



KEYNOTE ADDRESS

# Transportation System Safety, Management, & Innovation



**Tony Tavares**

Director, California Department  
of Transportation





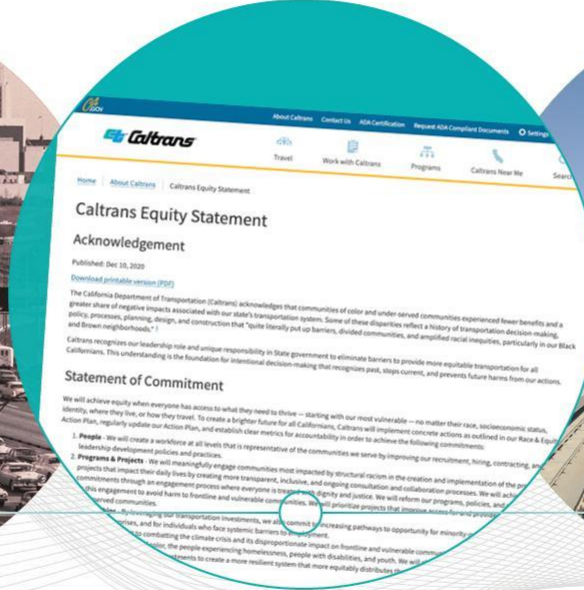
**MONTEREY BAY DART SYMPOSIUM  
TONY TAVARES, CALTRANS DIRECTOR**

November 30, 2022

# TRANSPORTATION



PAST



PRESENT



FUTURE

# CALTRANS' FOUNDATIONAL PRINCIPLES



**SAFETY**



**EQUITY**

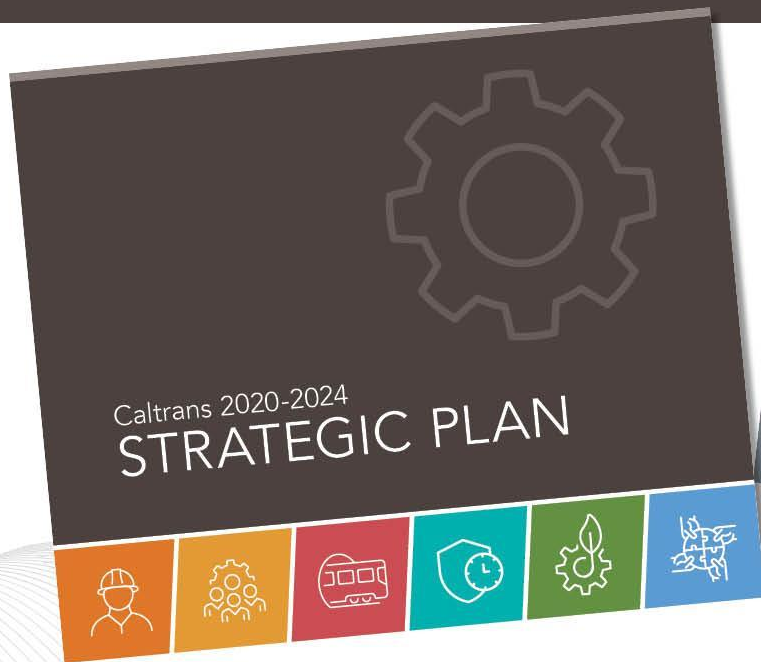


**CLIMATE ACTION**



**ECONOMIC PROSPERITY**

# PLANNING DOCUMENTS: CTP 2050 AND STRATEGIC PLAN



# CALTRANS DRONES AT WORK



# CALTRANS DRONES AT WORK



# CALTRANS DRONES AT WORK





# CALTRANS DRONES AT WORK



# ADVANCED AIR MOBILITY



The Midnight /Archer Aviation



Groupe ADP / Volocopter

# CALIFORNIA AVIATION SYSTEM PLAN



# CONNECTED AUTOMATED VEHICLES



## Connected Vehicle

Communicates with nearby vehicles and infrastructure.  
Not automated.

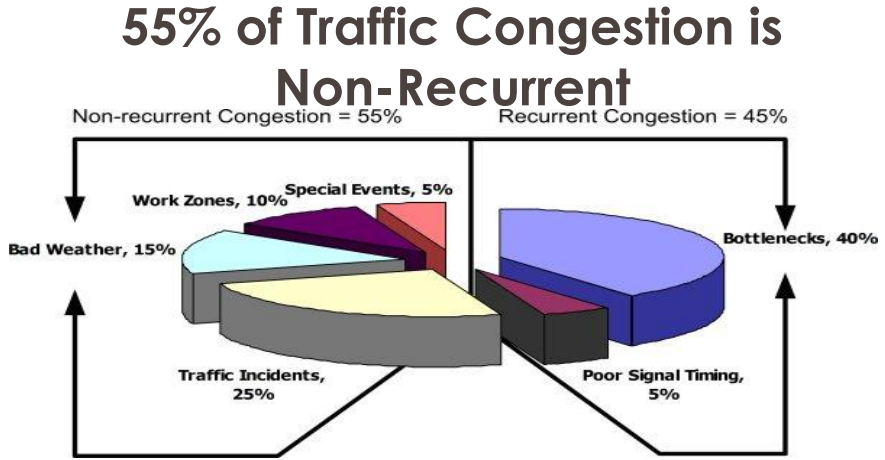
## Connected Automated Vehicle

Leverages automated and connected vehicle technologies

## Autonomous Vehicle

Operates in isolation from other vehicles using internal sensors

# TRANSPORTATION MANAGEMENT



### Responsive Strategies

- ✓ Enhanced Incident Response Coordination
- ✓ Improved System Element & Detection Health
- ✓ Integrated Corridor Management
- ✓ Transportation Systems Management & Operations
- ✓ Smarter Corridors
- ✓ Informed Travelers

Thank you  
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slido

## Audience Q&A Session

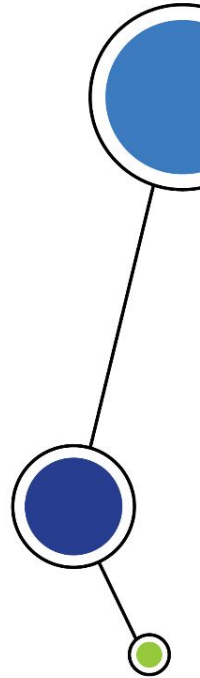
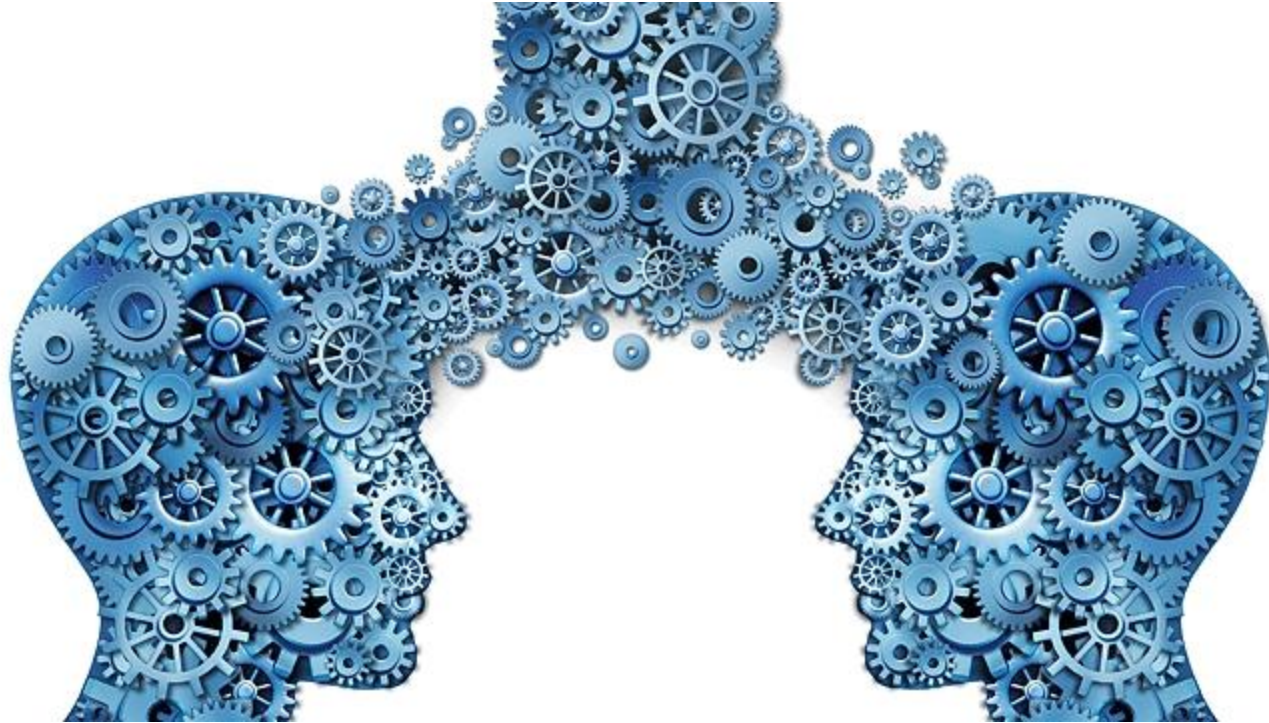


Join at [slido.com](https://slido.com)  
**#mbdart22**



① Start presenting to display the audience questions on this slide.

# Collaborations



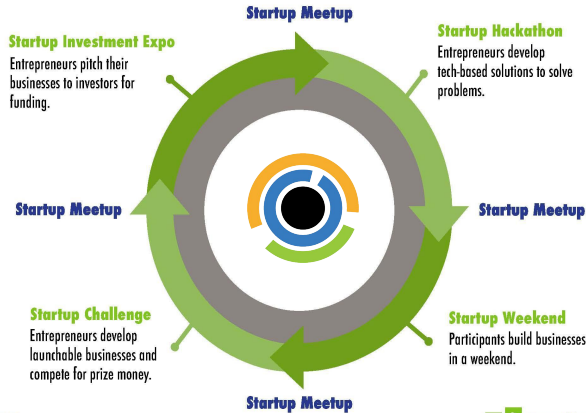


# CSU Monterey Bay



California State University  
**MONTEREY BAY**  
Extraordinary Opportunity

## Annual Cycle of Innovation



**iied** Institute for Innovation & Economic Development  
CSU Monterey Bay | College of Business

**STARTUP**  
MONTEREY BAY

**DART** & **STARTUP MONTEREY BAY CONNECT**  
DRONE AUTOMATION & ROBOTICS TECHNOLOGIES

**GUEST SPEAKERS** TUES, SEPT 13 @ 6PM • MBEST CENTER • 3180 IMJIN RD, MARINA

**CHAD CALDWELL** E Cubed  
**JOSH METZ** Monterey Bay DART  
**CODY CLEVERLY** Joby Aviation  
**NATHAN DORN** Form NG  
**CHRIS BLEY** Monterey Bay DART & Airspace Integration  
**MICHAEL MALKIN** CITRIS at UC Santa Cruz

SPONSORED BY: The James Irvine Foundation



The James Irvine Foundation



**DART**  
DRONE AUTOMATION & ROBOTICS TECHNOLOGIES

# University of California



**DroneCamp 2023**  
**June 26-30**  
**CSU Monterey Bay & Virtual**

safety & regulations | flight skills  
mission planning | hardware and sensors  
data processing | analytics

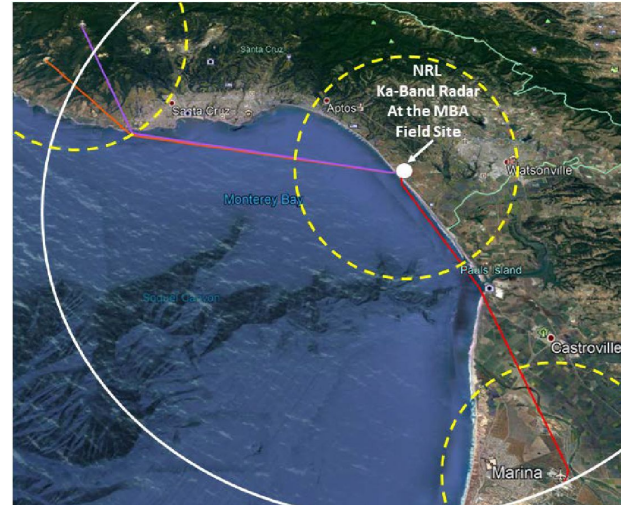
Logos of partner organizations: UNIVERSITY OF CALIFORNIA Agriculture and Natural Resources, IGIS, GDCR, UC SANTA CRUZ, CITRIS AND THE BANATAO INSTITUTE, CALIFORNIA STATE UNIVERSITY MONTEREY BAY, and DART.



# Naval Research Lab & ASI



Aerospace innovation  
hub on the Monterey Bay



Urban Air Corridor Weather Support



# Defense Community



AMERICA'S  
**SLAMR**<sup>SM</sup>



**JIFX**

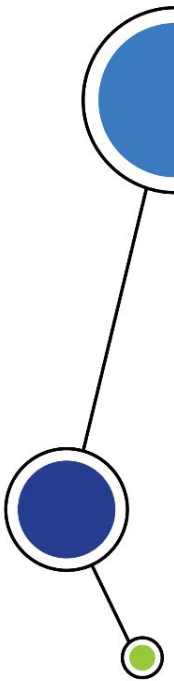
Joint Interagency Field Experimentation



NAVAL POSTGRADUATE SCHOOL  
CENTER FOR HOMELAND  
DEFENSE AND SECURITY

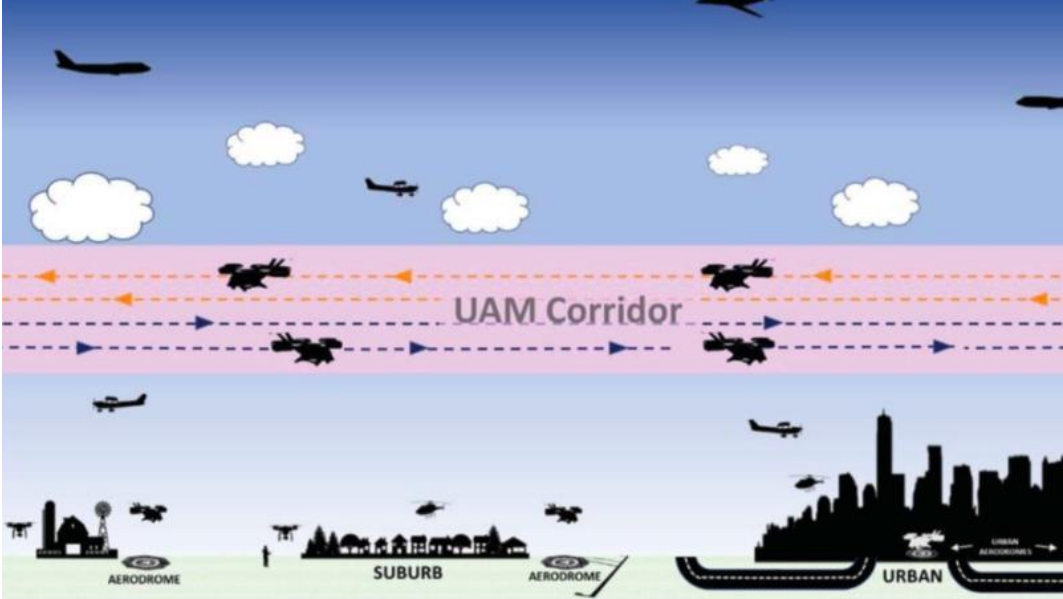


**NAVAL X**



# Central Coast FIX

## Central Coast Flight Information Xchange



# Irvine Foundation



**\$1.5M R&D grant award**

## 1. DART Org Capacity

Increase activity. Symposium. Convenings. Membership.

## 2. Apprenticeship Pilot

Wide funnel sourcing. Paid 6-month training. Certification.

## 3. Workforce Training Facility Feasibility Study

Site Options. Program. Facility Needs. Org Structure.



