

SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS 900 Wilshire Blvd., Ste. 1700 Los Angeles, CA 90017 T: (213) 236-1800 www.scag.ca.gov

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Sean Ashton, Downey

REMOTE PARTICIPATION ONLY

EMERGING TECHNOLOGIES COMMITTEE

Thursday, February 24, 2022 10:00 a.m. - Noon

To Participate on Your Computer: https://scag.zoom.us/j/941139378

To Participate by Phone:

Call-in Number: 1-669-900-6833

Meeting ID: 941 139 378

Please see next page for detailed instructions on how to participate in the meeting.

PUBLIC ADVISORY

Given the declared state of emergency (pursuant to State of Emergency Proclamation dated March 4, 2020) and local public health directives imposing and recommending social distancing measures due to the threat of COVID-19, and pursuant to Government Code Section 54953(e)(1)(A), the meeting will be held telephonically and electronically.

If members of the public wish to review the attachments or have any questions on any of the agenda items, please contact Maggie Aguilar at (213) 630-1420 or via email at aguilarm@scag.ca.gov. Agendas & Minutes are also available at: www.scag.ca.gov/committees.

SCAG, in accordance with the Americans with Disabilities Act (ADA), will accommodate persons who require a modification of accommodation in order to participate in this meeting. SCAG is also committed to helping people with limited proficiency in the English language access the agency's essential public information and services. You can request such assistance by calling (213) 630-1420. We request at least 72 hours (three days) notice to provide reasonable accommodations and will make every effort to arrange for assistance as soon as possible.



Instructions for Public Comments

You may submit public comments in two (2) ways:

 In Writing: Submit written comments via email to: ePublicComment@scag.ca.gov by 5pm on Wednesday, February 23, 2022. You are not required to submit public comments in writing or in advance of the meeting; this option is offered as a convenience should you desire not to provide comments in real time as described below.

All written comments received after 5pm on Wednesday, February 23, 2022 will be announced and included as part of the official record of the meeting.

2. In Real Time: If participating in real time via Zoom or phone, during the Public Comment Period (Matters Not on the Agenda) or at the time the item on the agenda for which you wish to speak is called, use the "raise hand" function on your computer or *9 by phone and wait for SCAG staff to announce your name/phone number. SCAG staff will unmute your line when it is your turn to speak. Limit oral comments to 3 minutes, or as otherwise directed by the presiding officer. For purpose of providing public comment for items listed on the Consent Calendar, please indicate that you wish to speak when the Consent Calendar is called; items listed on the Consent Calendar will be acted on with one motion and there will be no separate discussion of these items unless a member of the legislative body so requests, in which event, the item will be considered separately.

If unable to connect by Zoom or phone and you wish to make a comment, you may submit written comments via email to: ePublicComment@scag.ca.gov.

In accordance with SCAG's Regional Council Policy, Article VI, Section H and California Government Code Section 54957.9, if a SCAG meeting is "willfully interrupted" and the "orderly conduct of the meeting" becomes unfeasible, the presiding officer or the Chair of the legislative body may order the removal of the individuals who are disrupting the meeting.



Instructions for Participating in the Meeting

SCAG is providing multiple options to view or participate in the meeting:

To Participate and Provide Verbal Comments on Your Computer

- 1. Click the following link: https://scag.zoom.us/j/941139378
- 2. If Zoom is not already installed on your computer, click "Download & Run Zoom" on the launch page and press "Run" when prompted by your browser. If Zoom has previously been installed on your computer, please allow a few moments for the application to launch automatically.
- 3. Select "Join Audio via Computer."
- 4. The virtual conference room will open. If you receive a message reading, "Please wait for the host to start this meeting," simply remain in the room until the meeting begins.
- 5. During the Public Comment Period, use the "raise hand" function located in the participants' window and wait for SCAG staff to announce your name. SCAG staff will unmute your line when it is your turn to speak. Limit oral comments to 3 minutes, or as otherwise directed by the presiding officer.

To Listen and Provide Verbal Comments by Phone

- 1. Call **(669) 900-6833** to access the conference room. Given high call volumes recently experienced by Zoom, please continue dialing until you connect successfully.
- 2. Enter the Meeting ID: 941 139 378, followed by #.
- 3. Indicate that you are a participant by pressing # to continue.
- 4. You will hear audio of the meeting in progress. Remain on the line if the meeting has not yet started.
- 5. During the Public Comment Period, press *9 to add yourself to the queue and wait for SCAG staff to announce your name/phone number. SCAG staff will unmute your line when it is your turn to speak. Limit oral comments to 3 minutes, or as otherwise directed by the presiding officer.



ETC - Emerging Technologies Committee Members - February 2022

1. Sup. Curt Hagman

Chair, San Bernardino County

2. Hon. Sean Ashton

Downey, RC District 25

3. Hon. Drew Boyles

El Segundo, RC District 40

4. Hon. Margaret Clark

Rosemead, SGVCOG

5. Ms. Leslie Lindahl

Government Relations, Ex-Officio Non-Voting Member

6. Hon. Margaret Finlay

Duarte, RC District 35

7. Hon. Jan C. Harnik

RCTC Representative

8. Hon. Dan Kalmick

Huntington Beach, OCCOG

9. Hon. Steve Manos

Lake Elsinore, RC District 63

10. Mr. Paul Marquez

Caltrans District 7, Ex-Officio Non-Voting Member

11. Hon. Carol Moore

Laguna Woods, OCCOG

12. Hon. Frank Navarro

Colton, RC District 6

13. Ms. Pam O'Connor

CA Road Charge TAC, Ex-Officio Non-Voting Member

14. Sup. Luis Plancarte

Imperial County

15. Hon. David Pollock

Moorpark, RC District 46



- 16. Hon. Deborah Robertson Rialto, RC District 8
- 17. Hon. Cheryl Viegas-Walker El Centro, RC District 1
- 18. Hon. Alan Wapner **SBCTA Representative**
- 19. Hon. Edward Wilson Signal Hill, GCCOG
- 20. Hon. Frank Zerunyan Rolling Hills Estates, SBCCOG



Southern California Association of Governments
Remote Participation Only
Thursday, February 24, 2022
10:00 AM

The Emerging Technologies Committee may consider and act upon any of the items listed on the agenda regardless of whether they are listed as information or action items.

CALL TO ORDER AND PLEDGE OF ALLEGIANCE

(The Honorable Curt Hagman, Chair)

PUBLIC COMMENT PERIOD (Matters Not on the Agenda)

This is the time for persons to comment on any matter pertinent to SCAG's jurisdiction that is **not** listed on the agenda. Although the committee may briefly respond to statements or questions, under state law, matters presented under this item cannot be discussed or acted upon at this time. Public comment for items listed on the agenda will be taken separately as further described below.

General information for all public comments: Members of the public are encouraged, but not required, to submit written comments by sending an email to: ePublicComment@scag.ca.gov by 5pm on Wednesday, February 23, 2022. Such comments will be transmitted to members of the legislative body and posted on SCAG's website prior to the meeting. Any writings or documents provided to a majority of the Emerging Technologies Committee regarding any item on this agenda (other than writings legally exempt from public disclosure) are available at the Office of the Clerk, located at 900 Wilshire Blvd., Suite 1700, Los Angeles, CA 90017 during normal business hours and/or by contacting the office by phone, (213) 630-1420, or email to aguilarm@scag.ca.gov. Written comments received after 5pm on Wednesday, February 23, 2022, will be announced and included as part of the official record of the meeting. Members of the public wishing to verbally address the Emerging Technologies Committee in real time during the meeting will be allowed up to a total of 3 minutes to speak on items on the agenda, with the presiding officer retaining discretion to adjust time limits as necessary to ensure efficient and orderly conduct of the meeting. The presiding officer has the discretion to equally reduce the time limit of all speakers based upon the number of comments received. If you desire to speak on an item listed on the agenda, please wait for the chair to call the item and then indicate your interest in offering public comment by either using the "raise hand" function on your computer or pressing *9 on your telephone. For purpose of providing public comment for items listed on the Consent Calendar (if there is a Consent Calendar), please indicate that you wish to speak when the Consent Calendar is called; items listed on the Consent Calendar will be acted upon with one motion and there will be no separate discussion of these items unless a member of the legislative body so requests, in which event, the item will be considered separately.

OUR VISION



REVIEW AND PRIORITIZE AGENDA ITEMS

CONSENT CALENDAR

Approval Items

1. Minutes of the Meeting – October 28, 2021

INFORMATION/DISCUSSION ITEMS

Joby's Aviation Technology 101
 (George Kivork, Head of U.S. State & Local Policy, Joby Aviation)

3. Unmanned Aircraft Systems (UAS) Center at San Bernardino Airport (SBD) 40 Mins. (Kimberly Benson, Administrator, UAS Center at SBD)

4. Urban Movement Labs (UML) 40 Mins. (Clint Harper, Urban Movement Labs)

FUTURE AGENDA ITEMS

ANNOUNCEMENTS

ADJOURNMENT



AGENDA ITEM 1

REPORT

Southern California Association of Governments
Remote Participation Only
February 24, 2022

EMERGING TECHNOLOGIES COMMITTEE (ETC) MINUTES OF THE MEETING THURSDAY, OCTOBER 28, 2021

THE FOLLOWING MINUTES ARE A SUMMARY OF ACTIONS TAKEN BY THE EMERGING TECHNOLOGIES COMMITTEE. A DIGITAL RECORDING OF THE ACTUAL MEETING IS AVAILABLE FOR LISTENING IN SCAG'S OFFICE.

The Emerging Technologies Committee (ETC) of the Southern California Association of Governments (SCAG) held its regular meeting telephonically and electronically given public health directives limiting public gatherings due to the threat of COVID-19 and in compliance with the Governor's recent Executive Order N-29-20. A quorum was present. The meeting was called to order by Chair Hon. Curt Hagman, San Bernardino County. A quorum was present.

District 46

District 1

SBCTA

Members Present:

Hon.	Sean Ashton	District 25
Hon.	Margaret Clark	SGVCOG
Hon.	Margaret E. Finlay	District 35
Hon.	Curt Hagman (Chair)	San Bernardino County
Hon.	Jan Harnik	RCTC
Hon.	Dan Kalmick	Hunington Beach, OCCOG
Hon.	Leslie Lindahl	Ex-Officio Non-Voting Member
Hon.	Steve Manos	District 63
Mr.	Paul Marquez, Caltrans District 7	Ex-Officio Non-Voting Member
Hon.	Carol Moore	OCCOG
Hon.	Pam O'Connor, CA Road Charge TAC	Ex-Officio Non-Voting Member
Hon.	Luis Plancarte	Imperial County

Members Not Present:

Hon. David Pollock

Hon. Alan Wapner

Hon. Cheryl Viegas-Walker

Hon.	Drew Boyles	District 40
Hon.	Frank Navarro	District 6
Hon.	Deborah Robertson	District 8
Hon.	Edward H.J. Wilson	GCCOG



Hon. Frank Zerunyan

SBCCOG

CALL TO ORDER & PLEDGE OF ALLEGIANCE

Hon. Curt Hagman, San Bernardino County, called the meeting to order at 1:00 p.m. Hon. Alan Wapner, SBCTA, led the Pledge of Allegiance.

PUBLIC COMMENT

No members of the public requested to comment.

CONSENT CALENDAR

Approval Items

1. Minutes of the Meeting - August 26, 2021

A MOTION was made (Finlay) to approve the Consent Calendar. The motion was SECONDED (Manos) and passed by the following votes:

AYES: ASHTON, CLARK, FINLAY, HAGMAN, KALMICK, MANOS, MOORE, PLANCARTE,

POLLOCK, VIEGAS-WALKER, WAPNER (11)

NOES: None (0)

ABSTAIN: None (0)

INFORMATION/DISCUSSION ITEMS

2. A Case Study of Incheon Free Economic Zone (Songdo) Smart City

Ryan Lee, Operations Director for the Smart Cities Integrated Operations Center in Incheon, South Korea presented lessons from their effort. He noted the Incheon Free Economic Zone (IFEZ) was designed in August 2003 with a total area of approximately 47 square miles covering Songdo, Yeongjon and Cheongna as the South Korean government's strategy of becoming the business hub for Northeast Asia's economy.

Mr. Lee stated since its inception \$36 billion has been invested in the endeavor which covers a population of 545,803. He examined the conventional city and noted the differences with the non-conventional smart city. Further, the three districts of Songdo, Yeongjong and Cheongna are brought together under the IFEZ Smart City. It features integrated system services such as transportation, crime prevention, disaster prevention, environment, electricity and building management. He also looked at supporting infrastructure needed such as cable and traffic lights as





well as software and a digital platform. Next, public agencies such as traffic information center, crime prevention center and environmental agency are brought together as a system rather than have them operate as stand-alone entities. Further, he explained the role of the Intelligent Operation Center and data-hub. He offered steps for creating a smart city including first building the infrastructure, implementing that infrastructure and developing a data and software platform to manage activities and evolve future services. He noted that every city can utilize the smart city process and integrate services and processes for improved design and performance.

ADJOURNMENT

Hon. Curt Hagman, San Bernardino County, adjourned the meeting at 2:02 p.m.

[MINUTES ARE UNOFFICIAL UNTIL APPROVED BY THE EMERGING TECHNOLOGY COMMITTEE]



AGENDA ITEM 2

REPORT

Southern California Association of Governments
Remote Participation Only
February 24, 2022

To: Emerging Technologies Committee (ETC)

EXECUTIVE DIRECTOR'S

APPROVAL

From: Thomas Bellino, Senior Regional Planner

(213) 236-1830, bellino@scag.ca.gov

Subject: Joby's Aviation Technology 101

Kome Ajise

RECOMMENDED ACTION:

Information Only - No Action Required

STRATEGIC PLAN:

This item supports the following Strategic Plan Goal 1: Produce innovative solutions that improve the quality of life for Southern Californians. 2: Advance Southern California's policy interests and planning priorities through regional, statewide, and national engagement and advocacy.

EXECUTIVE SUMMARY:

For the last few decades, the long-promised notion that the future would contain "flying cars" has eluded us. However, with advancements in technology and a greater willingness to experiment with new mobility, the next ten years really could see the arrival of airborne transportation for short distances.

George Kivork, Head of U.S. State & Local Policy for California-based Joby Aviation will present about and field questions relating to the development of its airplane technology. His experience navigating both the technological and policy landscapes will make for a valuable discussion for the Committee members, who may be seeing this technology entering their airspace sooner than we realize.

BACKGROUND:

Since 2009, Joby has been developing its airplane, and today, their team is made up of more than 1,000 engineers, experts, and leaders at their facilities in Marina, Santa Cruz, San Carlos, Los Angeles, CA, and Munich, Germany. They are on track for Federal Aviation Administration (FAA) type and operational certification in order to begin commercial operations in 2024.

For more than a decade, they have been collaborating with the government to develop and prove the value of their technology. They have focused on the quietness of aircrafts to ensure they are welcomed by communities, and have recently demonstrated this to NASA. As partners with the U.S.





Air Force, they have been exploring a broad array of government use cases, both civil and defense, while moving towards civil certification. By adding the third dimension to cities' mobility options, they propose that they can help reduce car dependency and move people sustainably, in a way that no ground-based service can do. By complementing other modes of mass transit, they hope to reshape how Americans can move easily and equitably in and around cities.

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None.



AGENDA ITEM 3

REPORT

Southern California Association of Governments
Remote Participation Only
February 24, 2022

Emerging Technologies Committee (ETC)

EXECUTIVE DIRECTOR'S

APPROVAL

From: Thomas Bellino, Senior Regional Planner

(213) 236-1830, bellino@scag.ca.gov

Subject: Unmanned Aircraft Systems (UAS) Center at San Bernardino Airport (SBD)

RECOMMENDED ACTION:

Information Only – No Action Required

STRATEGIC PLAN:

To:

This item supports the following Strategic Plan Goal 1: Produce innovative solutions that improve the quality of life for Southern Californians. 2: Advance Southern California's policy interests and planning priorities through regional, statewide, and national engagement and advocacy.

EXECUTIVE SUMMARY:

The Unmanned Aircraft Systems (UAS) Center at San Bernardino Airport (SBD) is a great example of how Southern California's institutions are leading the way on the study and innovation around airborne technology. The Center's Administrator, Kim Benson, will present an overview of its current initiatives, activities and objectives. She will also highlight one of the Center's major undertakings – the development and implementation of a comprehensive and overarching drone policy for the County of San Bernardino, including the integration of standard operating procedures and directives for each of the County's agencies engaged in drone use – making the County of San Bernardino the first county in the nation to do so.

BACKGROUND:

The UAS Center at SBD, established as an enterprise fund in 2020 under the Inland Valley Development Agency in San Bernardino, serves as a regional hub for the advancement and adoption of drone technology. Drones are increasingly part of Southern California's (and the world's) mobility landscape. Being in the context of an airport, the UAS Center has a unique perspective that will be valuable to the Committee members, particularly those whose jurisdictions have transportation and goods movement challenges.

FISCAL IMPACT:

None.





ATTACHMENT(S):

1. PowerPoint Presentation - UAS



THE FUTURE IN FLIGHT

A Presentation for the Southern California Association of Governments February 24, 2022

What is the UAS Center at SBD?

- Established July 1, 2020, the Center is a unique testing and training site supporting the advancement of unmanned aircraft systems (drone) technology in our region.
- SBD is one of only a few airports in the US with FAA authorization to operate unmanned aircraft systems onsite.
- The UAS Center at SBD attracts economic development, workforce development, advanced manufacturing and technology transfer opportunities while showcasing San Bernardino County's unique position as the fastest growing airport for air cargo in the US.





Our Three Pillars





FUELING INNOVATION

The UAS Center at SBD is a secure location where companies can test and improve their proprietary UAS technology. The Center facilitates technology transfer, commercialization and investment, providing thought leadership on regulatory development and reform.



CREATING SAFER COMMUNITIES

The UAS Center at SBD increases the efficiency and effectiveness of public sector agencies - including first responders - providing guidance and training on the use and integration of UAS technology into their operations.



ADVANCING OUR WORKFORCE

Young professionals and those seeking new job skills prepare to become UAS pilots and are introduced to the full scope of UAS career opportunities.

Fueling Innovation



- Strategic alliance with the California Institute of Technology (Caltech) Center for Autonomous Systems and Technology
- Test flight and product demonstration facility where drone manufacturers and software providers can further their research, development and commercialization efforts
- International strategic partnerships to benefit US drone manufacturers and software providers seeking to globalize



UAS Use Cases at SBD



- Wildlife Tracking and Management
- Pavement Management
- Security
- Capital Projects
- Updated Aerials
- Perimeter Inspections
- Aircraft Parking Management
- Agreement Compliance
- Marketing and Social Media Content
- Revenue Generation via Film and Still Shoots



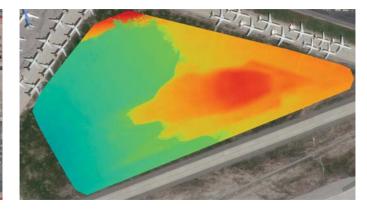
ESRI SiteScan - Recent Projects



April 15, 2021 Updated Aerial for Environmental Document



Infield Quantity Survey



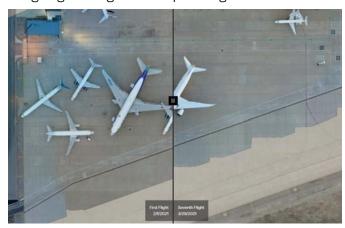
Attachment: PowerPoint Presentation - UAS (Unmanned Aircraft Systems (UAS) Center at San Bernardino Airport (SBD))

ESRI SiteScan

- Recent Projects contd.



Ongoing Parking and Ramp Management







Creating Safer Communities



Technology briefings: The UAS Center at SBD holds product demonstrations for our region's public sector agencies to keep them updated on the latest drone technology.

Preparation for life-and-death situations: The Center's Technical Advisors have the *highest level* qualifications and provide mission-critical guidance to public sector agencies on specific features critical to the agencies' objectives.

Reduction of liability: We design and guide implementation of drone policy for public sector clients, ensuring that their UAS directives, standard operating procedures and training are comprehensive, integrated and internally consistent.

Public Sector Agency Clients

County of San Bernardino/various agencies:

SB County Fire Protection District, Sheriff's/SWAT,

Public Works, Environmental/Public Health,

SB County Airports, Marketing/Communications

Advancing Our Workforce



- Strategic partnership with the County of San Bernardino Workforce Development Department, providing remote pilot training to prepare clients to take and pass the exam to become FAA-certified drone pilots
- Formal Approved Training Provider designation under Goodwill Industries' Cal Fresh program
- UAS-related programming through the County of San Bernardino Office of the Superintendent of Schools available to students (grades 7-12) throughout the County's 33 school districts

Attachment: PowerPoint Presentation - UAS (Unmanned Aircraft Systems (UAS) Center at San Bernardino Airport (SBD))

Part 107 Remote Pilot Training



- STEP 1: Part 107 UAS Test Prep*
- STEP 2: Ground School
 - BASIC FLIGHT SKILLS
 DEVELOPMENT Learn the basics and become accustomed to your aircraft
- STEP 3: Flight Line Training
 - ADVANCED SKILLS DEVELOPMENT







*The Part 107 Certification Test is independently administered by authorized test providers.



AGENDA ITEM 4

REPORT

Southern California Association of Governments Remote Participation Only

February 24, 2022

To: Emerging Technologies Committee (ETC)

EXECUTIVE DIRECTOR'S

APPROVAL

From: Thomas Bellino, Senior Regional Planner

(213) 236-1830, bellino@scag.ca.gov

Subject: Urban Movement Labs (UML)

Kome Ajise

RECOMMENDED ACTION:

Information Only – No Action Required

STRATEGIC PLAN:

This item supports the following Strategic Plan Goal 1: Produce innovative solutions that improve the quality of life for Southern Californians.

EXECUTIVE SUMMARY:

Urban Movement Labs (ULM), a 501c(3) nonprofit organization, will be sharing the experience working with the City of Los Angeles and major private firms working in the Urban Air Mobility (UAM) field as a part of the first year of the City's UAM Partnership. Clint Harper and Urban Movement Labs' Executive Director, Sam Morrissey, will provide more details on the work of the UAM Partnership in 2021, and what the Partnership plans to achieve in 2022.

This presentation will be especially valuable to Committee members who are interested in public-private partnerships.

BACKGROUND:

The Urban Air Mobility Partnership, announced in December 2020, is a unique initiative that confirms Los Angeles's and Southern California's leadership and innovation with respect to UAM at the national level. The UAM Partnership is guided by three overarching goals: to educate and engage, to interface with industry, and to develop a model for others to follow.

In this first year of the UAM Partnership, under the guidance of Urban Movement Labs' UAM Fellow, Clint Harper, the focus has been on education and engagement for both public stakeholders and public agency staff. Through outreach to a broad base of transportation advocacy groups, community members, and public agency partners, ULM has cultivated a broad understanding of what UAM is and why it is important to start developing the policies and regulations that will ultimately lead to a UAM ecosystem in Los Angeles and beyond.





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None.

ATTACHMENT(S):

1. PowerPoint Presentation - UML



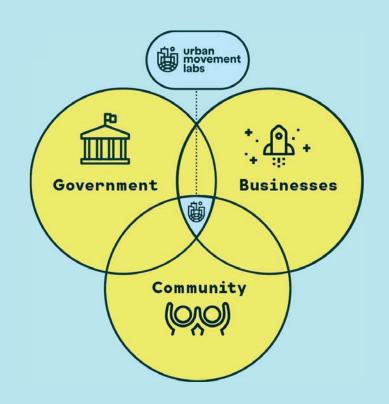
Summary

- → UAM Partnership
- → Policy Precedence
- → Planning for UAM Operations
- → Planning UAM Infrastructure
- → Community Engagement



Who is Planning? **UAM Partnership**

- Urban Movement Labs
- → Community Stakeholders
- → The City of L.A.
- → Industry Partners



Urban Movement Labs 2022 - Privileged & Confidential

UAM Partnership Goals

- Engage and educate Angelenos, policymakers, and City staff about UAM to shape the future of air mobility
- Interface with the industry of OEMs, vertiports, technology, and more to lead the advancement of the *Principles of the Urban Sky*
- 3) Build a model for UAM policies and practices to improve L.A.'s overall mobility network and inform other decision-makers nationally and internationally



UAM Partnership

Government & Research















Urban Movement Labs 2022 - Privileged & Confidential

UAM Partnership Industry









Why Los Angeles? - Transportation Challenges













Must Reads: Fed-up locals are setting electric scooters on fire and burying them at sea

Sorry, Single Passenger Ridesharing Trips Are Worse For the Environment: Research Paper

Carmageddon: Helicopters ease stress for LAX travelers

July 16, 2011 | 3:28 pm

Urban Movement Labs 2021 - Privileged & Confidential

Why Los Angeles? - Existing Infrastructure



Los Angeles Involvement

2016 - LADOT publishes the Urban Mobility in a Digital Age

2017 - Uber announces UAM in L.A.

2019 - UML is formed to address emerging transportation technologies

2020

- L.A. Participates in NASA UAM National Campaign
- L.A. Participates in NASA Vertiport Suitability Modeling
- L.A. Participates in Community Air Mobility Initiative (CAMI) Cohort
- With WEF, LA creates and adopts the Principles of the Urban Sky Mayor Garcetti Announces the UAM Partnership

2021

- UAM Fellow is hired
- Mayor Garcetti testifies before the House Aviation Subcommittee
- UML holds a stakeholder outreach event
- UAM Policy Framework completed
- City Council Introduces the AAM Motion







Urban Movement Labs 2021 - Privileged & Confidential

LADOT Urban Mobility in a Digital Age





A TRANSPORTATION TECHNOLOGY STRATEGY FOR LOS ANGELES



Build a solid data foundation. Leverage technology + design for a better transportation experience.

Create partnerships for more shared services.

Establish feedback loops for services + infrastructure.

Prepare for an automated future.

POLICY + IMPLEMENTATION + PILOTS

PLATFORM FOR MOBILITY INNOVATION

DATA AS A SERVICE + MOBILITY AS A SERVICE + INFRASTRUCTURE AS A SERVICE

World Economic Forum Principles of the Urban Sky

- → Intended to guide policymaking as technology, concepts of operation, & consumer demands evolve.
- → Serves as a North Star for all cities
- Provides a **foundation** for local visioning and goal creation.

The seven UAM principles



Safety

New forms of air transport must achieve levels of safety performance consistent with conventional aviation operations



Sustainability

UAM must improve environmental outcomes and embrace innovation to achieve more sustainable behaviours



Equity of access

There should be equitable access to mobility for disadvantaged communities



Low noise

Noise disturbances should be measured and mitigated by a community-first approach



Multimodal Connectivity

UAM should connect to existing, high-quality transport options, offering seamless travel



Local workforce development

UAM is expected to increase jobs on the ground and in the air



Purpose-driven data sharing

Data sharing should help providers quickly respond to passenger need and market demand

Urban Movement Labs 2022 - Privileged & Confidential

UAM Policy Framework

- → Equity
- → Health & Safety
- → Data Responsibility
- → Sustainability
- → Multimodal Connectivity
- → Economic Growth
- → Transportation Network Adaptation

LOS ANGELES DEPARTMENT OF TRANSPORTATION

URBAN AIR MOBILITY
Policy Framework Considerations
September 13, 2021



UAM Policy Framework - Collaboration



LADOT

UAM Policy Framework - Leveraging Existing Work

- Envisioned how to leverage existing technologies
- Proposed an idea for aircraft / vertiport classifications focused on social issues
- → Match operations intensity with appropriate sites





Vertiport Development

- → Land Use & Zoning
- → Infrastructure Permitting
- → Operations Permitting
- → Understand & Mitigate Risk
- → Integration
- → Ready to Evolve

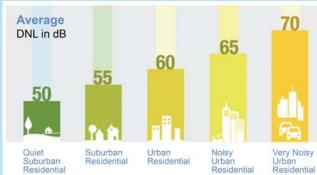
Urban Movement Labs 2022 - Privileged & Confidential



Noise Issues

- → Where are there already high levels of ambient noise?
- What are the current FAA guidelines?
- → What is acceptable for UAM in the future



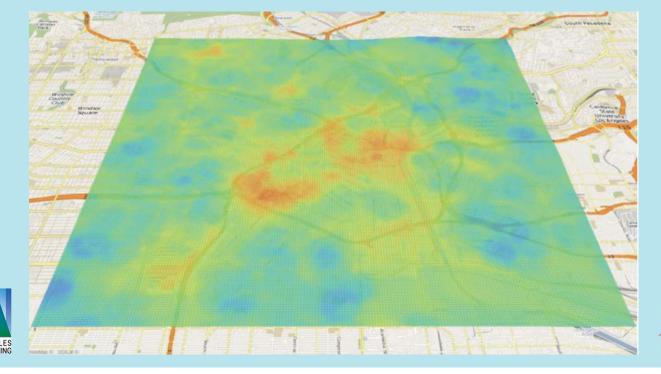


Multimodal Integration





Vertiport Suitability Models





Where will this happen? - Existing Buildings



Urban Movement Labs 2021 - Privileged & Confidential

Where will this happen? - Existing corridors



Where will this happen? - Greenfield

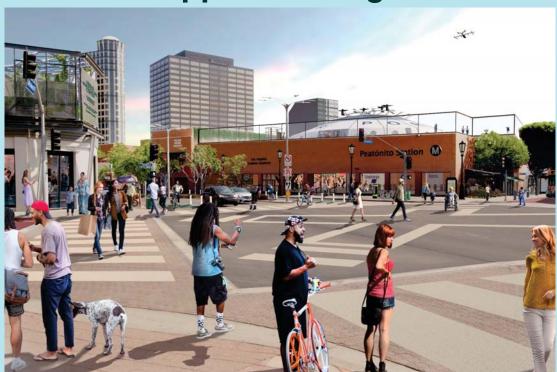


Urban Movement Labs 2021 - Privileged & Confidential

Where will this happen? - Airports



Where will this happen? - Integrated







Community Engagement

- → Non-Aviation Community Stakeholders
- → Transportation Advocacy Groups
- → Equity Groups
- → Sustainability Focused Groups
- → Economic Development Organizations
- → Local Academic Institutions



- → Who is involved?
- → What is Urban Air Mobility?
- \rightarrow When will this happen?
- \rightarrow Where will this happen?
- → Why Los Angeles?
- → How can I get involved?



Urban Movement Labs 2022 - Privileged & Confidential

Community Engagement

- → Community First Approach
- → Equity at All Levels
- → Integrate into the Transportation System
- → Plan for Diversity
- → Acknowledge Local Social Issues

Shaping
Urban Air Mobility
in Los Angeles
through Community
Engagement



AUGUST 2021



Attachment: PowerPoint Presentation - UML (Urban Movement Labs (UML)

Overview

- \rightarrow Who
- → What is Urban Air Mobility?
- → When will this happen?
- → Where will this happen?
- → Why Los Angeles?
- → How can I get involved?

