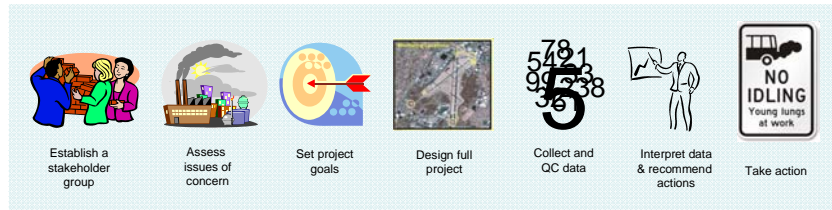


# Getting Started

- Establishing a stakeholder group
- Identifying issues of concern
- Setting project goals
- Lessons learned in setting project goals

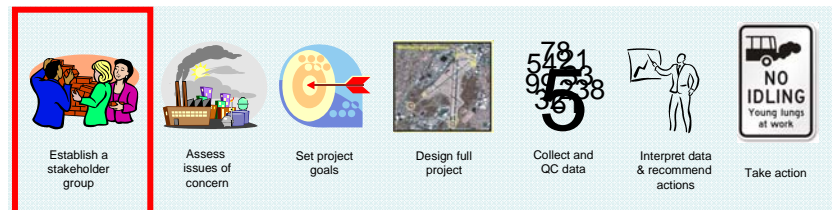


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# Establishing a Stakeholder Group

- Identify individuals and groups who hold some kind of "stake" or interest in the project and its outcome
- Include community, industry, government
- Discuss entire process up front (including stakeholder expectations of outcomes)



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## Fostering Community Participation

- Use established community groups
- Work with your communications groups to develop outreach material
- Plan how results and findings will be shared and what actions to take
- Think about how to deliver news the community may not be expecting to hear



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## Examples of Projects

### Joint Air Toxics Assessment Project (JATAP)

Phoenix area,  
Arizona

### Michigan Analysis of Air Toxics Data

Detroit area,  
Michigan

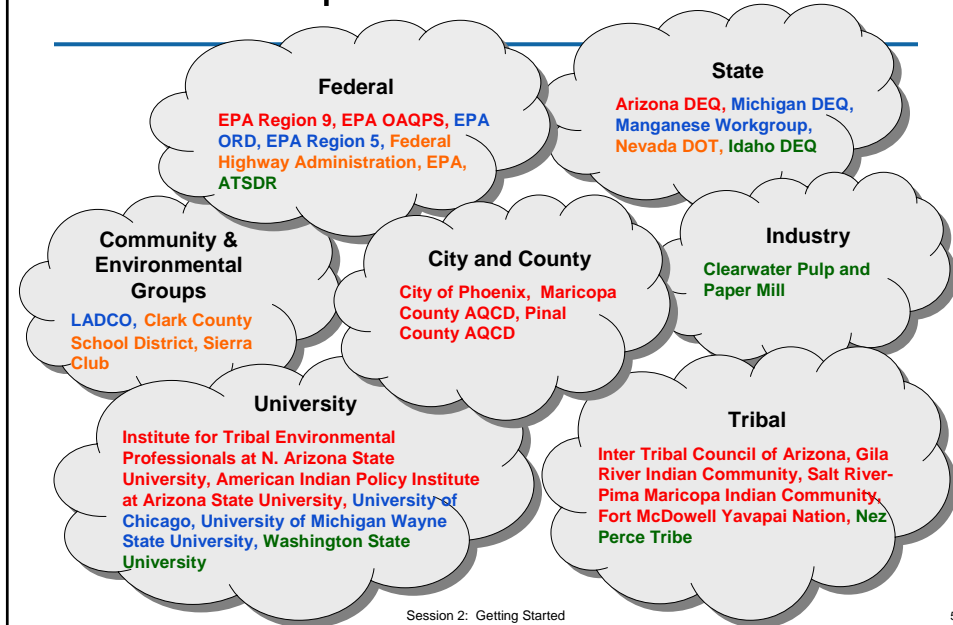
### US 95 MSAT Project (NDOT)

Las Vegas, Nevada

### Nez Perce Analysis of Air Toxics Data

Lewiston, Idaho

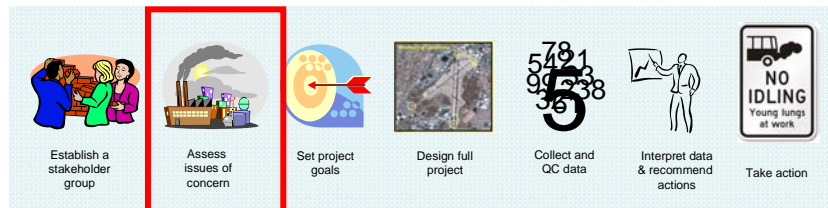
# Examples of Stakeholders

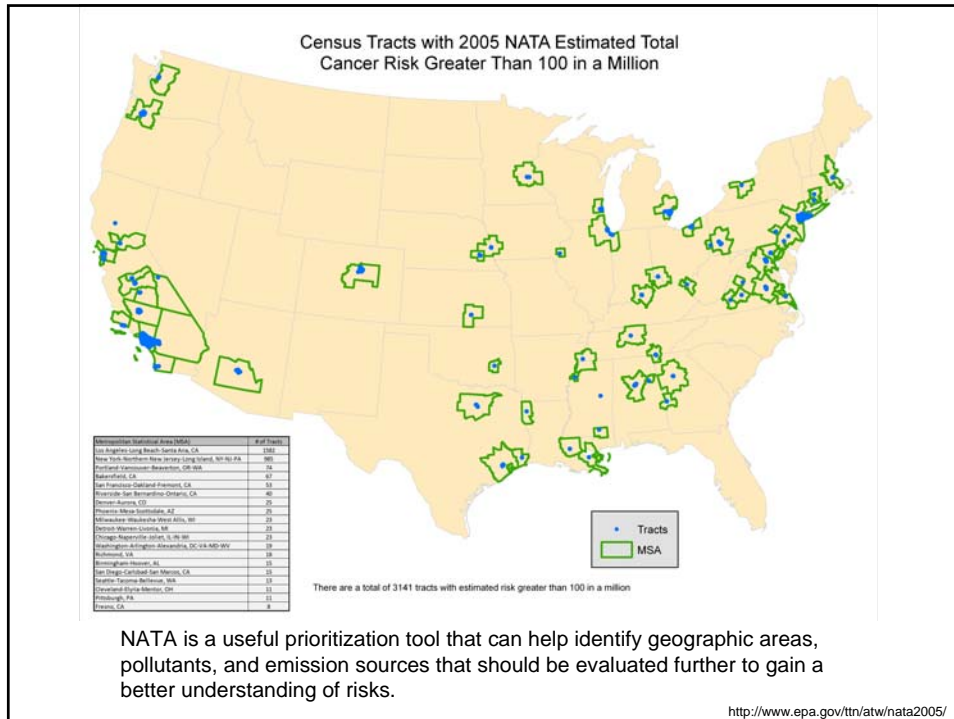


# Identifying Issues of Concern

## Investigate available information

- NATA, which shows modeled ambient concentrations, human exposure, and risk characterization to the census tract level
- Health data (e.g., cancer rates) from CDC's national and state data
- National (and local, if available) emissions inventory

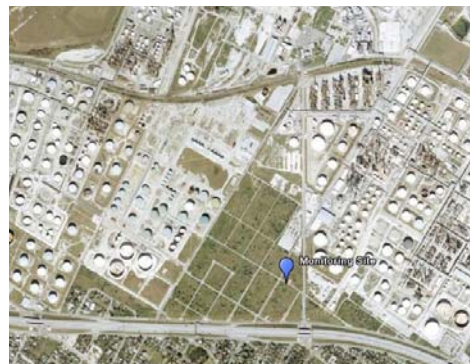




NATA is a useful prioritization tool that can help identify geographic areas, pollutants, and emission sources that should be evaluated further to gain a better understanding of risks.

## Issues of Concern to Your Community

- Emissions sources
- Pollutants
- Pollution transport
- Vulnerable populations
- Proximity to sources



## Example Issues: JATAP

Chemicals of Interest	
1,3-butadiene	Dichloromethane
Benzene	Tetrachloroethylene
Formaldehyde	Ethylene dibromide
Arsenic compounds	Acrylonitrile
Cadmium compounds	Benzo(a)pyrene
Chloroform	Vinyl chloride
Nickel compounds	Carbon tetrachloride
p-dichlorobenzene	Acrolein
Chromium (VI)	Manganese compounds
Ethylene oxide	Barium
Trichloroethylene	Trimethylbenzene
Acetaldehyde	Lead compounds



*What is the nature and extent of air toxics transport into Tribal communities?*

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## Examples of Toxics Monitoring Project Topic Areas

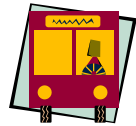
- Supporting health effects assessments
- Evaluating and improving air quality models (that, in turn, are useful to exposure assessments)
- Establishing/understanding baseline concentrations
- Characterizing specific pollutants of concern
- Understanding spatial variation in concentrations (e.g., gradients)
- Characterizing specific emissions sources of concern
- Developing new measurement methods and techniques
- Analyzing existing data sets

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# Sources and Pollutants Previously Studied

- Sources studied
  - bus depot, port, rail yard, auto repair shops, mobile sources, chrome plating facility, coke smelter, refinery, metallurgical-coke facility, dry cleaners, oil and gas, pulp and paper mill, pesticide application, smelter, industrial point sources, airport, woodsmoke
- Specific pollutants targeted
  - diesel particulate matter (DPM), benzene, hexavalent chromium, styrene, carbonyl compounds, chlorobenzene, metals (e.g., Mn), acrolein

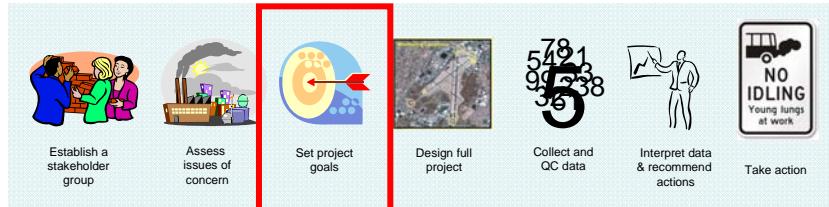


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# Setting Project Goals

- Examples of goals
- Lessons learned in project goal setting



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## Examples of Goals

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- Characterize community air toxics concentrations to assist with development of risk reduction strategies
- Identify and quantify the impact of a specific emissions source on a community
- Test a new method of measuring an air toxic of concern
- Obtain ambient measurements to support exposure modeling and emissions inventory and model evaluation efforts
- Establish baseline concentrations for future studies

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## Project Goals: JATAP

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- Determine the most important contributors to risk from air toxics
- Identify the likely sources of air toxics in the study area
- Assess how concentrations of air toxics in this area compare to other areas and to important health benchmarks



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## Project Goals: Michigan

- Create a comprehensive, quality-assured database to support subsequent data analysis projects
- Place more recent air toxics measurements into historical and national perspective
- Quantify the impact of loss of sources or emissions reductions on ambient air concentrations (i.e., accountability)
- Determine how risk levels have changed in the Detroit area and compare to Grand Rapids area
- Understand comparability and certainty in source apportionment model results
- Effectively communicate findings



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## Project Goals: Nez Perce

- Characterize air toxics concentrations in the Lewiston, Idaho, area of the Clearwater River Valley including a significant portion of the Nez Perce Reservation. Specifically:
  - characterize emissions from the Potlatch Pulp and Paper Mill in east Lewiston
  - determine (VOC) spatial pattern and gradient profiles



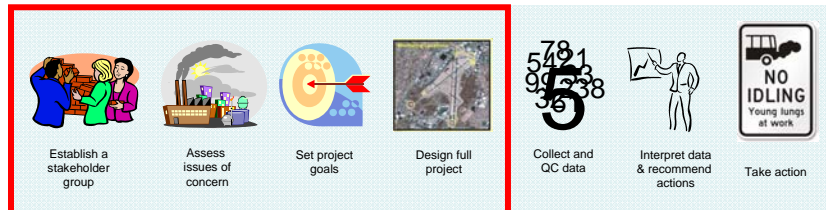
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## Initial Goals Are Set

- Now what?
  - Given the initial goals, what can you actually accomplish given the study realities?
- This process is likely iterative.
  - You may need to revisit the initial goals with your stakeholder group.



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## Lessons Learned in Project Goal Setting

- Be specific
- Goals should not be too broad
- It is hard to meet everyone's expectations (i.e., you need to manage expectations from the beginning)



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## Lessons Learned in Project Goal Setting

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- “Watch how large your project is, it’s always more work than you envision.”
- “Working with collaborators can be tricky.”
- “These grants are a good way to get software and training in tight budget climate.”