

# Air Sensors and Citizen Science

NACAA Fall Membership meeting

New Orleans, LA.

Oct 6, 2015



# EDF's focus areas



CLIMATE



HEALTH



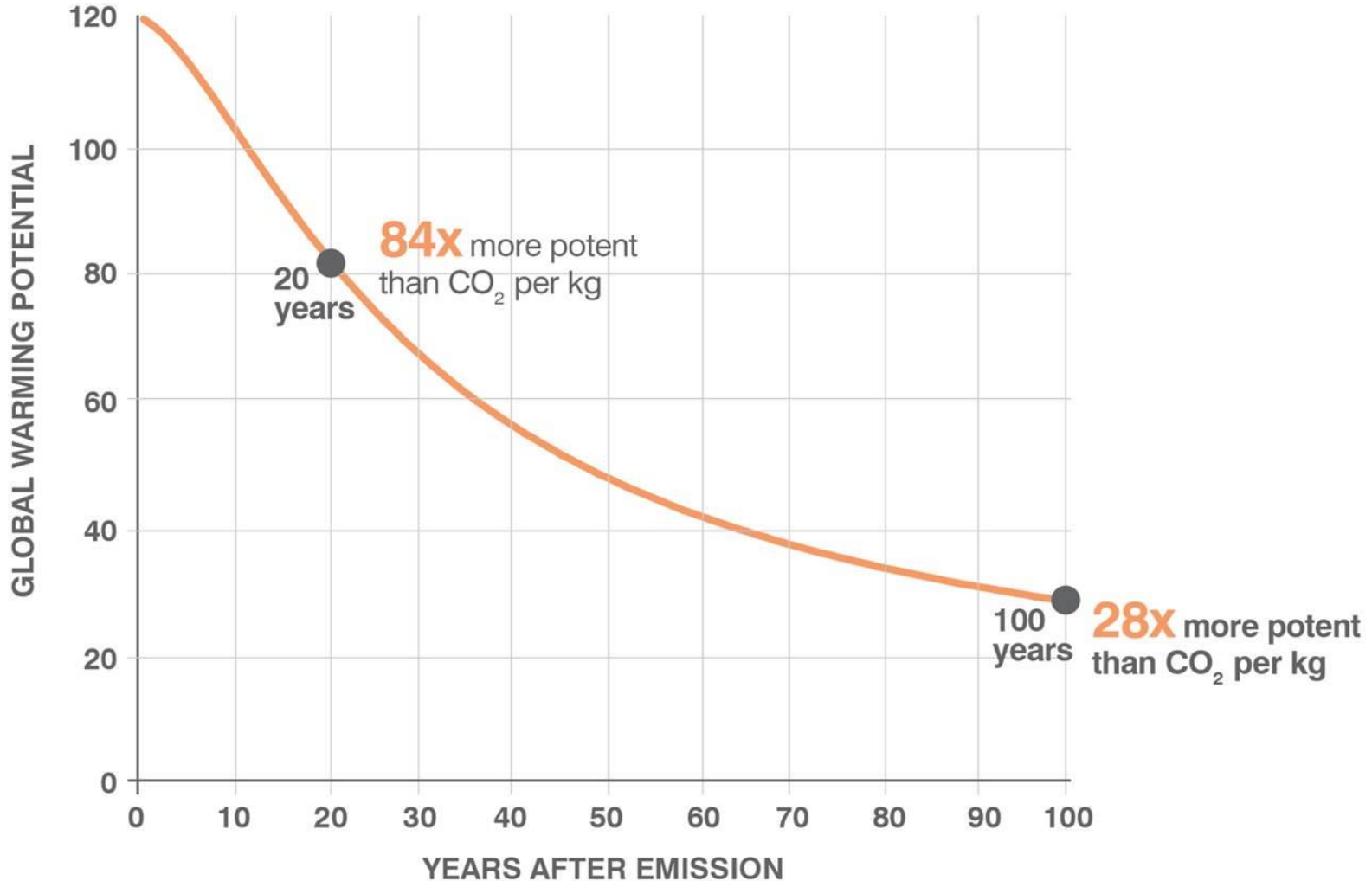
ECOSYSTEMS



OCEANS

# Why methane?

DIRECT AND INDIRECT WARMING COMBINED OVER TIME



# EDF STUDIES BY NATURAL GAS SUPPLY CHAIN SEGMENT

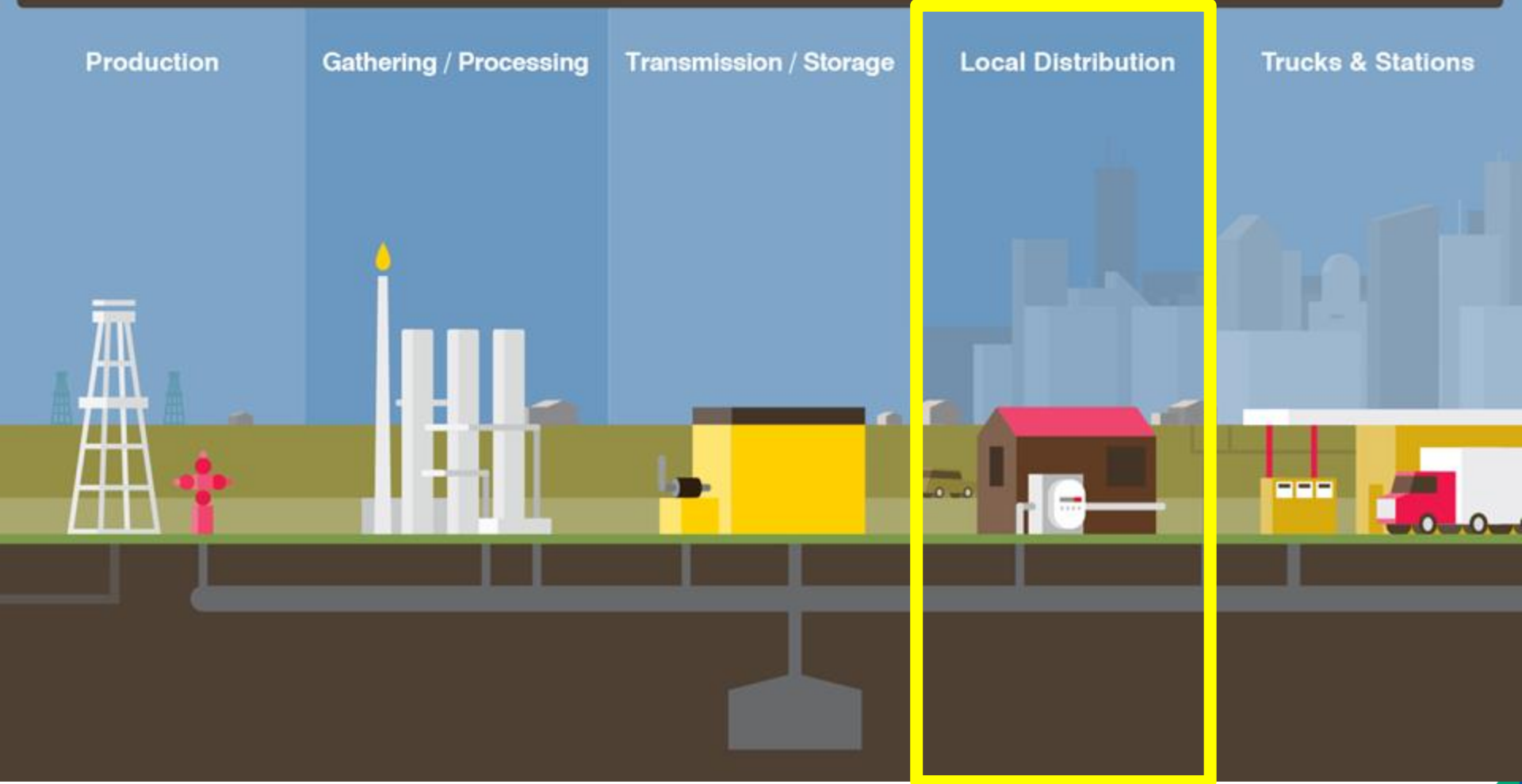
Production

Gathering / Processing

Transmission / Storage

Local Distribution

Trucks & Stations





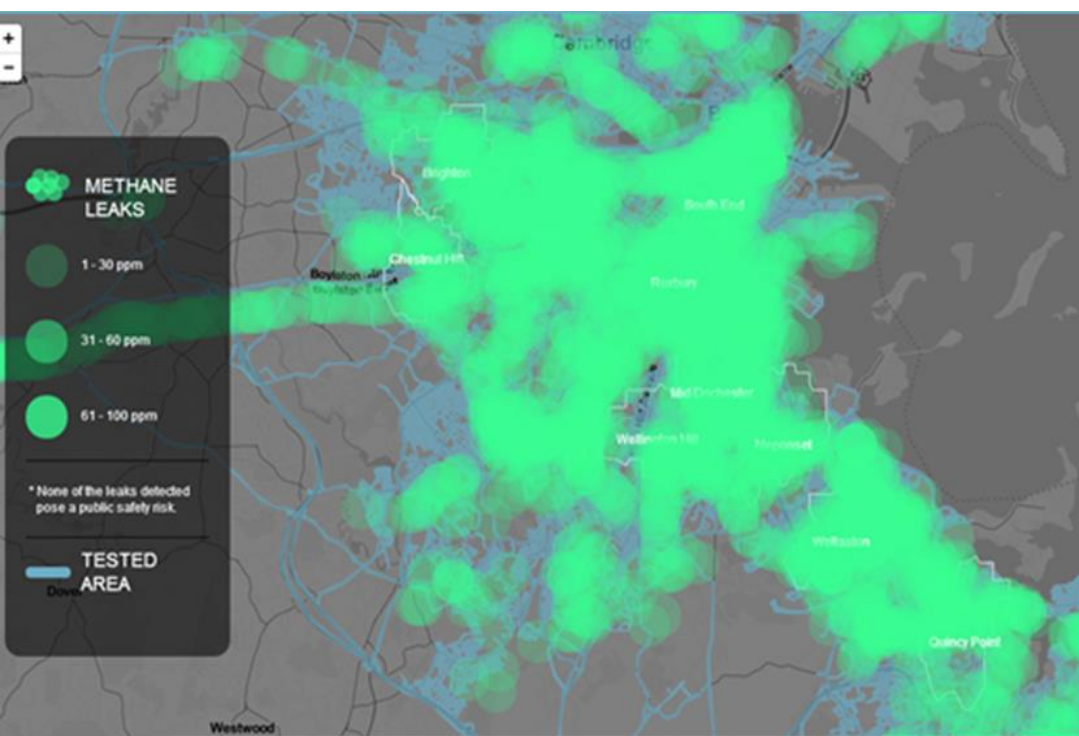
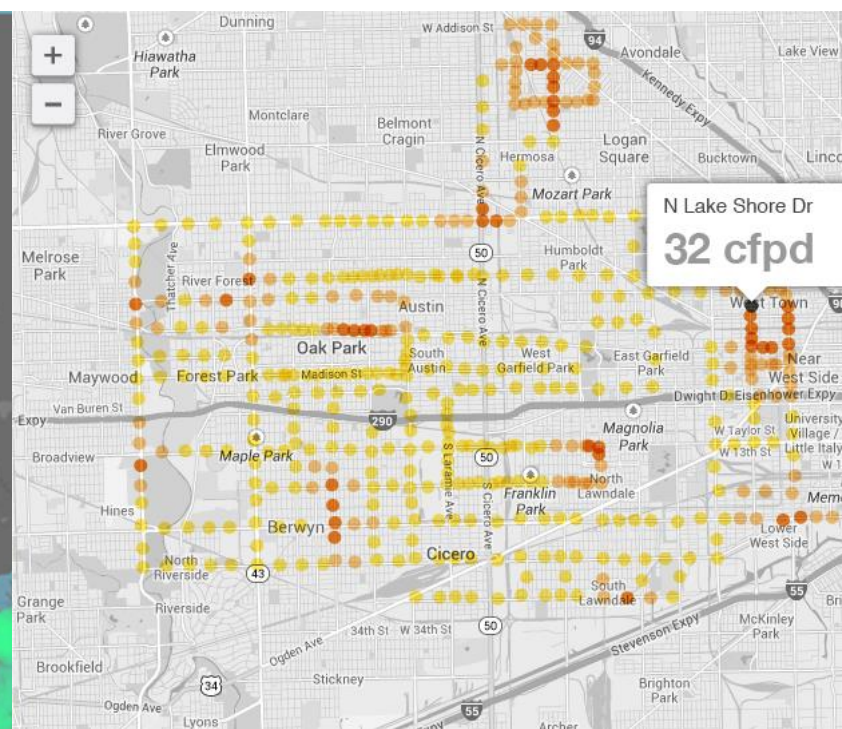


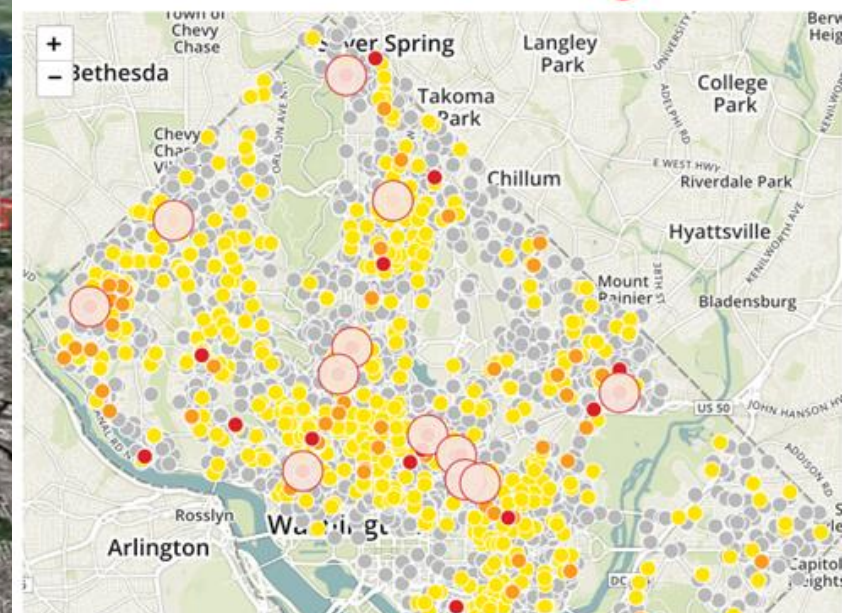
Image 4. Results of methane survey of parts of Manhattan on 30 November 2012



Gas concentrations above normal background level

Likely gas leak ▶ Highly likely gas leak ▶

- Up to 2x
- 3x to 9x
- 10x to 19x
- 20x to 44x
- Explosive





### Boston

About leaks in Boston

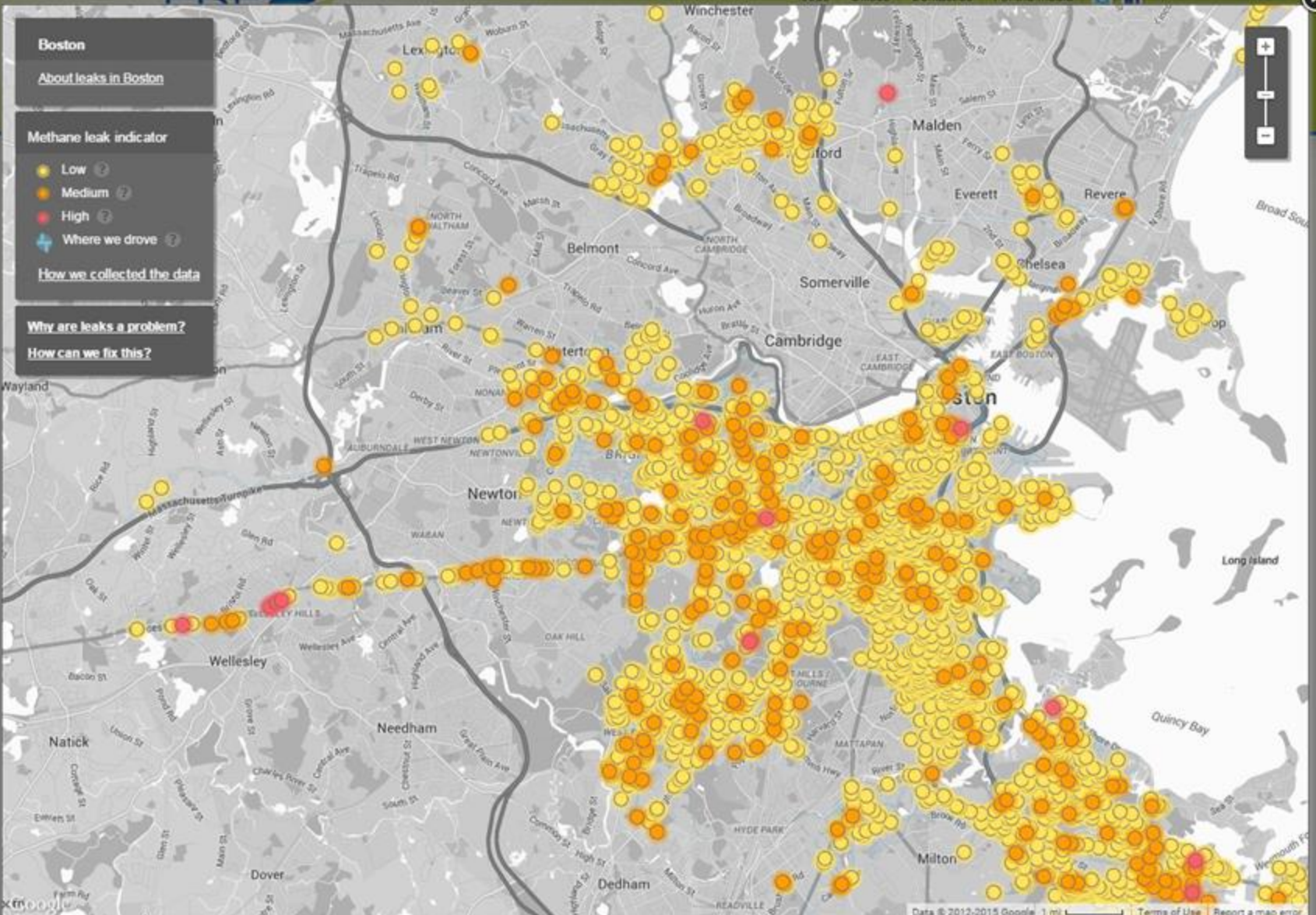
#### Methane leak indicator

- Low
- Medium
- High
- Where we drove

How we collected the data

Why are leaks a problem?

How can we fix this?



- The problem
- Cleaner, smarter energy
- Stronger laws and policies

Carbon pollution standards

• Natural gas

Climate risks of methane

Extensive leak research

• **Maps of natural gas leaks**

Why leaks are a problem

• How to fix the problem

• City snapshots

• How this data is different

About the partnership

What is fracking?

Why gas is important

Five areas of concern

California's climate plan

• Global initiatives

• Policy and resources

Our experts

Oceans

Ecosystems

Health

Policy resources

Where we work

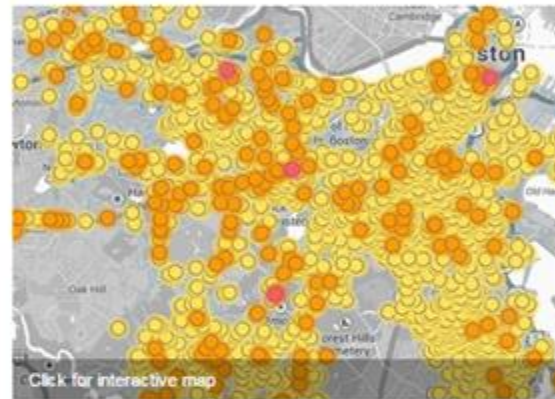
3rd Tier Menu Item

# Natural gas: Local leaks impact global climate

EDF and Google Earth Outreach use new approach to pinpoint climate pollution

Natural gas heats our homes and cooks our dinner. But when natural gas—mostly methane—leaks into the air, it's a big problem for the climate. So EDF and Google Earth Outreach teamed up to build a faster, cheaper way to find and assess leaks under our streets and sidewalks. We tested it as part of a pilot mapping program, and here's what we found.

## Boston: Older pipes, more leaks



## Indianapolis: Newer pipes, fewer leaks



## **NEW** Chicago, IL

Added: June 4, 2015



## **NEW** LA Area, CA

Added: May 14, 2015



## Bring the project to more places

Nominate your city to be mapped, which also shows support for reducing leaks.

Your email address

Your zip code

**Nominate your city**

Yes, keep me updated by email. Read our privacy policy

See all the cities





# Who is involved?



**Universiteit Utrecht**

# Questions?



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