

LIVABLE MECK
YOUR VOICE. YOUR VISION.

ENGAGEMENT CAFÉ

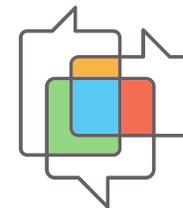
February 21, 2019



OPENING REMARKS

REBECCA HERBERT

COMMUNITY ENGAGEMENT & STRATEGY MANAGER



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TODAY'S OBJECTIVES & AGENDA

Objectives:

- ▶ Educate partner organizations on air quality conditions and the “Breathing Room” initiative.
- ▶ Ask partners’ preference on the NOW/NEXT/FUTURE actions.

Agenda:

- ▶ Presentations from Megan Green, LUESA Air Quality
 - ▶ NOW/NEXT/FUTURE Engagement
 - ▶ Livable Meck Commitment Exercise
 - ▶ Closing Remarks
- 

OVERVIEW & INTENT

Overview

- ▶ Community growth – **anticipate 1 million by 2030.**
- ▶ Need for a community-wide plan.
- ▶ Community stakeholders validated the opportunity to knit together resources.

Intent

- ▶ Ensure quality of life within our community.
 - ▶ Create an **engagement infrastructure.**
 - ▶ Increase coordination; foster innovation and creativity.
 - ▶ Avoid duplication of efforts; address service gaps within our community.
- 

Guiding Principles	 WELCOMING						 RESILIENT
Descriptors	Character. Entertainment Opportunity. Sa Neighborhood						Future Well-being. Collaboration.
Strategies	<ul style="list-style-type: none"> • Build safe neighborhood • Increase access to community-based arts, science, and history education • Continue to be an inviting destination for residents, visitors and businesses • Celebrate and integrate history, culture and diversity 						<p>Manage zoning and development to revitalize community character and the natural environment while allowing for growth and innovation</p> <p>Manage resources wisely</p> <p>Develop community and neighborhood leaders for the future</p>

VOICE OF THE COMMUNITY

August 1, 2018 – April 30, 2019

- Seeking community input to update the plan
- 5-year plan
- Forums, surveys, and events
- Results presented Summer 2019
- Partners meeting September 2019
- Get involved LivableMeck@mecklenburgcountync.gov,
- LivableMeck.com, or @LivableMeck



“BREATHING ROOM”

RELEVANT GUIDING PRINCIPLE & STRATEGY

Healthy

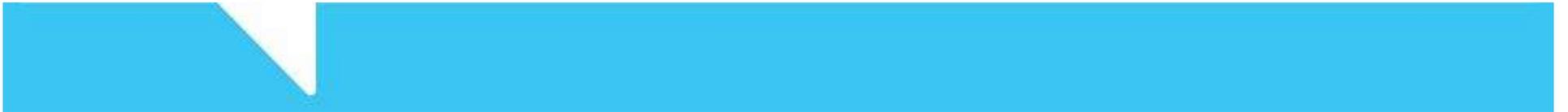
- **Strategy:** Protect and restore the natural environment

INTRODUCTIONS

AT YOUR TABLE

Please share...

- ✓ Your name
- ✓ Organization you represent
- ✓ Why you're here this morning



Breathing Room:

Improving Air Quality Beyond the Ozone Health Standard

Megan Green - Air Quality Division

Mecklenburg County Land Use and Environmental Services Agency

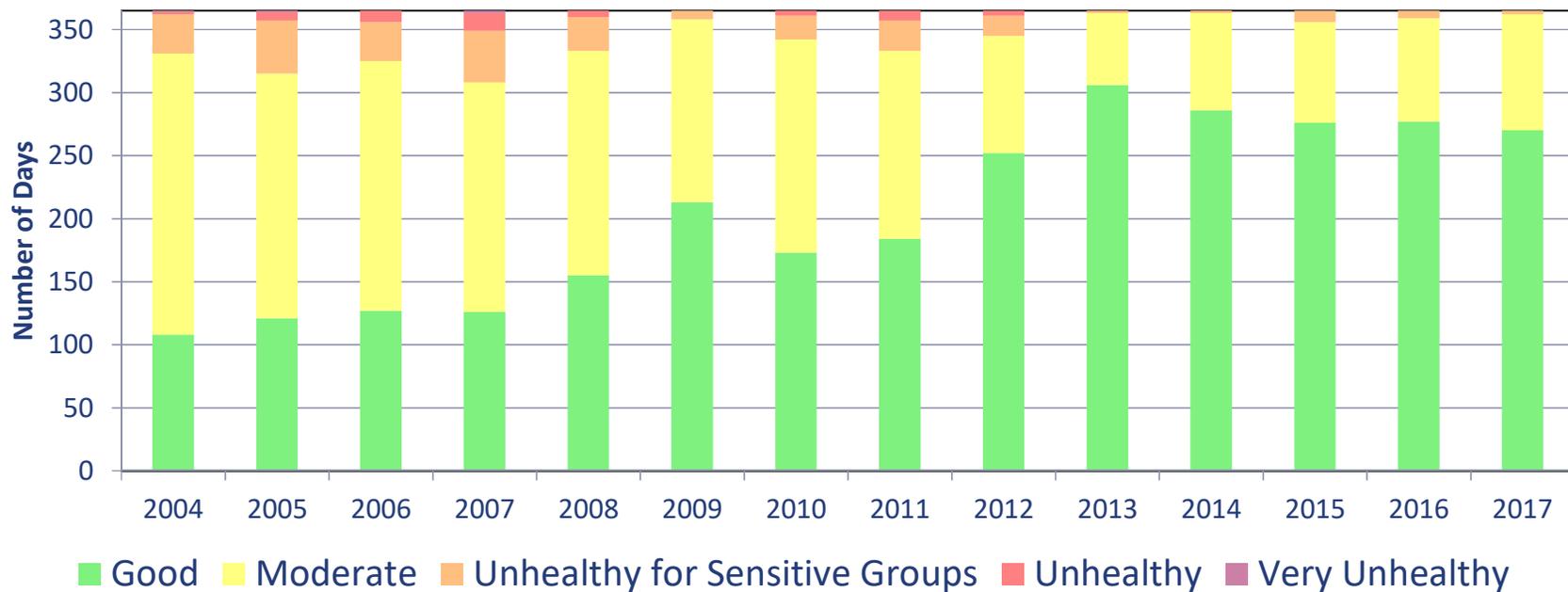
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AIR QUALITY



Good Days Have Doubled Since 2004

Number of Days per Air Quality Index Color by Year
Mecklenburg County, NC



MECKLENBURG COUNTY

AIR QUALITY



MECKLENBURG COUNTY

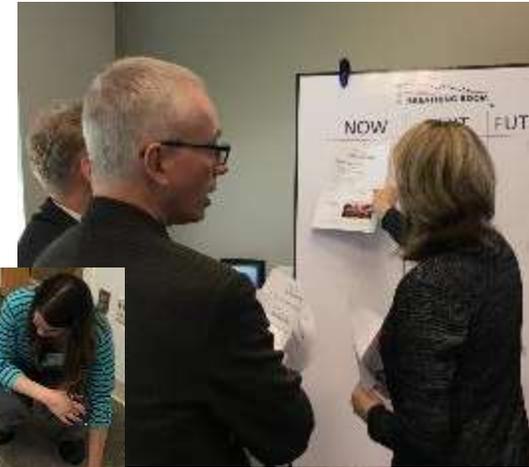
AIR QUALITY

 *You are here!*

Review Past
Feedback

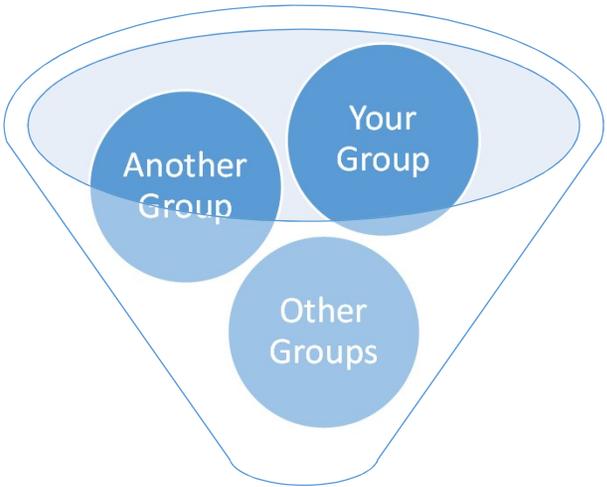
Prioritize Ideas

Create Path
Forward



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Prioritized List of Strategies

Help Us Proritize

BREATHING ROOM

The Idea: Airport Shuttle Electrification

- Replace diesel and gas shuttle buses with electric shuttles at regional airports like Charlotte Douglas International Airport.
- Electric shuttles will have zero tailpipe emissions.

The Action:

- Identify and secure the sites for new electric shuttles and charging infrastructure.
- Work with local airports to create a shuttle replacement schedule that prioritizes the highest emissions shuttles for replacement first.

The Pollution Source: Diesel and Gasoline
The NOx Benefits: 6.48 lbs/day or 187 lbs/year per bus
The Cost-Effectiveness: \$888,000/lb NOx

The Other Benefits:

- VOC - None
- PM₁₀ - Low
- CO₂ - Medium
- Overall emissions will decrease as power grid emissions fall due to renewables or improved technology.

**Assuming \$700,000 per bus*

Cost typically must meet eligibility requirements (i.e. Old car at least 10 years old, failed emissions test, registered with model year 2017 or newer, etc.)



NOW

NEXT

FUTURE

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Existing Program That Will Continue

- Industrial source permitting and compliance assistance
- GRADE (Grants to Replace Aging Diesel Engines)
- Air Awareness education and outreach services
- Smoking vehicle program
- Idle reduction resources

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The Ideas: 15 Ways to Create Breathing Room

Ideas about “Structural” Changes:

1. Complete Streets Policies
2. Greenway Expansion
3. Transit Expansion
4. Zoning: Eliminate Parking Minimums
5. Zoning: EV Charging Infrastructure

The collage features several overlapping documents. The most prominent is a report titled "BREATHING ROOM" with the subtitle "The Idea: Airport Shuttle Electrification". The report includes the following text:

- The Idea: Airport Shuttle Electrification**
- Replace diesel and gas shuttle buses with electric shuttles at regional airports like Charlotte Douglas International Airport.
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The Action:

- Identify and secure to defray the cost of new electric shuttles and charging infrastructure.
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The Pollution Source: Diesel Vehicles

The NOx Benefit: 0.48 lbs/day or 187 lbs/year per bus

The Cost effectiveness: \$400,000/yr NOx¹

The Other Benefits:

- VOC - None
- PM - None
- GHG - Medium
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Below the text is a photograph of an electric shuttle bus at an airport. To the right of the main document is a vertical checklist titled "Checks" with several items, some of which are partially obscured. At the bottom of the collage is a small image showing a person's hands on a steering wheel.

¹ Cuts typically must meet eligibility requirements (e.g. Old car at least 10 years old, listed emissions rate, replaced with model year 2017 or newer, etc.)

The Ideas: 15 Ways to Create Breathing Room

Ideas for Cleaner Fleets:

1. Airport Shuttle Electrification
2. Cash for Clunkers
3. Ground-support Equip. Electrification
4. School Bus Electrification
5. Taxi Electrification

BREATHING ROOM

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The Cost effectiveness:	\$486.94/lb NOx ¹

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- PM - None
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Requiring \$750,000 per bus

¹ Cars typically must meet eligibility requirements (i.e. Old car at least 10 years old, listed emissions rate, replaced with model year 2017 or newer, etc.)

Checks

- Fuel use
- Emissions
- Fuel economy
- Air pollution
- Cost

The Ideas: 15 Ways to Create Breathing Room

Ideas for Greener Energy:

1. Community Solar
2. Energy Audits
3. Property Assessed Clean Energy (PACE)

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Checks

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- Emissions
- Fuel economy
- Air pollution
- Cost

The Ideas: 15 Ways to Create Breathing Room

Ideas for Outreach & Education:

1. Eco-driving Training
2. Gas Cap & Tire Pressure Checks

BREATHING ROOM

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Other car with a
air quality
tailpipe
air pollution
tail

Checks
tail pipe
tail emissions
air pollution
tail

Add Your Own Ideas!

If you think there is an important strategy that is missing, add it!



The Idea:

The Action:

The Pollution Source:

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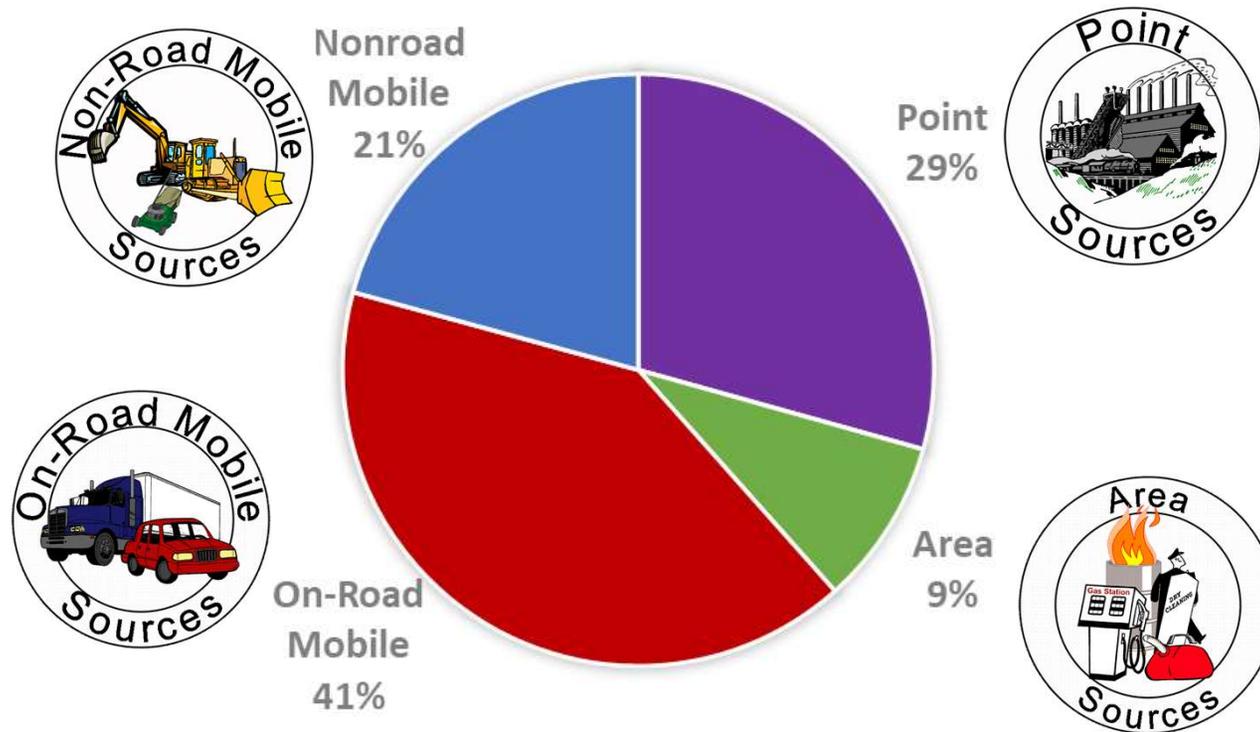
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Ground Rules

- Approach these ideas as concepts, not firm proposals
- Seek common ground, make decisions by consensus
- There isn't a "right answer" or formula for how to prioritize these ideas.
- "Cost-effectiveness" can be compared across most strategies
- Your group has up to **30 minutes** to complete this activity

Sources of Ozone-forming NOx

Charlotte Region, 2018



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Total: 84.69



A CALL TO ACTION

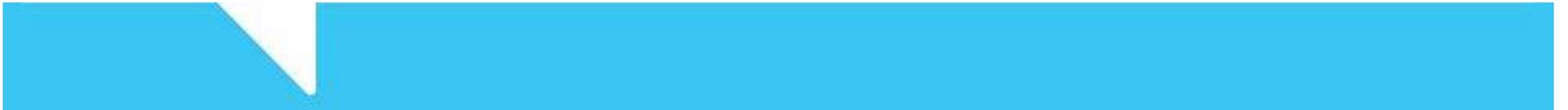


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CALL TO ACTION

TABLE DISCUSSION; COMMITMENT CARD

- As a Partner organization, what will you do this week?
- As a Partner organization, what will you do this year?
- To accomplish your commitments, would you like to collaborate with other Livable Meck Partners? If so, who?
- Are there supports (i.e. engage, facilitate, measure, or communicate) Livable Meck could offer you as you take action?



NEXT STEPS

- ▶ **GET STARTED on your commitments** to address this quality of life issue.
 - ▶ Megan.Green@MecklenburgCountyNC.gov OR AirQuality.MeckNC.gov/BreathingRoom for content specific references and resources
 - ▶ **Complete** the post-café survey via email. Confirm contact information with Dylan Kirk (Dylan.Kirk@mecklenburgcountync.gov)
- ▶ **Follow** Livable Meck on Facebook and Twitter
- ▶ **Take a role** in the “Voice of the Community” in FY19 as Host or Connector. *See Rebecca Herbert for details.*