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# Panel 4: Manitoba Priorities Technology Development Partnerships

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[www.itc.mb.ca](http://www.itc.mb.ca)



## ITC's Background

- Special Operating Agency (SOA) of Manitoba Innovation, Energy and Mines
- Mandate to support technology based economic development in Manitoba
- Established by the Province of Manitoba in 1979 & reconstituted as an SOA in 1996
- Located in Smartpark since 2005
- ISO 9001 registered with ISO 17025 accredited laboratories





## ••• Technology Demonstration – Yes!

- Effective means of introducing, understanding, evaluating and piloting technology.
- Connects concepts with reality.
- Necessary for all users of technology.
- Essential step towards moving forward with technology.
- Typically confirms why the technology is being explored in the first place.



## ••• Communication and Collaboration; Why?

- Knowledge, skills and expertise may already exist within organizations.
- Interest in acquiring knowledge about technology may also exist.

Why not collaborate?

- Effective way of addressing complex problems.
- May help resolve constraints due to financial, human resources or schedule challenges.



## ••• How do we get on with Communication and Collaboration?

- Build a culture of sharing.
- Get into the habit of sharing.
- Promote openness
- Work together.
- Make a point of finding others to collaborate with.
  
- Do not focus on obstacles such as IP.
- Remember.....share.



## ••• Collaboration Example

Manitoba Aerospace Collaborative R&D Project  
Vision Based Robotic Systems

### Project Mission

To increase competitiveness of Manitoba Aerospace Industry and enhance collective knowledge base through collaborative learning.



## ❖ Manitoba Aerospace Collaborative R&D Project

### Project Participants

Bristol/Magellan Aerospace  
Boeing Canada Ltd.  
Industrial Technology Centre  
Standard Aero (phase 1)  
Various vendors

### Project Objectives

Collaboration

Innovation

Learning

Promotion



## ••• Manitoba Aerospace Collaborative R&D Project

### **Vision Based Robotic Systems**

- Investigate, explore, evaluate, demonstrate and potentially implement
- Seek new, innovative and more efficient ways of assembling product and components.
- Facilitate the increased use of robotics within MB aerospace industry
- Increase collaboration between MB companies





## ••• Project Benefits

As a team, acquire and increase knowledge and awareness of vision and robotic system technology. This will include the understanding of:

- how these technologies can be applied,
- the best suited application of these technologies
- the level of effort required to implement such technologies
- the resources required to operate these technologies
- the complexities associated with these technologies



## ••• Project Benefits

also,

- what others things need to be considered as part of implementing and operating such technologies
- how consortium based projects contribute to solving or overcoming complex matters and problems



## • Additional Project Benefits

- a demonstrated collaboration to share information, costs and results when exploring technologies.
- an increased understanding of how industry driven collaborative evaluation and demonstration projects contribute to the overall competitiveness of companies.
- demonstration of innovation, and
- increase the visibility of cooperation between companies to promote awareness and growth of the industry sector.



## Where did this come from?

- Previous work with MAA companies identified the need for increased R&D.
- Manitoba industry needs access to skilled technical resources in a cost effective and timely manner. In order to have this, there is a need to create an industry led sustainable model, which supports research and development of advanced manufacturing technologies in Manitoba.

Project reaffirmed that need.



• Maintaining Manitoba Aerospace competitiveness requires;

- Increased R&D.
- Collaboration with others; regionally, nationally and internationally.
- Others to help mitigate and share risk.
- An understanding of how others can contribute to success.
- Defining a model that allows repeatability.
- Many partners and stakeholders.
- Common goals and interests.
- Collaborative mindset.

## Model Framework

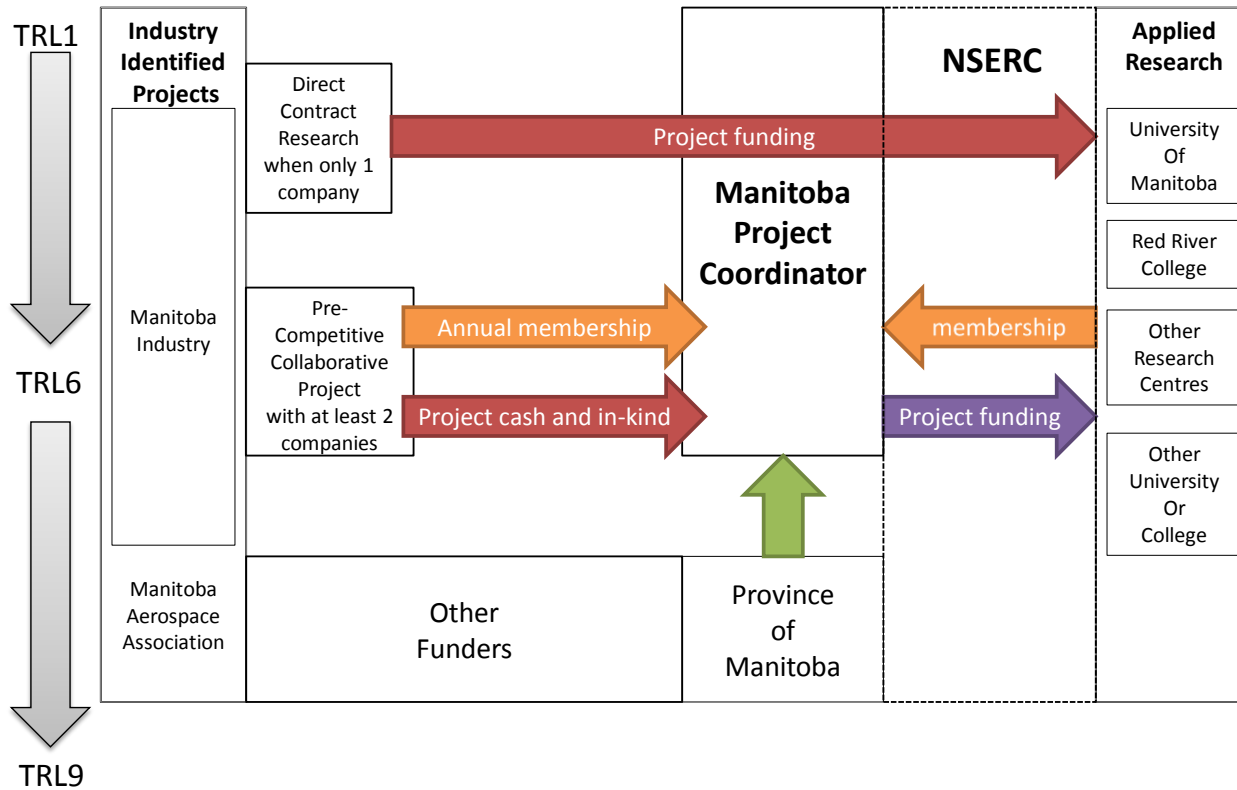




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## Thank You!

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