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.
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