# Baltimore OpenAir

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Anna Scott Air Sensors International 2018

# Maryland leads

# the US in air

# pollution deaths.



# Air quality

# gun violence

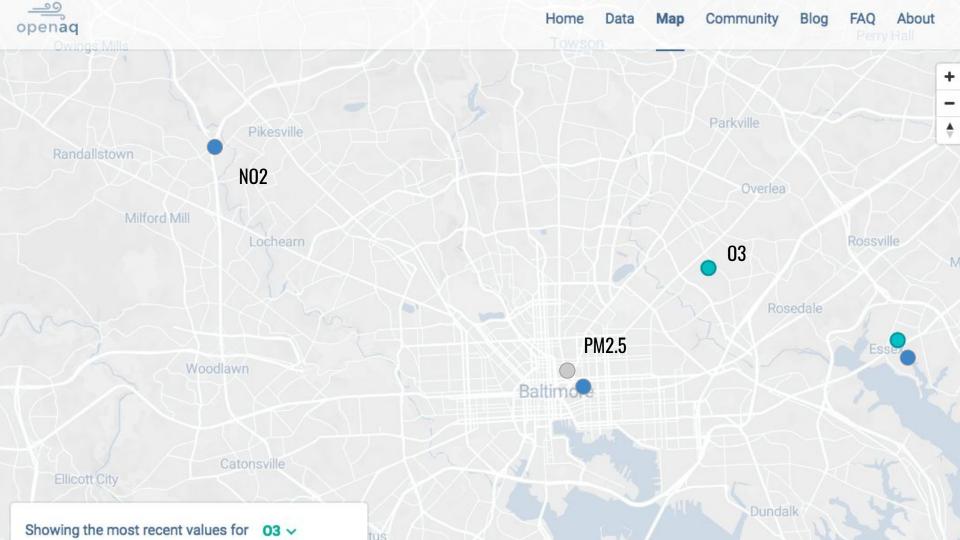


his could be the site of the nation's argest trash burning incinerator, or it ould be the site of largest solar farm on a Eastern Seaboard. "

DESTINY WATFORD / UNITED STATES

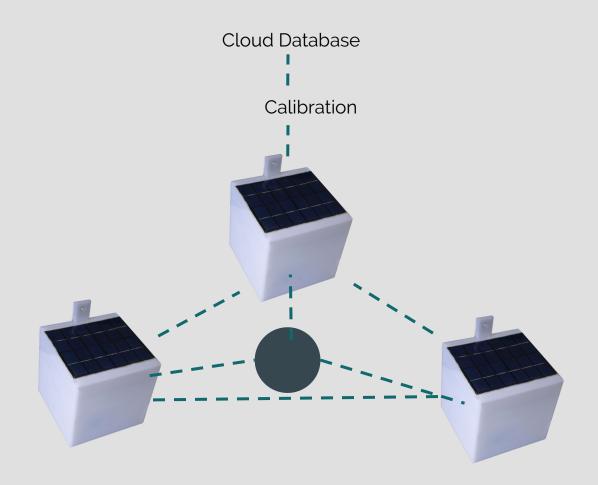
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# Greater Baltimore OpenAir

A community-based air monitoring network



How did we do it? 1) **Recruit partners** 2) Design tech 3) Build tech 4) Calibrate 5) Deploy

### 1) **Recruit Partners**

## Partners



MARYLAND CHAPTER

EST. 2812









ESDAY DEC. 12, 2017

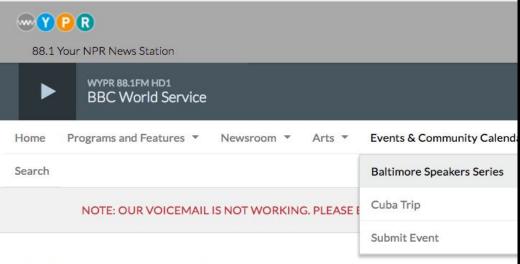
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#### How clean is the air on your block? Baltimore 'citizen scientists' build monitors to find out





#### **Baltimore Open Air**

#### **Citizen Scientists Unite!**

By SHEILAH KAST & MELISSA GERR . AUG 24, 2017



wypr.org/baltimore-speaker-series



Armed with curiosity, patience, and all the right apps loaded onto a smartphone, anyone can become a citizen scientist. We talk with Anna Scott, a climate scientist who's counting on Baltimoreans to help her

Community Meetings (thanks to Union of Concerned Scientists' Science For the Public Good Fund)

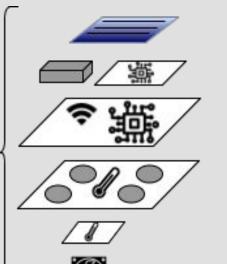
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GT-

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### 2) Design Technology





Solar panel Solar charging board

Main circuit board

Analogue front end

Sensor board 2

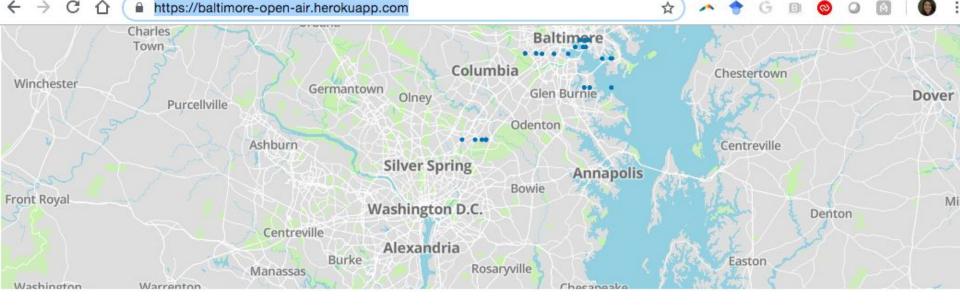
Fan

## **The WeatherCube** measures 03, NO2, H2S, SO2, temp, & RH



### 3) Build Technology



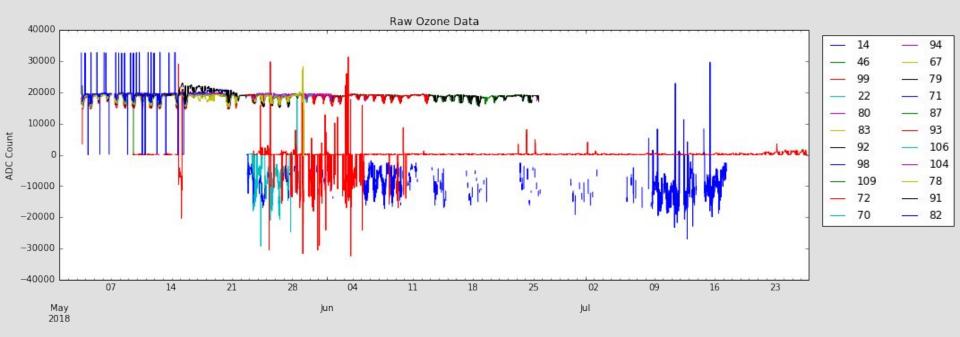


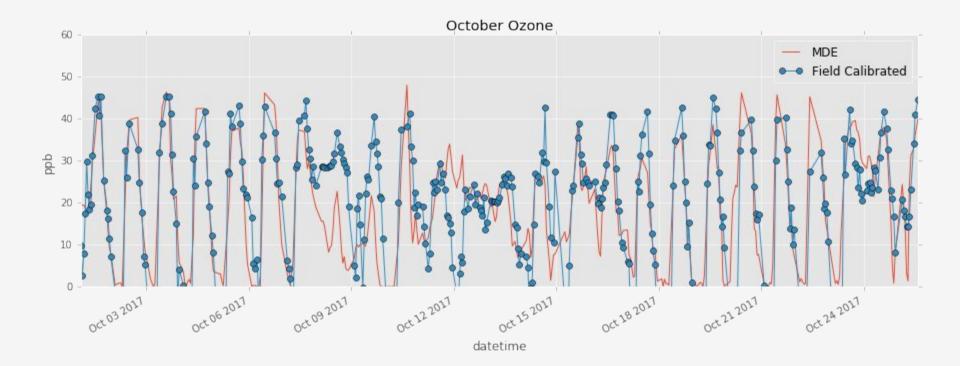
Preliminary Ozone Estimates (see below for disclaimer)

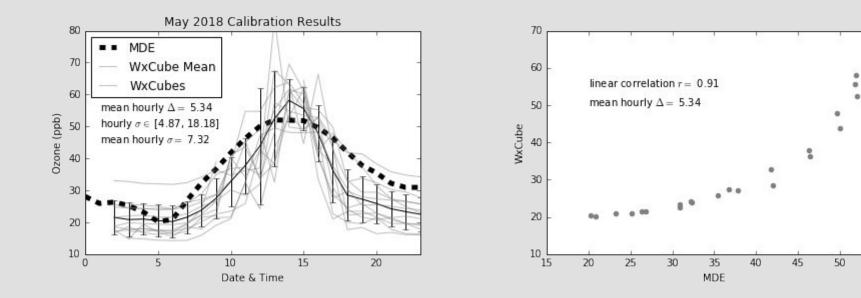


## 4) Calibrate









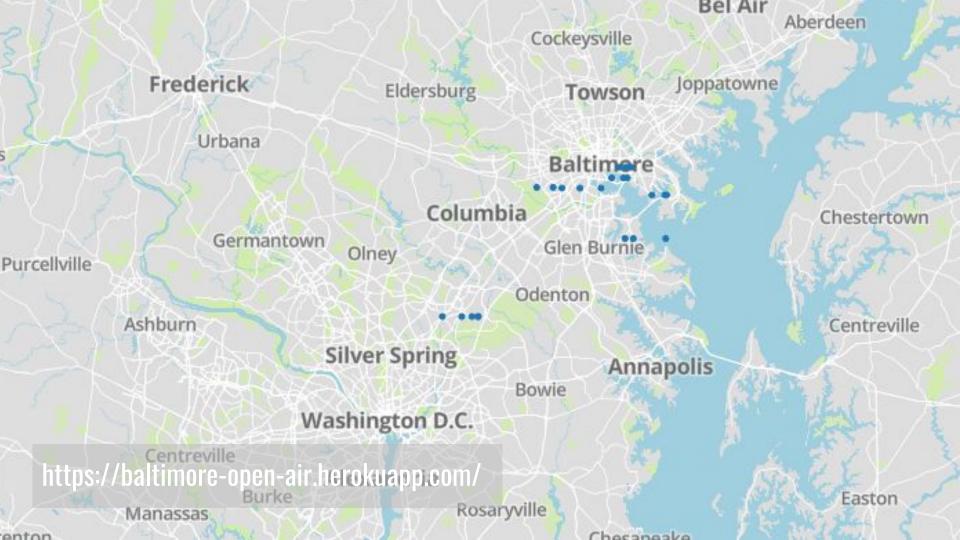
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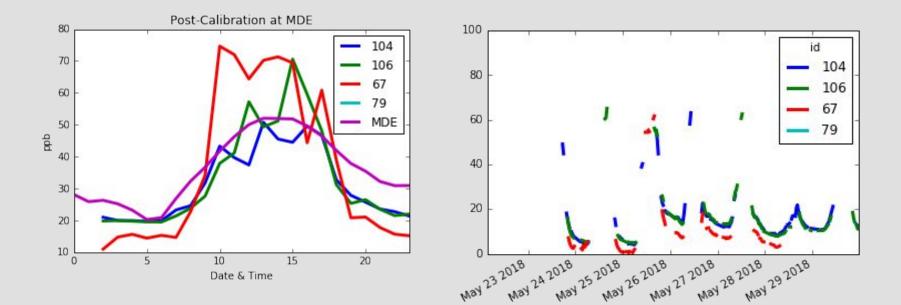


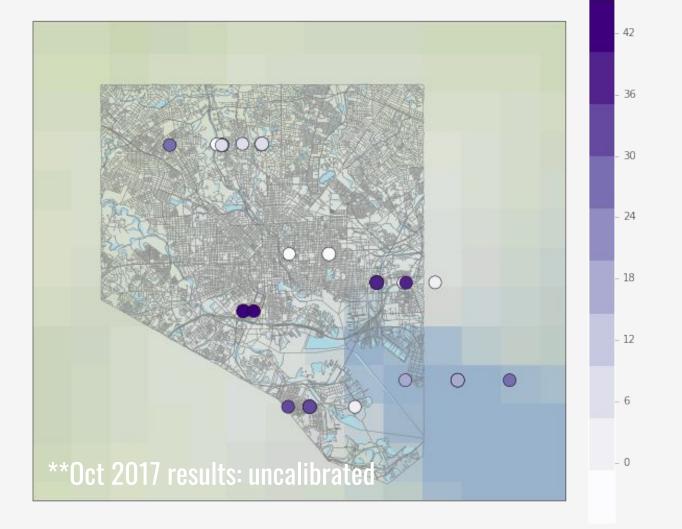












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