MONTEREY BAY DART

DRONES AUTOMATION & ROBOTICS TECHNOLOGIES

Regional economic development initiative targeting drones, automation and robotics technologies

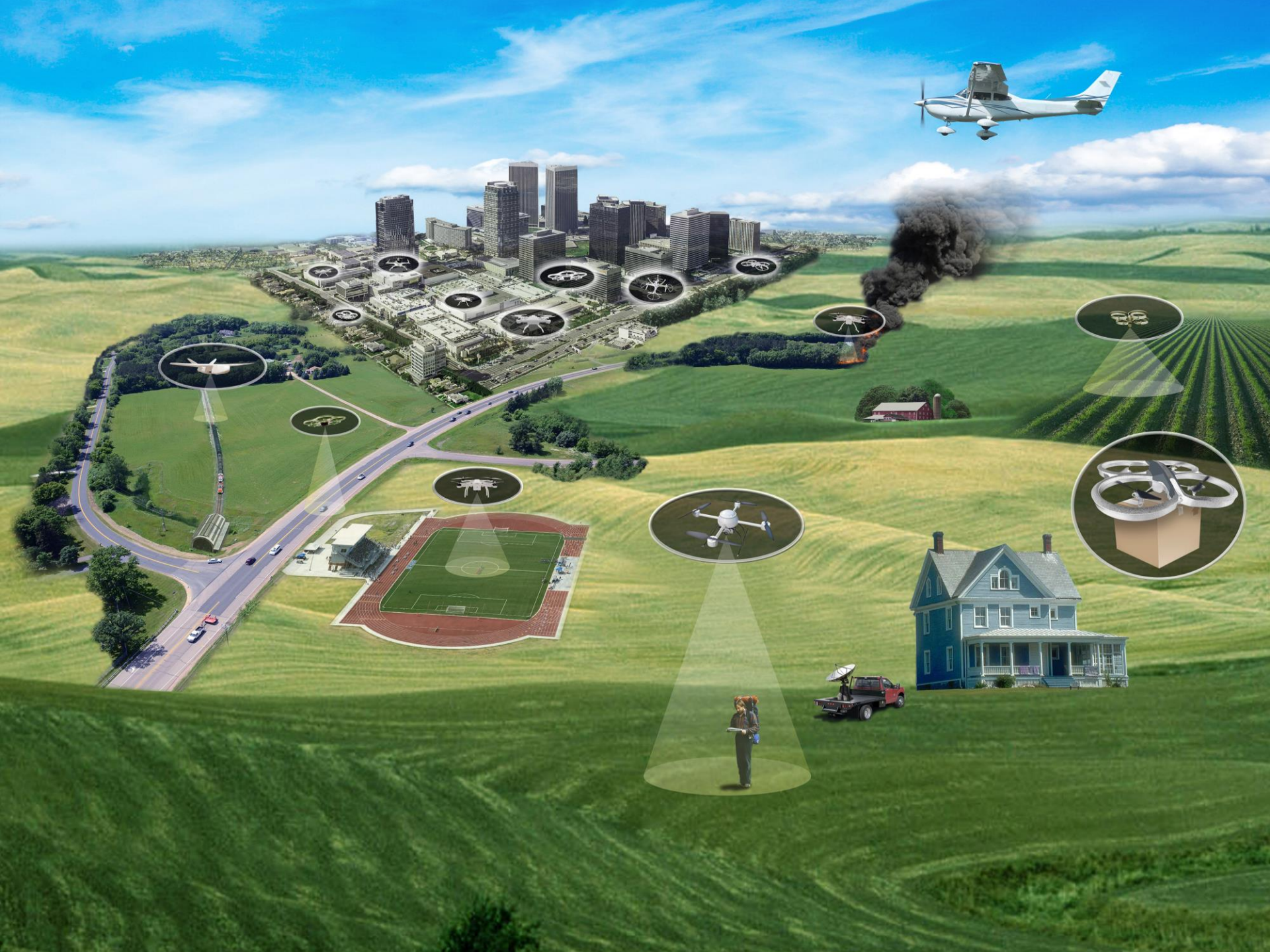
MontereyBayDART.org

918

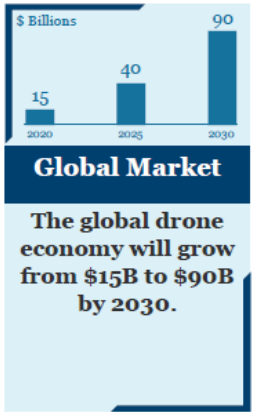
LUCKY SEVENS

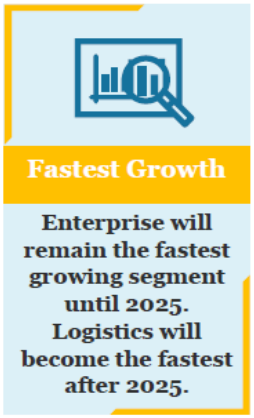
FT35104
FT35W104

EXPERIMENTAL



Market





- **Global Market:** The global drone economy will grow from $15B to $90B by 2030.
- **Fastest Growth:** Enterprise will remain the fastest growing segment until 2025. Logistics will become the fastest after 2025.
- **Largest Segment:** Defense will remain the largest segment until 2024. Enterprise will become the largest after 2024.
- **Largest Region:** Asia-Pacific will remain the largest non-defense market through 2030.

Source: The Future of the Drone Economy, Levitate Capital, 2020.

Background

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v1.0: IPP Proposal

UAS INTEGRATION PILOT PROGRAM
U.S. Department of Transportation
Federal Aviation Administration

- Established Relationships
- Demonstrated Demand
- Raised Awareness

v2.1: DART Initiative

UNIVERSITY OF CALIFORNIA SANTA CRUZ

CITY OF MARINA

AIRSPACE INTEGRATION

JOBY AVIATION

NPS PRAESTANTIA PER SCIENTIAM 1909

UC ANR

California State University MONTEREY BAY

- World-Class Operations
- National Network
- Grow MB Regional Cluster

Board

DART
DRONES AUTOMATION & ROBOTICS TECHNOLOGIES

Amy Gross
Sustainability Manager
Joby Aviation

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CSU Monterey bay

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Founder
Airspace Integration

Josh Metz
Senior Advisor
Regional Government Services

Thomas Atchison
Founder
Mavericks Civilian Space Foundation

Vision

DART
DRONES AUTOMATION & ROBOTICS TECHNOLOGIES

Bring Together And Foster Coordination Between Industry, Government, Academia & Practitioners In Drone, Automation/Autonomy, And Robotics Technology To Pursue Opportunities For Regional Advancement, Innovation, And Economic Development.

DART Consortium

Industry

- Companies
- Products
- Services
- Capital
- Entrepreneurs

Government

- Policy
- Infrastructure
- Regulation
- Funding

Academia

- Education
- R&D
- Innovation
- Talent

Mission

DART
DRONES AUTOMATION & ROBOTICS TECHNOLOGIES

Establish & facilitate a World-class Drone, Automation/Autonomy, Robotics Technology Development, Testing & Manufacturing Cluster in the Monterey Bay Region.

CONNECT

Convene stakeholders to **coordinate action**, **advance projects**, and establish **productive cross-sector partnerships**

FUND

Identify, pursue and secure public and private funding to support research & development, infrastructure improvement and venture creation/growth.

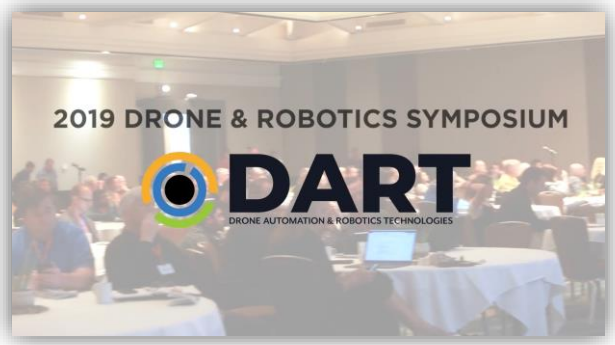
EDUCATE

Host i**ndustry** and **educational forums**.
Contribute to **regional workforce** development.
Promote **curriculum** development and **education**.

ADVOCATE

Safe, appropriate market, **facilities and airspace access.**

2021 Activities



- 2nd DART Symposium
- Co-host Meetups with Startup Monterey Bay
- Grow DART Community & Communications
- Establish Membership & Funding Framework

Symposium

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DRONES AUTOMATION & ROBOTICS TECHNOLOGIES

Keynotes, Panels, Breakouts & Virtual Exhibits

- Pandemic Adaptation
- Fire Risk, Response & Recovery
- Urban Air Mobility
- National Defense
- Agriculture
- Conservation & Climate Change
- Education & Workforce
- Entrepreneurship & Innovation

Online Symposium

Partnerships

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DRONES AUTOMATION & ROBOTICS TECHNOLOGIES

UNIVERSITY OF CALIFORNIA
Agriculture and Natural Resources

UNIVERSITY OF CALIFORNIA
SANTA CRUZ

California State University
MONTEREY BAY
Extraordinary Opportunity

Annual Cycle of Innovation

Partnerships

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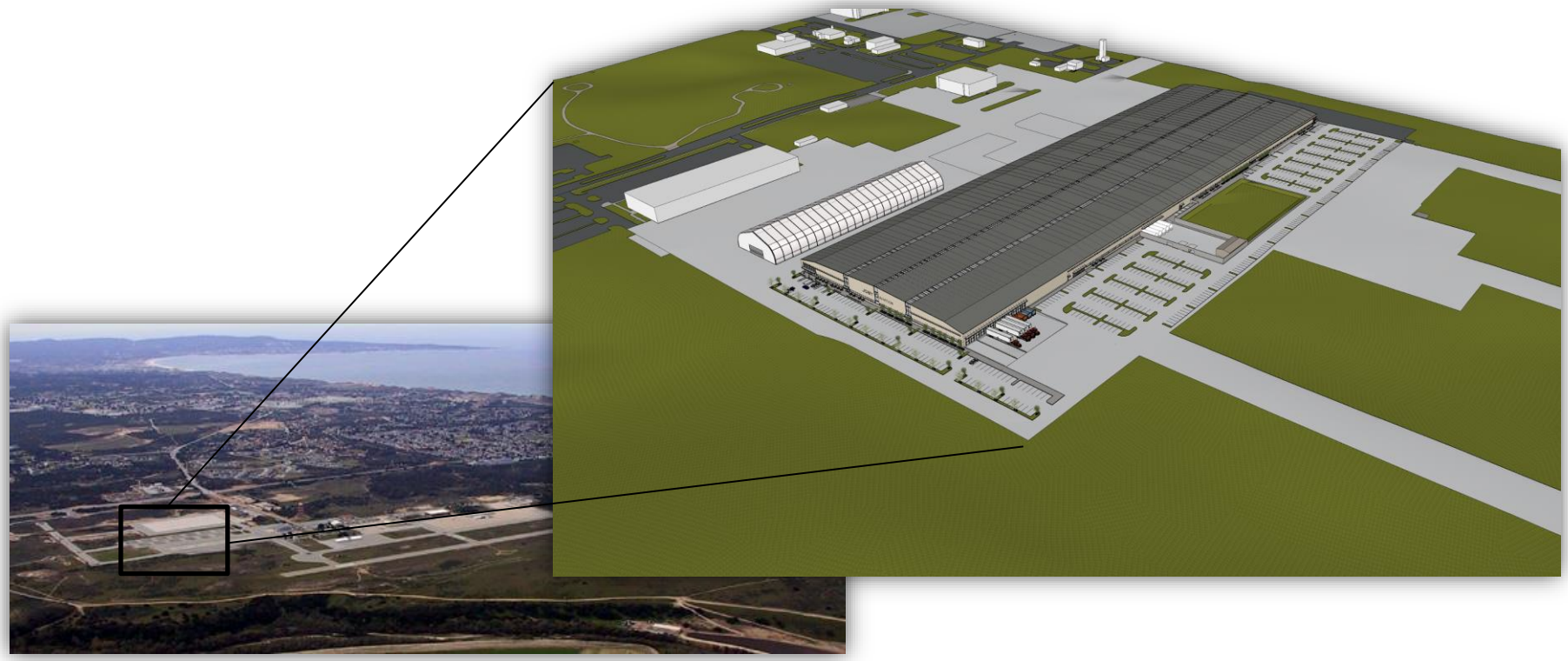
JOBY AVIATION

CITY OF MARINA

UNIVERSITY OF CALIFORNIA SANTA CRUZ



Partnerships

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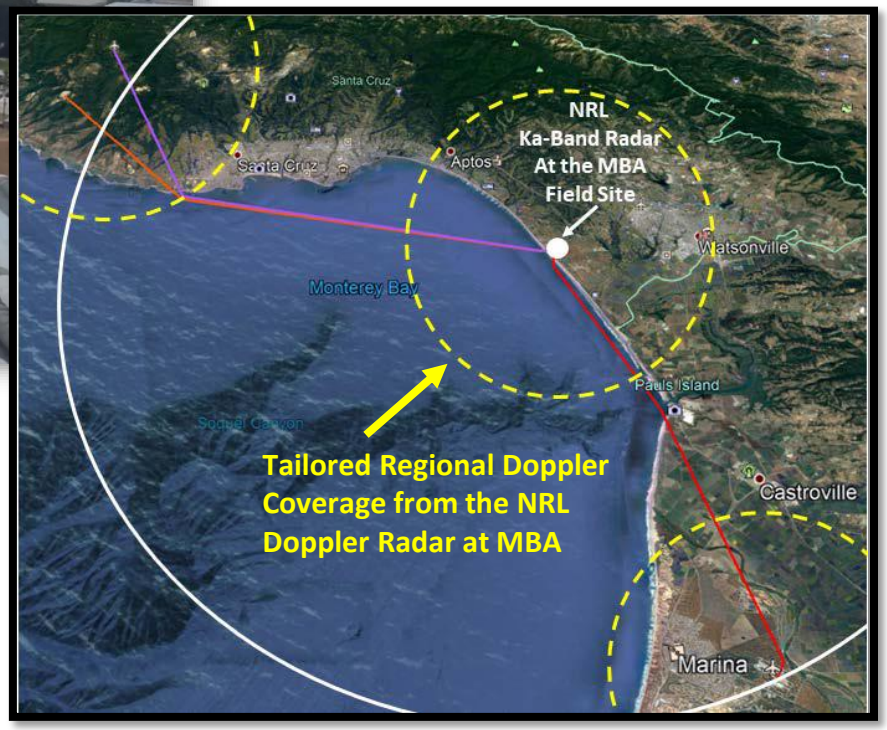
AIRSPACE INTEGRATION

Aerospace innovation hub on the Monterey Bay

Urban Air Corridor Weather Support



U.S. NAVAL RESEARCH LABORATORY

NAVAL RESEARCH LABORATORY MONTEREY, CA

Partnerships

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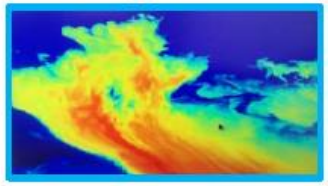
U.S. NAVAL RESEARCH LABORATORY

ProSensing Scanning Ka-Band Dopper Radar

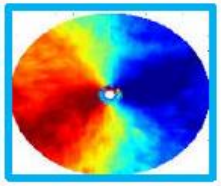
Halo Photonics Scanning Dopper Lidar

Vaisala CL51 Ceilometer

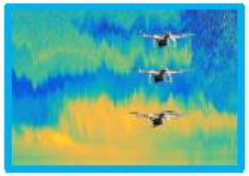
Reflectivity Doppler, LDR

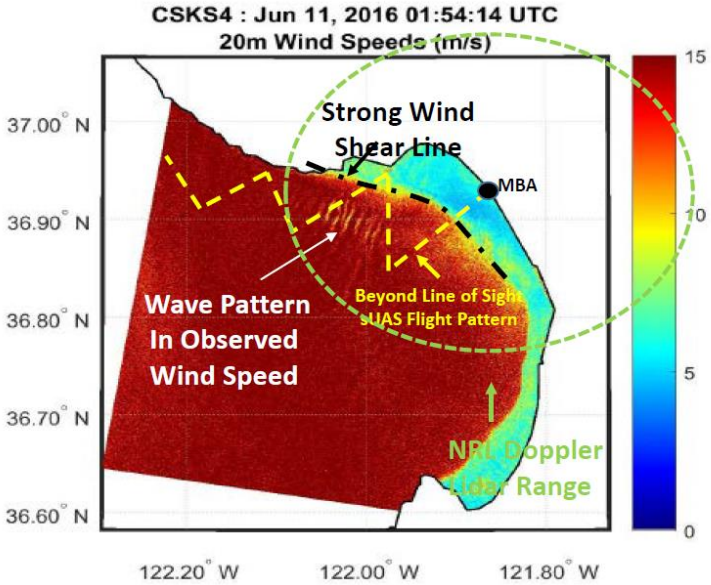


Clear Air Radial Flow



Vertical Backscatter





Opportunity

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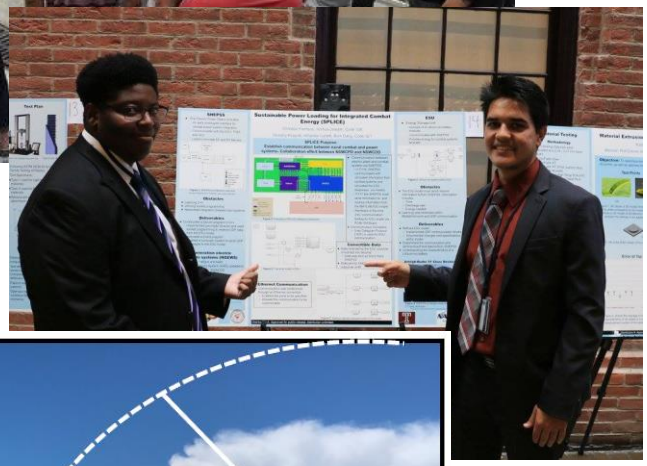
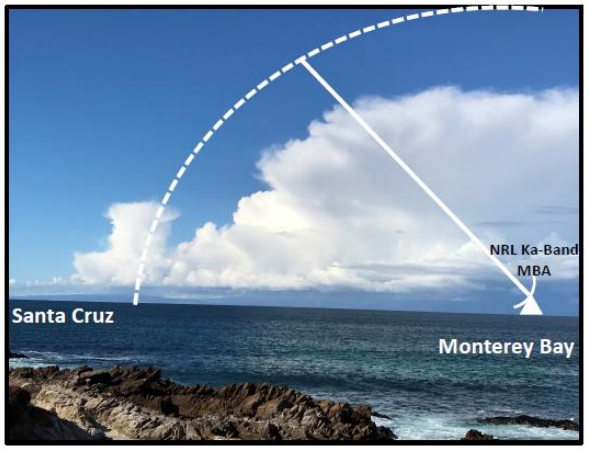
NREIP
Naval Research Enterprise Internship Program

- 10-week paid internship program
- Undergraduate & graduate student research
- Mentorship

Selection criteria:
- Academic achievements
- Personal Statements
- Recommendation
- Career & Research Interest

More information & application:
https://nreip.asee.org/





Partnerships

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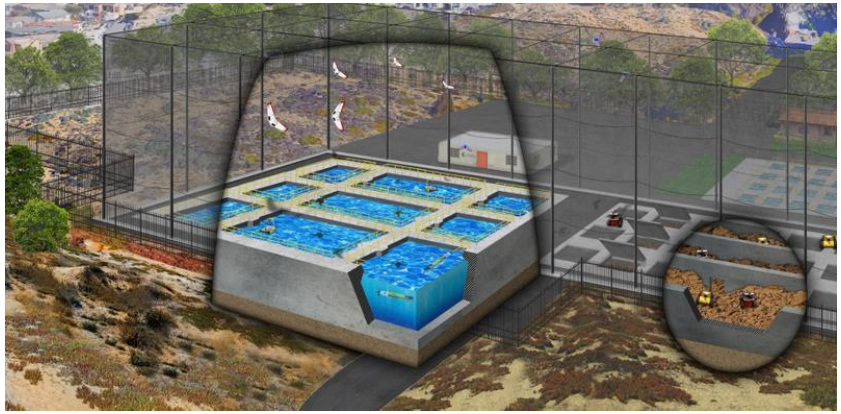
CRUSER
Consortium for Robotics and Unmanned Systems Education and Research

JIFX
Joint Interagency Field Experimentation

SLAMR℠
The Sea Land Air Military Research Initiative



NAVAL POSTGRADUATE SCHOOL
CENTER FOR HOMELAND DEFENSE AND SECURITY

Join Us

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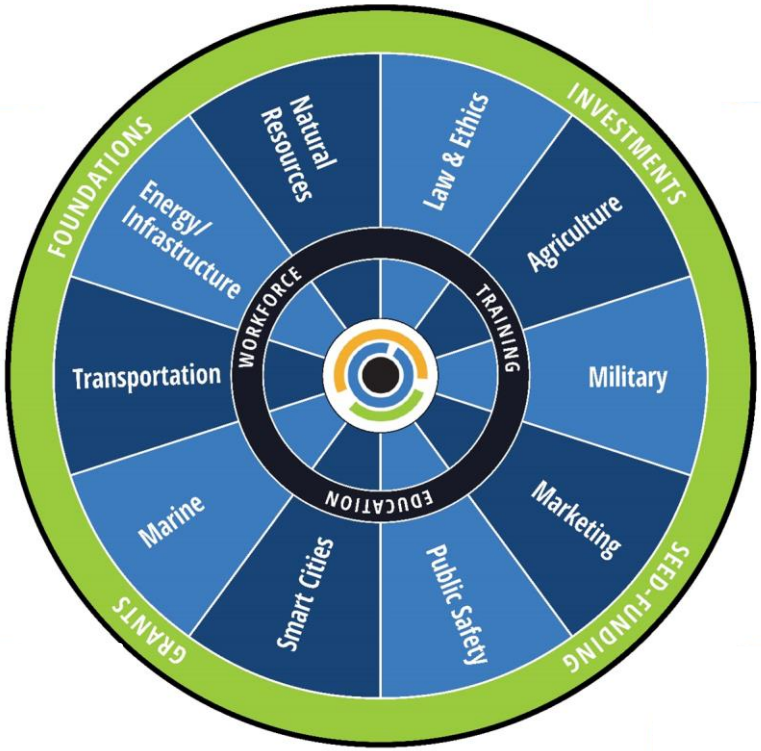

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