

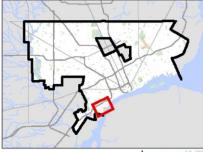
#### Community Benefits Agreements and Health Impact Assessments to Promote Environmental Justice: The Gordie Howe International Bridge

#### American Public Health Association Annual Meeting | November 6, 2019

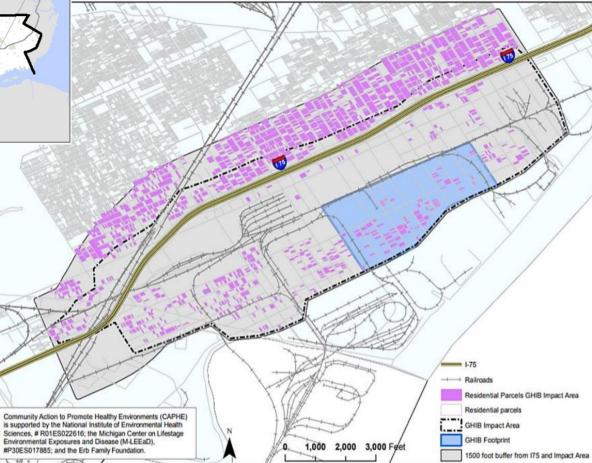
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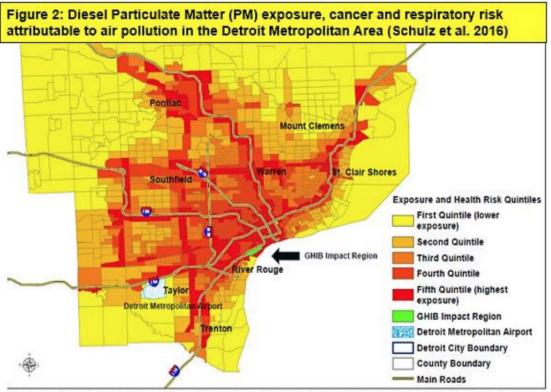
## **No Conflicts of Interest to Disclose**



# BRIDGE IMPACT AREA



Population age over 17. Source: ACS 2014. Five years estimate census data. Estimated population over 17 years old living in buffer of 1500 foot is 6830



Cumulative impact polygons (CI) include: residential areas, child care facilities, health care facilities, schools and playgrounds. Exposure and Health risk include: 2011 NATA estimates of respiratory risk, cancer risk and diesel PM (non-cancer) concentration. WHY COMMUNITY BENEFITS?

Schulz, A., Mentz, G., Sampson, N., Ward, M., Anderson, R., deMajo, R., Israel, B., Lewis, T., Wilkins, D. (2016) Social and physical environments and the distribution of risk: A case example from Detroit. *DuBois Review*, 13(2), 285-304. doi:10.1017/S1742058X1600016



2016-2017: Bridge to a Healthy Community Survey 2019: HIA Report Released

Community Organizing and Advocacy for Benefits and Reduced Burdens

2008

2016: \$48m community benefits approved

2018: Health Impact Assessment Survey

> Photo: Khloe Johnson holds a sign. (Max Ortiz, The Detroit News)

#### \$48m Community Benefits

- 200 Optional Home relocations
- 200 Home retrofits windows & air filtration
- Health Impact Assessments
- 3 new Air Monitor stations & 1 upgrade for Black Carbon
- Mobile Air Monitoring unit
- Indoor Air monitoring program
- Job training funds for citywide programs

#### **Three phases of GHIB Health Impact Assessment**









- Survey conducted by trained bilingual community residents
- Questions on: environment, health, neighborhood & recommendations for decision-makers
- Resident input on survey
- Preliminary results discussed at community meetings

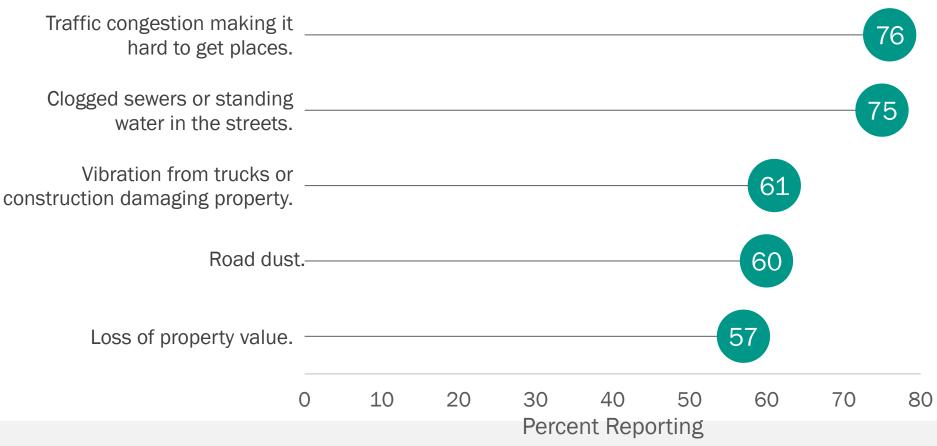


# 70%

felt their neighborhood was a good place to live **66%** Indicated outdoor air quality was a top concern

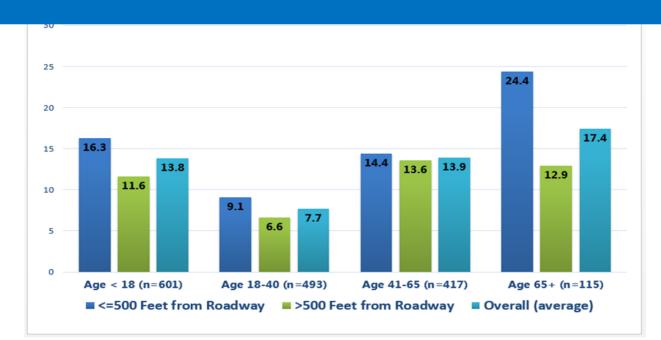


### Other resident concerns



# Self-reported asthma was greater for those residing near heavily trafficked roadways in all age groups.

Percent of household members in the baseline HIA survey reported to have asthma by age and distance from I-75 and trucking routes



# Among children in our sample living ≤500 feet from heavily trafficked roads, **16.3%** reported to have asthma.

In U.S., estimated child asthma prevalence is **8.4%**\* \* 2017 National Health Interview Survey

### **HIA Recommendations (selected)**

- Enforce anti-idling ordinance
- Move truck routes
- Spatial & vegetative buffers
- Extend home mitigation filters, windows, relocation

BASELINE HEALTH IMPACT ASSESSMENT FOR THE GORDIE HOWE INTERNATIONAL BRIDGE PROJECT

> FULL REPORT Health Impact Assessment April 2019



### Takeaways



 Connecting community benefits and HIAs

 Challenges and opportunities of diverse partnerships

# Thank you. Questions?

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#### Support for the GHIB HIA comes from:





Michigan Department of Health & Human Services



