The Beginning of Citizen Science for WOEIP

The knowledge, tools, and resources to empower communities to lead local research.

Residents Coming Together to Learn

- West Oakland Environmental Indicators Project (WOEIP) started as a Community Based Participatory Research (CBPR) project to identify local priorities for change.
- We, the impacted residents, wrote several reports with the support of our Pacific Institute research partners:
  - “Neighborhood Knowledge of Change” - 2002
  - “Clearing the Air” - 2003
  - “Paying with Health” - 2006

Using Evidence as a Tool to address disparities

- In 2004: first West Oakland truck traffic survey. Residents learned to collect traffic data.
- Later residents counted trees to assess capacity of our urban forest to mitigate toxic air pollution.
- In 2005 we completed an indoor air study in the homes of 15 senior citizens (Partners: Pacific Institute, California Environmental Health Tracking Program)

… Then Intel Came Knocking

- In 2008 we participated in the Common Sense Project to develop small sensors.
- Intel trained WOEIP staff and residents how to use the air monitoring equipment known as the TSI DusTracker.
- The use of this equipment to test air quality put WOEIP on the map for Citizen Science.

Sharing the Power

- WOEIP has trained hundreds of youth, adults, and Environmental Justice organizations in California, Arizona, Maryland and Texas to collect particulate data in their communities.

- In 2013 WOEIP was recognized as a White House Champion of Change for Citizen Science.

We believe that good air quality planning must include:

- Understanding Proximity and Exposure, Sources and Emissions
- Comprehensive Enforcement Strategies for Local Municipalities
- Integrated agency planning for Goods Movement
- Strategies for Health-protective Zoning and Business Relocation
- Reform of Conditional Use Permits
- Re-analysis of Truck Routes and Logistics Operations
- Improved Signage and Communication with Industry
- Resource and Support Strategies for the Trucking Sector
- Infrastructure for the Electrification of the Freight Transportation Industry