



clean
AIRE
nc COMMUNITY
SCIENCE

MONITORING AIR QUALITY IN LOCAL COMMUNITIES



The AirKeepers Program engages students, teachers, and the public in monitoring hyperlocal levels of air pollution using the latest citizen science technology on the market.

CleanAIRE NC is leading the way in creating a monitoring network across North Carolina. Equipped with smart, portable air sensors, volunteer citizen scientists collect air pollution data in their communities that's reflected in real-time in our online map. Scientists, health experts, and advocates can leverage this information to fight air pollution like never before, while community members can avoid exposures and protect their health on poor air quality days.

WHY ARE WE MONITORING THE AIR?

Air pollution is the world's largest environmental health risk, according to the World Health Organization. Particle pollution, or soot, is a particularly dangerous pollutant— invisible and tiny matter floating in the air. These particles are small enough to pass through the lungs and travel directly into our bloodstreams. There is no safe level of exposure to particle pollution. What's more, particle pollution can vary dramatically by location, even from one city neighborhood to the next. And long-term exposure levels have been shown to strongly correlate with mortality rates.

AIRKEEPERS FILL IN THE GAPS

While North Carolina has 100 counties, there are just 23 state-run particle pollution (PM2.5) monitors. We are leaving too many communities in the dark about their levels of exposure. And the communities with greater need are often the ones without monitors. This is why the AirKeepers Program is building a county-level monitoring network to both gather scientific data about real-time exposure and connect impacted communities with information needed to protect their health and advocate for change.

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FOR MORE INFORMATION VISIT: CLEANAIRENC.ORG/COMMUNITY-SCIENCE