



# Stakeholder & Community Engagement

## Future of Aviation 2022

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# A New Paradigm in Aviation



**Vertistation**

1 FATO/TLOF  
100 ft. x 100 ft. footprint  
No ground support/service  
Low intensity operations



**Vertiport**

1-2 FATO/TLOF + 2-10 stands  
250 ft. x 250 ft. footprint  
Limited support/services  
Medium intensity operations



**Vertihub**

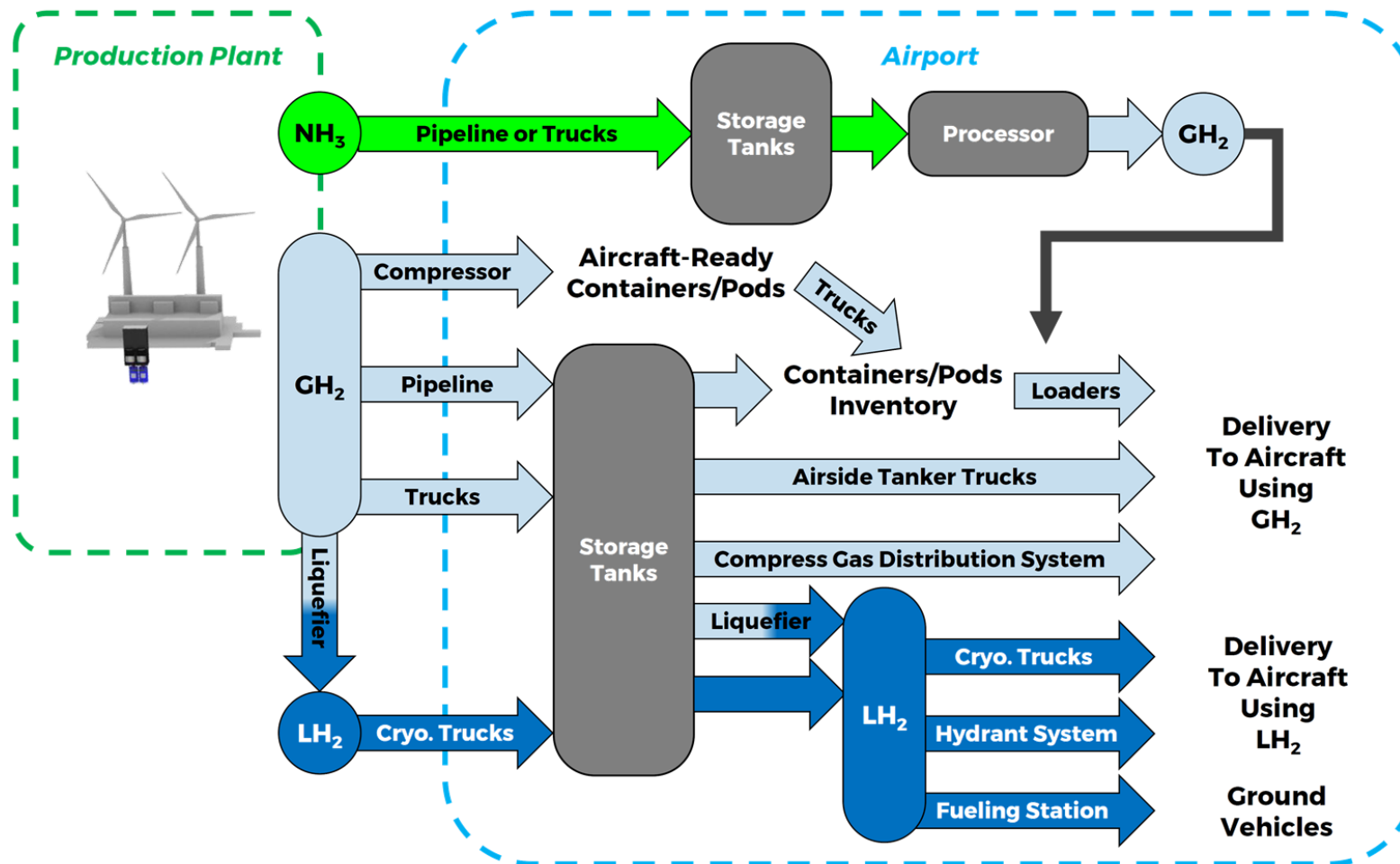
2+ FATO/TLOF + 10+ stands  
400 ft. x 350 ft. footprint  
Full support/services  
High intensity operations



**Airport**

Runways and FATO/TLOF(s)  
Large footprint  
Passenger & aircraft services  
High intensity w/ diverse fleet

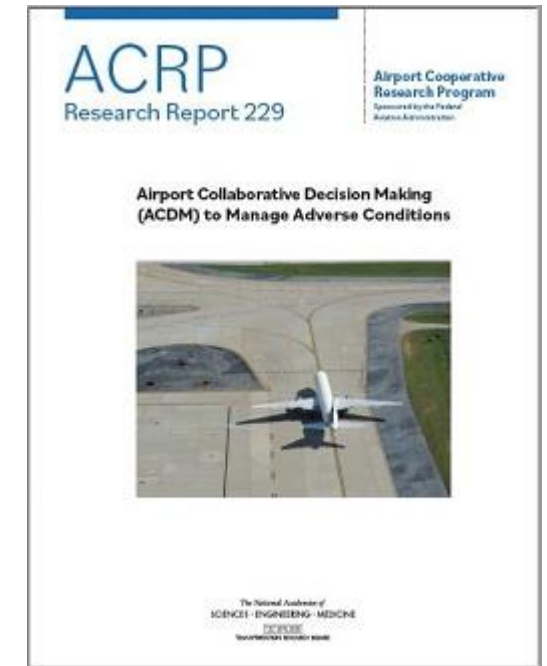
# A New Paradigm in Aviation



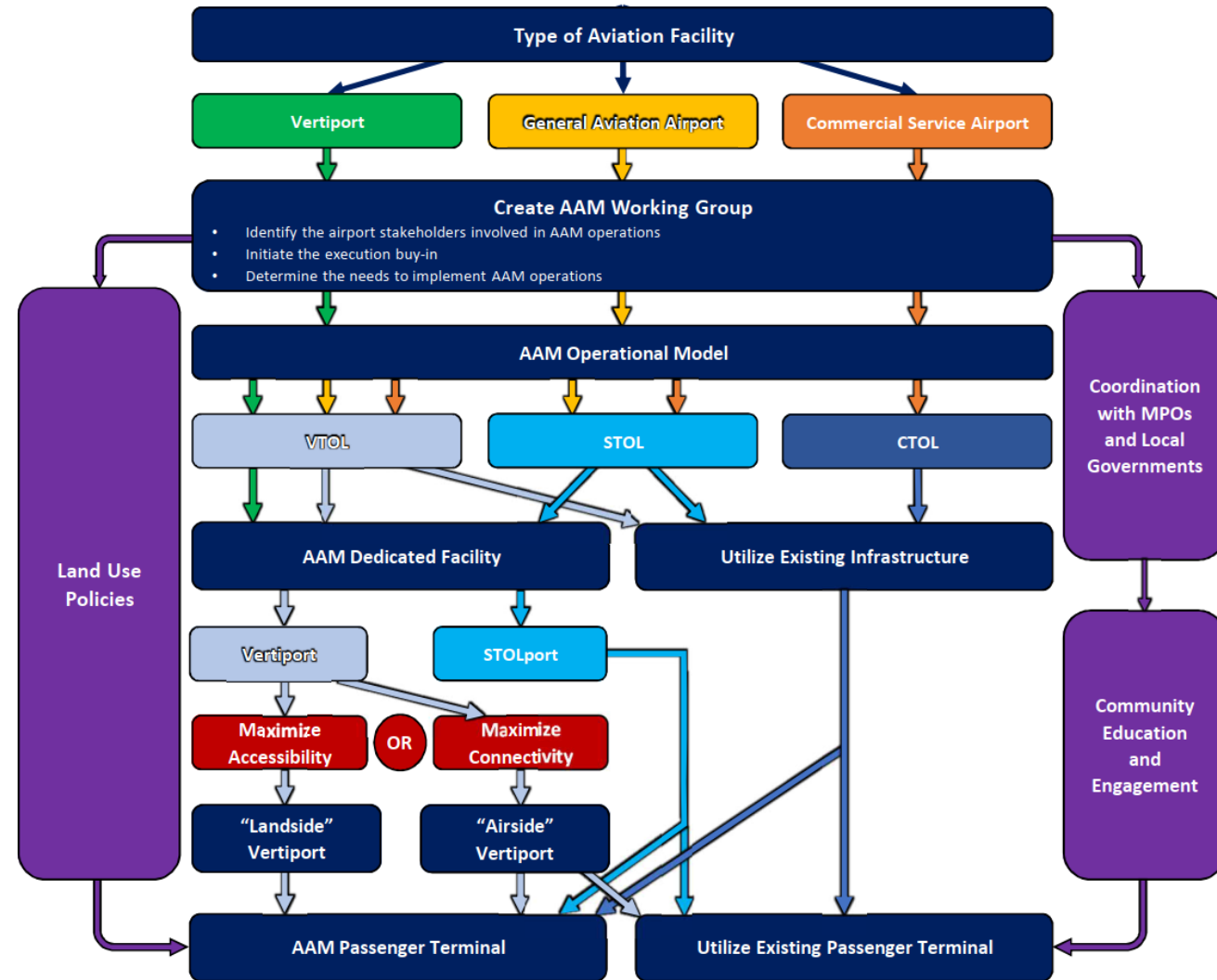
Source : G. Le Bris/WSP

# The Stakeholder Ecosystem is Expanding

- ✓ Airport operator
- ✓ AAM providers and their flight operators
- ✓ Existing flight operators (including GA community)
- ✓ Aircraft rescue and firefighting (ARFF)
- ✓ FAA ADO and AFS
- ✓ Air traffic control tower (ATCT)
- ✓ Aircraft ground support providers
- ✓ Fixed-base operators (FBO)
- ✓ Utility providers and hydrogen suppliers
- ✓ Maintenance, repair, and overhaul (MRO)
- ✓ Ground transportation (TNC, transit authority, etc.)
- ✓ Local governments
- ✓ Metropolitan & regional planning organizations
- ✓ Communities and small businesses
- ✓ Building and land-owners



# AAM Facility Planning Process



# Opportunities & Challenges for Communities

- Hub airports are becoming **intermodal nodes**.
- **Mobility-as-a-service (MaaS)** can enable a better integration of these modes.
- With advanced air mobility, smaller aviation facilities may follow this trend as well and become **local mobility hubs**.
- **New supply chains** are needed to meet new power requirements and deliver new fuels to airport end users.
- **On-airport power generation** and microgrid approaches can help addressing these challenges.
- Airports can increase **energy resilience** and provide power to local communities when the grid is deficient.

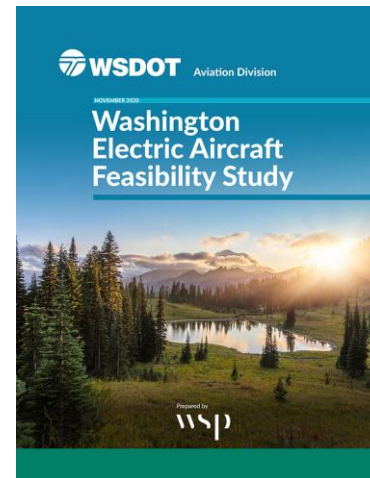
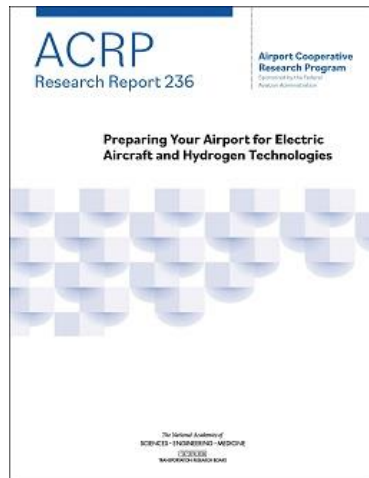


# Paving the Way for AAM

**Guidance &  
Standards**

**State & Regional  
Roadmaps**

**Planning & Designing  
Facilities for AAM**



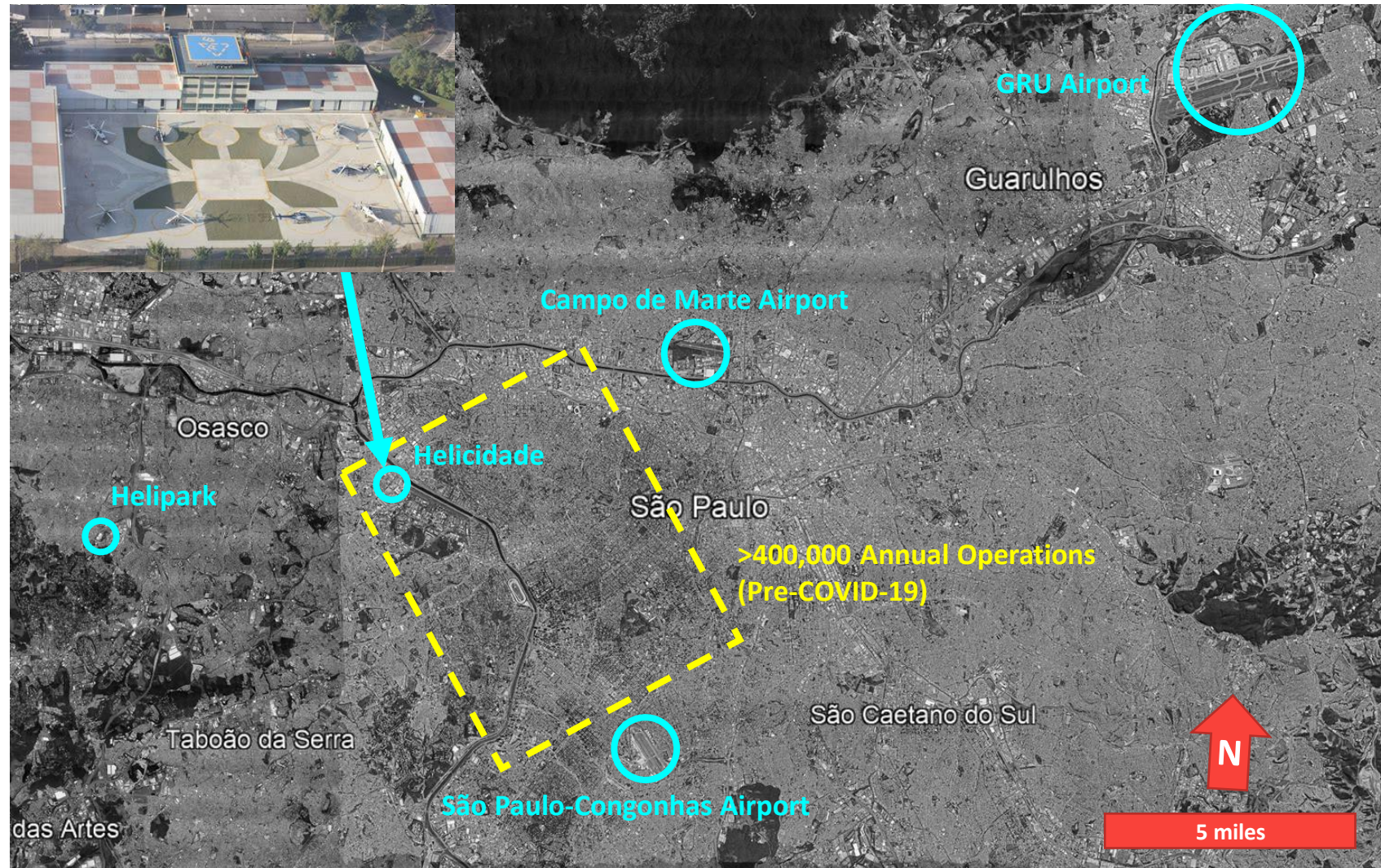
# Lessons Learned & Success Stories

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## Bonus: Could it Work?



## Further Reading

**ACRP Research Report 236:  
Preparing Your Airport for Electric  
Aircraft and Hydrogen Technologies**



**The Future of Airports:  
A Vision of 2040 and 2070**



# Fly safe!



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