

# Open Advanced Air Mobility Project Vertiport and Route Decision Support Tool

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## Objectives

#### Summary:

NASA is building a decision support tool to help urban and transportation planners with vertiport location and route design.

#### We will cover:

- Problem what the tool solves, relevant concerns
- Value Proposition
- Scoring Vertiport Placement
- Prototype Demo



## What we are solving...

- Novel mode of transportation means both challenges and opportunities
- A new tool to help maximize the opportunities and overcome the challenges

## Concerns?

Variations on ones you already know...

- Public acceptance
- Noise

Problem

- Zoning
- Intermodal Access/Impacts
- Ridership
- Environmental Regulation
- Fire Safety
- Social Equity
- Funding, Zoning, Demographics, Congestion, Econometrics, ...etc. etc.

### Concerns?

A lot of new things to think about...

Value Proposition

- Vertiport and Operational Certification Requirements
- Terrain and Obstacle Avoidance enroute and during approach/takeoff
- Micro Weather/Winds
- Vehicle Models
- **Battery/Charging Models**
- Diversion sites, Airspace Restrictions, National Airspace Integration, airspace

operations, etc., etc.

## Value Proposition



- Decision support for route and vertiport placement
- Map visualization of all the geographic concerns

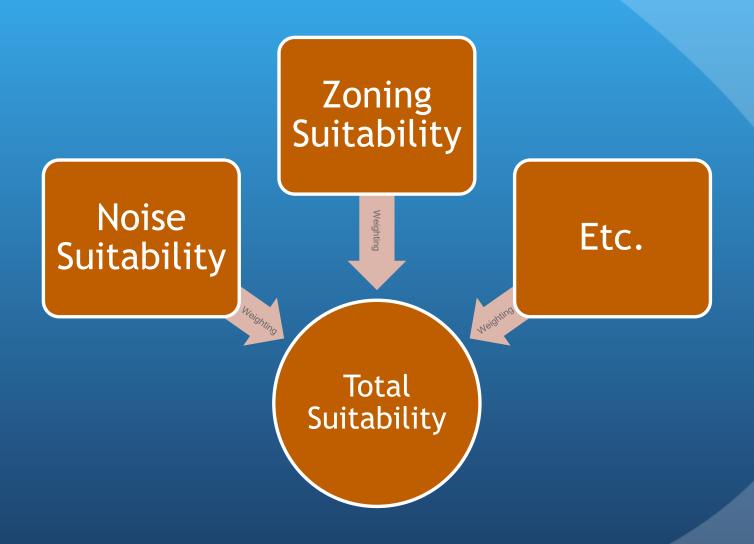
## But my city is unique!

Value Proposition

- **Open Architecture**
- **Open Source**
- Open to your data, toolsets, and specific requirements



## **Suitability Scoring**



Problem Value Proposition Suitability Scoring Prototype Demo

# Prototype





