution of Existing Funds, not new Funds**
 - Introduction of Technology Demonstrators
 - Maintain SADI under modified terms and conditions
 - Co-fund initiatives to strengthen aerospace supply chain
 - *Expand GARDN, strengthen NRC, stabilize IRAP for SME's, evolve SDTC into aerospace 'Clean Sky', sustained support for MRO's/SME's....*
- ***What are Manitoba's funding priorities for greatest long term economic impact?***

Emerson Report- Workforce

- **‘A competitive aerospace sector is founded in part on a well educated workforce...’**
 - Promotion of aerospace/space studies and workplace
 - Support for aerospace companies to ‘up-skill’
 - Co-funded industry/academia facilities (CATT)
 - *National coordination, competencies-based, outcome-driven approach, stronger industry/academia partnerships, labour database, NSERC aerospace focus, regional CofE....*
- **What is Manitoba’s Strategy to ensure investment in development of its workforce?**

Emerson Report- TD Partnerships

- **‘..collaborative approaches to R&D, as a rule, yield better results for both participants and the economy’**
 - Initiatives whose primary mission is to foster collaboration cited as key - Co-fund Canada wide initiative
 - Technology Demonstrators
 - Emerging aerospace players into multi-lateral agreements
 - *Canadian Aerospace Research and Innovation Consortium, Innovation Centers*
- **What are the Partnership arrangements that will work most effectively for Manitoba?**

WORKSHOP GOALS

- Broad understanding of the technology challenges facing the Manitoba aerospace community from an economic development viewpoint, including timelines.
- Consensus on whether to generate a Strategic Technology Document for Manitoba
 - Industry led Technology Road Map type process?
 - Wide involvement from all members of the aerospace community required to be relevant
 - Does industry see value is it willing to invest time & effort?

WORKSHOP GOALS

- Identification of technology themes and collaborative mechanisms for the Manitoba aerospace industry
 - What will work in Manitoba?
- Broad understanding of opportunities and challenges for Manitoba arising from the Emerson Report
 - Would a coordinated Manitoba response to the Emerson Report have value?
 - What mechanisms?

WORKSHOP PROCESS

Four moderated panels to explore in detail:

1. Technologies for Economic Development
2. Technology Funding
3. Workforce Development
4. Technology Development Partnerships

Wrap-Up Panel

- Senior Winnipeg technology and business leaders
- Consensus on Way-Ahead

Moderators will encourage Attendee Interaction

Logistics

- **Continental Breakfast at 7:30 am**
- **30 Minute Breaks ~10:00 am and 3:00 pm**
- **60 Minute Lunch ~ Noon**
- ***Panelists, please load your presentations at the break before your session starts***

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