

What's Your 305 Air Quality? Promoting Community-Based Air Quality Monitoring Partnerships to Overcome Environmental and Health Disparities in Miami-Dade

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PROJECT IN PROGRESS

In this project, we propose to promote air quality monitoring partnerships that address environmental and health disparities in Miami-Dade County. In close collaboration among Miami-Dade County's Department of Regulatory and Economic Resources (RER) Office of Resilience (OOR), Air Quality Management Division (AQMD), and the Resilient305 Collaborative (Troxler et al. 2021), comprised of Catalyst Miami, Florida International University (FIU) and University of Miami (UM) partners, we propose to develop an expanded multi-sensor air quality monitoring network to complement, extend and improve resilience in the County's current air quality monitoring network. The goals of our work are to: 1) leverage existing air quality monitoring expertise; 2) develop and integrate air quality monitoring outputs as part of existing community awareness and advisory groups to amplify the community voice in the monitoring of regional air quality; and 3) expand the foundation of trusting relationships and enhanced understanding from which sustainable solutions to community air pollution problems can be identified and supported. We will achieve these goals with four objectives:

- 1) Establish the *What's your 305 Air Quality?* Miami Dade clean air community partnership program as part of OOR's Resilient305 program and heat health work
- 2) Deploy instruments in a multi-sensor network (Ozone, PM_{2.5}, temperature and humidity) focusing on monitoring gaps and cumulative stressors.
- 3) Evaluate air quality data at stations co-located with regulatory grade instruments managed by the Miami-Dade County AQMD for comparability and appropriate use of these data.
- 4) Co-develop and launch the *What's your 305 Air Quality?* community activities, policy actions and communication strategy that integrates additional air quality data and potential disproportionate and adverse impacts of pollutants and cumulative multiple stressors at the census block group level.