

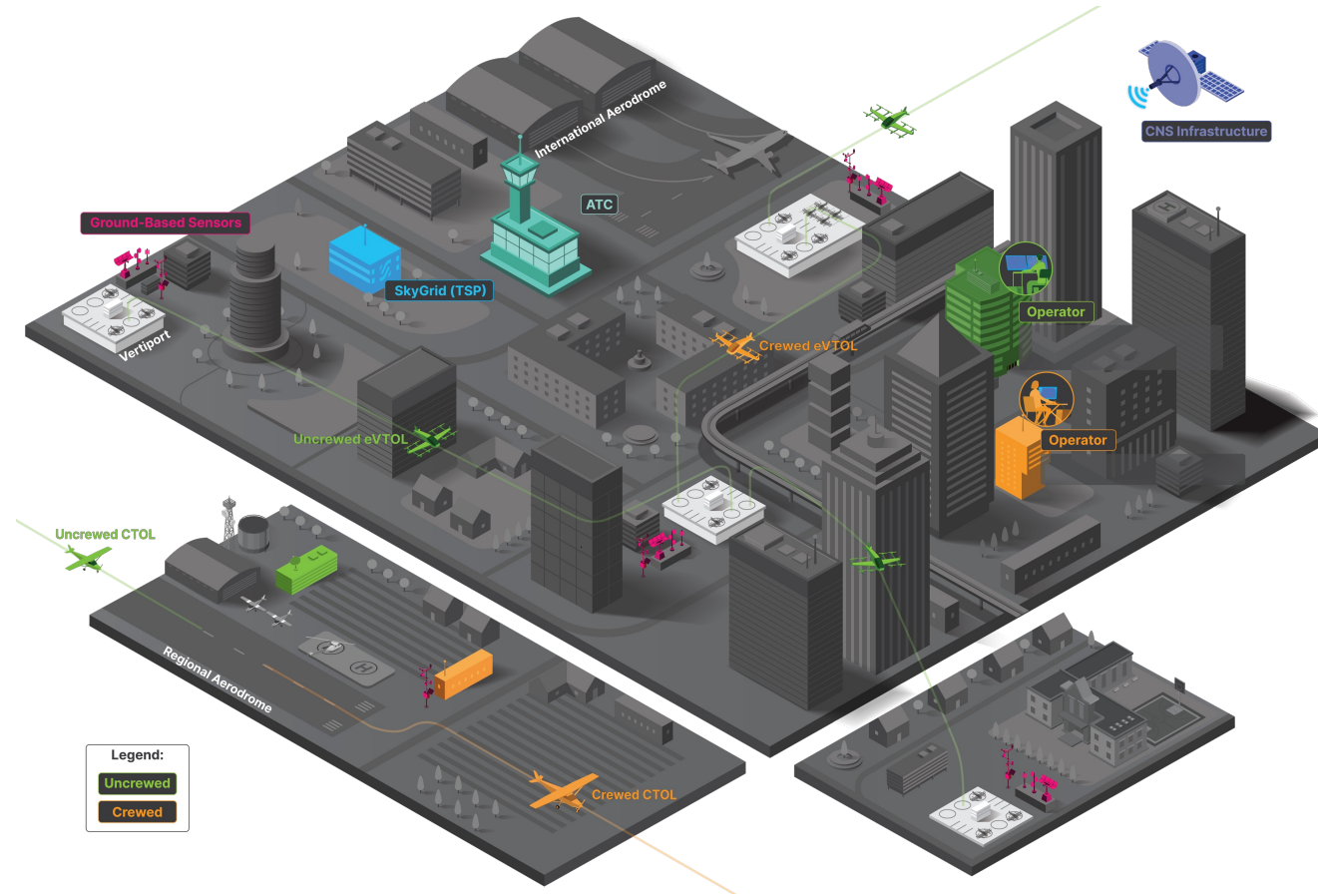


A Boeing,
SparkCognition
Company.

ICAO AAM 2024

Jia Xu, CEO

Information and Data Management Panel
Montreal, Canada. 12.9.2024



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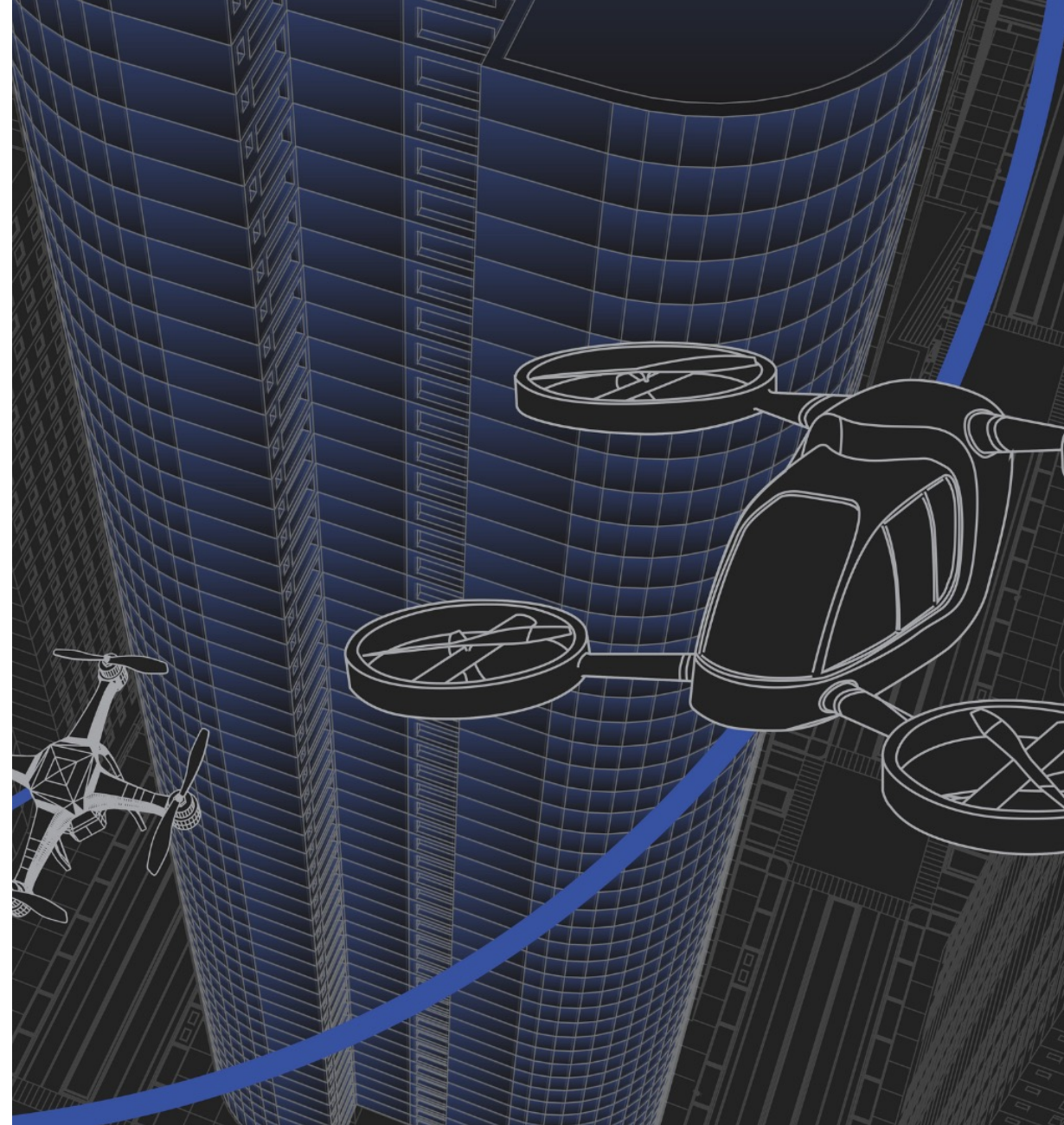


The Future is Autonomous







Autonomous aviation and advanced aerial mobility will **multiply** the positive impact of flight

Problem 1: As autonomous aircraft come to market, we still face challenges in **integrating** and **operating** these aircraft

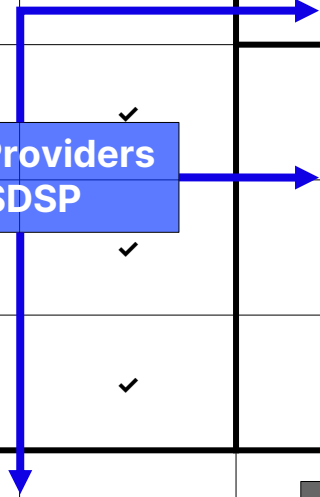
Problem 2: Today's airspace and infrastructure are not configured to support UAS and AAM operations at **scale**

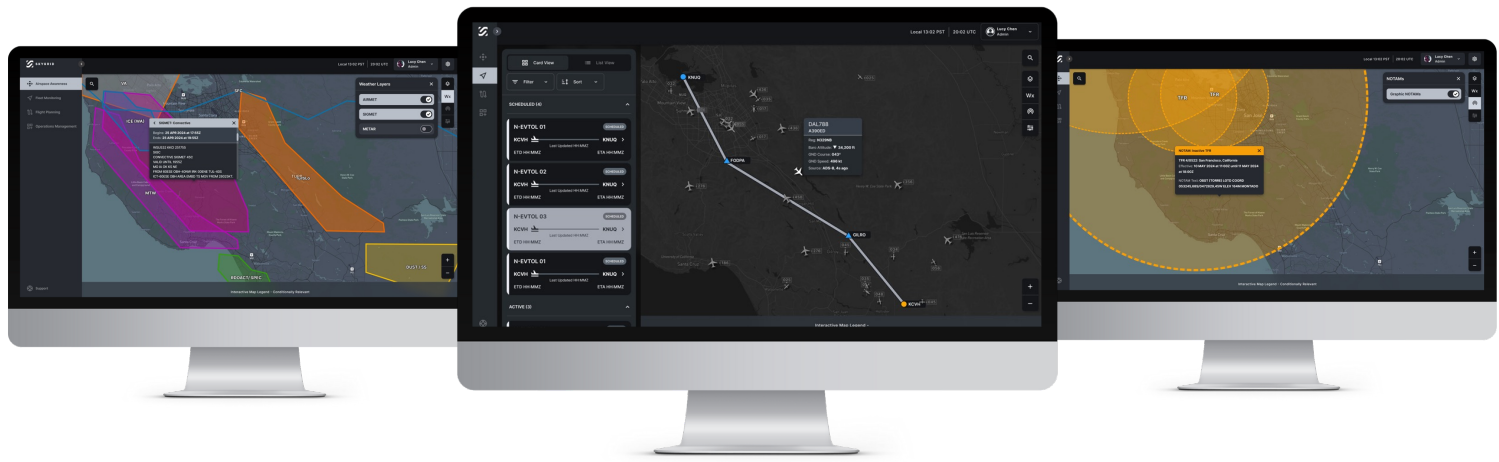


Problem Space for AAM and Autonomy

Integrate UAS Operations Focus on the operator and enable initial integration					Automate Air Traffic Management Scale AAM operations mid to long-term				 SKYGRID
Traffic surveillance	Advanced environment and aero data	CNS performance monitoring	Flight plan validation	Airspace hazard monitoring	Strategic deconfliction	Separation provision (re-routing)	Network contingency management	Conformance monitoring	
 High assurance sUAS	✓	✓	✓	✓	✓	UTM	✓	✓	✓
 Autonomous CTOL	✓	✓	✓	✓	✓	✓	✓	✓	✓
 Crewed eVTOLs	✓	✓	✓	✓	✓	PSU	✓	✓	✓
 Autonomous eVTOLs	✓	✓	✓	✓	✓	✓	✓	✓	✓
 Part 25 SPO and autonomy	✓	✓	Operational Efficiency and Digital Airspace				✓	✓	

Data Providers / SDSP





Fleet Dispatcher



AAM Traffic Manager



Remote Operator

Needed:

Assured third-party services to open the sky for autonomous flight and scale advanced air mobility

Better data enables advanced functions

- > Safe low-altitude operations
- > Hazard awareness
- > Conformance monitoring
- > Tactical deconfliction
- > Strategic deconfliction
- > ...