

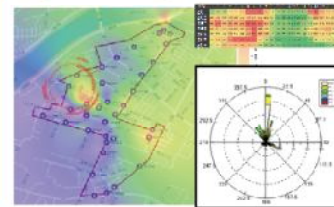
DRONE INTEGRATION WITH AIR QUALITY IOT FOR AUTOMATED SAMPLING

IoT alerts trigger **AI-powered** automated flight operations



- Reduces labor costs associated with traditional sampling
- Rapid drone deployment improves efficiency
- Enhanced mobility for improved evidence collection
- Overcomes obstacles to ensure sampling safety

STEP 1



Analyze peak pollution periods and meteorological data to narrow down **pollution targets**

STEP 2



Pre-set flight routes enable automatic drone deployment upon **pollution alerts**

STEP 3



Drones return automatically and use imaging-based automation to deliver samples for **pollutant analysis**