

# **Manitoba Aerospace Workshop**

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## **Panel 4: Technology Development Partnerships**

**Presented by: Walter Czynnyj**

**Director Quality & Engineering**

**Magellan Aerospace, Winnipeg**



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A E R O S P A C E

# Panel 4: Technology Development Partnerships

## **Recommendation 3:**

**“The government create a program to support large-scale aerospace technology demonstration.”**

- **General Feedback**

- Magellan supports this recommendation...with some conditions related to the scale and the scope of the technology demonstration projects.
- Disappointing that funding for this recommendation is from other existing initiatives.

- **Opportunities**

- For Magellan participation in manufacturing technology, composites design/certification and Tier 1 capability development projects with Canadian OEMs.
- For Magellan and other Canadian Tier 1 and Tier 2 suppliers to participate with large international OEMs (Boeing/Airbus) in technology demonstration projects.

- **Challenges**

- How to ensure funding for this program is not monopolized by Canadian aircraft and engine OEMs.



# Panel 4: Technology Development Partnerships

## **Recommendation 3:**

**“The government create a program to support large-scale aerospace technology demonstration.”**

- **Challenges (cont'd)**

- How to ensure/mandate Canadian OEMs include/restrict participation in their projects to Canadian suppliers.
- How to ensure program is available to Tier 1 and Tier 2 suppliers who have opportunities to participate in technology development/demonstration initiatives with large international OEMs (Boeing/Airbus).
- How to mitigate risk of IP ownership/sharing complications.
- How to manage program/funding allocations efficiently and ensure quick turn around on project review/approval.
- How to manage project implementation oversight to ensure achievement of milestones/deliverables...with off-ramps.



# Panel 4: Technology Development Partnerships

## Recommendation 5:

**“The government co-fund a Canada-wide initiative to facilitate communication and collaboration among aerospace companies, researchers, and academics.”**

- **General Feedback**
  - Magellan supports this recommendation.
  - The CRIAQ model appears to be successful.
  - The Composites Innovation Centre (CIC) model is successful.
  - The Canadian Composites Manufacturing Research and Development (CCMRD) model is promising.
  - Disappointing that funding for this recommendation is from other existing initiatives.
- **Opportunities**
  - For Magellan to establish more relationships and access more technical capabilities beyond our current network of Universities and Colleges.



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## Recommendation 5:

**“The government co-fund a Canada-wide initiative to facilitate communication and collaboration among aerospace companies, researchers, and academics.”**

- **Challenges**

- How to address projects that are impacted by ITAR’s restrictions and the use of academia to support development is restricted due to clearances, export licensing, etc.
- How to address collaborations that are not appropriate for/involve universities (dependant on the TRL level). CRIAQ’s foundation is built on strong university involvement with industry support/participation, which may not be appropriate for some innovation and development.
- How to deal with the CRIAQ high initial “cost of participation” without any assurances of payback.
- How to mitigate the risk of provincial funding limitations disqualifying their Tier 1’s and SME’s from participating.
- How to address the potential for Provincially based industry/Government funds flowing away from local universities/colleges (UofM/RRC).
- How to entice graduates from Universities outside of Manitoba (who benefited from co-funded projects) to relocate to Manitoba.
- How to mitigate risk of IP ownership/sharing complications.



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## **Recommendation 7:**

**“The government endeavour to bring emerging aerospace players into multilateral agreements that create fair, competitive conditions for Canadian aerospace firms, and to clarify rules related to government support for domestic aerospace industries.”**

- **General Feedback**
  - Magellan supports this recommendation.
- **Opportunities**
  - For Magellan to compete on a level international playing field.
- **Challenges**
  - How to ensure that not only government support rules are standardized but also other factors such as human resource and environmental standards.
  - How to maintain focus on Canadian competitiveness regardless of the status of agreements

