

# **PNT Symposium Stanford University**

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# Aeronautics' Agenda

- Discuss California's multi-modal transportation system
- Division of Aeronautics Mission, Offices & Partners
- Importance of Aviation to California
- Caltrans' interest in operating UAS
- Discuss potential UAS applications
- Are UAS operations a threat to the public?
- State Aviation related Legislation for 2015
- FAA UAS related actions



# Caltrans Mission

- Provide a safe, sustainable, integrated and efficient (multi-modal) transportation system to enhance California's economy and livability.
  - Caltrans maintains 265 State **highways** with 15,104 centerline miles (51,326 lane miles) supporting over 32.5M registered vehicles and 24.6M licensed drivers who traveled >178B miles!
  - Caltrans owns nearly 120 PAX cars & locomotives and partners with AMTRAK to provide **rail** service to 5.3M PAX/year covering >467.2M mi/year over nearly 1000 mi. of track.
  - CA has 246 public-use **airports** supporting nearly 30,000 certificated aircraft and 61,100 FAA certified pilots. 28 Commercial Service airports provided transportation to 188.0M PAX.



# Division of Aeronautics Mission

- Foster the development California's air transportation system of **244 public-use airports**
- Foster and **promote safety** in aeronautics.
- **Encourage** the development of private flying and the general **use of air transportation.**
- Effect uniformity of the **laws and regulations** relating to aeronautics consistent with federal aeronautics laws and regulations.
- Introduce **context-sensitive, sustainable solutions** to incompatible land use development projects near airports



# Division of Aeronautics Offices

## Division of Aeronautics – Three Offices and Four Specialty Areas:

- Office of Airports
- Office of Aviation System Planning
- Office of Technical Services & Programs
- Other Specialty Areas:
  - Funding for Grants & Loans
  - Aviation Noise
  - Environmental Review
  - Legislative News & Information



# Division of Aeronautics Aviation Partners

## State:

- Department of Education (DOE)
- Department of Fish and Game (DF&G)
- California Energy Commission (CEC)
- Governor's Office of Planning and Research (OPR)
- Governor's Office of Emergency Services (OES)

## Federal:

- Federal Aviation Administration (FAA)
- U.S. Department of Defense (DOD)
- U.S. Department of Agriculture (USDA) – Wildlife Services
- U.S. Department of Transportation (USDOT), Transportation Research Board (TRB) – Airport Cooperative Research Program (ACRP)

## Non-Government Aviation Organizations:

- National Association of State Aviation Officials (NASAO)
- National Air Transportation Association (NATA)
- National Business Aircraft Association (NBAA)
- Airplane Owners & Pilots Association (AOPA)
- Association of California Airports (ACA)
- California Airports Council (CAC)
- California Pilots Association (CPA)
- Various universities and other stakeholders



# Why Aviation is Important to California?

## Aviation is vital for California!

- Provides for commerce centers that are vital for the movement of goods and people
- Contributes nearly 9 percent of California's employment and output – direct and indirect spending:
  - Contribution to the U.S. Gross Domestic Product: \$154.7 billion (4.8 percent)
  - Contribution to the U.S. employment: 1.1 million jobs (5.5 percent)
  - 59,841 active licensed pilot community (11 percent of U.S. total)
  - 29,211 registered aircraft (10 percent of U.S. total)



Caltrans Division of Aeronautics

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# Why Aviation is Important to California?

- Airports facilitate international and domestic trade
- They are necessary for “just-in-time” production and delivery
- Each airport is an essential component of the State’s emergency response and disaster recovery operations
- Aviation provides convenient and affordable air travel for tourists, as well as access for companies to conduct business in your local community



# Unmanned Aircraft Systems

- Caltrans' interest in operating UAS
- Discuss potential UAS applications
- Are UAS operations a threat to the public?
- State Aviation related Legislation for 2015
- FAA UAS related actions

- Video clip #1:  
<https://www.youtube.com/watch?v=YE34BJYmLm8>
- Video Clip #2:  
<https://www.youtube.com/watch?v=XuQUuE0DdfA>
- News Article:  
<http://www.flyingmag.com/technique/accidents/faa-investigating-reported-uav-collision-piper-twin?cmpid=enews090115&spPodID=030&spMailingID=23406015&spUserID=MTE2MTMxOTk3MjcwS0&spJobID=640106890&spReportId=NjQwMTA2ODkwS0>



# Aeronautics' Resources

*Your aviation resources are only a click away!*

The screenshot shows the official website of the California Department of Transportation, Division of Aeronautics. The page features a navigation menu with links for Home, Travel, Business, Engineering, News, Maps, Jobs, About Caltrans, and Contact Us. The main content area includes a welcome message from Gary Cashey, Division Chief, and a list of office locations. There are also sections for 'SPECIALTY AREAS' with links to various resources like Airport Funding Status, Airport Noise Program, and Environmental Review, and 'EXTERNAL RESOURCES'.

This is a fact sheet titled 'Aviation in California: Fact Sheet' published by Caltrans. It provides a comprehensive overview of aviation in the state, including statistics on public use airports, general aviation (GA), special use airports, and helicopter bases. It also details permitted heliports, military facilities, and passenger service. The document includes a section on 'Aviation's Economic Impact' and 'Aviation's Environmental Impact'. The fact sheet is dated January 2012 and is published by the Office of Aviation Planning, Division of Aeronautics.

The cover of the 'California Airport Land Use Planning Handbook' is displayed. It features the Caltrans logo and the title in a large, bold font. The cover includes several images: a map of California with airport locations marked, a photograph of an airport terminal, and a photograph of a group of people in a meeting. The handbook is published by the State of California, Department of Transportation, Division of Aeronautics, and is dated June 6, 2011.

Visit the Division of Aeronautics web site to learn more.

[www.dot.ca.gov/aeronautics](http://www.dot.ca.gov/aeronautics)



Caltrans, Division of Aeronautics

