Project: Digital Data Strategy for A220

Jointly driven by **AIRBUS** and **DISCOS**
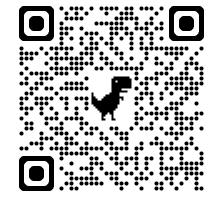### Research Group of Distributed Computing and Systems

Dr. Gengrui (Edward) ZHANG

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DISCOS
Research Group of Distributed Computing and Systems

UNIVERSITÉ Concordia UNIVERSITY

⚙️ **Project Goal**

Optimize complex discrete aircraft manufacturing by enabling smart digitalization with cloud DBMS and AI-driven solutions
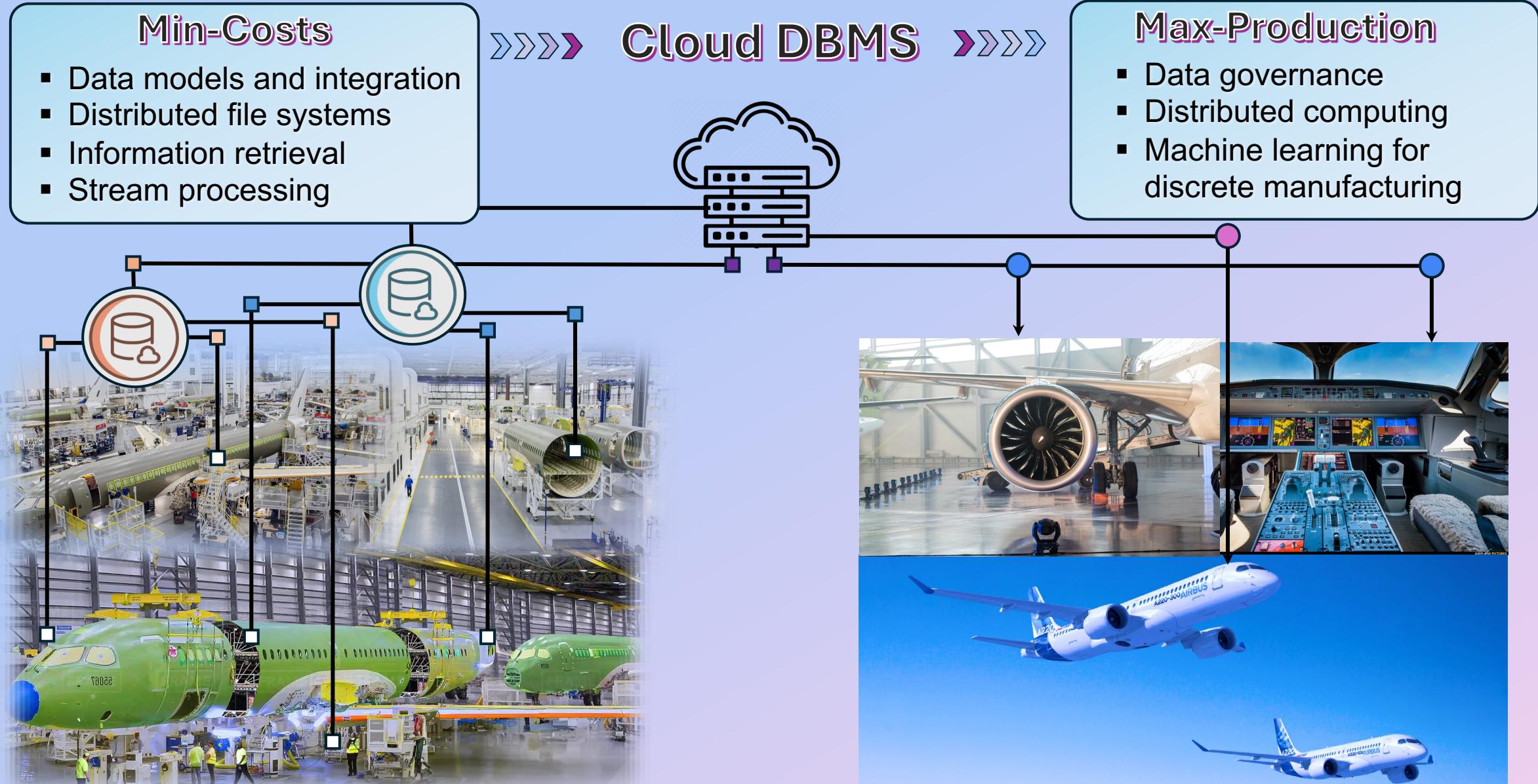
✈️ **Partnership**

Partnering with **Airbus Canada**, our project aims to **minimize** operational costs and **maximize** A220 production efficiency

🍁 **Impact**

The project strengthens Quebec's aerospace sector, cultivates multi-disciplinary talent, and advances Canada's leadership in Industry 4.0

Project: Digital Data Strategy for A220

Min-Costs

- Data models and integration
- Distributed file systems
- Information retrieval
- Stream processing

Cloud DBMS

Max-Production

- Data governance
- Distributed computing
- Machine learning for discrete manufacturing

Student Recruitment for Project "Digital Data Strategy for A220"

Jointly led by Dr. Zhang's research group at **Concordia University** and the development team at **Airbus Canada**, this project offers a unique opportunity to contribute to real-world challenges in **aerospace digitalization research** under the vision of **Industry 5.0**

We are looking for PhD and Master students:

Minimum Qualifications:

- Background in **Computer Science or Computer/Software/Aerospace Engineering**
- Experience in **one or more** of the following areas: databases, data analysis, distributed systems, machine learning
- Successful completion of courses in **data structures and algorithms** and **operating systems (or database systems)**

Preferred Qualifications (for PhD students):

- Research experience (e.g., publications, research projects) in computer systems and/or machine learning
- Familiarity with linear programming and optimization techniques

Join us!
Shape the future!

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AIRBUS

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