



Engaging School Communities in Air Sensors: Love My Air Denver

ASIC Virtual Fall Series- Session 3

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Intros



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State of air quality & asthma in Denver

- Denver, Colorado has the 24th worst air quality among major US cities
- Only 53% of Denver residents realize the potential effects of poor air quality
- Denver families spend an average of \$3,100 a year on asthma-related medical costs
- Denver Public Schools (DPS) has an asthma prevalence of 10.8%

American Lung Association. (2018). State of the Air 2018.

United States Census Bureau. (2019). Estimates of Resident Population Change and Rankings: July 1, 2017 to July 1, 2018 - United States -- Metropolitan Statistical Area; & for Puerto Rico.

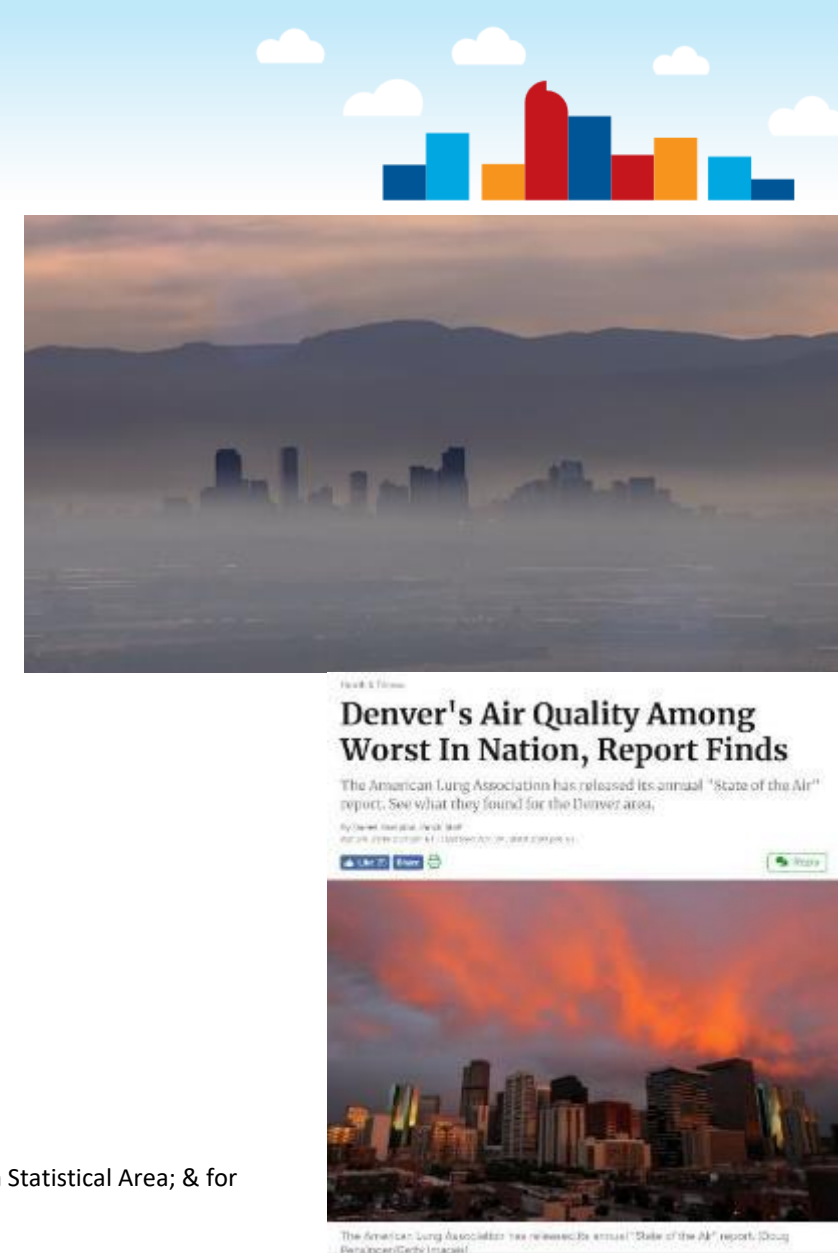
Photos: Denver Post



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Program Overview

The Solution Love My Air Denver program, in partnership with Denver Public Schools (DPS), aims to reduce air pollution and limit exposure through behavior change, advocacy, and community engagement.

The Funding Sponsored by the 2018 Bloomberg Mayors Challenge- \$1 million grant award funding the program through 2021.

**Bloomberg
Philanthropies**

Nunes, C., et al. Asthma costs and social impact. (2017).
Photos: The Denver Post; Chalkbeat



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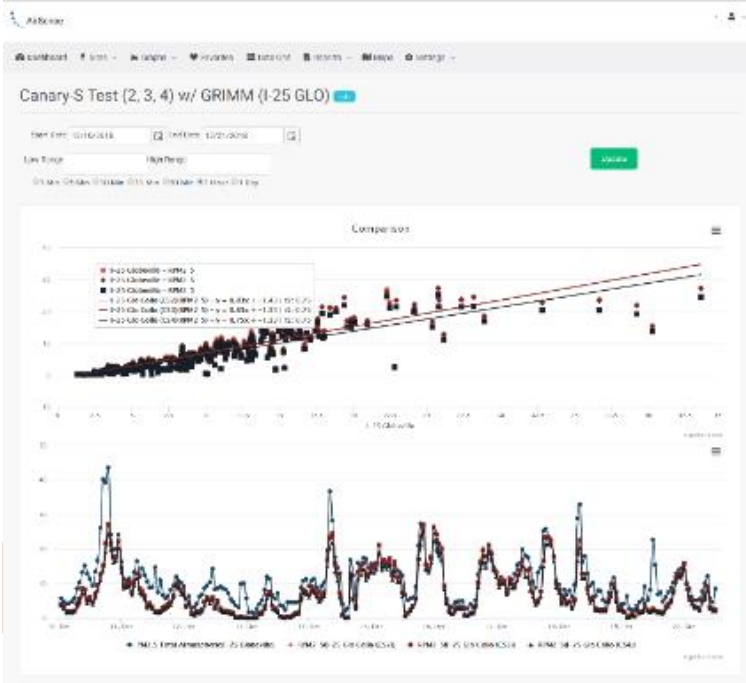
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Menu of Options



- Air quality sensor (PM_{2.5} measurements)
- Air quality data dashboard- DenverAQ.com
- Customized programming
- Developed with teachers and nurses



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Educational Programs

- Nurse toolkits
- K-5 curriculum
- 6-12 curriculum (includes handheld sensors, AQTreks PAMs)
- Community initiatives & competitions



Intervention Programs

- Indoor Day Action Plan
- Safe Routes to School Program
- Anti-idling campaigns & signage (custom artwork)
- Low-emissions events



COVID-19 Pivot- Virtual air quality curriculum

- Developed with contractor & teachers
- Updates for the 20-21 Virtual School Year:
 - Written curriculum
 - Teacher's guides
 - Video labs
 - Case studies
 - Ability to request virtual presentations (Ask an air quality scientist)



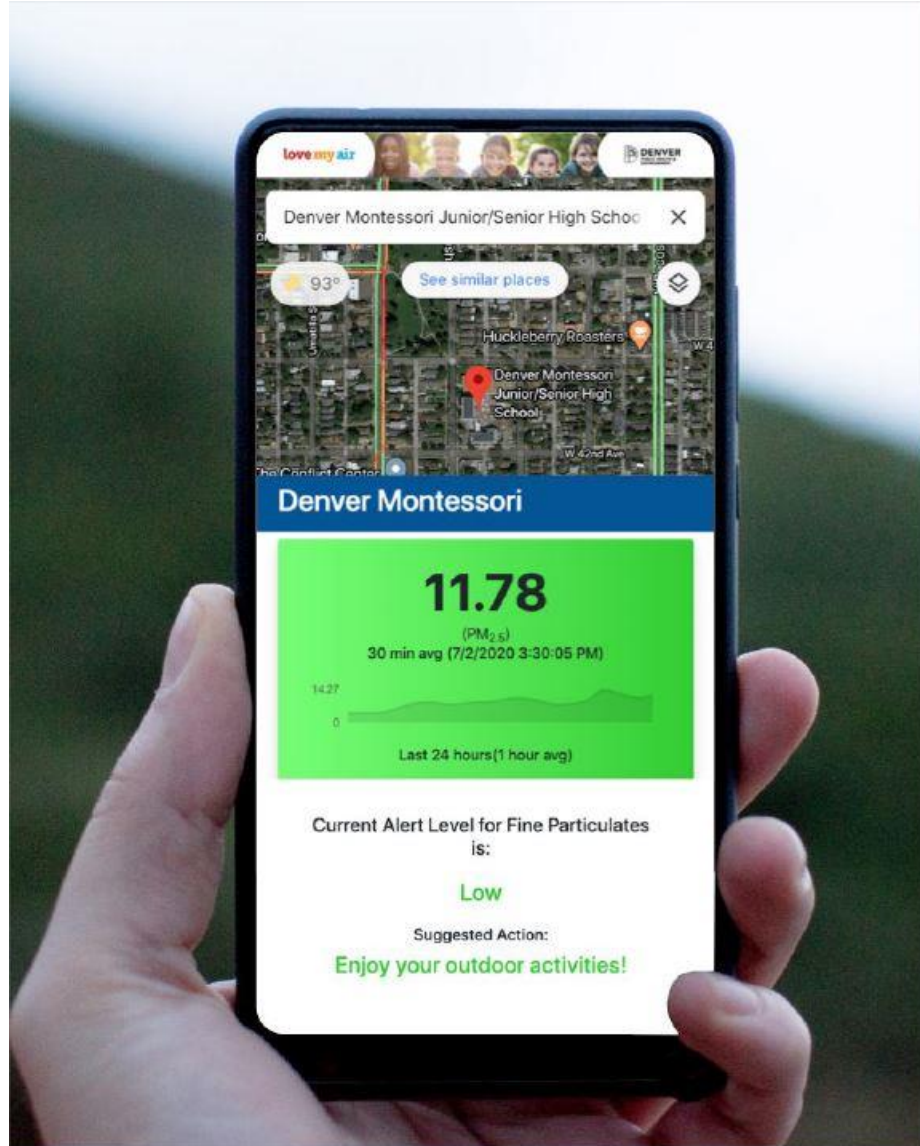
COVID-19 Pivot- Home based interventions & parent education

Through newsletters, social media posts, and the app, promote education to encourage behaviors that improve outdoor and indoor air pollution such as:

- Ventilating while cooking
- Not “warming up” vehicle in the winter
- Reducing exercise near busy roads
- Reducing use of firepits and burning waste
- Mowing the lawn after 5 pm
- Using air quality forecasting to make decisions



COVID-19 Pivot- App Development



- Real time access to current air quality info, historical data, and forecasting
- Push notifications
 - Influence behavior change
 - Receive feedback from users to refine programming and data communication
- User reporting tools for submission of information related to:
 - User action taken in response to air quality events
 - User reporting of symptoms
 - Complaint reporting
 - Social aspects
 - Upload feature for user submission of photos

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A decorative graphic at the bottom of the page featuring a light blue background with several white, stylized clouds. In the center, there is a bar chart with seven bars of varying heights and colors: dark blue, light blue, orange, red, dark blue, red, and orange. The red bar is the tallest, followed by the light blue bar.

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- A photograph of a school hallway with a brick wall. A staircase with a wooden railing and a metal mesh fence leads up. A sign on the wall reads "BRILLIANCE RESPECT UNITY CHARACTER EFFORT". Below the staircase, a sign says "STORE". A digital display is mounted on the wall. In the foreground, a bronze statue of a bear stands on a brick pedestal. A potted plant sits on top of the pedestal. The floor is made of large, light-colored tiles. Several students are walking in the hallway, some blurred from motion.

What's Next?

Love My Air Replication Toolkit

- Engagement Toolkit
- Visual Design Elements
- Education Toolkit
- Public Health Toolkit

No-cost Licensing Agreement

- Access to Love My Air logos (Spanish & English)
- Access to Love My Air Network. Idea-share with other replicating entities.



Replication Toolkit Summary:

The mission of Love My Air is to empower communities to live better, longer by reducing air pollution and limiting exposure through behavior change, advocacy, and community engagement. To empower more communities, Love My Air has created a replication toolkit to provide a central location for all outreach, education, and public health documents needed to launch the Love My Air program in your community. This toolkit will guide your organization as it launches the Love My Air program. The replication toolkit is comprised of an Engagement toolkit, Education toolkit, and Public Health toolkit. The components of each toolkit are outlined below.

Engagement Toolkit:

- Newsletter Template
- Press Release Template
- 3-Month Social Media Campaign Template
- Public Service Announcement Template
- Program Evaluation Template
- Letter Template for Parents/Staff/School Community

Visual Aids:

- Rack Card (Flyer)
- Love My Air Particulate Matter2.5 Infographic
- Love My Air Logos (English, Spanish)

Education Toolkit

- Love My Air Curriculum
- Love My Air Power Point Presentation

Public Health Toolkit:

- Anti-Idling Campaign Template & Sign Contest.
 - Includes 3-month social media template for anti-idling campaign
- Nurse toolkit: one-pager about air quality, AQ management plan, guidance for students with asthma
- Common Air Pollutants Poster

Thank You!



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