

#### **MEETING PACKET**

McCloskey Conference Room — City Hall Tuesday, December 9, 2025, 6:00 p.m.

Or virtually at:

https://bloomington.zoom.us/j/84327085962?pwd=nal8LVmKZSoinPUHbXuw3h7oqMyi5g.1

Meeting ID: 843 2708 5962 Passcode: 034238

#### **CONTENTS**

- 1. Agenda
- 2. Minutes: November 18, 2025
- 3. Chair Report
- 4. Climate Action Plan Implementation Update
- 5. Counting Miles: methods for estimating transportation-related GHG emissions
- 6. 2026 Priorities Planning Process



### **NOTICE AND AGENDA**

Tuesday, December 9, 2025, 6:00 p.m. McCloskey Conference Room — City Hall

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Note: Agenda item times are approximate and subject to change

#### Commission on Sustainability Members

<u>Seat</u>	<u>Commissioner</u>	Appointed By	<u>Term</u>
C- 1	Tara Dunderdale	City Council	1 Feb 2025 — 31 Jan 2027
C-2	Justin Vasel	City Council	1 Feb 2025 — 31 Jan 2027
C-3	Matt Austin	City Council	1 Feb 2024 - 31 Jan 2026
C-4	Zero Rose	City Council	1 Feb 2024 — 31 Jan 2026
C-5	Zach Ammerman	City Council	1 Feb 2024 — 31 Jan 2026
C-Ex	Dave Rollo	City Council	Appointed 10 Jan 2024
IU	Quentin Gilly	IU Office of Sustainability	Appointed 21 Nov 2024
MCC	Ross Carlson	Monroe County Commissioners	Appointed 24 Nov 2025
M-1	Alex Jorck	Mayor	1 Feb 2024 - 31 Jan 2026
M-2	Jami Scholl	Mayor	1 Feb 2024 - 31 Jan 2026
M-4	Chenghuai Xu	Mayor	1 Feb 2025 — 31 Jan 2027
M-5	Annalise Janke	Mayor	1 Feb 2024 - 31 Jan 2026
M-6	Diana Ogrodowski	Mayor	1 Feb 2025 — 31 Jan 2027

1. Call to Order 6:00 pm

- 2. Roll Call
- 3. Approval of Agenda
- 4. Approval of Minutes: November 18, 2025

5.	Public Comment	6:05 pm (10m)
	up to 3 minutes per person	

### 6. Reports from Commissioners A. Chair (Justin Vasel) B. Waste Management Working Group (Matt Austin) 6:15 pm (25m) 6:15 pm (15m) 6:30 pm (5m)

В.	waste Management Working Group (Matt Austin)	6:30 pm	(DIII)
C.	Council Ex-Officio (Dave Rollo)	6:35 pm	(5m)

7. C	Di	scussion of Topics Not the Subject of Resolutions	6:40 pm (40m)
	A.	Climate Action Plan Implementation Update (Shawn Miya)	6:40 pm (15m)
	B.	Counting Miles: methods for estimating transportation-related	6:55 pm (15m)
		GHG emissions (Zach Ammerman)	
	C	2026 Priority Planning Process (Justin Vasel)	7:10 pm (10m)

C.	2026 Priority Planning Process (Justin Vasel)	7:10 pm (10m)

8.	Resolutions for Second Reading and Discussion	7:20 pm (0m)
	N/A	

9.	Resolutions for First Reading and Discussion	7:20 pm (0m)
	N/A	

10.	Report from Staff Liaison (Shawn Miya)	7:20 pm (10m)
11.	Member Announcements	7:30 pm (0m)
12.	New Business	7:30 pm (0m)
13.	Adjournment	by 7:30 pm

Next Regular Meeting: January 10, 2026 at 6 pm

As a quorum of the Commission or its committees may be present, this gathering constitutes a meeting under the Indiana Open Door Law (I.C. § 5-14-1.5). For that reason, this statement provides notice that this meeting will occur and is open for the public to attend, observe, and record what transpires.



### **Minutes**

### Tuesday, November 18,2025 6:00pm

### McCloskey Conference Room — City Hall

- 1. Call to Order: Chair called the meeting to order at 6:03 pm
- 2. Roll Call:

#### **Members**

**VACANT** 

Commissioner	Present	Virtual	Note
Tara Dunderdale	$\checkmark$		
Justin Vasel	$\checkmark$		
Matt Austin	$\checkmark$		
Dave Rollo	$\checkmark$		
Quentin Gilly	$\checkmark$		Virtual to start. Arrived 6:10
Alex Jorck	$\checkmark$		6:05
Jami Scholl	$\checkmark$		
Annalise Janke	$\checkmark$		
Diana Ogrodowski	$\checkmark$		
Chenghuai Xu			
Zero Rose			
Evan Nix			
VACANT			



#### **City Staff**

Jolie Perry

Shawn Miya

**Audrey Brittingham** 

#### 3. Approval of Agenda

Diana moved to XXXXXXX. Dave seconded. Motion Passed • with a Roll Call • vote of 9-0-0.

### 4. Approval of Minutes: Jul 8, 2025 and October 14, 2025

ACTION: Justin Moves to approve both sets of minutes. Matt seconded.

With a Roll call vote of 8-0-1

#### 5. Public Comment

Ellee Spier member of the public - addressed the commission to express concern about the grant process for both the commission and ESD grants, they are complicated which is a barrier to access. Asks for reduction in complexity of process and improvement of the guidance documents to make it easier for the public to access them.

Response from ESD staff - city administers a lot of grants and provides support.

#### 6. Reports from Commissioners



A. Chair (Justin Vasel)- org chart is largely unchanged, some turnover expected at the end of terms in January and there is one candidate up for consideration by council.

No working session planned for December.

Annual report is in draft and can be reviewed at the December meeting. Grants will be discussed in the agenda item. The education and outreach grant was withdrawn because the city's legal department decided we can work directly with ESD to purchase supplies rather than through a grant.

Tara and Justin had a meeting with city legal mostly regarding grant, document management issues, documents being added to on-board, and potential on-board updates, and minutes. ESD expressed interest in taking the minutes which requires a bylaw amendment.

There are other bylaw changes the commission has discussed. Open door law requires the documentation of the business decisions.

Chair feels it is best for the commission to own the documentation of full discussion and ESD can document business rules. The municipal code says that BCOS is free to conduct business via our bylaws and a change would require a documentation.

City staff says they would take the minutes and share with the secretary or vice-chair in their stead to provide input. City needs to



retain document ownership of the documentation of the meeting.

City legal interprets the bylaws if the staff does the minutes and collaborates with the secretary would be in compliance with the minutes. Audrey, city legal staff agree. Matt disagreed with legal's interpretation of the bylaws.

Justin shared that the open door law requires a memorandum of business decisions, not a minutes documentation of meeting discussions. Proposed records requests could be addressed to the commission. Shawn said issue is continuity, Audrey said documents are required to be retained in perpetuity. Past timeliness issues were brought up of missing minutes. City wants to retain ownership of business documentation. Alex asked about shared google drive ownership, city staff said that is an IT security issue. Tara shared that city IT removed BCOS access in the past.

Justin asked for clarification on the difference between minutes and any other document like a draft resolution that has not yet been brought before the commission in a business meeting or working session. Main concern of the city is less public records and more timeliness and continuity between commissioners in the secretary or vice-chair role.



- B. Waste Management Working Group (Matt Austin) Richland farm, not located in monroe county but serves the county. They provide residential vegetative food waste composting.
- C. Council Ex-Officio (Dave Rollo) Commercial urban ag ordinance was voted down 8-1. Complicated ordinance, referred to things likes farms, set back, timing, education and employee component. Several reasons why it failed evaluating and prioritizing those components was difficult. The employees and education component could be addressed in code that already covers indoor businesses. There was also significant blowback from people in the community to the ordinance. Suggested this commission and/or city council and planning commission have a co-deliberation session to talk about these points and work through some of the nuance. There is an existing urban ag ordinance that does allow growing.

Tomorrow the council is hearing an ordinance on SROs (single room occupancy) - similar to a boarding house. There are issues related to Tara asks if it was an adjustment of an existing category or a new category - Dave shared it is a new category - replacing the residential rooming house category. It is currently limited to 3 bedrooms in residential areas. It is effectively a pilot to see if it would work.



Matt asked what some of the community concerns are. Tara asked what is the difference with the multiple use student housing that currently allows renting of individual rooms in the meeting. State law prohibits rent caps but the idea is these would be low rent options but that is not enforceable. The hud standards limit the number of adults but not children. Dave suggested members of the commission attend the business meeting tomorrow where it is up for a second reading tomorrow. November 19th.

- 7. Discussion of Topics Not the Subject of Resolutions
  - a. Working Group Grant Application on "Community Food Waste
    Education & Network Development" (bokashi) Matt Austin shared a
    back ground of the original grant idea to work with Taste of
    Bloomington to collect food waste, bring to Will detmer community
    garden, and conduct education sessions. The grant was rejected by
    ESD because of appearance of impropriety because of Matt's
    relationship to the ED of the non-profit facilitating the work.

    Justin shared a timeline of some of the communication October 31
    ESD asked for revisions which Justin made, project lead was
    transferred to Justin, and removed hourly wage costs, then Tara and
    Justin were called into a meeting with the city and told the
    appearance of impropriety was strong enough that legal won't



approve it. Justin agreed those are valid concerns and onesthe commission is invested in. GardenQuest is the only organization in the city offering these services, however Matt is a commissioner creating potential conflict of interest. Justin shared the frustration of not knowing the requirements and the work put into a proposal that was known by the city would not be approved regardless of edits. Agenda item is here for discussion by the commission. Justin has also asked for updates from ESD for the SOP about the grants to make sure commissioners are putting together a proposal that is in compliance.

Quentin asked if there was documentation for all commissions on business rules or ethical guidelines. Justin shared that the city said training and onboarding for all commissioners is in the works and they hope to implement early next year but not clear on the timeline. Matt asked why GardenQuest is different from other neighborhood grants that GardenQuest has been approved of. Feels like the city is not interested in the food waste reduction.

Shawn responded that for sustainable neighborhood grants were for neighbors to collect recyclable items, but that the food waste project included sale of items. Earlier proposal was not reviewed by legal because it was funded by the waste reduction district - legal and



office of the mayor reviewed the new version, and that it is inappropriate for the city to fund a project that includes sale of product. The city is ok with BCOS working with GardenQuest but Matt would have to step down before any funding could be provided. Justin brought up that if the issue was the sale of the buckets was the issue why that was not asked to be removed. Matt said he would consider stepping down to facilitate the work.

Jamie shared that some clearer guidelines or cases studies would be allowed or what would apply or what we would qualify for. Tara brought up that two time she asked city staff about allowable uses of funds and was told that ESD was not staffed to consider the grant ideas and that the department being understaffed is not the responsibility of the commission to do less work. Tara pointed out that commissioners are volunteers and have spent considerable personal time to develop grant proposals that ESD indicated they could not support regardless of when projects were brought to the commission. Diana clarified that it is a lack of good faith in the working relationship between ESD and the commissions.

Quentin asked if there is a workable solution - better clarified SOP or a precedent for sending to council for overriding. City shared the funds are executive branch funds so it wouldn't be a city council



override. Audrey shared that there is a legal statute and the appearance of impropriety issues, and admitted there are city responsibilities to better train and onboard commissioners. Audrey offered herself as a point of contact, Tara pointed out that we have been asked not to contact city staff directly. Audrey said we can email her and cc ESD staff for transparency.

- 8. Resolutions for Second Reading and Discussion
  - a. VOTE: Resolution 2025-04 to recommend incorporating "resilience" to the Commission's name

**ACTION:** Alex moved to adopt resolution 2025-04. Jamie seconded.

Moved to discussion - Justin shared the amendment as a single amended document. Justin recommended procedural approach to adopt.

**ACTION:** Annalise moved to adopt amendment 1. Diana seconded.

Quentin asked if this was changing the scope of our mission. Justin clarified it is changing the name to reflect the existing scope.

There was a discussion to grammatical changes in the first whereas clause - no motion brought.

Discussion of adding additional scope of work to the last whereas clause - clause was not intended as a change in scope of work but a clarification of the commission's work for the public. No motion brought forward.

Quentin asked for clarification of the third whereas clause - Dave shared some historic context around the original creation of BCOS.

Attachment 1 contains draft ordinance text for the council that reflects the amended version with an additional whereas clause that adds reference to the passage of this amendment.

Justin moved to extend to 7:45 - no objections. Annalise had to leave following the vote but there is still quorum.

Action: moved to vote to adopt amendment 1.



Motion Passed with a Roll Call vote of 9-0-0.

Moved to discussion on the resolution. No amendment brought forward to change the name in the resolution.

Motion passes with a roll call vote of 8-0-0 Justin will send the resolution to the council president, city attorney, city clerk, and ESD.

#### 9. Resolutions for First Reading and Discussion

a. n/a

#### 10. Report from Staff Liaison

a. ESD applied for funding for market forming grant - the goal is to bring low cost capital for list of potential products. Coalition for green capital is the funding partner. ESD will provide free technical assistance to organizations to generate the list of projects. Partnering with organization called electrify indiana to do a public outreach campaign. Indiana Energy Independence Fund. Competing with 48 other cities for the investing. There are volunteer needs.

#### 11. Member Announcements

n/a

#### 12. New Business

n/a

#### 13. Adjournment

Matt motioned to adjourn. Jamie seconded.

Adjourned at 7:42.



Next meeting December 9, 2025.



# Chair Report

December 9, 2025

Justin Vasel

## BCOS Organization Chart

### As of December 9, 2025

### **Current State**

- One vacancy
- Current quorum threshold:
   7 / 13

### **Upcoming Term Expirations**

- Terms ending Jan 31, 2026:
   Matt Austin, Zero Rose, Zach
   Ammerman, Alex Jorck, Jami Scholl,
   Annalise Janke
- Reapply to have term extended.

### **BLOOMINGTON** City Staff **COMMISSION ON** Shawn Miya (Liaison) **SUSTAINABILITY Jolie Perry Commissioners Executive Committee** Chair Council **Ex-Officio** Mayoral **Justin Vasel Appointments Appointments Appointments** Vice Chair City Council C-1 **Tara Dunderdale Tara Dunderdale Dave Rollo Alex Jorck** Monroe County Secretary Commissioners **Zero Rose Ross Carlson** IU Sustainability Jami Scholl **Justin Vasel Quentin Gilly Treasurer** M-3 **Matt Austin Matt Austin** Vacant (1 week) Chenghuai Xu Zero Rose **Annalise Janke Zach Ammermar** M-6 **Diana Ogrodowski**

### **Farewells**

Evan Nix (Aug 2024 – Nov 2025)

### Welcomes

- Zach Ammerman (Council, C-5)
- Ross Carlson (Monroe County Commissioners)

## 2026 BCOS Meeting Schedule

### **Work Sessions are tentative**

Date	Meeting Type	Notes
January 13, 2026	Regular Meeting	
January 27, 2026	Work Session	Tentative
February 10, 2026	Regular Meeting	
February 24, 2026	Work Session	Tentative
March 10, 2026	Regular Meeting	Officer Elections
March 24, 2026	Work Session	Tentative
April 14, 2026	Regular Meeting	
April 28, 2026	Work Session	Tentative
May 12, 2026	Regular Meeting	
May 26, 2026	Work Session	Tentative
June 9, 2026	Regular Meeting	
June 23, 2026	Work Session	Tentative
July 14, 2026	Regular Meeting	
July 28, 2026	Work Session	Tentative
August 11, 2026	Regular Meeting	
August 25, 2026	Work Session	Tentative
September 8, 2026	Regular Meeting	
September 22, 2026	Work Session	Tentative
October 13, 2026	Regular Meeting	
October 27, 2026	Work Session	Tentative
November 10, 2026	Regular Meeting	Deadline: Working Group Grant approvals
November 17, 2026	Work Session	Tentative
December 8, 2026	Regular Meeting	

## News & Updates

### From the Commission and beyond

### **Ongoing / Recent**

- BCOS Resolution 2025-04 (Name Change)
  - <u>Transmitted</u> to Council President Stosberg (see packet)
  - Suggestion that formal ordinance be prepared by Committee on Council Processes (Title 2 overhaul in 2026)
- BCOS Resolution 2025-01 (Poultry Flock Sizing) need to follow up
- 2025 Annual Report targeting Jan 13 discussion, Feb 10 approval
- Bloomington Energy Works
  - BCOS has agreed to support this initiative
  - Kick-off webinar: December 10 at 12pm (RSVP here)
  - Program includes free energy audits for owners of large commercial/nonprofit/ academic buildings and access to low-cost capital for upgrades
- Local Food Resilience Strategy: will continue to refine in 2026
- Sustainable Neighborhood Grant project reports (2024)
  - Grandview Hills Pollinator Gardens January?
  - TerraCycle 2.0 February?
- Sustainability Assessment Report scope has changed; may dissolve ad-hoc committee and draft new report at Commission level
- Sustainability Forums: more on the way
- MCPL hours change Only open until 7pm on Tuesday; may need new location for work sessions

### **Upcoming**

- 2026 Priority Planning Process January
- Officer elections March; will discuss format at January meeting
- BCOS Commissioner Handbook targeting a draft in February
- Bylaws Reform first half of 2026
- Resolution 2026-01 to applaud Mayor/Council for supporting local food banks during government shutdown — first reading Jan, second reading Feb
- Sustainable Energy Utility Feasibility Study (O'Neill Capstone)

### **Around the City**

- OOTM Report: "Homelessness Response & Housing Investment"
- Council considered <u>a letter</u> that encouraged a "sustained Bloomington food resilience effort" (Nov 5)

### **Tracking**

- 2027 City Budget
  - Council deliberative meeting to discuss outcome-based budgeting and priorities — Dec 10
- 2026 UDO Revision Process
- Hopewell Development
- Summit District

## BCOS Wrapped 2025

### Thank You for a Great Year!

### **Our Successes**

- Resolutions, resolutions, resolutions!
  - 2025-01: To Adapt a Scalable Poultry Size Model
  - 2025-02: To Increase Allocation for Urban Forestry in the 2026 City Budget
  - 2025-03: To Recommend Clear Definitions for Urban Agriculture and Associated Business Structures
  - 2025-04: To Change the Name of BCOS to the "Bloomington Commission on Sustainability and Resilience"
- Attended Earth Day 2025
- Hosted the first Sustainability Forum
- Drafted a local food resilience strategy
- Progress on the first sustainability assessment report since 2017
- Developed IU O'Neill School capstone project on sustainable energy utilities
- BCOS turned 20 years old!
  - Either in May or October, depending on how you count...

### **Honorable Mentions**

- Cob Bench Project
- Bokashi Festival Pilot
- Downtown Pollinator Garden

### **Thank you Commissioners!**

- Tara Dunderdale
- Matt Austin
- Zero Rose
- Jon Eldon
- Zach Ammerman
- Dave Rollo

- Quentin Gilly
- Hunter Hawley
- Alex Jorck
- Jami Scholl
- Evan Nix
- Chenghuai Xu

- Annalise Janke
- David Maenner
- Diana Ogrodowski
- Andrew Guenther
- Ross Carlson

### Thank you Staff!

- Shawn Miya
- Jolie Perry
- Jane Kupersmith
- - Audrey Brittingham
  - Margie Rice
  - Julius Mitchell



## Resources

### **For Commissioners**

- Websites
  - BCOS Homepage
  - BCOS OnBoard page
- Commission Documents
  - BCOS 2024 Annual Report
  - BCOS Bylaws
  - BCOS SOPs
- Working Group Grants
  - Standard Operating Procedure (SOP)
  - Application Template

### Templates

BCOS Resolution Template

### Bloomington Policy Documents

- Municipal Code (BMC)
- Climate Action Plan (CAP)
- Comprehensive Plan
- Unified Developer Ordinance (UDO)

## Climate Action Plan Implementation Update

City of Bloomington

Economic and Sustainable Development Department

Shawn Miya, MPH Assistant Director of Sustainability December 2025



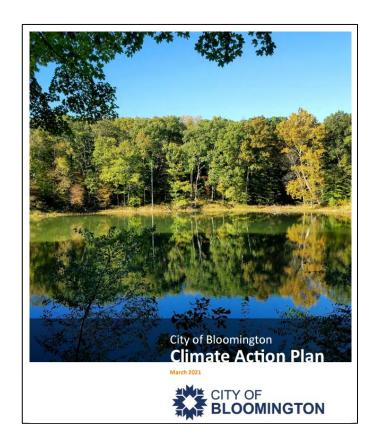


### **2021 Climate Action Plan**

Goals are to reduce Bloomington community greenhouse gas emissions 25% below 2018 emission levels by 2030 and achieve carbon neutrality by 2050

Climate action goals are divided into 8 Sectors:

- Transportation & Land Use
- Energy & Built Environment
- Waste Management
- Water & Wastewater
- Local Food & Agriculture
- Health and Safety
- Greenspace and Ecosystem
- Climate Economy



### Renewable Energy

Energy & the Built Environment

Strategy EB 1-A: Increase solar on City facilities 20% by 2030.

Goal EB 1: Increase distributed renewable energy to 250,000 MWH of total generation annually by 2030.









### 38 Municipal Solar Power System Installations



- ★ Total production to date 2.26 Gigawatts
- ★ ESG Kiosk publicly available solar production website
- ★ Veregy hired for solar Operation & Maintenance (O&M)
- ★ Monitors solar production with online dashboard called PowerTrack
- ★ Replaces any broken panels, inverters, and optimizers
- ★ Fixes wiring issues as needed



- ★ Grants for small businesses and nonprofits
- ★ Solar system up to max \$25,000
- ★ Battery Energy Storage System up to max \$20,000 (nonprofits who provide essential services only)
- ★ Issued RFP in 2025
- ★ Contract with Solar Energy Solutions



**Bloom Magazine** 

### Since August 2024

### Completed 11 solar installations

- ★ Bloom Magazine
- ★ The Juan Sells Realty Co.
- ★ Walnut Builders LLC
- ★ Associated Vitreoretinal& Uveitis Consultants
- ★ Royal South Toyota
- **★** Stone Belt

- ★ BloomingtonDevelopmentalLearning Center
- ★ First Presbyterian Church
- ★ Russian Recording LLC
- **★** Amethyst House
- ★ Community Kitchen Express





Walnut Builders, LLC

Approved an additional 6 installations to be completed by early 2026

- ★ Boys & Girls Club of Bloomington
- ★ The Language Conservancy
- ★ New Hope for Families
- ★ Walnut Builders, LLC
- **★** Stone Belt
- ★ Mother Hubbard's Cupboard includes a battery energy storage system

### Low Income Housing Solar Grants





#### 2024

★ Grant to Bloomington Housing Authority (BHA) to install solar on 6 buildings at Crestmont

#### 2025

★ Anticipate grant agreement with BHA by end of 2025 for additional buildings at Crestmont and Early Learning Center to be completed in 2026

### **Energy Efficiency**

Energy & the Built Environment

Goal EB 2 Increase energy efficiency citywide 16% for electricity and 12% for natural gas of 2018 values.

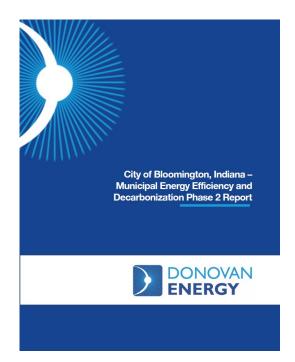
Goal EB 5: Increase financing options for Energy Efficiency and Renewable Energy projects citywide.







### Donovan Energy: Municipal Energy Efficiency & Decarbonization Consulting Services



- ★ 2025 Completed Energy Assessment Report
- ★ Evaluated 32 municipal buildings
- ★ Determined Energy Use Index (EUI) for each building across municipal portfolio

### Donovan Energy: Municipal Energy Efficiency & Decarbonization Services







### 2025 Completed Level 2 ASHRAE Energy Audits at 9 buildings:

- Animal Shelter
- Sanitation Building
- Fire Station #4
- Fire Station #5
- Allison Jukebox Community Center
- Banneker Community Center
- Switchyard Park Maintenance Building
- Rose Hill Cemetery Office & Maintenance Shop
- Frank Southern Ice Rink



### Recommended Energy Conservation Measures (ECMs)

★ LED Lighting Upgrades



★ Install High Volume Low Speed (HVLS) Fan



★ Seal Roof Penetrations



★ Replace Roof Insulation



- ★ Replace Cooling Units and Furnaces with High Efficiency Heat Pumps
- ★ Install Rooftop Solar
- ★ Program Thermostats for Evening HVAC Setbacks in Unoccupied Buildings

### Recommended Energy Conservation Measures (ECMs)



### LED Lighting Upgrades by City Staff

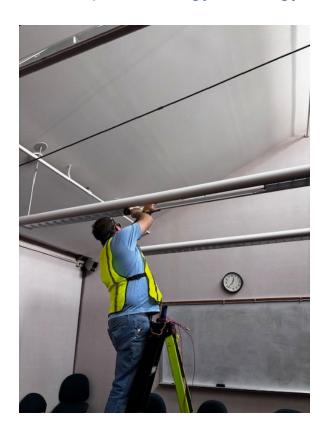
- 1. Allison Jukebox
- 2. Switchyard Park Maintenance Building

### LED Lighting Upgrades by Contractor

- 1. Animal Shelter
- 2. Sanitation Building
- 3. Banneker Center
- 4. Fire Station 4
- 5. Fire Station 5

- ★ ESD issued RFP and selected Cassady Electric
- ★ Will be completed by end of 2025

### US Dept. of Energy's Energy Efficiency and Conservation Block Grant (EECBG)



- ★ \$141,000 voucher awarded
- ★ Approved City Hall LED lighting retrofit project
- ★ Project completed in 2025
- ★ Requesting reimbursement from DOE
- ★ 67% estimated annual energy savings

### Indiana Office of Energy Development Empowering Energy Partnerships in Indiana Communities (EPIC) Grant



- ★ Awarded \$508,000 grant with minimum 20% City match+ \$213,316
- ★ Upgrade HVAC
- ★ Install solar system
- **★** Battery Energy Storage System (BESS)
- ★ DNR Historic Preservation Department Approval
- ★ BFD Required Structural Engineering Verification Complete
- ★ Schematic Design Phase
- ★ Estimated project completion October 2026



Nonprofits and small businesses can receive a free energy audit and \$10,000 grant for energy efficiency projects:

- **★** LED lighting
- ★ heat pump HVAC system
- ★ ductwork replacement
- **★** insulation
- ★ windows
- ★ doors
- ★ cool roof (new in 2025)

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#### Solar, Energy Efficiency, and Lighting Program



WonderLab - cool roof membrane

#### Since August 2024

- ★ IFF completed 8 energy audits
- ★ Grant recipients completed 8 upgrades:
  - WonderLab
  - Tandem Community Birth Center & Postpartum House
  - Monroe County History Center
  - Timel LLC (Gallery Mortgage location)
  - o Indiana Recovery Alliance
  - St. Thomas Lutheran Church
  - Unitarian Universalist Church
  - Covenant Christian Early Learning Place

#### Solar, Energy Efficiency, and Lighting Program



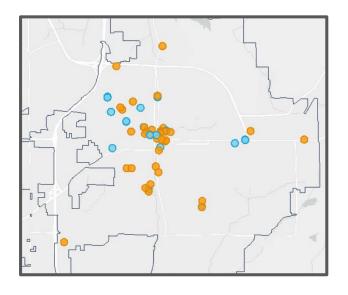
Unitarian Universalist - EnergyStar windows

#### **3 approved projects** anticipated to be completed by early 2026

- ★ Bloomington Cooperative Living
- ★ Bethel AME Church
- ★ Second Baptist Church



#### Solar, Energy Efficiency, and Lighting Program



★ Over \$1M provided to date in SEEL grants

★ ITS helped to create a <u>SEEL Grants Map</u> available on City of Bloomington GeoHub

#### Bloomington Green Home Improvement Program



★ Rebates for Bloomington homeowners

★ Revised program in 2025, continuing in 2026



★ No longer requires loan with specific bank

★ Rebate covers 25% of the installation, or 40% for low income residents, up to a maximum amount depending on the project type



#### Bloomington Green Home Improvement Program





★ Can be combined with utility rebates and federal tax credits

★ Equipment required to be EnergyStar certified or equivalent energy efficiency standard

★ Rebates approved for **34** recipients in 2025

#### Bloomington Green Home Improvement Program





#### 2025 Approved Project Rebates:

- ★ 4 solar
- ★ 8 battery
- ★ 11 combined solar plus battery
- ★ 2 electric vehicle chargers + panel upgrades
- ★ 3 air conditioners
- ★ 2 heat pumps
- ★ 3 window projects
- ★ 1 exterior door





#### **Bloomington Energy Works**

#### **Energy That Works for Everyone**

- ★ City's new program to promote energy efficiency and renewable energy across the city
- ★ Goal is to bring low cost capital to Bloomington for project implementation
- ★ Awarded \$250,000 grant by the Coalition for Green Capital and ICLEI USA
- ★ Program partner Indiana Energy Independence Fund



#### **Bloomington Energy Works**

#### **Energy That Works for Everyone**

- ★ Free energy audits for any commercial, manufacturing, and nonprofit building owner to develop list of energy efficiency and solar projects in need of funding worth at least \$50M
- ★ Create a robust public private partnership plan due March 15, 2026
- ★ Volunteer community engagement program with door to door campaign & group presentations
- ★ Competing with 48 other cities across the country
- ★ 1st Webinar in December!

#### **Climate Resilience**

Health & Safety

Goal HS 1 Educate, engage, and empower the public for climate health and safety.

Goal HS 2 Prepare Bloomington for climate risks and impacts.

Goal HS 3 Respond to climate risks and impacts.





Photo by Rich Janzaruk







#### **Cool Corridors**

- ★ Canopy Bloomington grant agreement
- ★ Planted trees in BHA Crestmont in 2025
- ★ Will plant trees in BHA Walnut Woods in 2026

#### **Tree Assistance Program**

★ Helps provide funding to remove hazardous limbs or trees for low to moderate income homeowners

#### **Bus Stop Shelter Installations**

★ ESD will install 6 bus stop shelters by early 2026



- ★ Stay Cool Bloomington Days at City Pools: 15,077 free admissions
- ★ AC Distribution Program: 28 applications; 8 installations
- ★ Stay Cool Bloomington Cool Kits: 400 distributed

#### **Food Security Grants**

**Hoosier Hills Food Bank - \$34,950** 

To purchase and distribute locally grown food

Mother Hubbard's Cupboard - \$34,000

To support garden program

#### **Waste Management Grant**

w/ Waste Reduction District of Monroe County

- \$25,000 matching funds since 2023
- 1 Sustainable Joe Created and managed multi-family housing compost projects









#### **July 2025**

★ Steering Committee approved Bylaws and Organizational Structure

#### September 2025

- ★ Steering Committee approved Advisory Committee Memberships for:
  - Cummins Inc. (\$10,000 annual membership)
  - Electron Charger (\$10,000 annual membership)
  - Sierra Club Winding Waters Group (\$1,000 annual membership)
  - IU Environmental Resilience Institute (In-kind support)



New Website!

#### **Community Engagement**









**Bloomington Community Orchard** 



Weed Wrangle at the Rail Trail

#### **Zero in Bloomington**

sustainability action platform online

#### Since August 2024

- ★ 266 new users registered total is now 708
- ★ Sustainable actions taken: 543

#### **Spring into Sustainability March 1 - 31, 2025**

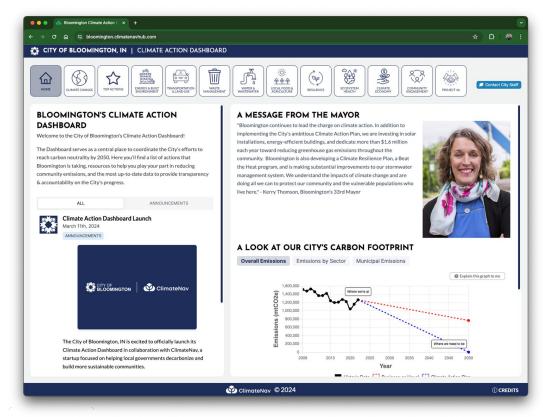
★ 10 community groups competed to complete the most climate-friendly lifestyle choices/actions

#### **Sustainability Spooktacular Oct 1 - 31, 2025**

★ Mobilized 69 residents to volunteer for environmental cause or join an educational workshop

### Climate Action Plan Dashboard

- ★ Designed in collaboration between the City of Bloomington and ClimateNav
- ★ Annual GHG Inventory
- ★ Climate actions & incentives





bloomington.climatenavhub.com

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### THANK YOU.

Questions?

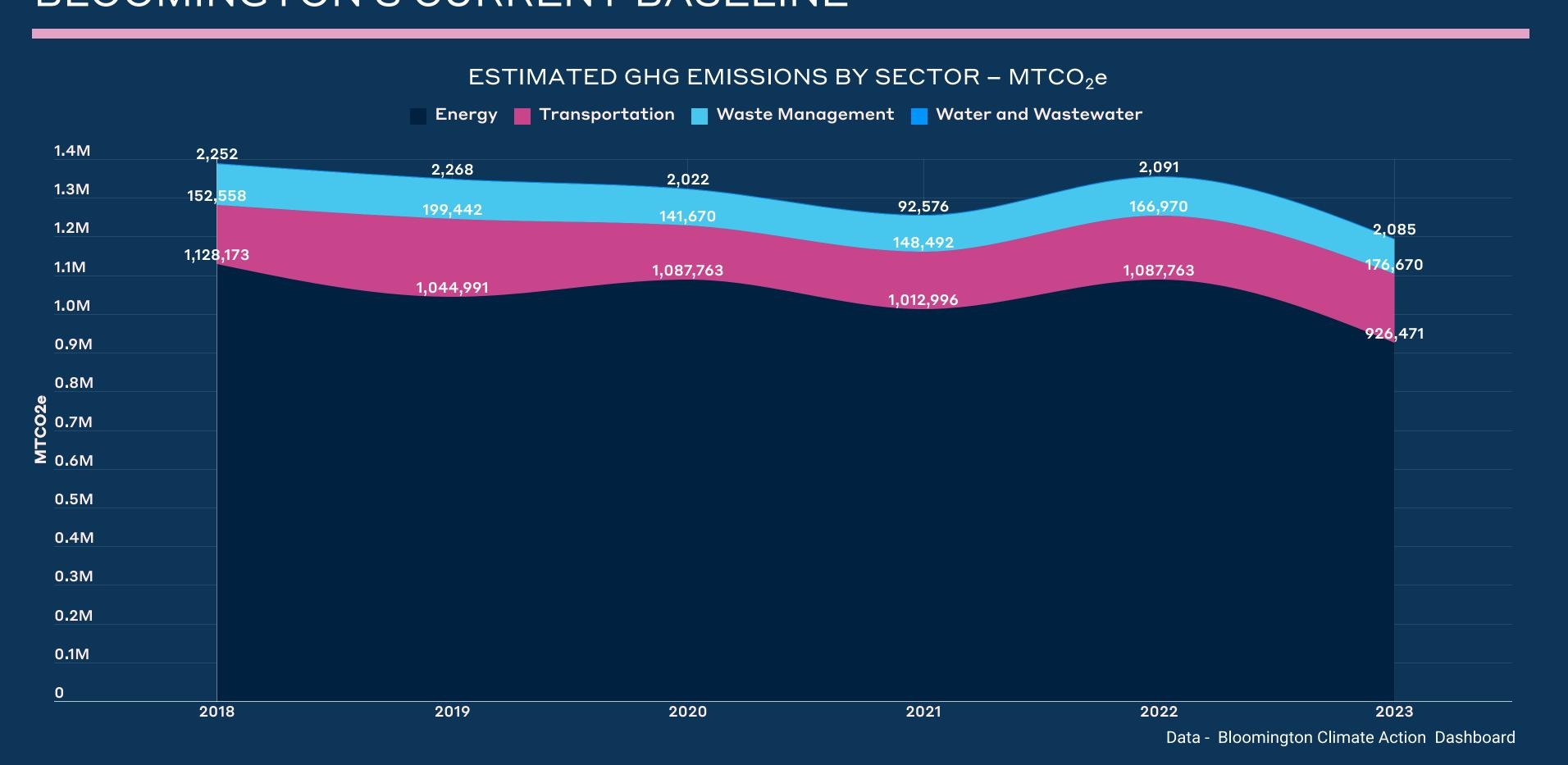




# Counting Miles

Methods of Measuring Greenhouse Gas Emissions from Transportation and its Impact on Bloomington's Climate Baseline

# Greenhouse Gas Emissions from Transportation BLOOMINGTON'S CURRENT BASELINE



DIFFERENT METHODS OF CALCULATION

#### **IN-BOUNDARY VMT ONLY**

CITY OF BLOOMINGTON CURRENT SYSTEM

# CITY LIMITS COUNTS TOWARD VMT

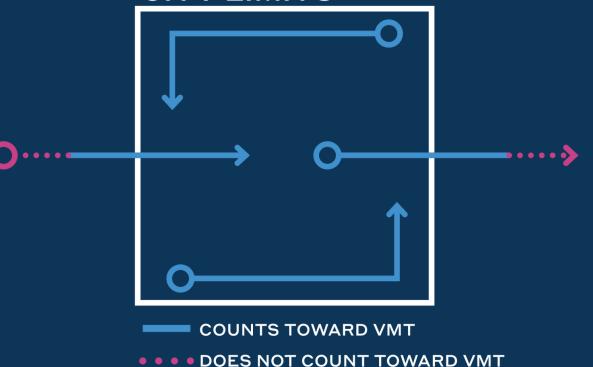
Only trips within city limits are counted

DOES NOT COUNT TOWARD VMT

#### **GPC PROTOCOL**

Induced traffic model
GREENHOUSE GAS PROTOCOL FOR
CITIES INDUCED TRAFFIC COMPLIANT

#### **CITY LIMITS**



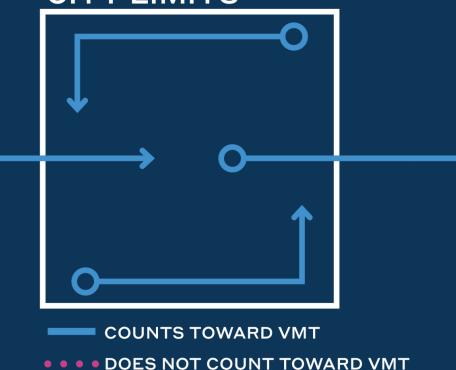
(SIMPLIFIED DIAGRAM)

100% of In-boundary and 50% of transboundary trips counted, pass-through trips excluded

#### **FULL VMT**

FOR INFORMATION

#### CITY LIMITS

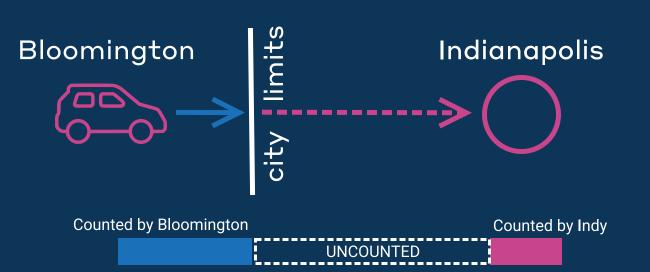


Total trip is counted for all vehicles starting or ending their trip within the city

#### DIFFERENT METHODS OF CALCULATION

Example: Someone who commutes every day to Indianapolis (roughly 13% of Bloomington's workforce)

#### **IN-BOUNDARY VMT ONLY**

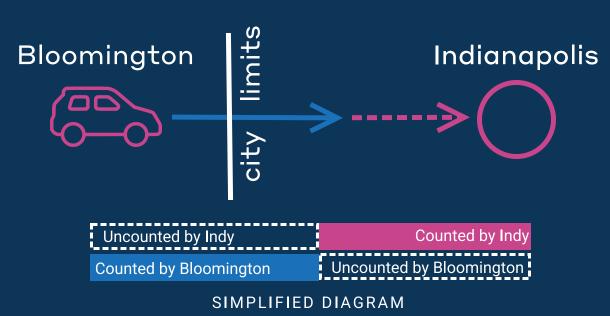


Only the portion within Bloomington is counted

Significant portion of the trip is uncounted by either city

#### **GPC PROTOCOL**

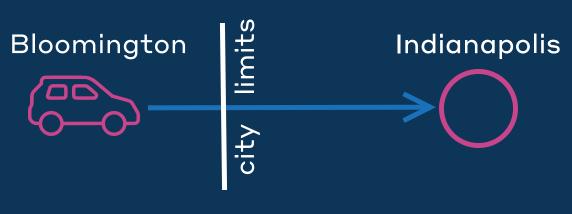
Induced traffic model



In-boundary trips and 50% of transboundary trips counted

Less of the trip is uncounted or double-counted, accounts for traffic induced by the city

#### **FULL VMT**



Counted by Bloomington

ENTIRE TRIP DOUBLE-COUNTED

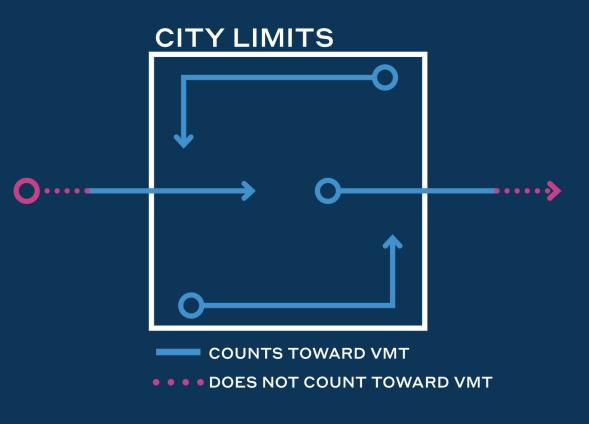
The entire trip is counted 100% by both Bloomington and Indy

The entire trip is counted by both cities

WHAT IS THE GPC PROTOCOL?

#### **GPC PROTOCOL**

GREENHOUSE GAS
PROTOCOL FOR CITIES
INDUCED ACTIVITY
COMPLIANT



100% of In-boundary and 50% of transboundary trips counted, pass-through trips excluded



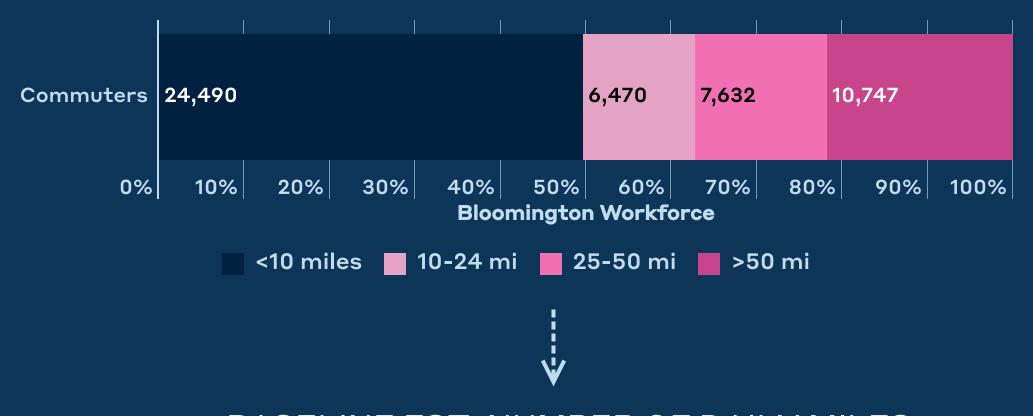
- Developed by WRI, C40 Cities, and ICLEI
- Released in 2014, updated since
- Gold standard for municipal greenhouse inventories, adoption by municipalities is growing
- Standardizes inventories for easier apples-to-apples comparisons

The GPC includes two reporting levels, BASIC and the more robust BASIC+. BASIC+ calls for accounting for emissions <u>induced by the city</u> in addition to direct emissions that occur within the city. Our current transportation inventory does not meet this requirement for on-road transportation, but does for all other categories in all other sectors (except railways - a very small sector). This compounds the undercounting issue.

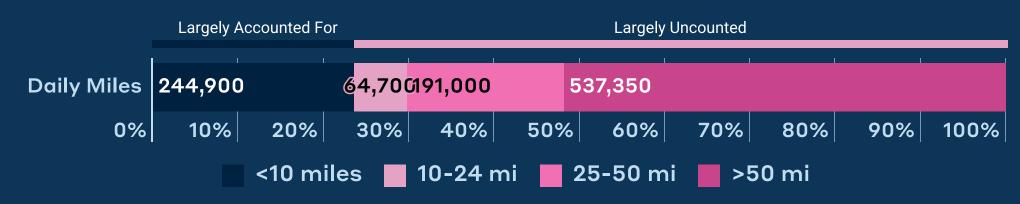
#### ESTIMATING SCALE OF INDUCED TRAFFIC FROM COMMUTE DATA

More than 1 out of 5 workers in Bloomington commute more than 50 miles to their job every day (the highest rate in the state among Ind.'s 10 largest cities). Less than half commute under 10 miles.

#### BLOOMINGTON RESIDENTS BY COMMUTE DISTANCE



#### BASELINE EST. NUMBER OF DAILY MILES



### BLOOMINGTON COMMUTE INFLOWS AND OUTFLOWS



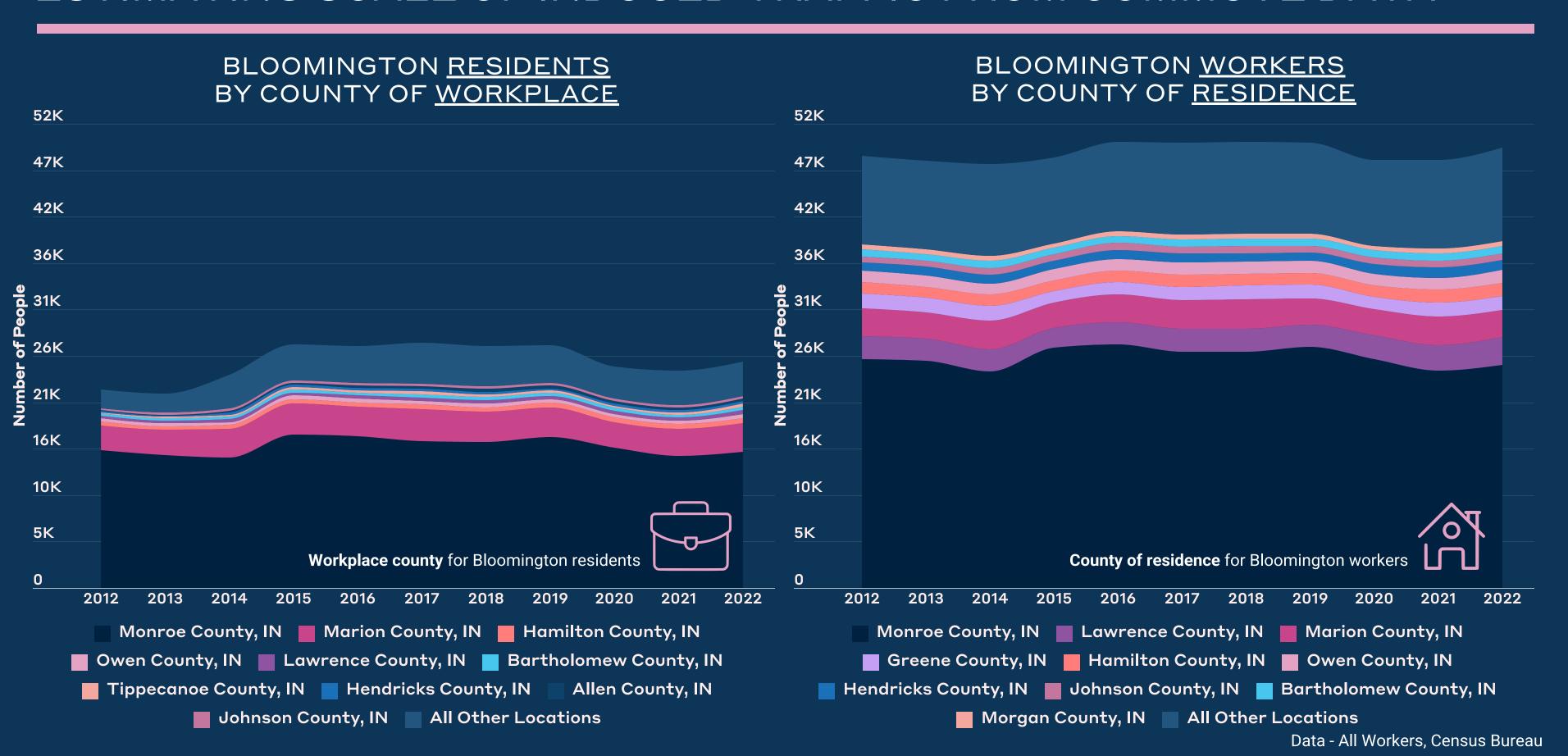
**Live and Commute Inside** 

Live Inside, Commute Out

Live Outside, Commute In

According to the
Census Bureau, in
2022, around 80%
of commuters in
the city's workforce
either live outside
of Bloomington and
commute into the
city or live inside of
Bloomington and
commute out.
These miles mostly
aren't being
counted under
current methods.

ESTIMATING SCALE OF INDUCED TRAFFIC FROM COMMUTE DATA

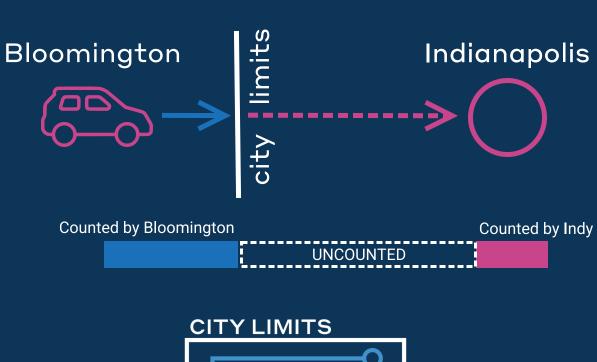


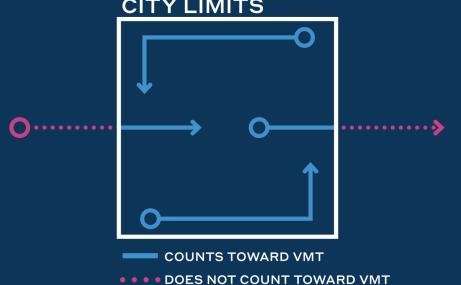
#### ESTIMATING SCALE OF INDUCED TRAFFIC FROM COMMUTE DATA

#### REMINDER

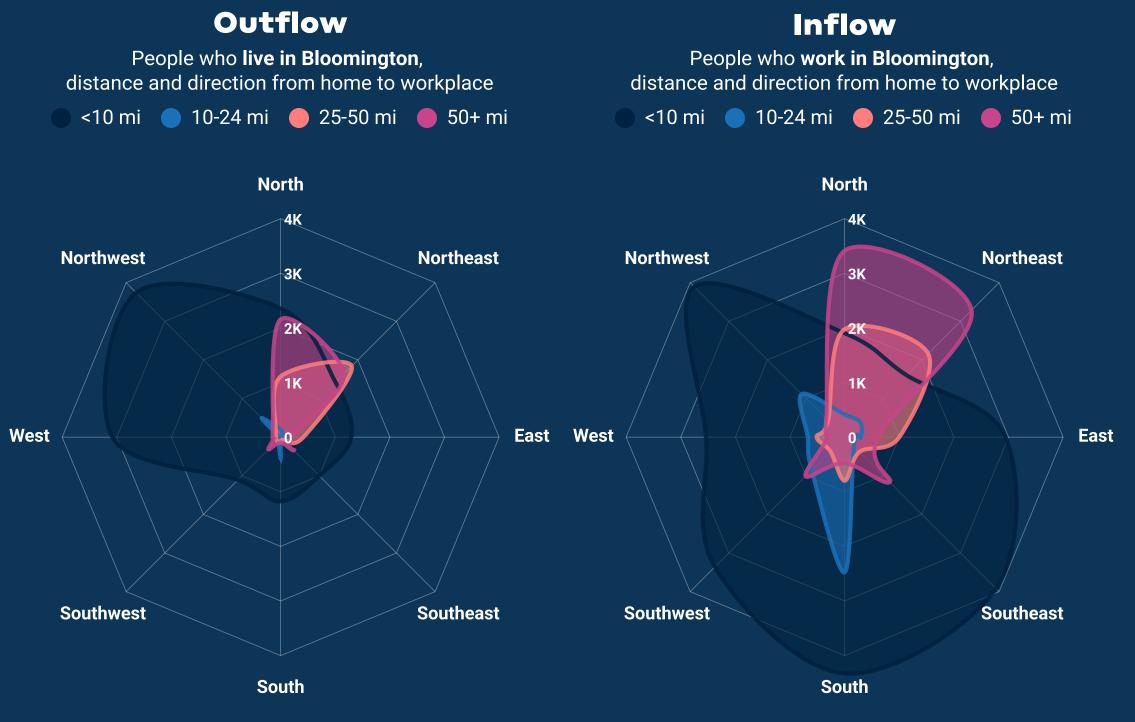
#### **IN-BOUNDARY VMT ONLY**

CITY OF BLOOMINGTON CURRENT SYSTEM





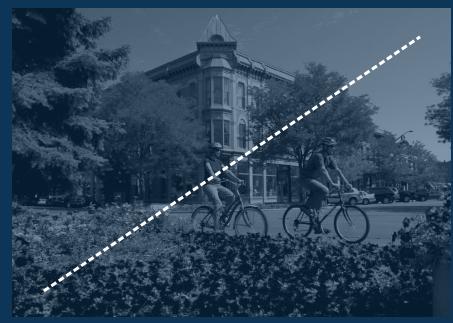
#### COMMUTE DIRECTION AND DISTANCE FROM WORKPLACE



HOW PEER CITIES MEASURE VMT FOR GHG INVENTORIES



BOULDER, CO
GPC Induced Traffic
In- and transboundary



FORT COLLINS, CO Unclear



ANN ARBOR, MI
GPC Induced Traffic
In- and transboundary



**BLOOMINGTON**In-boundary only



LAWRENCE, KS

GPC Induced Traffic
In- and transboundary



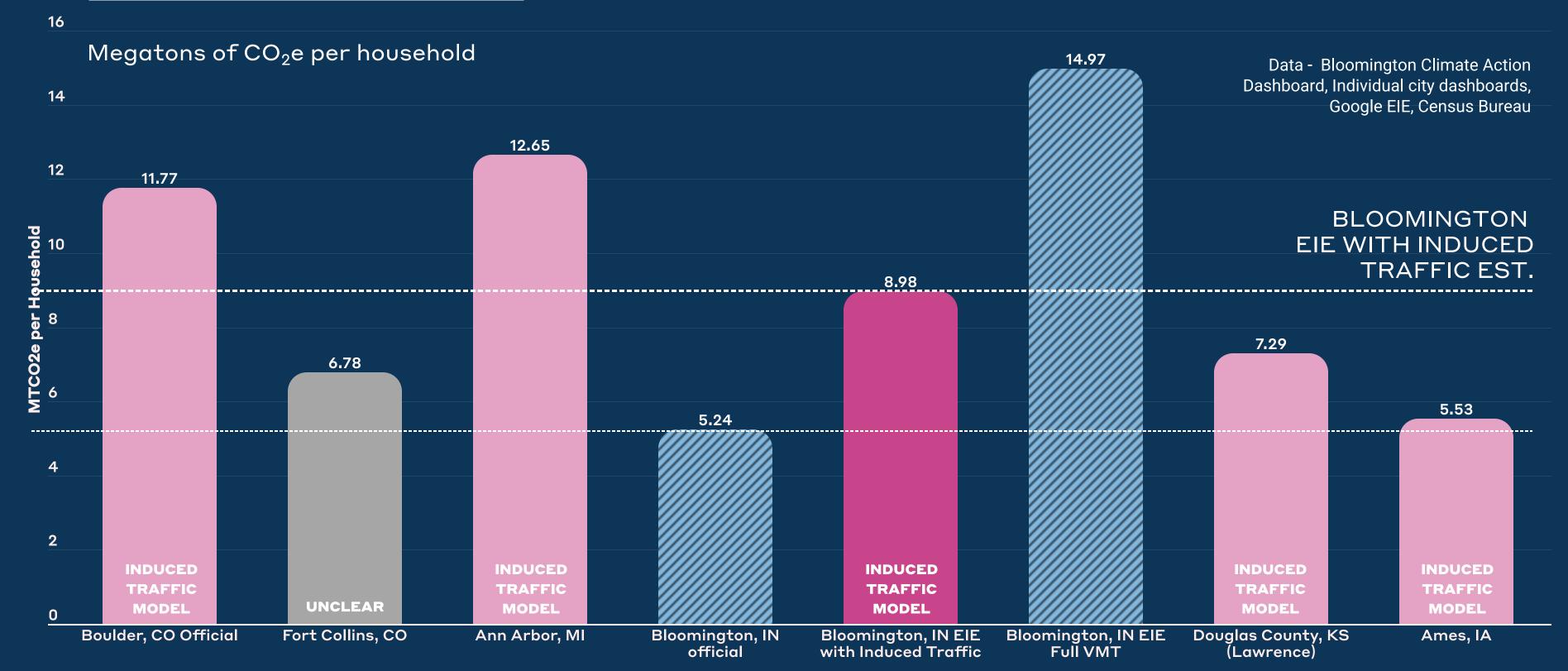
AMES, IA

GPC Induced Traffic
In- and transboundary

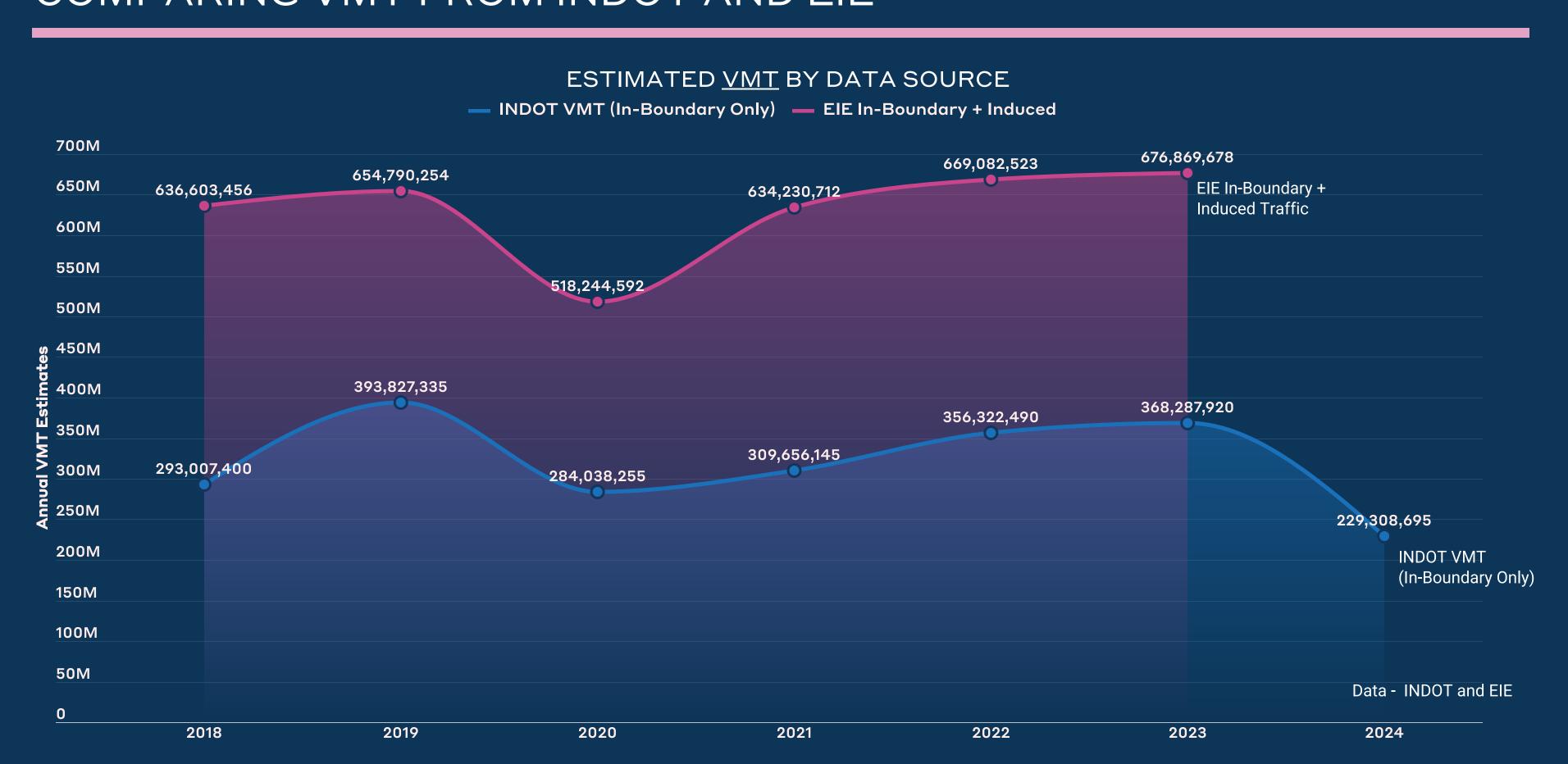
Location	Method Used	Year
Boulder, CO	In- and Transboundary	2021
Fort Collins, CO	Unclear	2023
Ann Arbor, MI	In- and Transboundary	2023
Bloomington, IN official	VMT in-boundary only	2023
Douglas County, KS (Lawrence)	In- and Transboundary	2021
Ames, IA	In- and Transboundary	2021

## Greenhouse Gas Emissions from Transportation COMPARING TO PEER CITIES

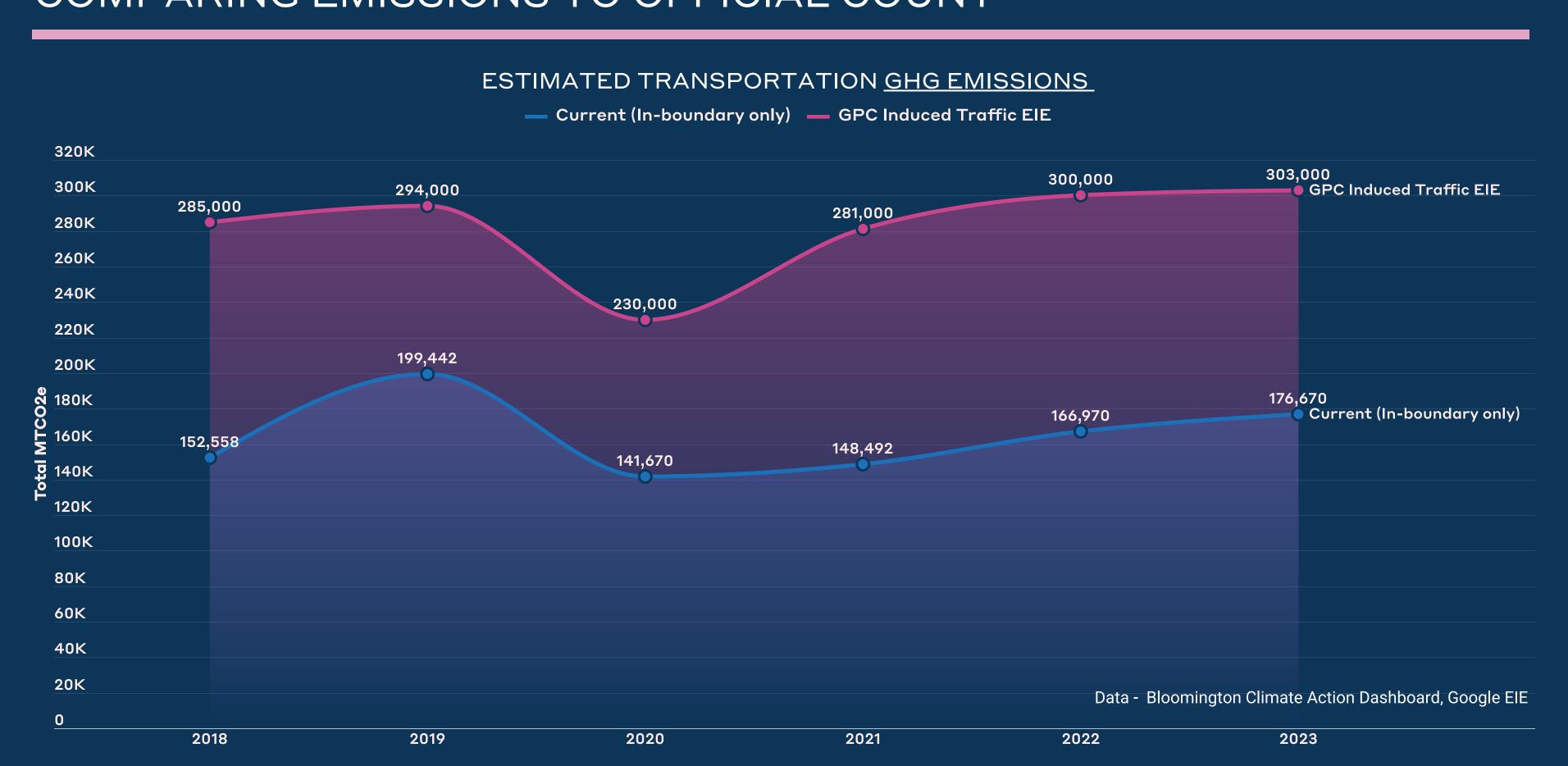
GHG EMISSIONS PER HOUSEHOLD FROM TRANSPORTATION FOR BLOOMINGTON AND SELECTED PEER CITIES



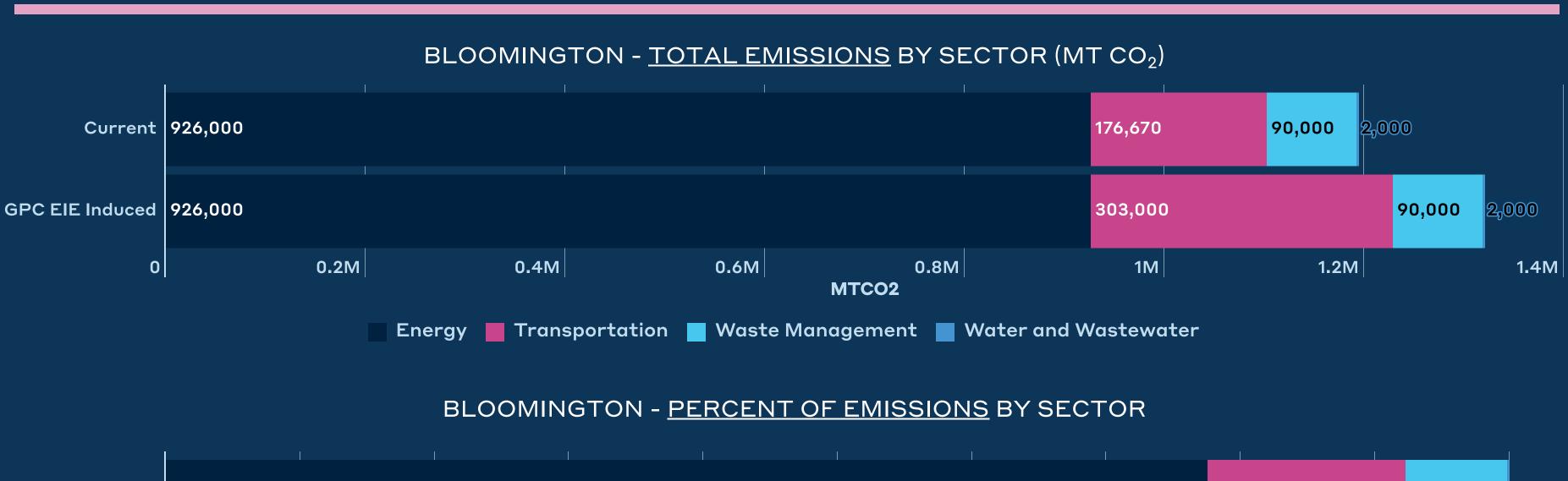
# Greenhouse Gas Emissions from Transportation COMPARING VMT FROM INDOT AND EIE

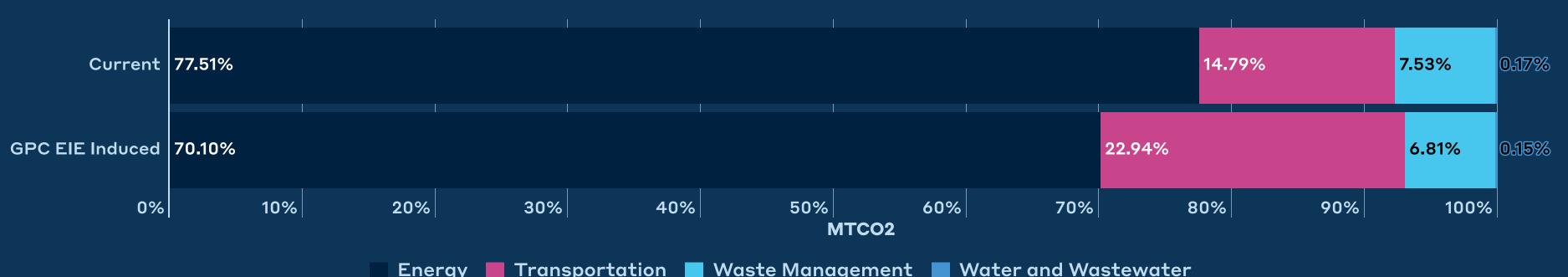


# Greenhouse Gas Emissions from Transportation COMPARING EMISSIONS TO OFFICIAL COUNT



DIFFERENCE IN INVENTORIED EMISSIONS BY VMT METHOD





#### DATA SOURCES AND THEIR ISSUES

The data to calculate GPC-Compliant Induced Traffic VMT for Bloomington is now freely available and accessible by anyone on Google's **Environmental Insights Explorer (EIE)** with no barriers to access

EIE uses real-time data from Google Maps users to estimate VMT with an algorithm, EIE's dataset is massive and dramatically more granular in comparison to most public data sources.

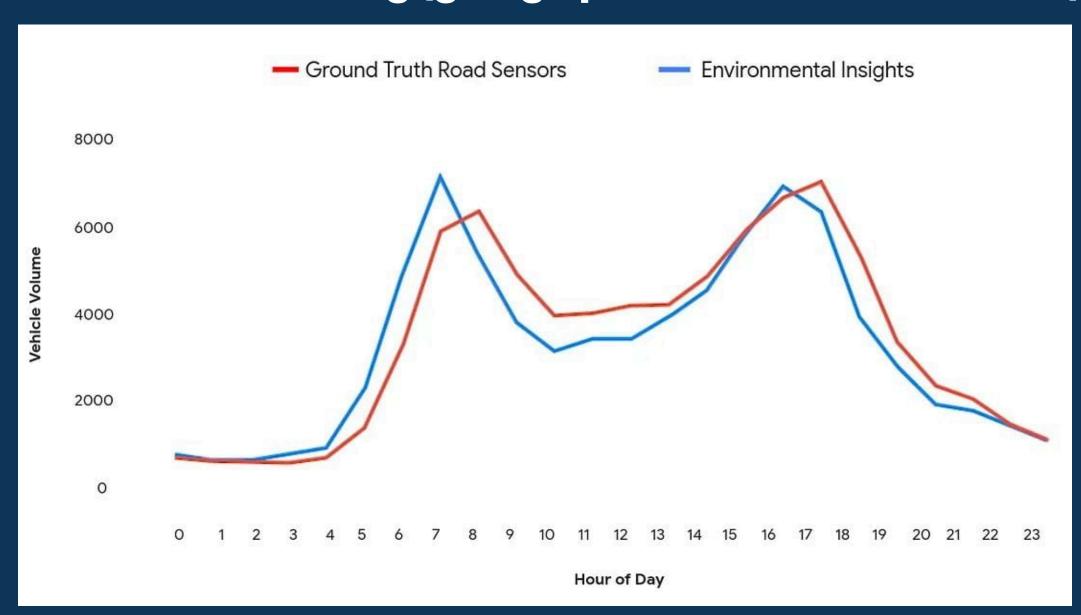
Among the peer cities looked at, EIE is being used as the main source of transportation emissions data in **Boulder**, CO, and **Lawrence**, KS. **Athens**, Greece is also using it exclusively, and **Seattle**, WA; **Austin**, TX; **San Jose**, CA; **Hartford**, CT; and **Pittsburgh**, PA also use it in some capacity. This is a non-exhaustive list.

#### **BOTTOM LINE:**

Public data with clearer methodology would be preferable (INDOT) if it allowed for calculating VMT that included induced traffic, but it isn't granular enough to do so, and so leads to undercounting of GHG emissions from transportation

#### ENVIRONMENTAL INSIGHTS EXPLORER

While EIE doesn't give a full A-Z methodology (which is a valid criticism), Google has conducted ground truthing comparisons of their data with real-life road counts at multiple points in several cities and found a 0.9 correlation (very high) between their estimates and direct road sensing (going up to 0.99 for some areas)



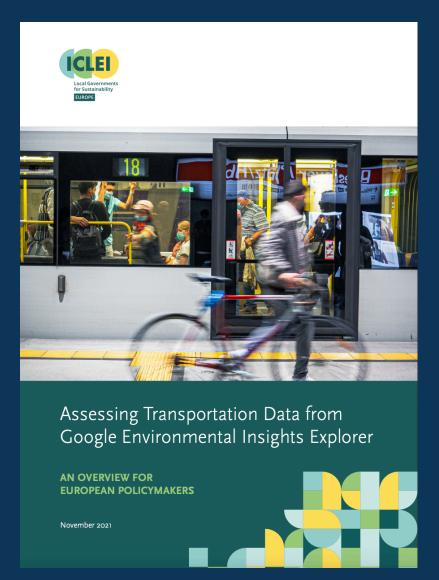
### Among the cities looked at, Boulder and Lawrence both use EIE data

- Traditional approaches to measuring traffic in a city may include: collecting road sensor data from a selection of roads and then applying a local or regional model to it; estimates based on fuel purchased within the city boundary; or downscaled values from regional averages. EIE's underlying data is most similar to GPS data providers and consists of users who have opted in to location services, such as Google Maps, or smartphone users who have Location History enabled. We then apply a number of anonymization and privacy filters to the data, aggregate all trips over the course of the year, and scale the data to the entire city population.
- We have completed a vehicle count comparison between EIE and road sensor data at a number of intersections in the city of Mountain View, CA and Boulder, CO. We found on average, a greater than 0.90 positive Pearson correlation between the road sensor counts and Google's estimations of vehicle volume. This indicates that the sampling of Google trips is a consistent subset of real world vehicle volume, with the added benefits of trip distance/duration data and global scale applicability. In other words, Google data can be a sufficient alternative to road sensors, such as pneumatic tubes. Furthermore, the aggregate scaled vehicle counts of EIE were found to be within an average of 15% of the road sensor data. We expect this value to improve over time as we refine the algorithms used to scale from observed trips to that of the real world population. See comparisons of our data.

Partial methodology here...
...and here

#### ENVIRONMENTAL INSIGHTS EXPLORER

ICLEI - Local Governments for Sustainability issued a report outlining the use of EIE data for GHG Inventories for European Union policymakers. See report (link to overview here)



"Google EIE proves to be a promising tool that can support cities' ambitions to reduce emissions in the transport sector and to promote sustainable urban mobility. ICLEI Europe recommends that cities and regions that have challenges in developing their GHG inventory and/or lack mobility data try EIE. Cities with existing inventories are also encouraged to report on EIE, if applicable, to allow for easier comparisons across cities and to foster a more peer-to-peer experience."

 Cities tend to use detailed but infrequent and non-periodic surveys to collect local mobility data to inform their transport reporting. There are differences, for example, in the years that surveys are undertaken and the understanding of trips by different modes (namely multiple modes for one trip). Furthermore, limitations in current practices were identified in discussions with cities, such as the ability to collect data for those who are not residents in a particular city, and may not be surveyed but travel within the city's boundaries. This makes it challenging to define precise conclusions and compare results.

EIE mobility data, on the other hand, has the advantage of being able to provide detailed trip data for resident and non-resident activity on an annual basis.

Detailed technical assessment by ICLEI Europe here (49 pages)

#### ENVIRONMENTAL INSIGHTS EXPLORER - DETRACTORS

EIE is not without its detractors, an article in Urban Studies in 2025 by Koch and Beyer is highly critical, although *primarily on a philosophical basis*, and did not directly challenge the overall technical accuracy or potential applications of the EIE

#### Main critiques from Koch and Beyer article:

- 1. EIE **increases reliance on big tech**, representing what they call a "tech-down" approach to governance and exacerbating existing power imbalances between local government and large corporations (**very** valid! I largely agree with this critique)
- 2. EIE may undercount users without cell phones in mode-split calculations (in a city like Bloomington where the overwhelming percent of trips are by car, this is less of an issue, and can be worked around by not using EIE data exclusively for mode split calculations—there are other public sources of mode split data)
- 3. Cities cannot alter EIE's indicators themselves (although they can tweak the parameters of the indicators to fit local needs. I found this argument to be a bit silly)
- 4. EIE is likely **less accurate in Global South** contexts (undercounting things like tuk-tuks or rickshaws very valid for Global South cities but not for Bloomington)

Special Issue: Google, a major stakeholder in local governance?

**Urban** Studies

A gift from heaven: Google's Environmental Insights Explorer and its tech-down approach to monitor urban sustainability beyond local contexts Urban Studies
2025, Vol. 62(13) 2633–2651
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sagepub.com/journals-permissions
DOI: 10.1177/00420980251340280
journals.sagepub.com/home/usj

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University of Applied Sciences HTW Berlin, Germany

#### Sarah Beyer®

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Sarah Beyer is also affiliated with University of Münster, Germany.

#### Abstract

Google's Environmental Insights Explorer (EIE) exemplifies a tech-down approach by leveraging proprietary data, machine learning and artificial intelligence to analyse urban greenhouse gas emissions, solar potential and tree canopy coverage. While framed as a tool for cities to assess and improve sustainability, the EIE often overlooks localised contexts and depends on opaque data generation processes that follow commercial interests. This study evaluates the ElE's data assemblage through critical urban data studies, focusing on its technical and contextual stacks. It critiques the EIE's lack of transparency, dependence on proprietary data and marginalisation of local expertise. Despite its promise, the EIE raises significant concerns about power imbalances, data validity and urban governance implications. Cities utilising the EIE must reconcile its global standardisation with specific local needs, navigating a complex landscape shaped by Google's corporate interests. The findings highlight the need for a more inclusive, context-specific approach to urban sustainability metrics that balances innovative data use with transparency and equitable stakeholder engagement. The EIE demonstrates how sustainability indicators and data are defined through a technology-driven process shaped by a private company, while neglecting local knowledge and narratives. This process - referred to as a tech-down approach - differs from both bottom-up and top-down methods of sustainability indicator selection, as well as from data philanthropy initiatives by private companies, due to its exclusive reliance on corporate data and its global scope. This study urges critical reflection on the broader implications of tech-driven urban monitoring tools like the EIE.

#### Corresponding author:

Florian Koch, University of Applied Sciences HTW Berlin, Treskowallee 8, 10318 Berlin, Germany. Email: Florian.Koch@htw-berlin.de

#### FINAL THOUGHTS

- Our current method of calculating transportation emissions is **likely undercounting transportation emissions** as it does not account for traffic induced by the city, which Census data suggests is substantial
- Public or opensource data sources are preferable. We should explore if there are viable alternative methods to EIE that would allow for counting induced traffic without reliance on Big Tech data
- If an alternative is not available, Google's EIE provides a viable, immediately accessible and free alternative method that is compliant with the GPC protocol, accounts for induced traffic and is already in use by a variety of larger and peer cities

#### BOTTOM LINE

We should consider at the least including EIE data that accounts for induced traffic in VMT calculations into our GHG inventory alongside INDOT VMT counts.



# 2026 Priority Planning Process

December 9, 2025

**Justin Vasel** 

### 2025 Priorities

### Looking back

Priority	Area of Focus	Outcomes
1. Housing & Urban Agriculture	Housing Affordability & Accessibility	
	Food Resilience & Urban Agriculture	<ul> <li>Resolution 2025-01 (Poultry Flock Sizing)</li> <li>Resolution 2025-03 (Urban Agriculture Definitions)</li> <li>Resolution 2025-04 (Name Change)</li> <li>Draft Local Food Resilience Strategy</li> </ul>
2. Education, Outreach, &	Resource Amplification	
Coalition Building	Coalition Building	<ul> <li>Engagement with EC on IU capstone project</li> <li>Engagement with Council via resolutions and presentation of annual report</li> </ul>
	Public Engagement	<ul> <li>Earth Day 2025 Presence</li> <li>Sustainability Forums</li> <li>Plan to procure signage</li> </ul>

### 2026 Priority Planning

### Some ideas to get the wheels turning

#### **Potential Priority Areas and Goals**

- Housing Affordability & Accessibility
  - Greater involvement in UDO amendment process
  - Engage with OOTM on homelessness and housing
  - Follow Hopewell and Summit district progress
- Education / Outreach
  - Attend more public events (Earth Day, farmers markets, etc.)
  - Become active on social media
  - Continue sustainability forums
  - Participate fully in IU capstone project
  - Invite ideas and input from community
  - Op-Eds, podcast interviews (e.g. The 812), etc.
- Resiliency
  - Refine local food resiliency strategy
  - Engage with Council
  - Study recent lapse in SNAP benefits; plan for future
- Coalition Building & Strategic Engagement
  - Summit with other commissions to discuss shared interests
  - Joint events / projects with other commissions
  - Assign another commission to each Commissioner to follow; report back monthly
- Funding
  - Identify external grant opportunities (state, federal, nonprofit), and apply for them
- Budget
  - Greater involvement throughout 2027 budget process

#### **Tools at our Disposal**

- Resolutions
  - Declare a position ("we agree...", "we disagree...", etc)
  - Make a formal recommendation to Council, OOTM, City Department, etc.
- Requests for information
- Reports
- Fundraising and Grants
- Communication platforms
- Creativity, ingenuity, passion

### 2026 Priority Planning Process

What is the best format to converge on priorities with actionable goals?

#### **Some Options**

- Work Session
  - Benefits: Uses last year's process; occurs at the usual time (Tuesdays 6–7:30).
  - Challenges: Work sessions not as well attended as regular meetings; 1.5h is pretty short to converge on a plan for the next year
- Two Work Sessions in January/February
  - Benefits: Same as above, but provides more time to brainstorm/plan
  - Challenges: Same issue with attendance; Takes longer to plan -> less time to implement
- Retreat Spend 1/2 to 1 day getting into the weeds (would likely be on a weekend)
  - Benefits: Allows for more in-depth discussion and diverse formats (e.g., breakout groups);
     would likely produce a more robust plan
  - Challenges: Harder to commit to, especially for those with kids
- Something else entirely? All ideas welcome!