

MANITOBA AEROSPACE TECHNOLOGIES ROADMAP
CRITICAL TECHNOLOGY REPORT

THRUST AREA WORKING GROUP:	<i>e.g. Composites</i>
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CRITICAL TECHNOLOGY:	<i>e.g. High Temperature Applications</i>
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1. Description:

A brief technical description of this pre-competitive, enabling technology.

2. Impact on Economic Development for Manitoba

Identify the key reasons why this technology is critical for the economic development of the Manitoba aerospace industry (e.g. future environmental regulations, customer concerns and demands, competitiveness issues).

3. Technology Performance Goals:

In bullet form, list the key qualitative and quantitative performance objectives for the pre-competitive enabling technology as related to the application of the technology in Manitoba.

4. Importance and Breadth of Application:

When is this technology required (approximate deadline (month, year) when this technology must be in place to meet regulatory and / or competitive requirements.

To whom is this technology critical (e.g. OEM, suppliers, MR&O community, operators, etc.)

What are the likely outcomes if this technology is not available to, or implemented by the Manitoba aerospace industry.

5. Alternatives:

What other, if any, technologies or non-technological solutions could be applied as a potential substitute for this technology.

What are the competing technologies.

6. Availability, Maturity and Risk:

Where is this technology currently available or under development (internationally, nationally, organizations), and what are the current capabilities of this technology (i.e. the current state-of-the-art). What incremental capabilities (preferably in bullet form) must be developed in Manitoba to reach the required level of maturity by the deadline identified in section 3. What is the level of technological risk (i.e. high, medium or low) in achieving this level of maturity by this deadline.

7. Costs:

Provide a rough order of magnitude estimate of the total funding required to develop this technology in Canada to the level of maturity and within the timeframe identified above (e.g. ... \$2 million over 3 years ...).

8. Collaborators and Development / Implementation Strategy:

Indicate whether or not, and why the development of this technology is a good candidate for multi-partner, multi-disciplinary collaboration. Identify the Canadian as well as offshore organizations which could collaborate in developing this technology for the Manitoba aerospace industry.

Summarize a strategy for (single firm or collaborative) development and implementation of this technology in Canada (what are the major steps required).

9. References:

List of pertinent documents.

10. Contacts:

Resource persons for further information (organization, name, phone, e-mail).