# **GARDN II**

Infused composites for interiors



#### **Descriptions of the Need & Research Objectives**

- Interior composite panels that meet:
  - Lightweight
  - Sound attenuation
  - Flammability
  - Low cost
- From TRL4 to TRL6:
  - Comply with the requirements for interiors
  - Build a demonstrator

PROJECT DURATION

2 years

TRL

TRL level 4

**THEME** 

- ☐ Clean ATS ☐ Quiet ATS
- Sustainable ATS



### **Expected Environmental Benefits**

- Improve passenger comfort through acoustic dampening
- Reduce fuel consumption through weight reduction

PROJECT DURATION

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### **Project benefits:**

- Improve canadian supply chain for composites
- Create jobs in a canadian SME



#### **Expertise sought**

- Sandwich composites with FDC optimized infusion process
  - Mechanical testing
  - Areal density
- Sound dampening composite sandwich panels
  - Acoustic testing
- Interior requirements for categories -19pax & 20pax+
  - Flammability testing per FAR 25.853

#### **Potential Partners**

Bombardier Aerospace

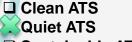
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Sustainable ATS



#### **Estimated Budget**

Total: 200 000\$

- -Test panel fabrication
- -Acoustic testing
- -Flammability testing
- -Mechanical testing
- -Insert allowables
- -Demonstrator

Potential funding partners

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