# Clean Air Partners Board Meeting

Education Program Updates Elizabeth Spike Education Program Manager April 18, 2024



# How can we educate students to transform awareness of air quality and climate change into personal actions that protect their communities in the Baltimore-Washington region?

Objective: Promote the use of On the Air curriculum. (FY 2023 Work Plan)						
Activity	Target CAP participating member school systems, charter, private, and independent schools in the District of Columbia, Maryland, and Northern Virginia.	Build relationships with stakeholders in public, charter, private and independent schools, school districts, and teachers of grades 5-12 across the BW region to create legacy and longevity for the CAP's Education Program.	Develop evaluation tools to conduct a needs assessment and gauge the extent of promoting the <i>On the Air</i> curriculum and <b>Train-The-Trainer</b> model in the BW region.			
Numbers of Schools		Current network	Stakeholder experience			
School Type, Grade Levels,		Surveys	Surveys			
Subjects Geography		Partnerships to build new relationships	Needs Assessments Communication/Support			

### Promote the use of *On the Air* curriculum: Target CAP participating member school systems





### VDOT/CAP online presentation February 7, 2024

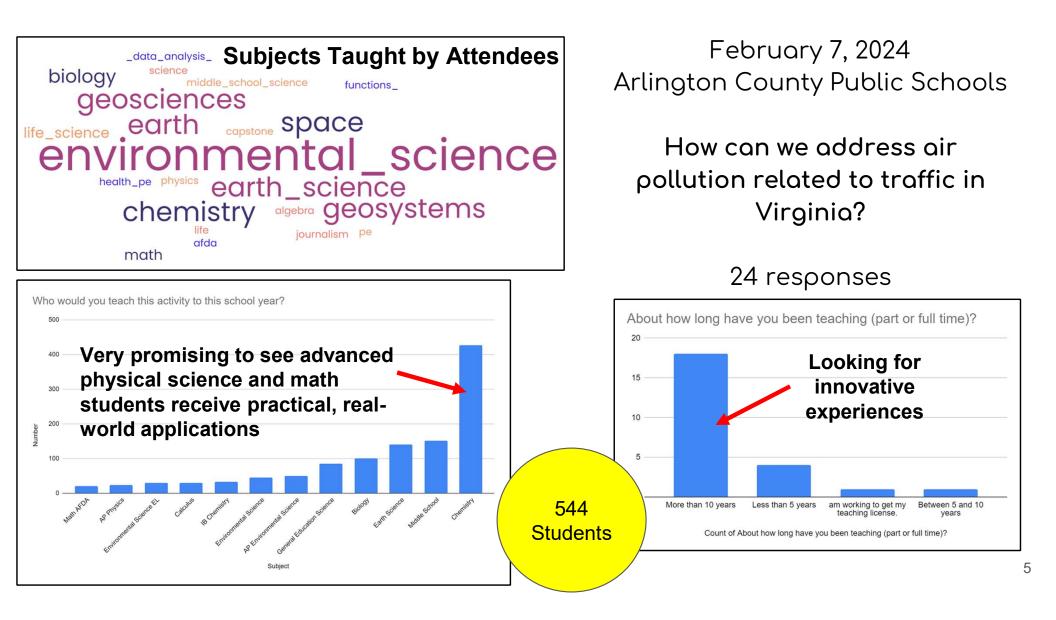
**Maryland Association for Environmental** & Outdoor Education

Exhibitor/Sponsor February 9-10, 2024



VIRGINIA ASSOCIATION FOR ENVIRONMENTAL EDUCATION

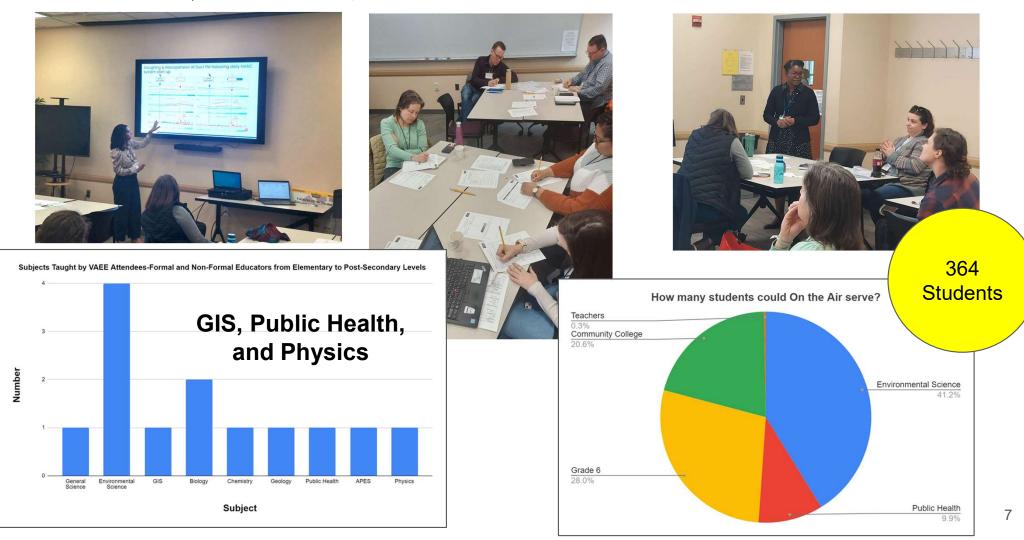
Presenter/Exhibitor/Sponsor February 22-24, 2024



#### February 9-10, 2024 Maryland Association for Environmental and Outdoor Education



#### February 23, 2024 Virginia Association for Environmental Education





# Science Fairs

3/2 The Effect of Ecological Region on Emissions from Wildfires



3/16 AirWise: A Deep Learning Framework for High-Resolution PM2.5 Prediction

A Novel Blockchain System and Low-Cost Device for Air Quality Aggregation



3/20 Nitrogen Content of Lichens as a Bioindicator of Data Center Impact on Air Quality



**PS** FREDERICK COUNTY PUBLIC SCHOOLS 3/23 Unveiling the Green: Investigating Biodegradability and Unmasking Greenwashing in Everyday Materials



FCPS Teacher Spring PD April 2, 2024

## SHINING STARS MONTESSORI ACADEMY

Air Beam training and Ioan April 2024



Coordination with Science and Social Science District Specialists for SY 24-25, thanks to one the Lead Teachers

#### FCPS, VA Staff Development Day April 2, 2024





Attended MAEOE's Project Learning Tree PD 4/6

Reviewed applications submitted to MAEOE for Green School Designation April 2024



Virginia Department of Conservation and Recreation CONSERVE. PROTECT. ENJOY.

Applied to join summer SOL review committee for Earth Science Standards Mar/April 2024

Collaborate with VA DCR's EE website to promote *On the Air* March 2024





NASA STELLA DIY Low-Cost Sensor

Habitat h Map



COLORADO

**Department of Public** 

Health & Environment

Local Teachers

Published 5 Lessons inspired by *On the Air*:

- 1. What's in our Air?
- 2. Where is the air pollution coming from and how does it affect us?
- 3. What does the air pollution do when it's in the air?
- 4. What are other communities doing about this problem?
- 5. What can 'we' do to improve air quality in our community?

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**Resource Provider** 

- Curriculum
- LCS
- External Resources

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Sponsorships
Attune IOT \$1,000
Leidos \$10,000

LTLC Summer Luncheon

Promote the use of *On the Air* curriculum: Feedback Tools



Updated feedback form with more insightful and actionable questions

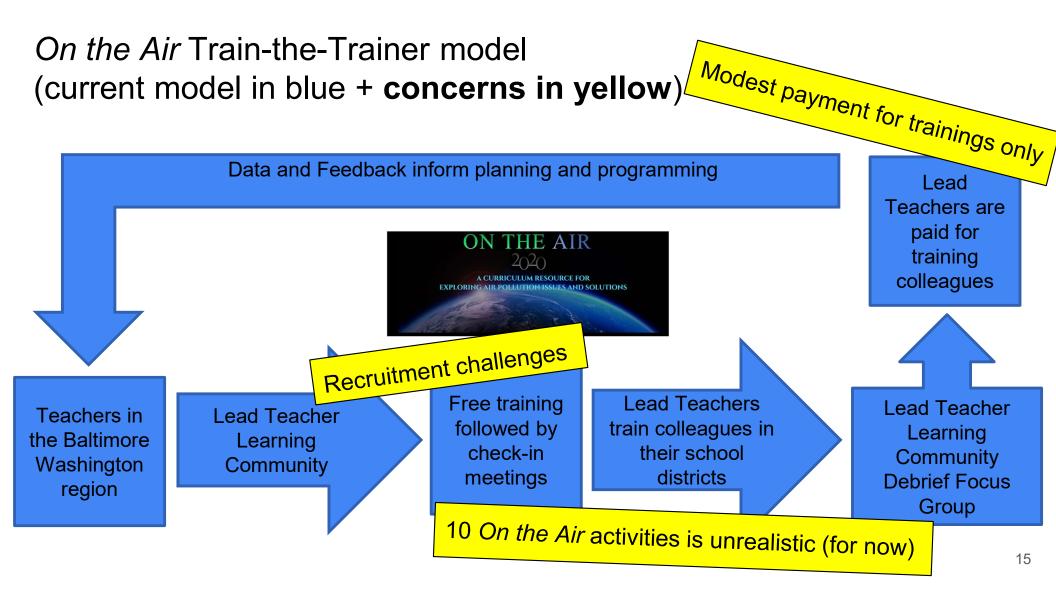


Debrief Focus Group 3/20

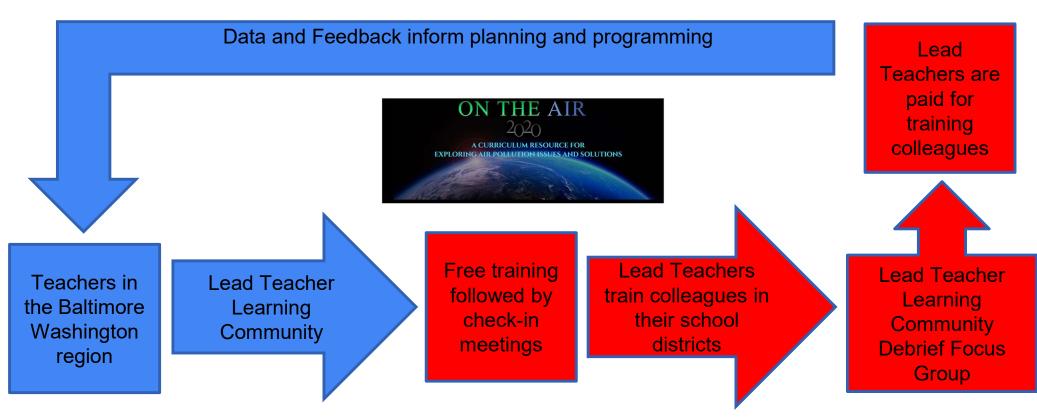
- Glows and Grows
- Suggestions for improvement



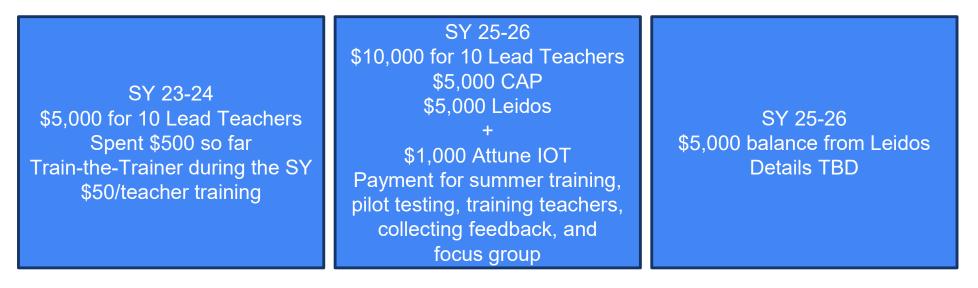
Proposed changes to Lead Teacher Learning Community structure–three concerns



### On the Air Train-the-Trainer model (changes to red polygons)



# **Goal:** recruit, train, and manage **10** Lead Teachers in SY24-25 to promote *On the Air* and collect feedback



- $\checkmark$  1-3 trainings are more realistic given recruitment challenges.
- ✓ Student feedback potential from pilot testing.
- ✓ The payment is more competitive, inclusive and respectful of limited teacher time.

### On the Horizon...

April 2024	May 2024	June 2024	July 2024	August/Sept 2024
LTLC Information Session online 4/17 PG County Student	Howard County Conservancy Youth Climate Capstone 5/1 LTLC Information	LTLC Summer Training online TBD (6/18-6/20) VA SOL Earth Science	Earth Educators Rendezvous Philadelphia, PA July 15-19 LTLC Summer	LTLC Summer Training online 8/6- 8/8 CEEJH EJ Symposium
Environmental Alliance Bowie State U 4/29 Submit conference proposals to AGU 4/24 and NAAEE 4/26	Session online 5/23 MD Green Schools Youth Summit Sandy Point SP 5/30	Curriculum Review Committee 6/25-6/27	Training online TBD (7/30-8/1)	Education Panel and Teacher Training UMD 9/11-9/14

## Questions?

Contact me at <a href="mailto:espike@cleanairpartners.net">espike@cleanairpartners.net</a>

Let's partner. Interest in..

- attending the focus group
- attending the summer luncheon
- co-presenting
- joining a summer LTLC training–introduce yourself, your org, your commitment to AQ
- introducing me to your networks
- collaborating on grants and sponsorships
- introducing me to your organization