

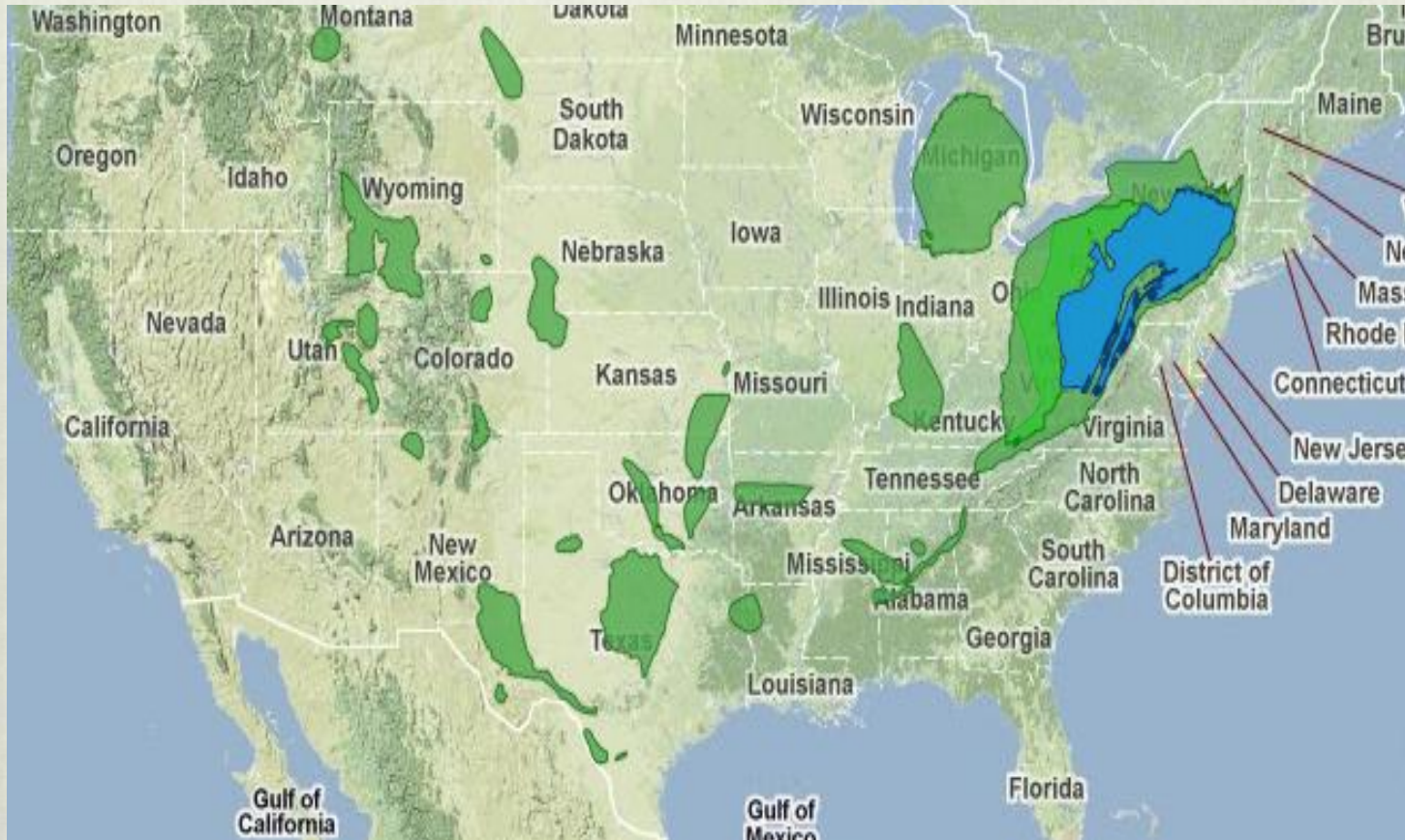
Implementation of FracTracker.org:

A GeoWeb platform to manage and communicate
shale gas information

Samantha Malone, MPH, CPH
Dean's Day 2011 – April 15, 2011

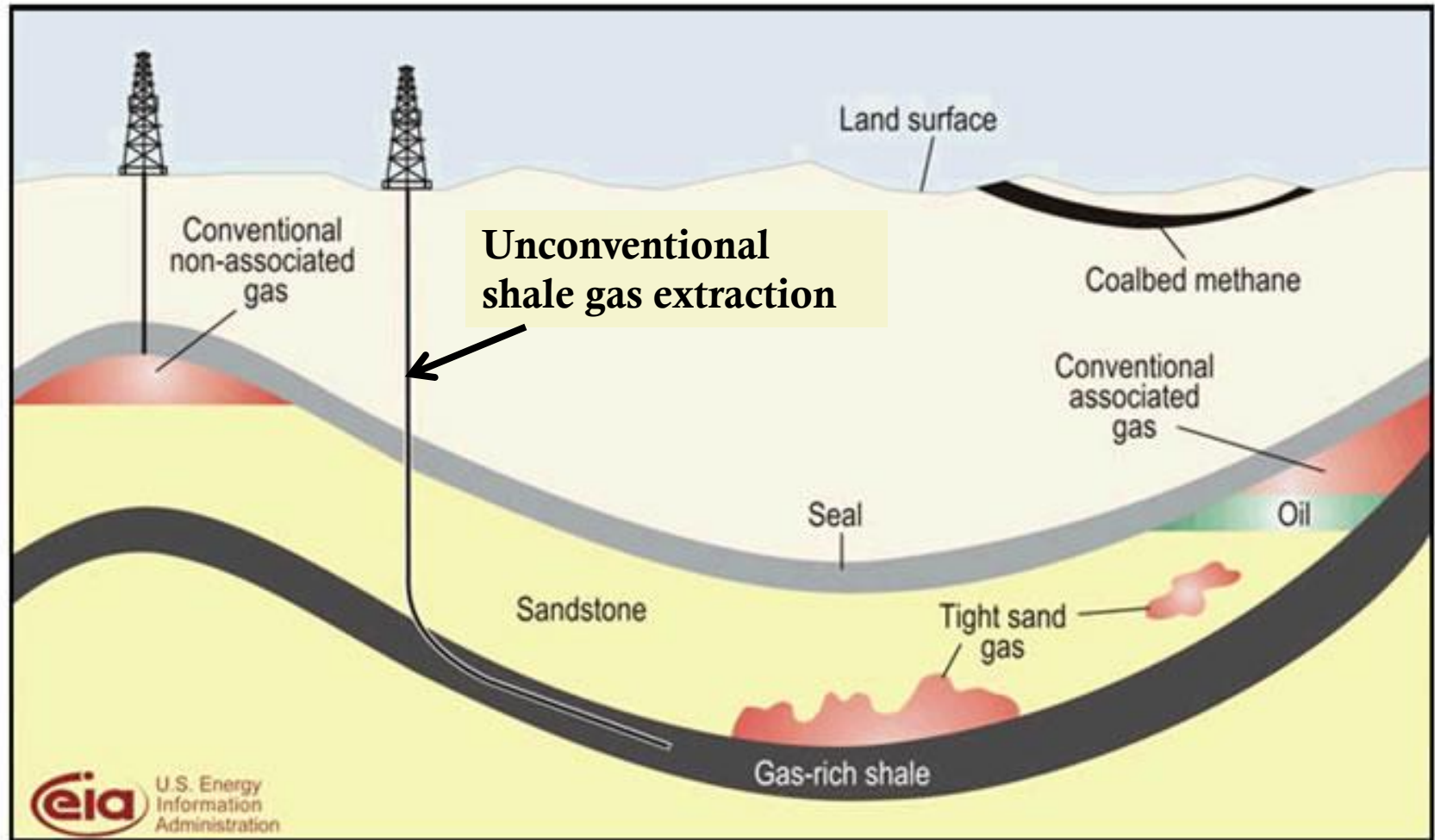
DrPH student, BCHS department, Graduate School of Public Health
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Shale Gas Plays



Shale gas plays in the continental U.S. The Marcellus is highlighted in blue. Map created using Data.FracTracker.org.

Natural gas drilling in shale formations - What is involved?



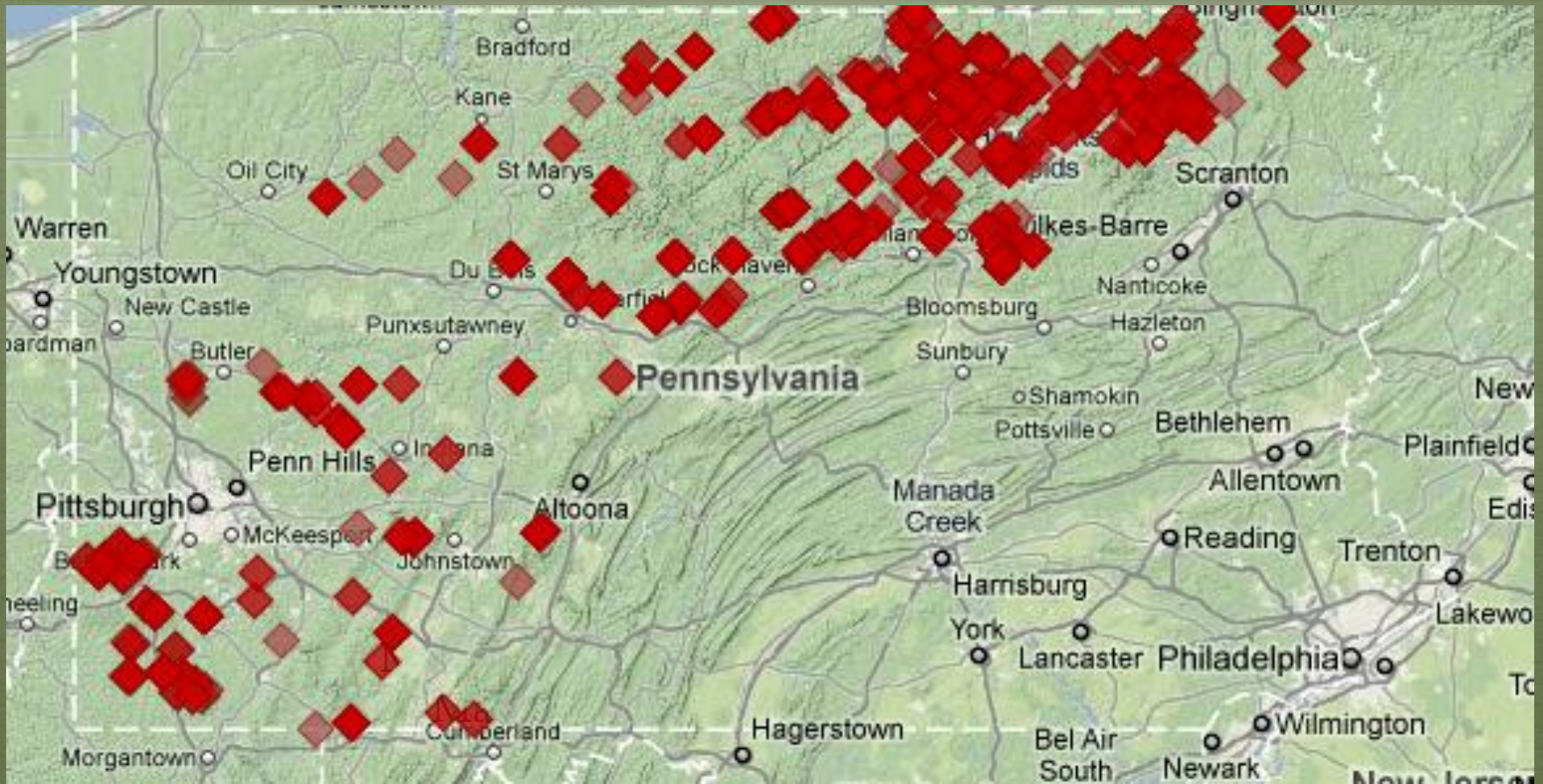


Waste fluid
impoundment near home

The Problem: Lack of Support for Well-Informed Decision Making

- ❖ Data and information gaps
- ❖ Outdated regulation
- ❖ Inadequate data storage, accessibility, and dissemination





2010 Marcellus Shale well violations

A Solution: FracTracker.org

Launched in June 2010

Project Implementation

- ❖ Meetings with community gatekeepers
- ❖ Informational and training-based stakeholder meetings
- ❖ Public-private partnerships, e-communication campaigns, and training webinars

FracTracker Newsletter
Keeping you updated about FracTracker.org's shale gas data

Edition 2 - March 2, 2011

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The PG Pipeline

P We are proud to announce an exciting collaboration between FracTracker and a project run by the Pittsburgh Post-Gazette - called Pipeline. The collaboration will help to inform the PG's expansive readership about the diverse issues surrounding natural gas drilling in the Marcellus Shale region - especially in Washington County. For this project, FracTracker's [DataTool](#) will provide a platform for data collection and map creation. [Visit Pipeline](#) | [Learn More](#)

FracTracker Tutorial

1 2

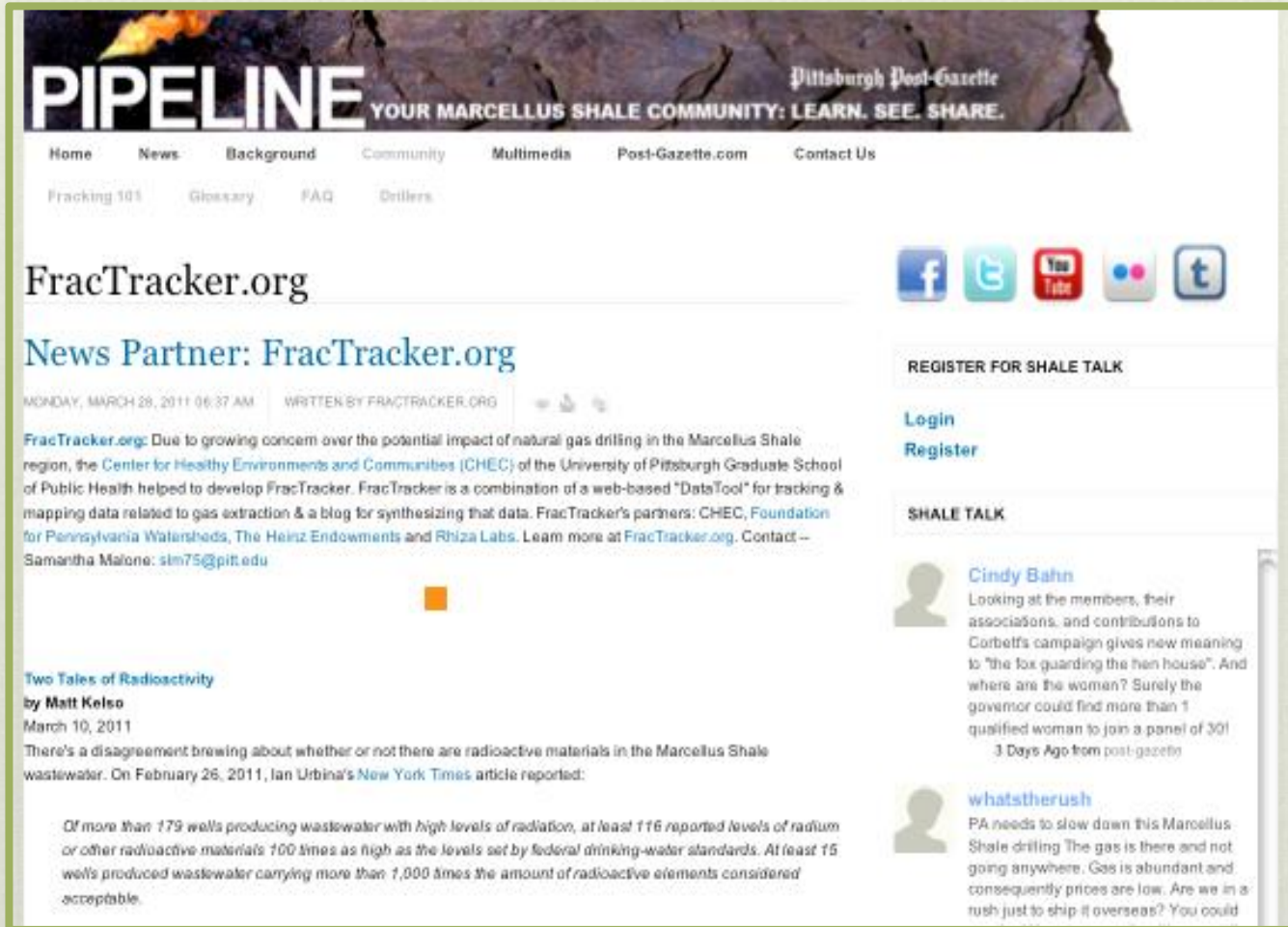
Links

- [User Tutorial](#)
- [The DataTool](#)
- [CHEC \(manager\)](#)
- [FPW \(host\)](#)
- [Heinz Endowments \(funder\)](#)

Shale News

- NY Times: [Regulation Lax as Gas Wells' Tainted Water Hits Rivers](#)

Select Result



PIPELINE YOUR MARCELLUS SHALE COMMUNITY: LEARN. SEE. SHARE. Pittsburgh Post-Gazette

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Fracking 101 Glossary FAQ Drillers

FracTracker.org

News Partner: FracTracker.org

MONDAY, MARCH 28, 2011 06:37 AM WRITTEN BY FRACTRACKER.ORG

FracTracker.org: Due to growing concern over the potential impact of natural gas drilling in the Marcellus Shale region, the Center for Healthy Environments and Communities (CHEC) of the University of Pittsburgh Graduate School of Public Health helped to develop FracTracker. FracTracker is a combination of a web-based "DataTool" for tracking & mapping data related to gas extraction & a blog for synthesizing that data. FracTracker's partners: CHEC, Foundation for Pennsylvania Watersheds, The Heinz Endowments and Rhiza Labs. Learn more at FracTracker.org. Contact -- Samantha Malone: slm75@pitt.edu

Two Tales of Radioactivity
by Matt Kelso
March 10, 2011

There's a disagreement brewing about whether or not there are radioactive materials in the Marcellus Shale wastewater. On February 26, 2011, Ian Urbina's *New York Times* article reported:

Of more than 179 wells producing wastewater with high levels of radiation, at least 116 reported levels of radium or other radioactive materials 100 times as high as the levels set by federal drinking-water standards. At least 15 wells produced wastewater carrying more than 7,000 times the amount of radioactive elements considered acceptable.

REGISTER FOR SHALE TALK

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SHALE TALK

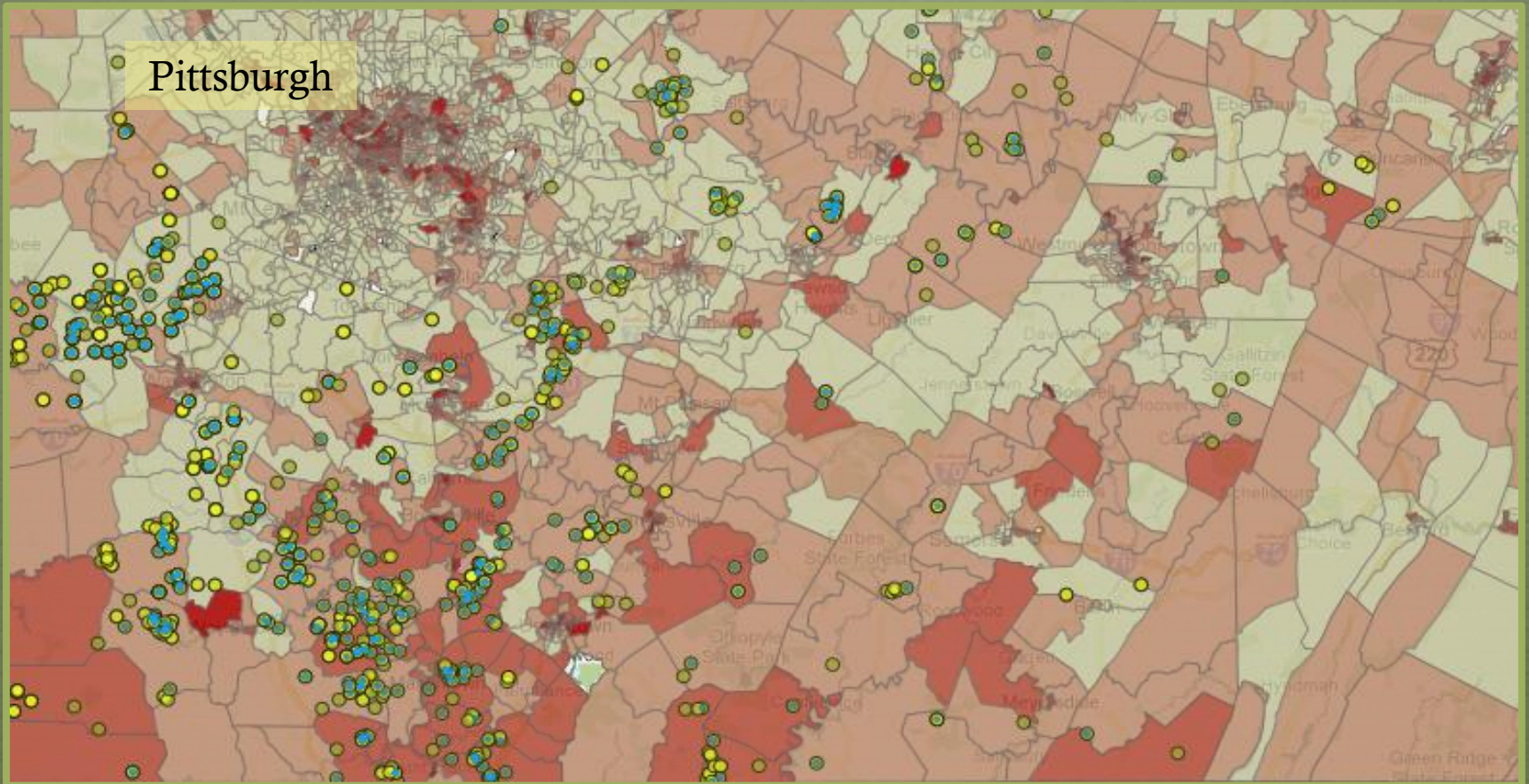
Cindy Bahn
Looking at the members, their associations, and contributions to Corbett's campaign gives new meaning to "the fox guarding the hen house". And where are the women? Surely the governor could find more than 1 qualified woman to join a panel of 301
3 Days Ago from post-gazette

whatstherush
PA needs to slow down this Marcellus Shale drilling. The gas is there and not going anywhere. Gas is abundant and consequently prices are low. Are we in a rush just to ship it overseas? You could

Pittsburgh Pipeline - Public-Private Partnership with the
Pittsburgh Post-Gazette

Public Health Implications

- ❖ FracTracker exhibits significant potential to improve shale gas data and information sharing and decision-making.
- ❖ Allows people to better understand:
 - ❖ Social
 - ❖ Economic
 - ❖ Land use
 - ❖ Political
 - ❖ Environmental
 - ❖ Public health considerations



Drilling activity and poverty rates in Southwestern PA –
Marcellus well permits (yellow dots), Marcellus wells drilled (blue dots), and Poverty rates by
block groups (dark red indicating higher poverty rates)

Identification of Potential Environmental Injustices & Trends Over Time

Dynamic and Visual Representations of Data

FracTracker Partners

- ❖ Center for Healthy Environments and Communities, University of Pittsburgh Graduate School of Public Health
- ❖ Foundation for Pennsylvania Watersheds
- ❖ Rhiza Labs (software developer)
- ❖ The Heinz Endowments (funder)

FracTracker.org & Data.FracTracker.org