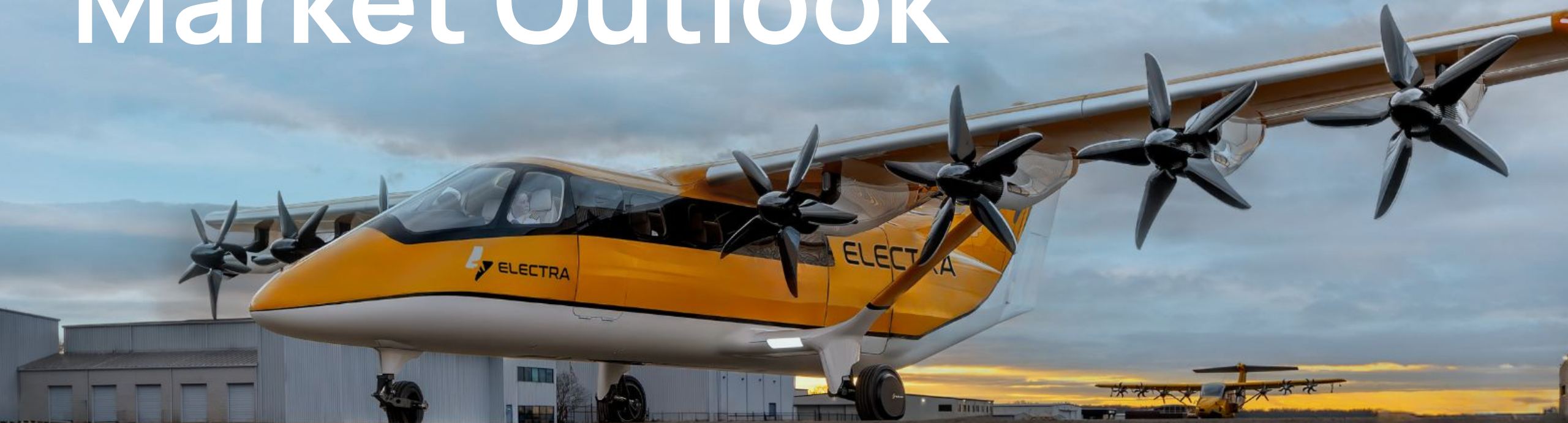


# Direct Aviation Market Outlook



**UNDER EMBARGO UNTIL 5/27/26 AT 9AM ET**



Aviation Has Entered a

**NEW ERA**

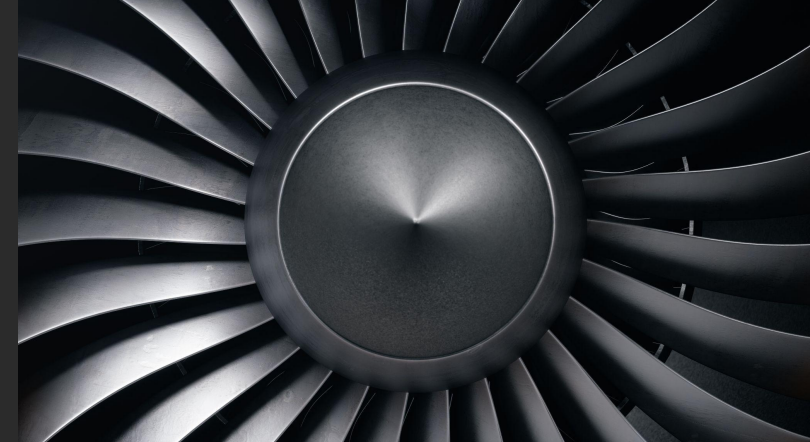
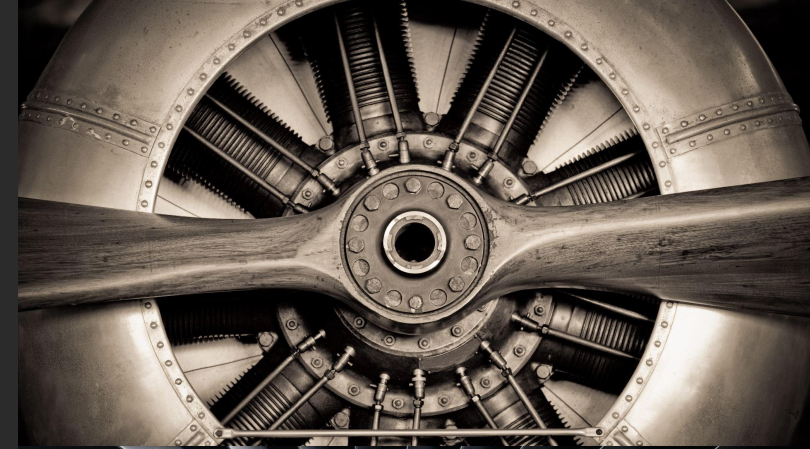


# Regional Mobility Reimagined

Hybrid-electric propulsion has unlocked transformative capabilities that piston and turbine technologies could never achieve. This era, by reshaping how we use the skies, will **redefine how people and goods move across the United States and around the world.**

**Regional mobility** will be transformed.

**Direct Aviation** – regional air travel that meets you where you are – will be the first application.



# The Unlock: Direct Aviation

Direct Aviation means flying from where people are to where they want to go. It enables people to avoid long drives or connections at crowded airport hubs. It creates a mesh network of access points, freeing travelers from the tyranny of gridlock and airport chokepoints.

## What enables it to scale?

Direct Aviation becomes real when the Rule of Six is satisfied so service is commercially viable and community compatible.



## Rule of Six



Access & Quiet



Payload & Range



Safety & Affordability

# Regional Travel Today

Electra has rigorously examined US regional travel patterns to identify the level of demand for Direct Aviation



50–500-mile routes with >1,000 travelers per day (ground)

**1.6T**

estimated  
person-miles/yr  
(all routes)

**35M+**

estimated daily  
passenger trips  
(all routes)

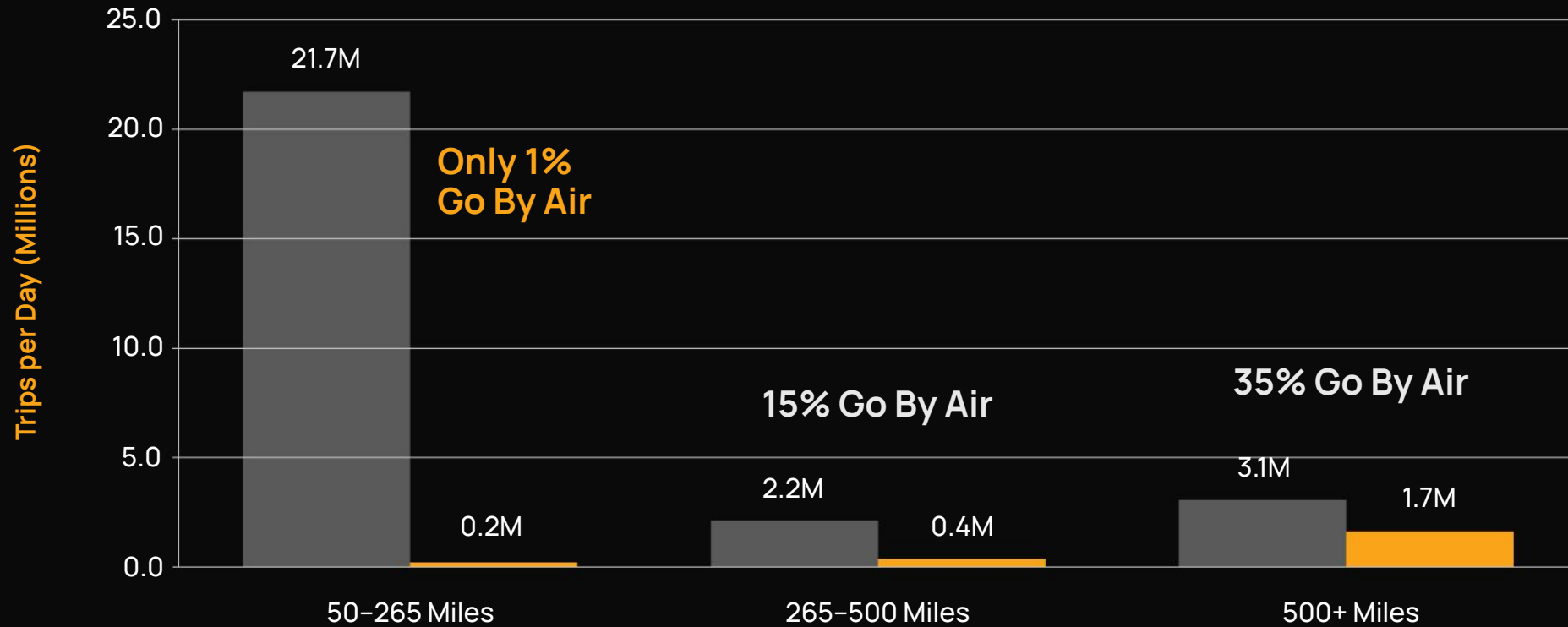
**6,249**

routes w/ >1,000  
travelers/day

# The Heart of the Market: 50–265 Miles

Daily Ground Trips vs Daily Air Trips by GCD\* Distance Band

● Daily Ground Trips  
● Daily Air Trips



\*Great Circle Distance

# The Heart of the Market: 50–265 Miles

**85%**

of these trips lack air service  
within 40 miles of origin  
and/or destination

**1.2T**

estimated  
person-miles/yr  
(all routes)

**33M+**

Estimated daily  
passenger trips  
(all routes)

**6,073**

Routes w/ >1,000  
travelers/day

# Significant Time Savings via Direct Aviation

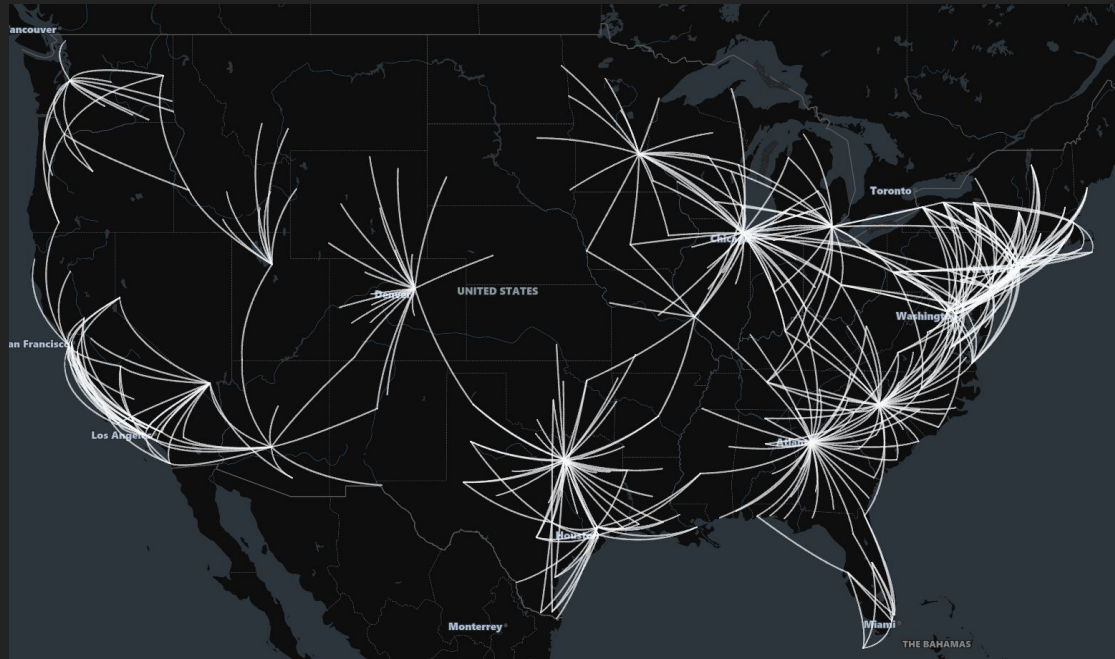
All data for >1,000 travelers per day, 50-265 GCD\* miles

TIME SAVINGS	PERSON-MILES/YEAR	# DAILY PAX TRIPS	# ROUTES
> 1H	264B	4.9M	1,851
> 2H	100B	1.2M	540
> 3H	46B	0.6M	227

\*Great Circle Distance

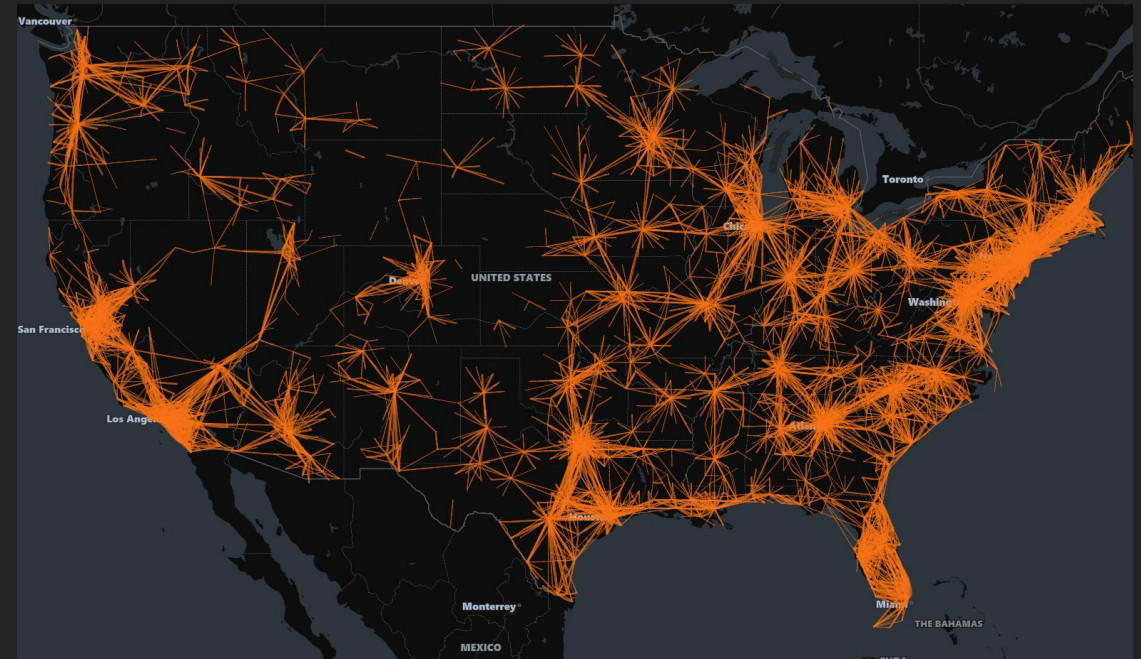


# Transforming Regional Air Travel



## Sparse Regional Air Service

Commercial Aviation Routes (50–365 miles, >78 pax/day)\* – 487 routes



## Direct Aviation

Ground Routes addressable by EL9 (50–265 miles, >1,000 pax/day) – 6,073 routes

\*Routes with at least 1 flight/day. Adding 50 miles on either end to account for 1st and last mile to/from airport





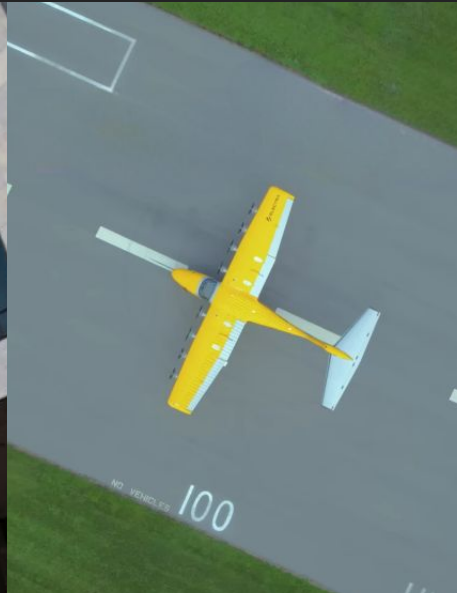
# A New Era Requires a New Ecosystem



AIRCRAFT



AAM GUIDELINES



ACCESS POINTS



PARTNERS



SUPPLIERS



# The Ultra-Short Airplane That Makes Direct Aviation Work.

Operational flexibility like a helicopter. Economics, safety, and simplicity of fixed-wing.

**9** passengers  
1 pilot + 2,700 lb payload

**1,100** nm  
max range (+ 45 min reserve)

**175** KTAS  
max cruise speed

**<75** dba on takeoff (300 ft)  
comparable to urban background

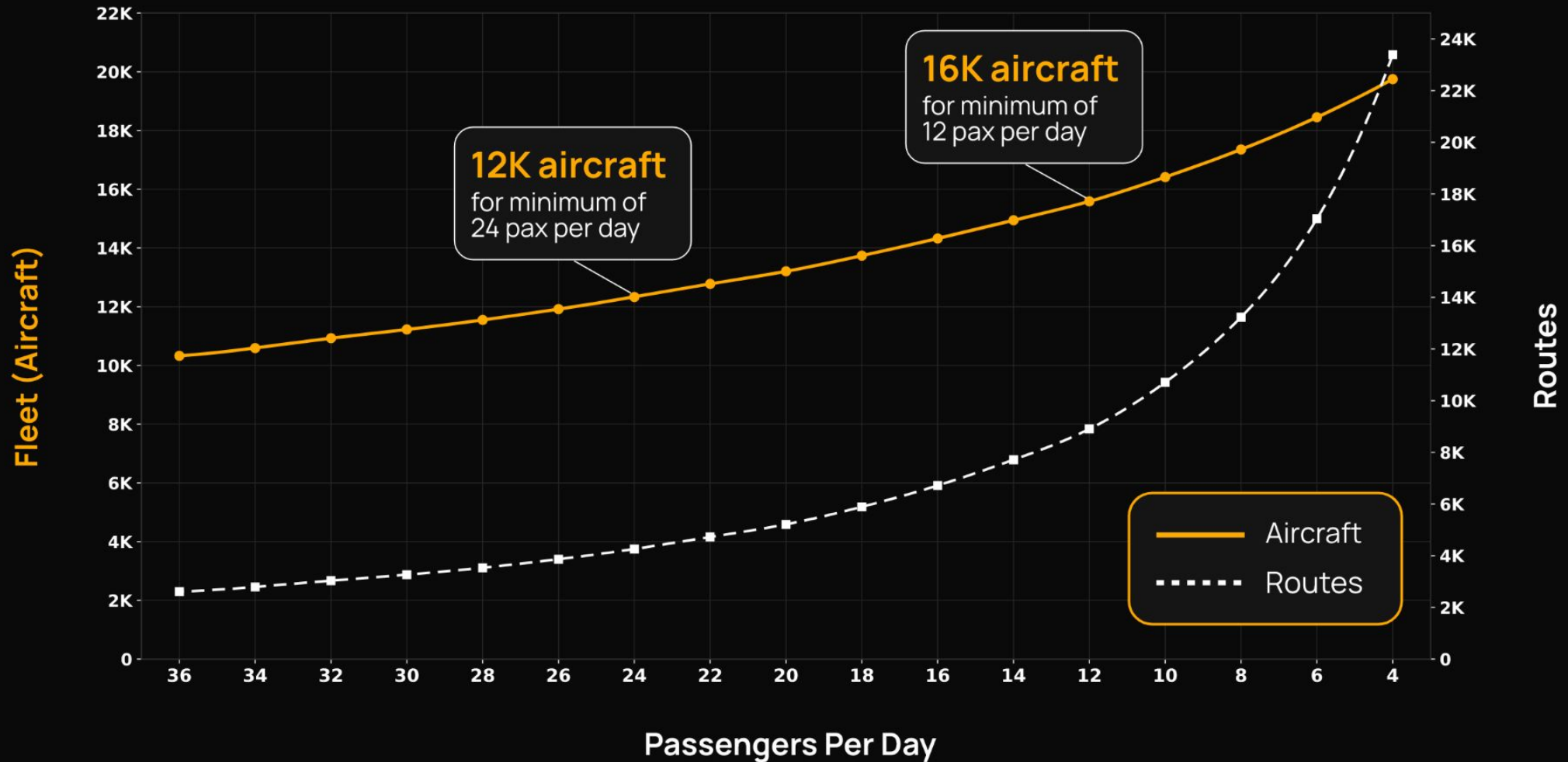
**~150** ft  
nominal takeoff and landing roll



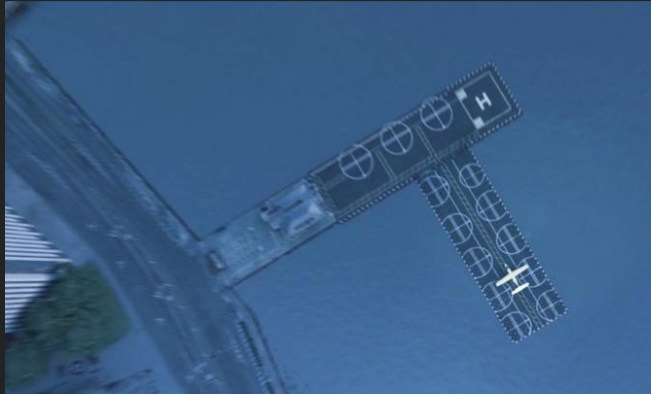
# 12K–16K Aircraft Required for 2030–2040

## Direct Aviation Market

EL 9 Fleet and Route Opportunity by Passengers Per Day

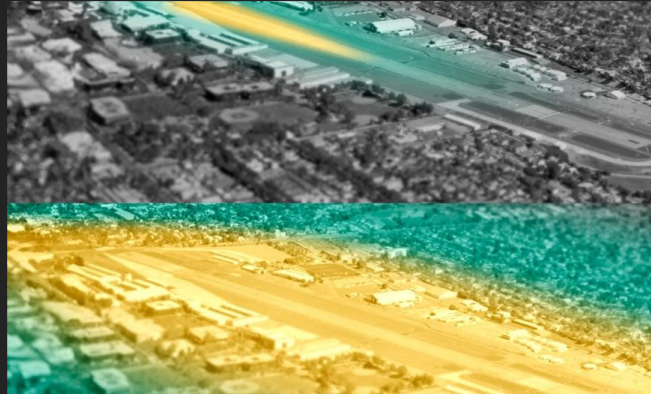


# Innovation Allows Operations Not Possible With Traditional Aircraft



01

Add Novel Access Points.  
Helicopter-like convenience



02

Maximize GA Airports.  
Good neighbor policy



03

Feed Large Airport Hubs.  
Congestion-free integration



# Novel Access Points



Barge near Downtown Philadelphia  
(concept under development)



Snowshoe Mountain Ski Resort



Multiport at Watson Island,  
near downtown Miami



Rooftop Ultra Short Access Point  
in urban setting



Noise-sensitive airports, such as Santa Monica



Closed municipal airports under redevelopment,  
such as Bader Field, Atlantic City

CUSTOMERS EXIST TODAY

# Direct Aviation Will Connect Us to Our Destinations.

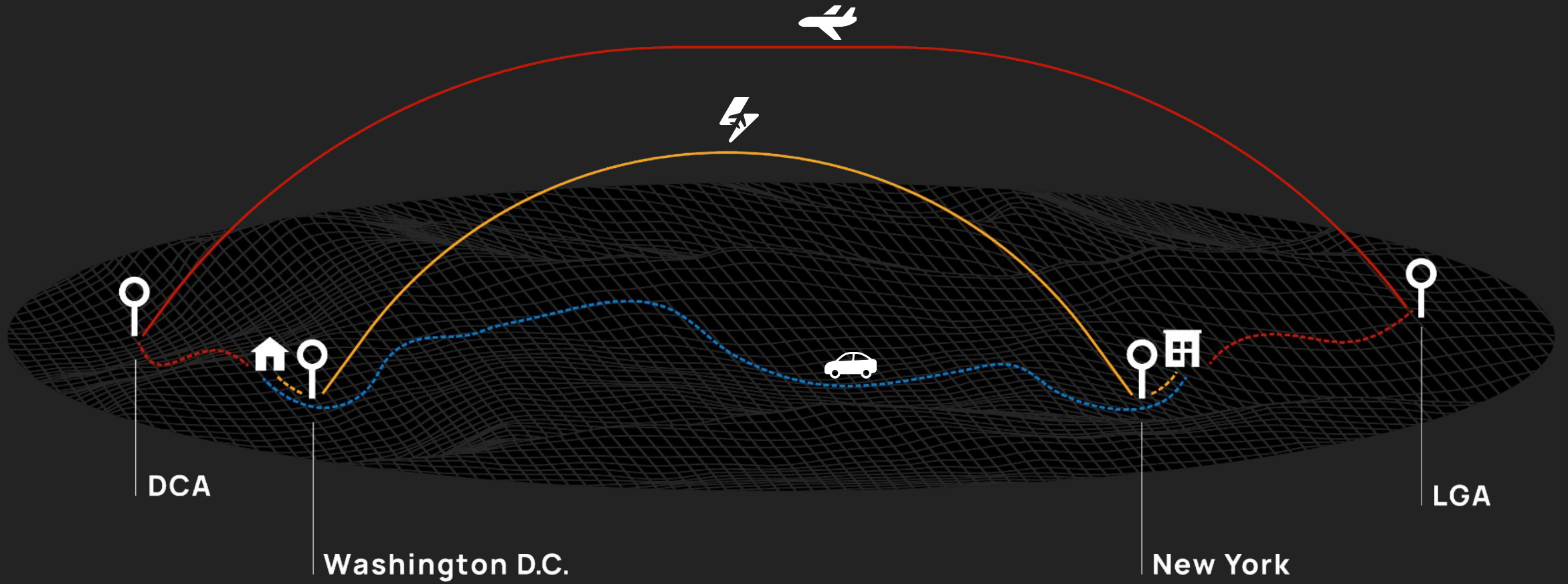
- Intercity Connectors
- Leisure Launchpads
- Airport Feeders
- Small Community Services



INTERCITY JOURNEY

# The DMV to NYC

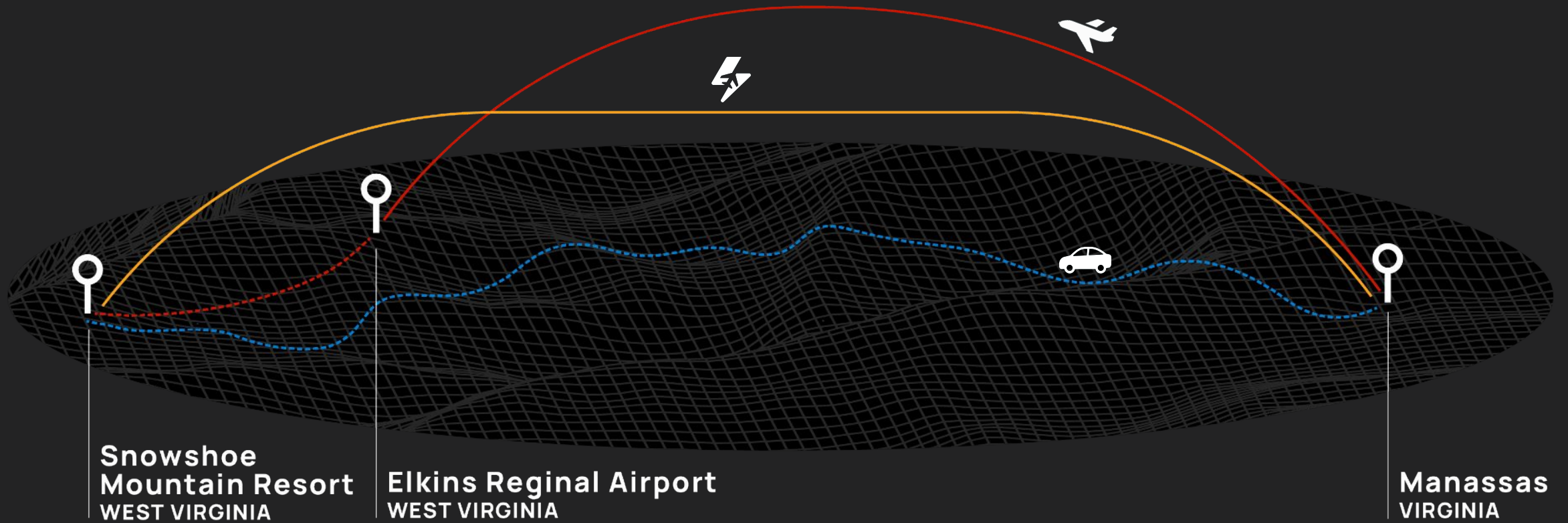
 <b>4H 30</b> By Car	 <b>4H 00</b> Commercial Flight	 <b>1H 45</b> SAVE 2h 15
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LEISURE LAUNCHPAD JOURNEY

# Manassas to Snowshoe

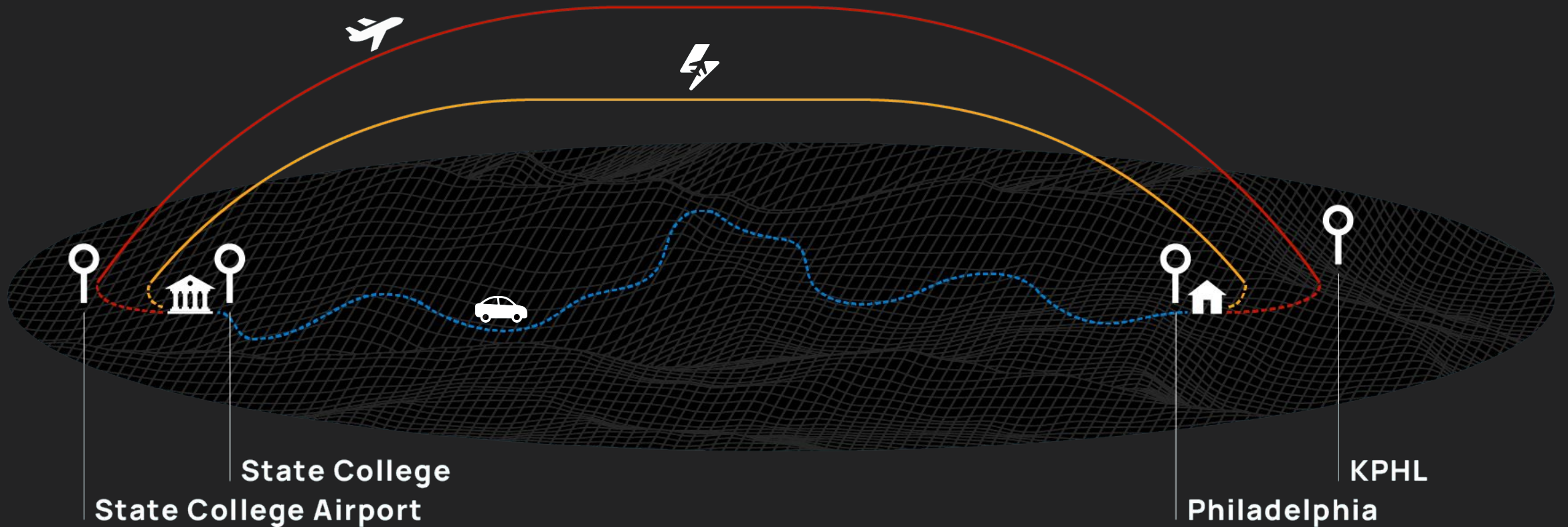
 <b>4H 25</b> By Car	 <b>3H 45</b> Charter Flight	 <b>1H 00</b> SAVE 2h 45
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SMALL COMMUNITY SERVICE JOURNEY

# State College to Philadelphia

 <b>4H 40</b> By Car	 <b>4H 20</b> Commercial Flight	 <b>1H 50</b> SAVE 2h 00
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## ROUTE OPTIONS

# Intercity Connectors

Direct from urban center to urban center, avoiding slow, congested ground routes and busy airports

Routes	DRIVE		COMMERCIAL AIR	
	Time Savings	Daily Trips	Time Savings	Daily Trips
DC Area ↔ NYC	3h 30mins	18,000	2h 40mins	5,174
NYC ↔ Boston	1h 45mins	17,200	2h 45mins	6,490
Austin ↔ Houston	2h 00mins	13,690	3h 10mins	2,352
Orlando ↔ Miami	2h 30mins	9,800	3h 00mins	3,018
Memphis ↔ Nashville	1h 40mins	9,350	2h 20mins	144
DTLA/Pasadena ↔ San Diego	1h 30mins	14,375	3h 30mins	691
Austin ↔ Dallas	2h 15mins	6,000	3h 00mins	4,500



## ROUTE OPTIONS

# Leisure Launchpad

Links travelers directly to vacation destinations (lakes, beaches, ski towns) without long drives or multiple transfers

Routes	DRIVE		COMMERCIAL AIR	
	Time Savings	Daily Trips	Time Savings	Daily Trips
Long Beach/South LA ↔ Las Vegas	3h 20mins	12,650	3h 20mins	10,285
Miami ↔ Key West	2h 30mins	2,500	2h 20mins	552
Portland ↔ Bend	2h 20mins	12,000	2h 10mins	182
NYC ↔ Atlantic City/Ocean City*	1h 15mins	10,000	NA	N/A
Bay Area ↔ Lake Tahoe	3h 00mins	5,500	2h 30mins	1,090
DC Area ↔ Snowshoe Mountain*	3h 00mins	2,800 (Seasonal)	N/A	N/A

\*No direct commercial air service



## ROUTE OPTIONS

# Airport Feeder (To and From)

Leveraging infrastructure to connect travelers from smaller cities to large hub airports without adding to congestion

Routes	DRIVE		COMMERCIAL AIR	
	Time Savings	Daily Trips	Time Savings	Daily Trips
Jacksonville ↔ Orlando Airport*	1h 30mins	6,100	N/A	N/A
Norfolk ↔ DC Reagan Airport	2h 40mins	9,625	3h 10mins	1,926
Portland ↔ Seattle-Tacoma Airport	1h 35mins	13,000	2h 30mins	2,770
Colorado Springs ↔ Denver Airport	1h 40mins	9,400	2h 50mins	1,873
Fresno ↔ San Jose Mineta Airport*	1h 45mins	6,300	N/A	N/A
Cincinnati ↔ Indianapolis Airport*	1h 10mins	5,500	N/A	N/A

\*No direct commercial air service



## ROUTE OPTIONS

# Small Community Service

Provide connectivity to locations with geographic barriers at low infrastructure cost

Routes	DRIVE		COMMERCIAL AIR	
	Time Savings	Daily Trips	Time Savings	Daily Trips
Blacksburg, VA ↔ Washington, D.C. Area*	2h 40mins	1,850	N/A	N/A
Mendocino, CA ↔ Sacramento*	2h 50mins	850	N/A	N/A
Akron, OH ↔ Detroit*	2h 30mins	1,000	N/A	N/A
State College, PA ↔ Philadelphia	2h 40mins	2,400	2h 30mins	278
Jefferson City, MO ↔ St. Louis, MO*	1h 20mins	1,500	N/A	N/A
Morgantown, WV ↔ Charleston, WV*	1h 30mins	1,200	N/A	N/A
Burlington, VT ↔ Boston, MA*	2h 00mins	2,200	N/A	N/A

\*No direct commercial air service



# Northeast Corridor

NYC to Montauk, door to door, in **75 minutes**.



Route	# of trips	EL9 D2D travel time	Rush-hour time savings	Flight distance in miles
Boston ↔ NYC	22,391	1h 45mins	1h 30mins	180
NYC ↔ Montauk	3,741	1h 15mins	1h 40mins	100
New Haven ↔ Long Island	2,673	39mins	2h 17mins	29

<b>152</b> OD pairs	<b>533K</b> Daily addressable trips
<b>~28K</b> Daily EL9 trips	<b>~540</b> EL9s needed

All routes and values shown assume >1k pax per route and >1h time savings.

# Texas Triangle

Austin to Dallas in **93 minutes**.



Route	# of trips	EL9 D2D travel time	Rush-hour time savings	Flight distance in miles
Dallas ↔ Austin	9,412	1h 33mins	1h 56mins	186
Dallas ↔ Shreveport	3,721	1h 30mins	3h 20mins	185
Austin ↔ Corpus Christi	3,263	1h 32mins	2h 17mins	182

<b>107</b> OD pairs	<b>345K</b> Daily addressable trips
<b>~16K</b> Daily EL9 trips	<b>~170</b> EL9s needed

All routes and values shown assume >1k pax per route and >1h time savings.

# Southern California

DTLA to San Diego in **67 minutes**.



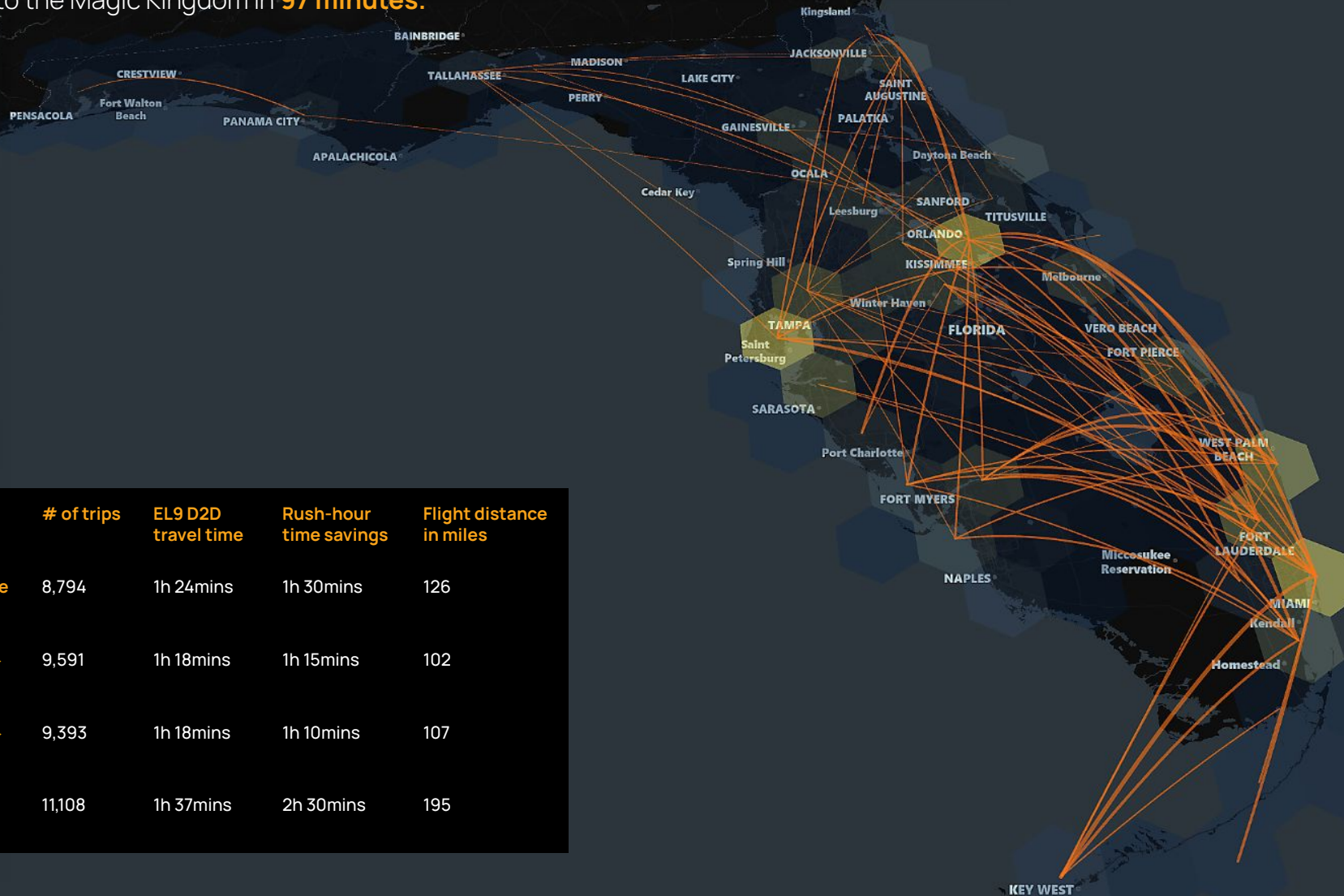
Route	# of trips	EL9 D2D travel time	Rush-hour time savings	Flight distance in miles
DTLA ↔ San Diego	16,627	1h 7mins	1h 20mins	106
Santa Monica ↔ Palm Springs	7,855	1h 10mins	1h 30mins	117
Palm Springs ↔ Las Vegas	6,884	1h 32mins	2h 35mins	176
Long Beach ↔ Santa Barbara	5,645	1h 10mins	1h 10mins	88

<b>55</b> OD pairs	<b>370K</b> Daily addressable trips
<b>~13K</b> Daily EL9 trips	<b>~240</b> EL9s needed

All routes and values shown assume >1k pax per route and >1h time savings.

# Florida

Miami to the Magic Kingdom in **97 minutes**.



Route	# of trips	EL9 D2D travel time	Rush-hour time savings	Flight distance in miles
Jacksonville ↔ Orlando	8,794	1h 24mins	1h 30mins	126
Sarasota ↔ Orlando	9,591	1h 18mins	1h 15mins	102
Ft. Myers ↔ Miami	9,393	1h 18mins	1h 10mins	107
Miami ↔ Orlando	11,108	1h 37mins	2h 30mins	195

<b>109</b> OD pairs	<b>267K</b> Daily addressable trips
<b>~9K</b> Daily EL9 trips	<b>~150</b> EL9s needed

All routes and values shown assume >1k pax per route and >1h time savings.

# The Midwest

The Loop to the Lakes in **45 minutes**.



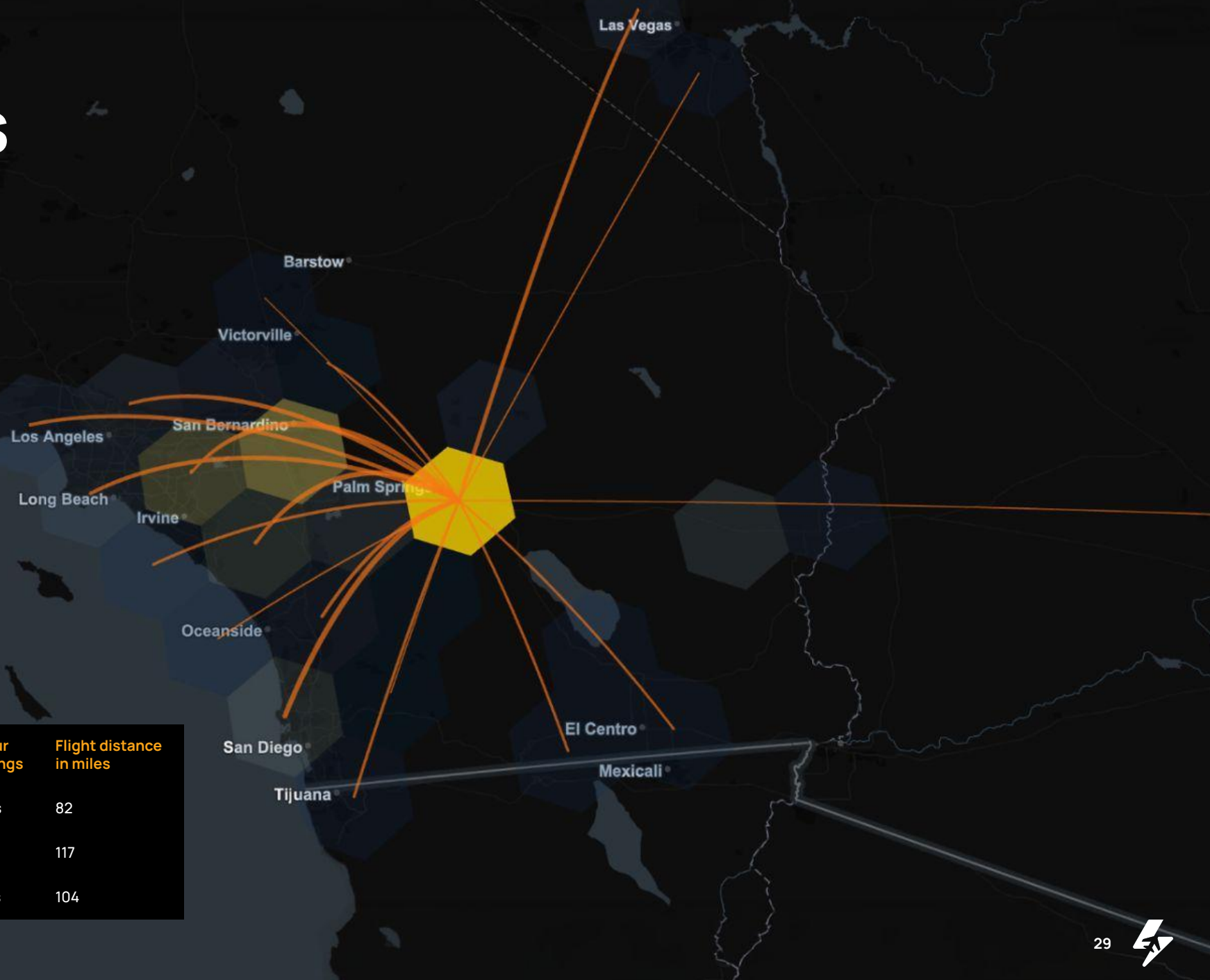
Route	# of trips	EL9 D2D travel time	Rush-hour time savings	Flight distance in miles
Detroit ↔ Cleveland	8,282	1h 4mins	2h	101
Madison ↔ Chicago	4,264	1h 10mins	1h 22mins	119
Grand Rapids ↔ Milwaukee	1,459	1h 21mins	3h 5mins	113

<b>109</b> OD pairs	<b>267K</b> Daily addressable trips
<b>~14K</b> Daily EL9 trips	<b>~210</b> EL9s needed

All routes and values shown assume >1k pax per route and >1h time savings.

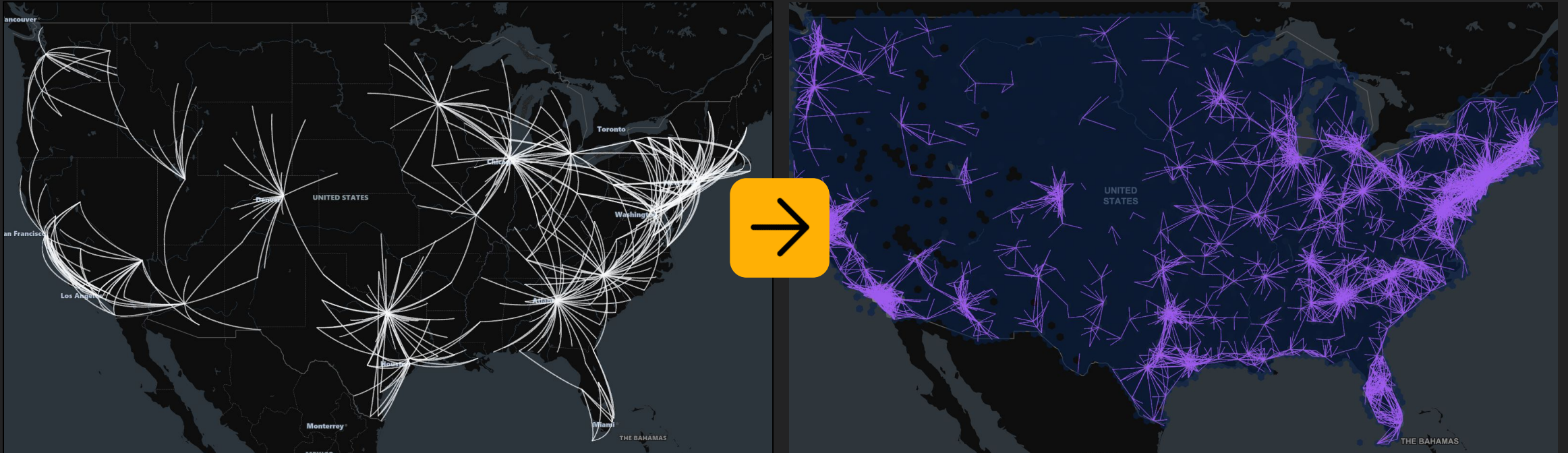
# Palm Springs

Santa Monica to Palm Springs in **70 minutes**.



Route: to/from	# of trips	EL9 D2D travel time	Rush-hour time savings	Flight distance in miles
San Diego	16,113	1h 9mins	1h 50mins	82
Santa Monica	7,815	1h 10mins	2h	117
Long Beach	10,519	1h 8mins	1h 25mins	104

# 12–16K Airplanes Needed to Build This Transformative Model for Regional Mobility





US Outlook

# GLOBAL POSSIBILITIES



# The Bottom Line



## **Too Far to Drive. Too Close to Fly.**

Regional trips fall within the 50–265 driving mile range, where current transportation options are either too slow (passenger vehicles) or too inconvenient (traditional air travel).



## **Hours Lost.**

Current options leave travelers spending multiple hours stuck in transit, time that Direct Aviation could reclaim and put to more productive use.



## **This Isn't What We Were Promised.**

Whether in a plane, train, or automobile, the regional travel experience leaves much to be desired.



## **Demand Backed by Spending Power.**

Many of these routes are in areas where travelers are willing to pay the cost of business-class airfare if it means time and hassle savings.



## **Hybrid-Electric, Today, Is the Only Practical, Cost-Effective Way to Scale AAM Regionally.**

Opens up new mesh networks and has the range, access, and payload to make the trip, Advanced mobility solutions offer a better way.



# Methodology & Assumptions

## Examined commercially available ground transportation data across the US:

- Three-month period in Spring 2025 that includes location-based data, connected vehicle data, credit-card usage, and other sources to capture how people travel
- Considers trips of 50–500 driving miles, as well as airport feeder trips of 30–500 driving miles
- Analysis excludes effects of seasonal travel and special events
- Built on the pilot developed by researchers from Georgia Tech

## Looked at peak- and off-peak use cases:

- Travel times based on door-to-door analysis compared to driving
- Time savings quoted for rush-hour traffic (P85)

## Key assumption for computing traffic volume:

- Trips are grouped by city-sized origin/destination zones. Each zone covers about a 15-minute drive from center to edge in normal congested areas, and up to 30 minutes in dense urban cores like LA or NYC
- 4,564 zones used to cover the full US, roughly. Centroids of one zone to the next are spaced by 24.3 miles.

## Key assumption for computing EL9 trip time travel time savings (trip-level calculation):

$$\text{Time Savings} = \text{Driving Time} - \text{EL9 Total Trip Time}$$

### EL9 Total Trip Time

$$= \text{Access Time}_{\text{Origin}} + \text{AccessPointWaiting} + \text{EL9}_{\text{Ingress}} + \text{EL9 Flight Time} +$$

$$\text{EL9}_{\text{Egress}} + \text{AccessTime}_{\text{Destination}}$$

- *Access Time* is the average driving time it takes an individual to go from their origin/destination to a local Ultra Short access point within their community (census block group)
- *AccessPointWaiting* = 20 minutes
- $\text{EL9}_{\text{Ingress}} + \text{EL9}_{\text{Egress}} = 6 \text{ minutes}$
- $\text{Flight Time} = \text{Taxi}_{\text{Origin}} + \text{Direct Flight} + \text{Taxi}_{\text{Destination}}$

