

# Why M2

#### Marine radar

- Tracks all vessels, participation not required
- Ideal for tracking small scale vessels to 5nm
- o All weather, day and night
- High resolution data with low error
- Real-time vessel location and speed

#### Camera

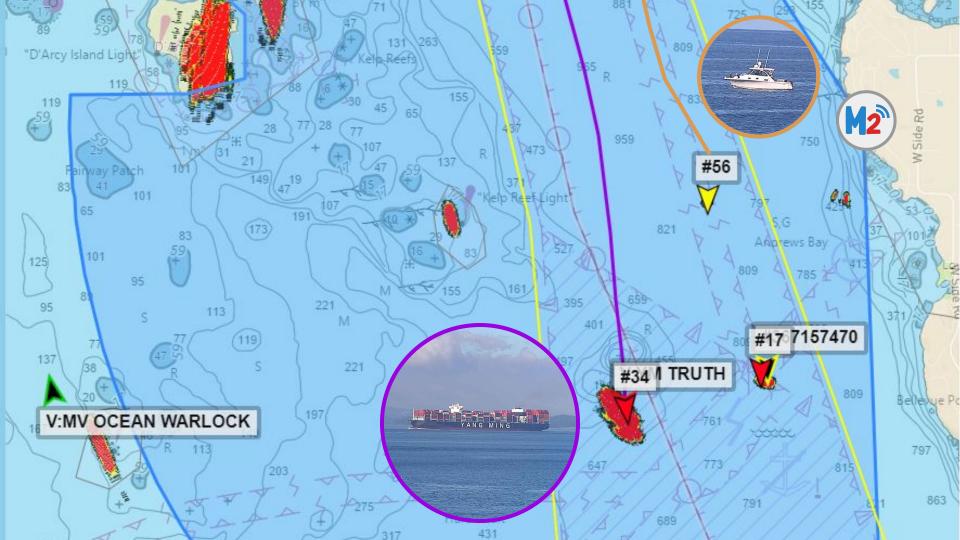
- Autonomous image capture
- Images tagged with vessel location

#### **AIS/VMS integration**

- Collect additional vessel data
- Identify non-participating vessels
- AIS Class A and Class B

Radar is an established, reliable technology









#### Radar + Camera



**M2 Control Center** 



**M2 Viewer** 



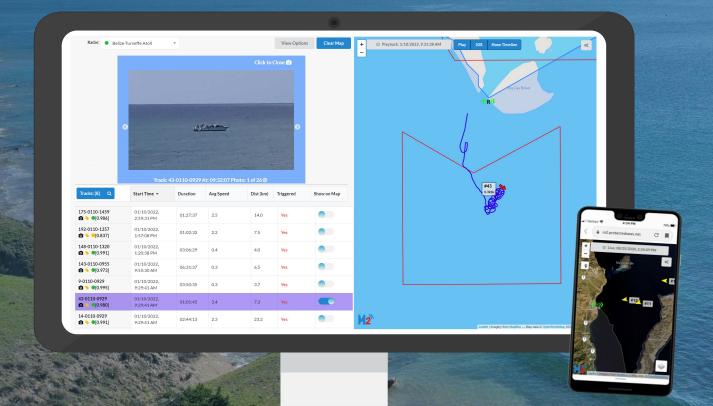




## Radar



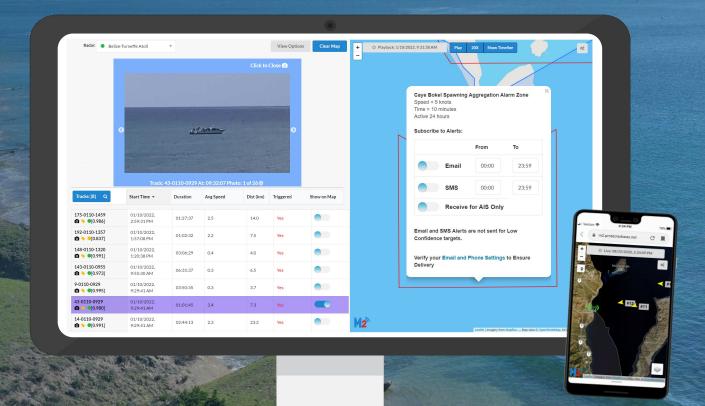
# **M2 Viewer**



protected



## **M2 Viewer**





### Camera

### Range (approximate)

1 nautical mile (1.9 km)

Identify vessel

3 nautical miles (5.6 km)

Identify vessel type

5 nautical miles (9.3 km)

Confirm presence







## **Applications**



Enforcement
MPA management
Compliance



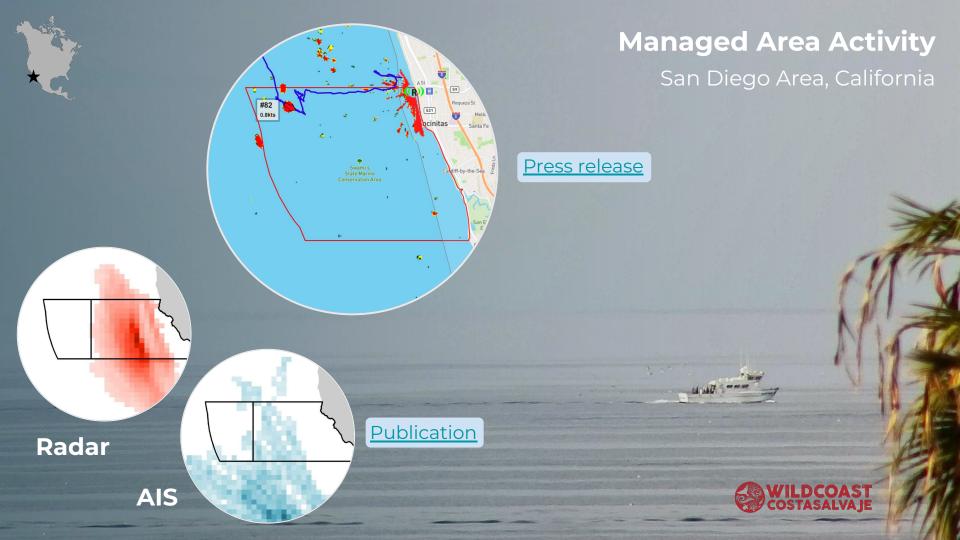
**Science**Human impacts
Risk assessments

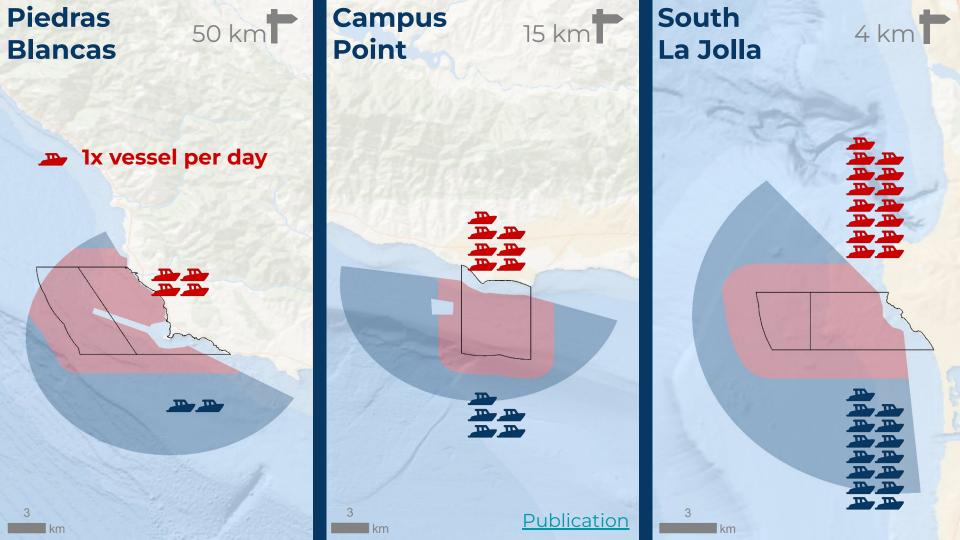


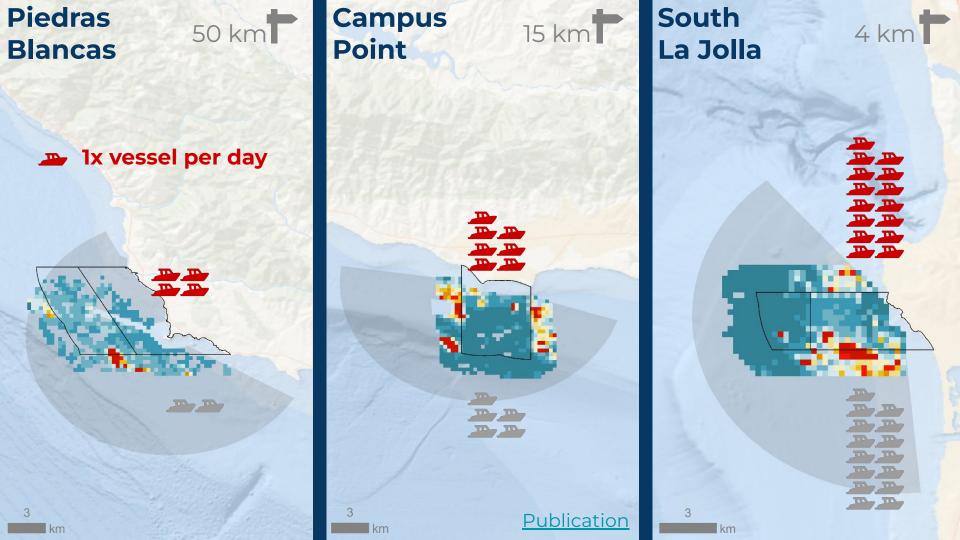
Maritime Safety
Search and rescue
Emergency response









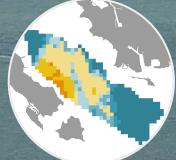


### **Vessel Speed and Noise**

San Francisco Bay Area, California





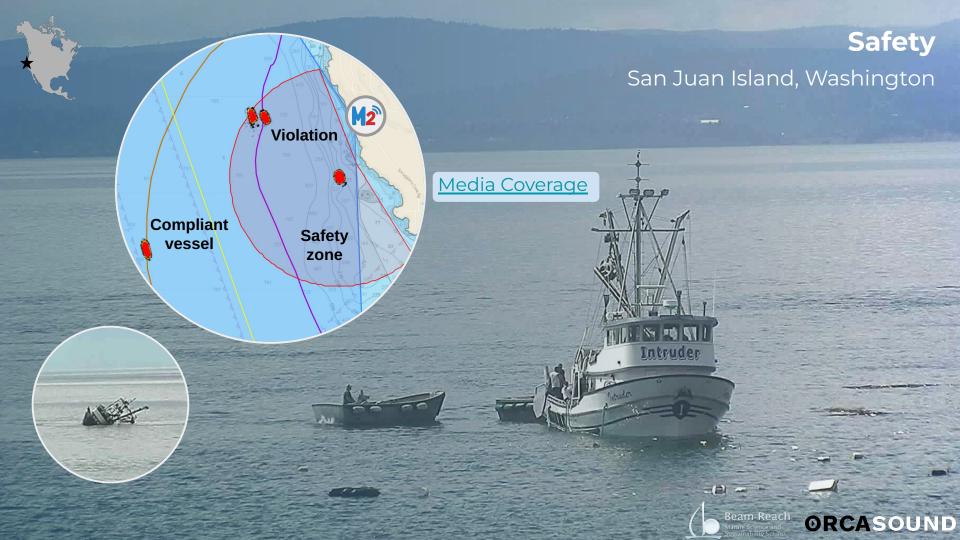


<u>Publication</u>









## **Benefits**

Autonomous data collection 24/7

Integration of small vessel information

**In-use today** by managers

Reliable, established technologies

Monitoring in remote areas

Integration of other sensors

Platform for collaboration and partnerships





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