# NGen Project Pitch Day

April 16 2019







## **ATTAbotics**

Scott Gravelle CEO, CTO & Co-Founder Brad Simpson Director of Growth

HQ - Calgary, AB - 73,000 sqft - Office + Manufacturing

Commercializing 3-D Robotic Automated Storage and Retrieval System Technology

First employee hired July 2016  $\rightarrow$  183 employees today

Vertically integrated manufacturing process - Adopting Industry 4.0







**Collaborative Advanced Manufacturing Project Idea** 

#### Stage 1

- Transition from manual riveting to automated flow screw process
- Automate securing gear racking to aluminum beam

#### <u>Stage 2</u>

 Automate cross beam placement and gusset alignment using automated material handling equipment and automated part positioning jig systems

#### <u>Stage 3</u>

• Automate moving aluminum beams from laser tube cutter into part positioning jig



ATTABOTICS MODULE ASSEMBLY

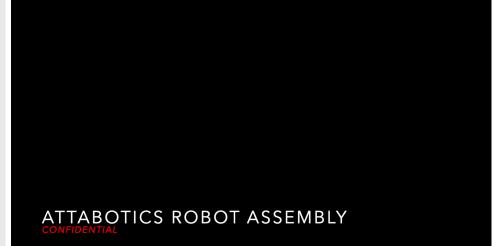






### Collaborative Advanced Manufacturing Project Idea

- Move to cell based manufacturing using cobots
- Use ATTAbotics robots to move bots in assembly from one cell to another
- Use cobots to automate current manual processes:
  - Part co-location
  - Screw insertion









Partnerships we are seeking

- Partners to help with steps 1 3 of module assembly
- Expertise in automated material handling methods
- Cobots and robotic arms
- Automated jig positioning systems
- Leading edge industry 4.0 deployments

Next Generation Manufacturing Canada – Sparking a New Economy