#### **Digital Taxi Instructions Exploration**

Turning Information into Working Technology

Noureddin Ghazavi 05/31/2023



#### INTRODUCTION

Recent advances in aviation technologies and high-speed communication links now enable aircraft to be "fully connected" during all phases of flight.

Leveraging real-time information via the Connected Aircraft presents opportunities to increase efficiency for aviation communities.

The FAA Info-Centric NAS will leverage a multitude of opportunities across technology and business practices with availability of information to enhance operations.





# Current Surface Operational Environment

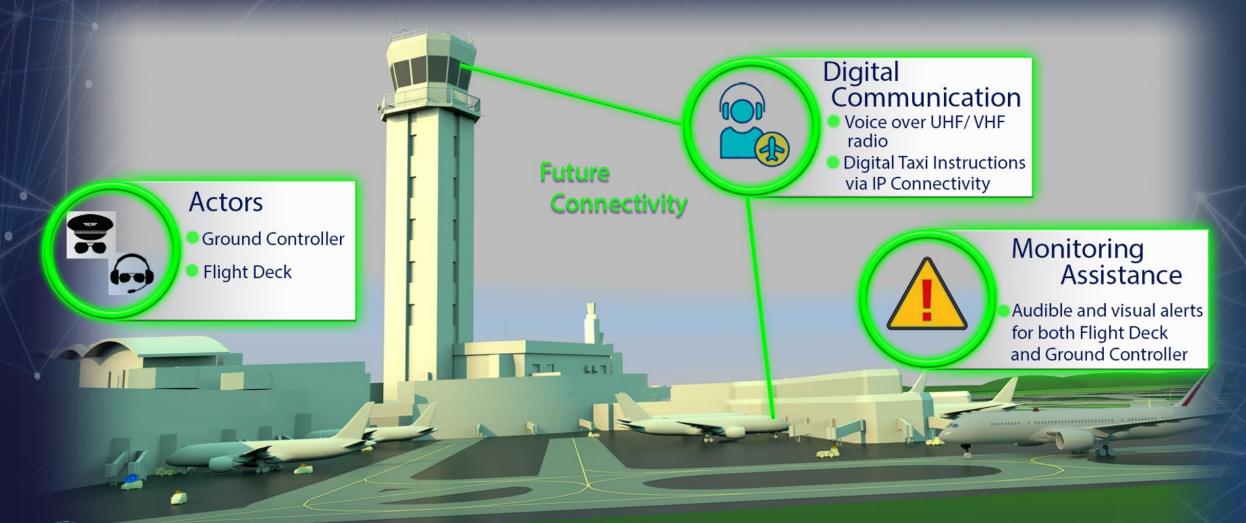






To achieve this vision, robust data exchange and information sharing can deliver innovative applications levering Electronic Flight Bags (EFB) to improve surface movement. Seamless flow of data to stakeholders is needed to support effective decision making. Digital Taxi Instructions that communicate controller instruction and flight crew responses are the foundations of this project.

#### Future Surface Operational Environment



### **Taxi Instruction Delivery**

Flight Plan Filed

Connection **Established** 

> GC Develops Taxi Instructions

**GC Provides** Taxi Instructions



**FC Reviews** & Accepts Instructions

Compliance Monitoring

**FC Executes** Instructions

**Taxi Route** Removed































## Questions?

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