# BARRIERS AND SOLUTIONS FOR SMALL AND MEDIUM SIZED MANUFACTURERS' COLLABORATIVE ROBOT ADOPTION

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### Challenge

- Slow diffusion of co-robot technology
- Innovation challenges for small and medium-size manufacturers (SMMs)
- Lacking systematic understanding of barriers to corobot adoption

### **Scientific Impact**

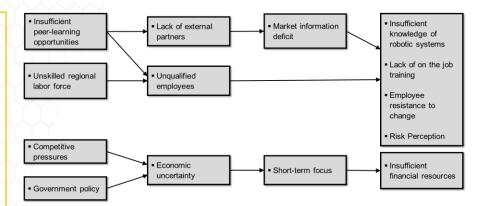
- Systematic analysis on barriers to co-robot adoption
- Understanding development needs for co-robot
- Development of labor market analysis method with novel datasets (Real Time Labor Market Information)

#### Solution

- Identifying the barrier structure through Delphi survey technique & Interpretive Structural Modeling
- Firm and labor market analysis using real time labor market information
- International case studies to identify enabling environments

## **Broader Impact**

- Potential solution to problems & support for SMMs
  - Increase productivity & competitiveness
  - Upskill jobs & higher wages
  - Attract workers & counter growing inequality
- Understanding supportive environments for technological innovation in SMMs
- Insight for regional development & industrial development policy



Example of Barrier Structure to Co-robot adoption (preliminary analysis results)

Georgia Tech