# MONITORING VOG ON OAHU

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## ENVIRONMENT, RATIONALE, AND CHALLENGE

- The most recent eruptions at Kilauea started in Dec 2024
- Vog poses health risks for people with respiratory conditions
- Vog contains sulfur dioxide (SO2) and fine particulate matter (PM2.5)
- On Oahu, there are only a couple weather stations that monitor SO2 levels

#### PHYSICAL AND CHEMICAL MEASUREMENTS NEEDED

- Sulfur dioxide (SO2)
- Particulate matter (PM2.5)

### SPATIAL SAMPLING REGIME

- Urban: UH Manoa
- Residential/Coastal: Windward (Kaneohe)

#### TEMPORAL SAMPLING REGIME

- Continuous monitoring, every 5 minutes
- Daily summary, average hourly measurements

# PARTS, VENDORS & COSTS