



**FORUM** AEROSPACE  
INNOVATION

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**COLLABORATE  
GLOBALLY  
TO DEVELOP  
AEROSPACE  
INNOVATION**

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IN COLLABORATION WITH:



ORGANIZED BY:



Québec's Aerospace Cluster

# Global Collaboration for Innovation

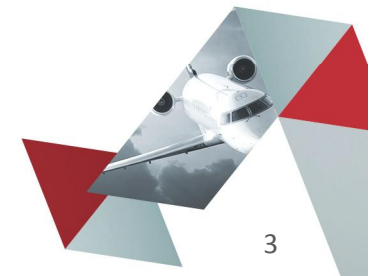
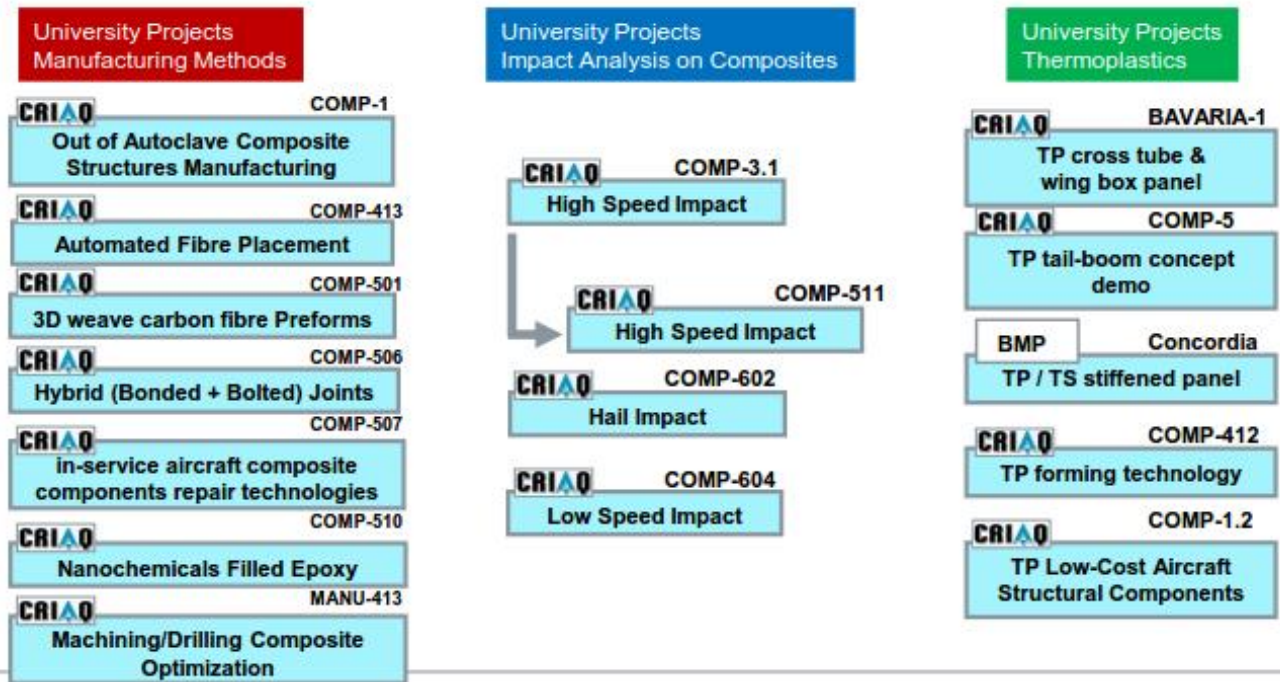
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- Aerospace Innovation requires taking new ideas through three consecutive phases:
  - Awareness, Development and Demonstration;
- In the Technology Awareness stage, OEMs play a major role in maintaining key expertise in universities by supporting areas of interest for the future;
- Technology Development and Demonstration phases require industrial collaboration between OEM's, their potential suppliers and research centers;
- National and International programs that encourage such collaboration (SA2GE, Horizon 2020) are key in accelerating the adoption of new technology;
- Collaboration between competing OEMs is also key to progress in aviation. Collaboration is possible on pre-competitive projects but also on societal issues such as aircraft safety and security (Icing, Cyber Security?) and carbon emission reductions (Biofuel, etc.).




# Industry-University Collaboration for Composite Structures





# Industry Technology Demonstration for Composite Structures

**Engineering**



**BOMBARDIER**  
l'évolution de la mobilité 



**Laboratories**



 **CTA**  **CRiQ**




 **DES MOULINS**





**Partners and Research Centers**











**DEMONSTRATED TECHNOLOGIES**

- Environmentally friendly materials and processes
- Process and Design Optimization
- Electromagnetic Protection
- Structural Monitoring Systems
- Tooling Strategy



Virtual Demonstrator



Manufacturing Demonstrator

