

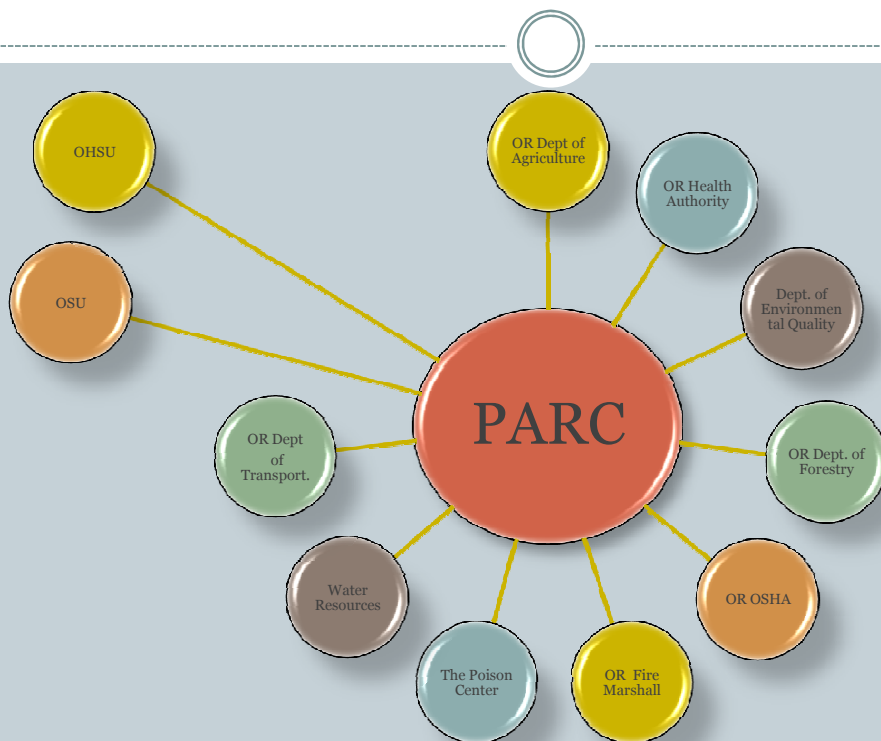
# Highway 36/Triangle Lake Pesticide Exposure Investigation



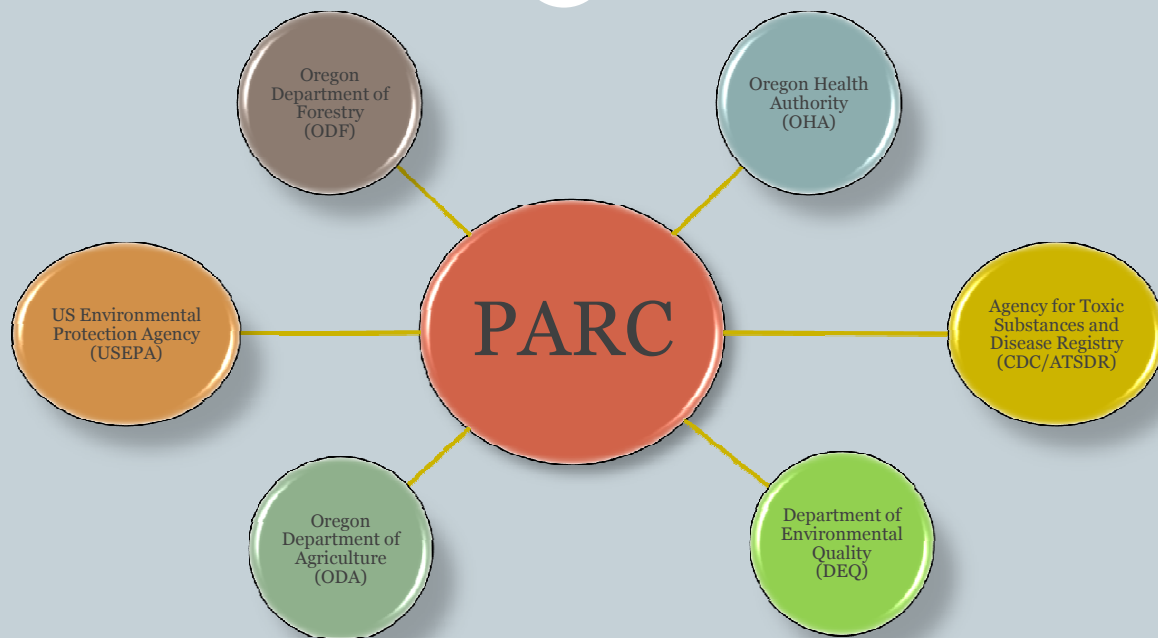
**COMMUNITY MEETING TO PROVIDE INFORMATION  
ON ACTIVITIES OF THE  
PESTICIDE  
ANALYTIC AND RESPONSE CENTER  
(PARC)**

# What is PARC?

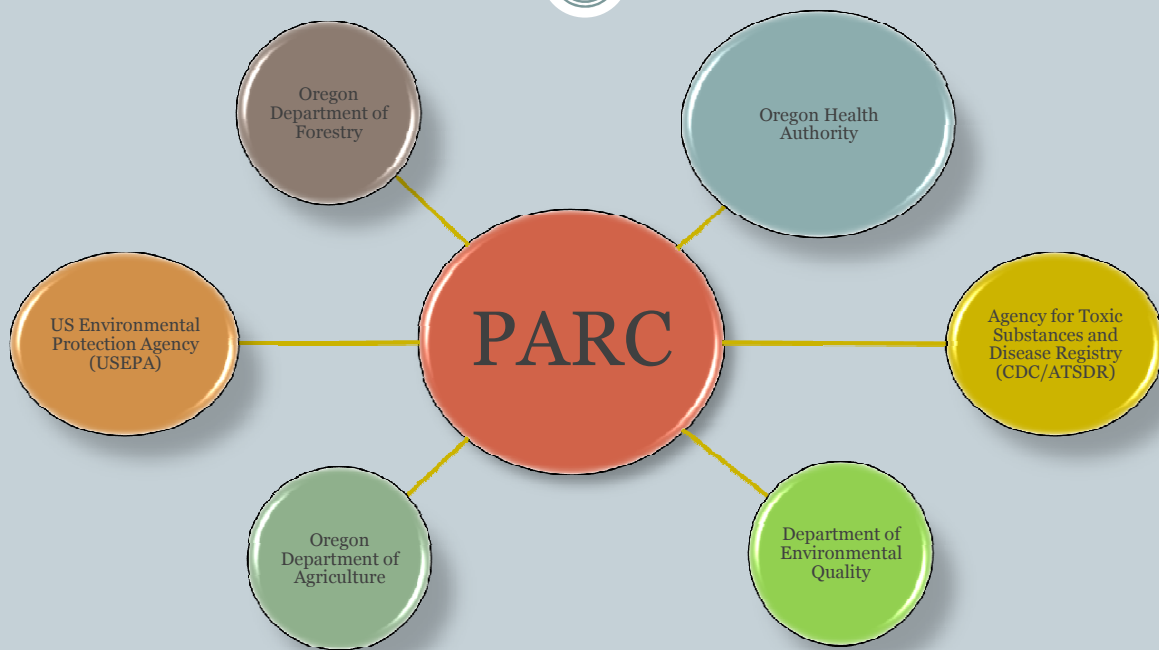
## Pesticide Analytic and Response Center



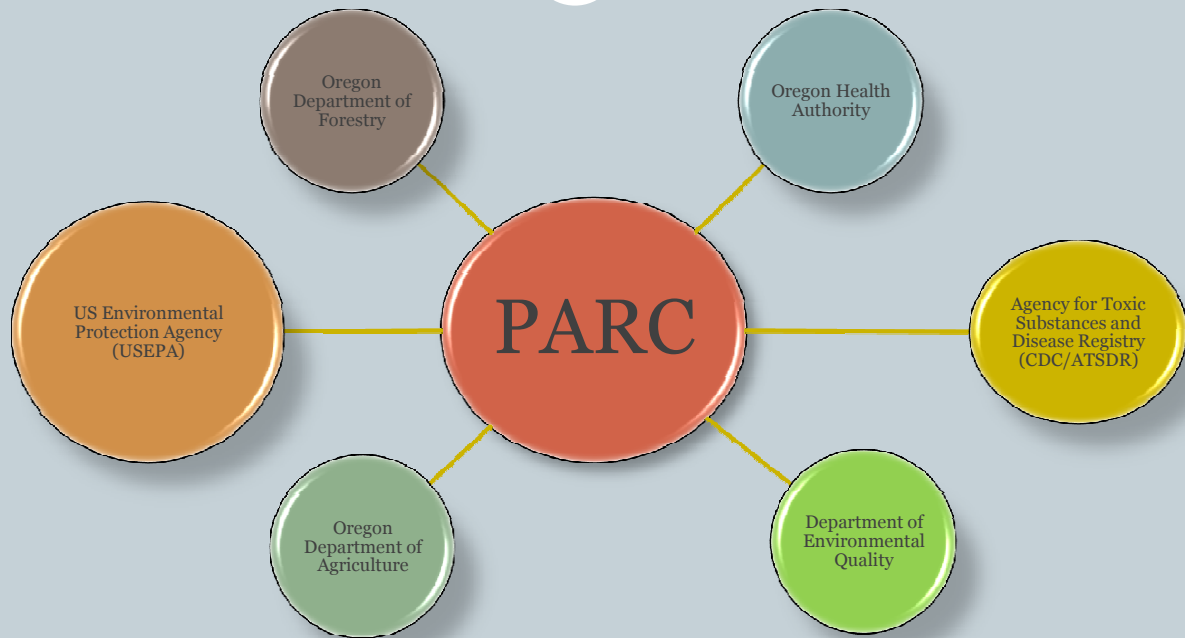
## PARC - Hwy 36 Response



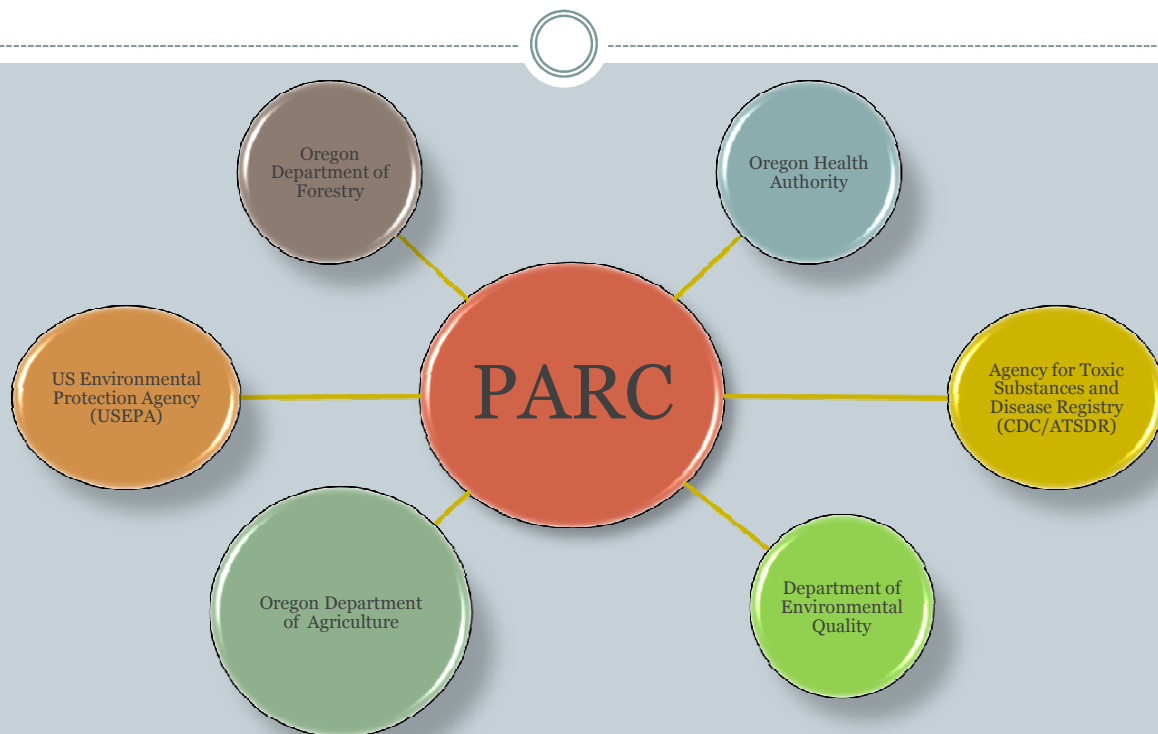
## PARC - Hwy 36 Response



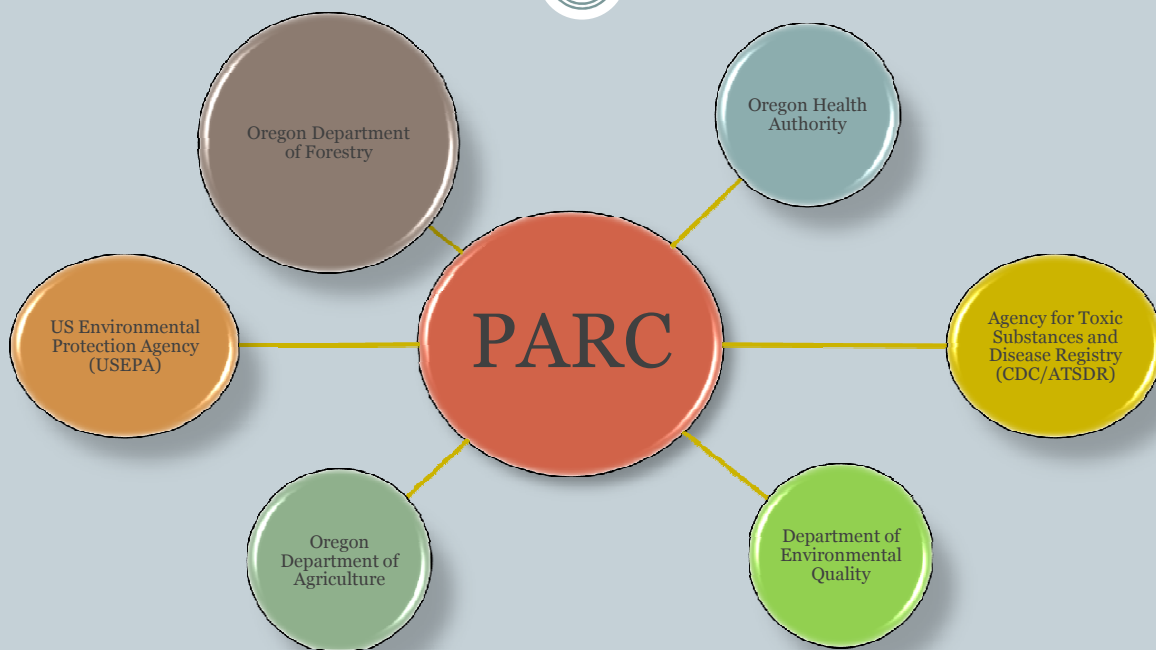
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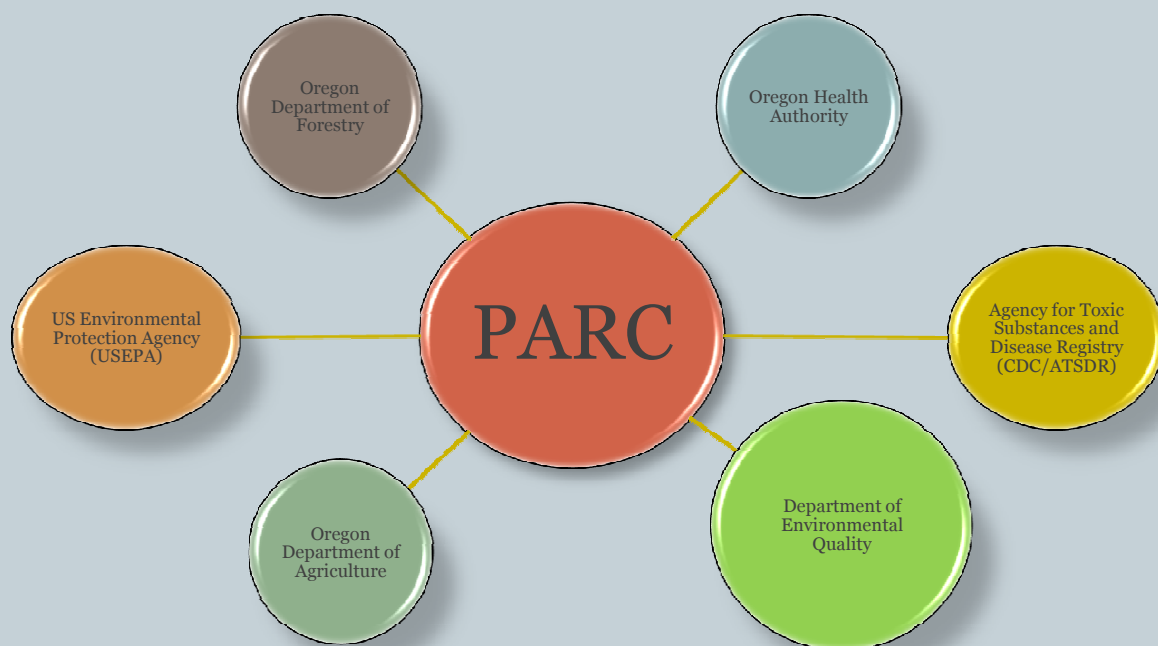
## PARC - Hwy 36 Response



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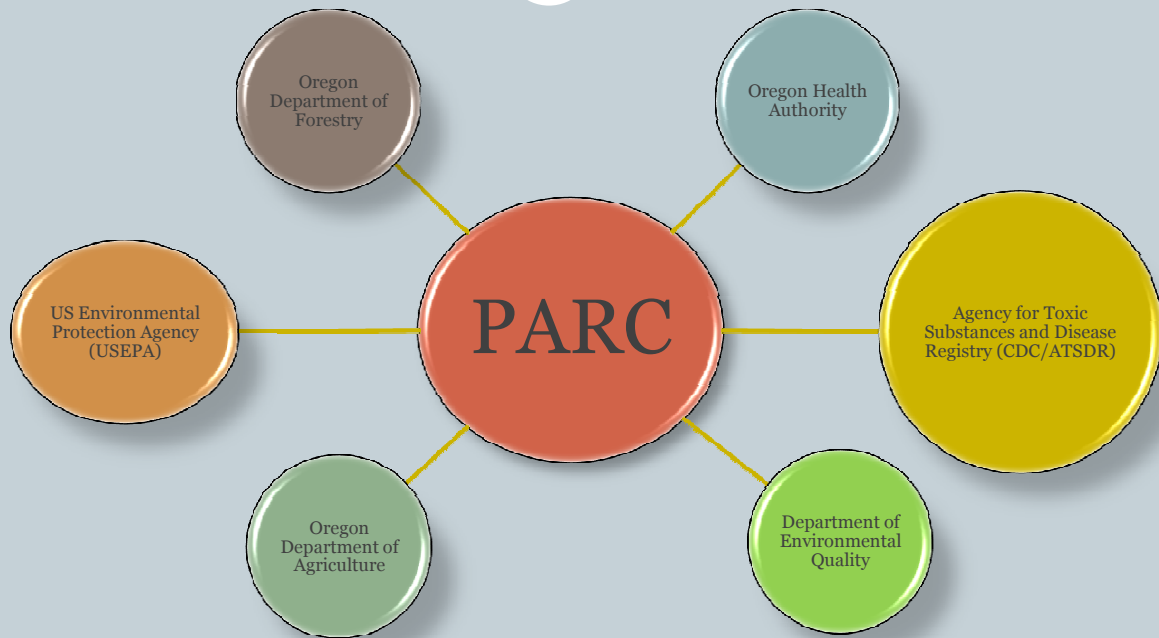


## PARC - Hwy 36 Response



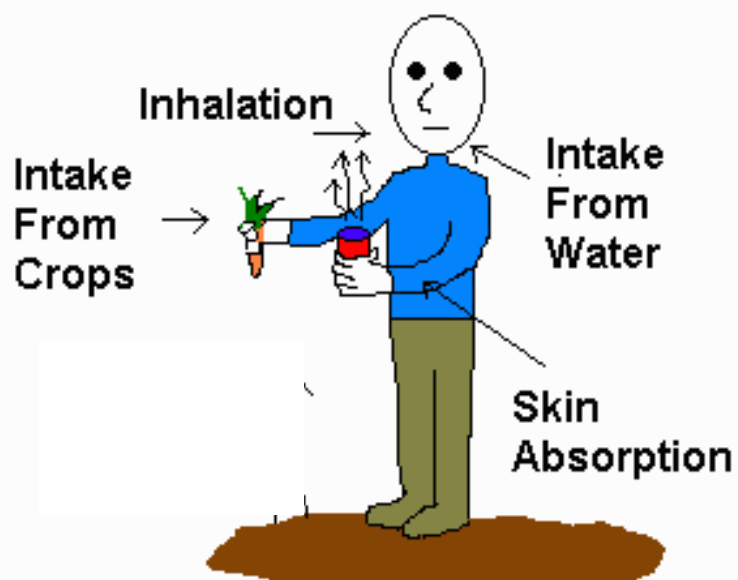


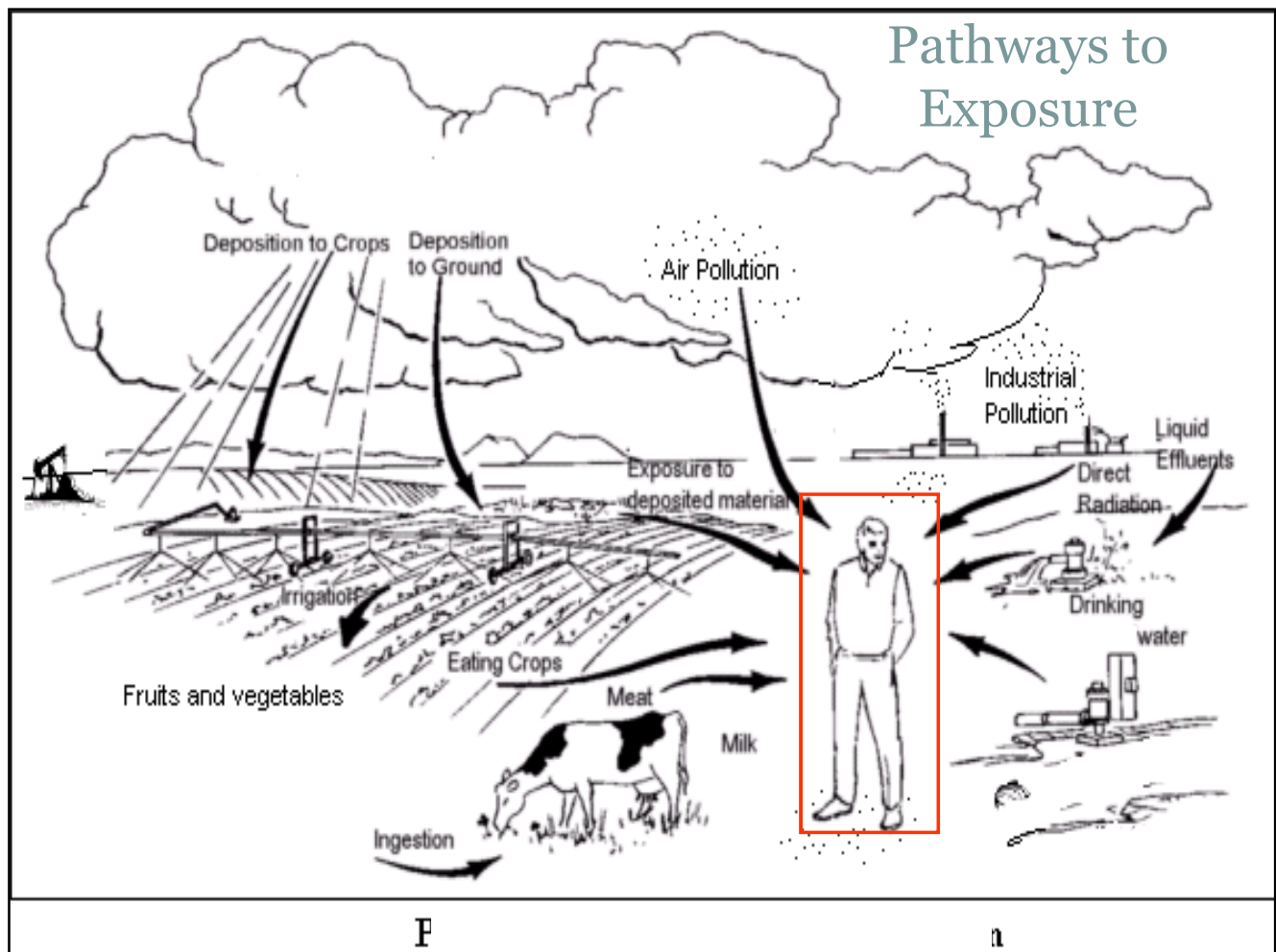
## PARC - Hwy 36 Response



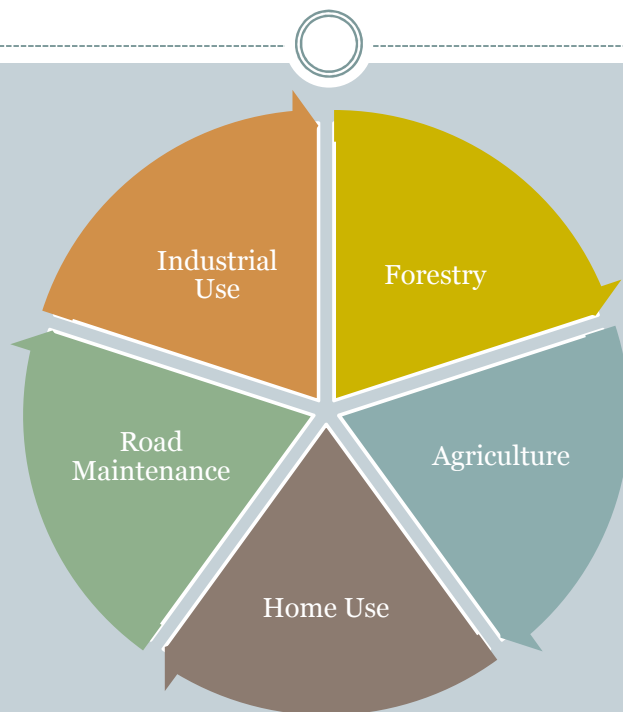
## Ways We Come into Contact with Chemicals

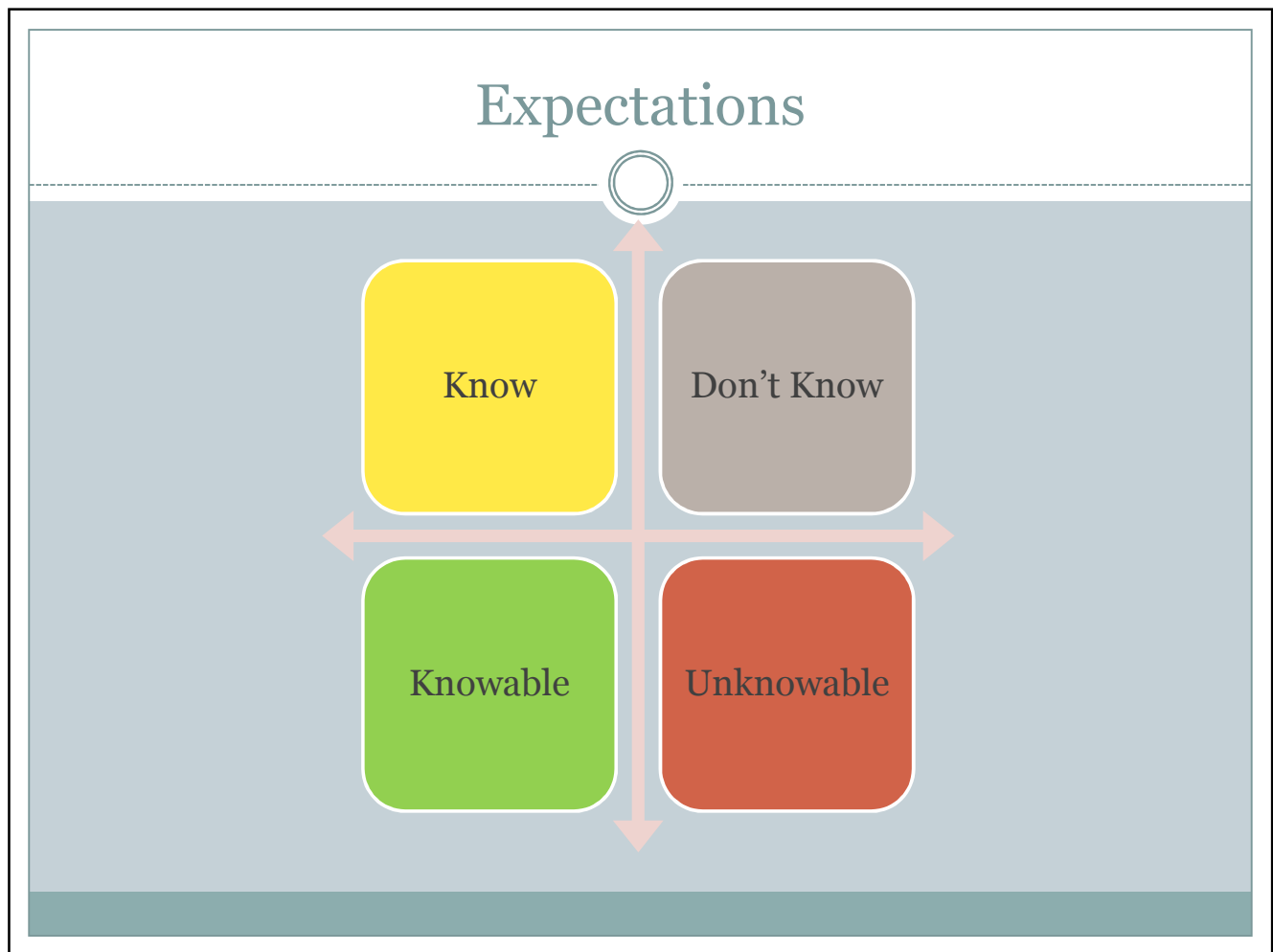
### Routes of Pollutant Intake





## Environmental Exposure to Pesticides





## Expectations

### **What We Know:**

- Pesticides are used in this area
- Multiple sources of pesticides
- People are concerned about being exposed to pesticides
- Some people had their urine tested in March/April
- Two pesticides (2,4-D, atrazine) were found in people's urine at that time

## Expectations



### **What We Don't Know:**

- Where pesticides are in the environment (water, air, land), and in the Hwy 36 area
- If, how, and how many people are coming into contact with pesticides
- If people are being exposed, don't know:
- if exposures are continuous (through water) or intermittent (through air, soil, or food)
- how long any exposures have been going on
- the levels people are being exposed to
- if people's health has been or could be affected by these exposures

## Expectations

### Know

- Pesticides are used in this area
- Multiple sources of pesticides
- People are concerned about being exposed to pesticides
- Some people had their urine tested, and pesticides were found in urine at that time

Don't Know

Knowable

Unknowable



## Expectations

Know

### Don't know

Where pesticides are in the environment (water, air, land), and in the Hwy 36 area

If, how, and how many people are coming into contact with pesticides

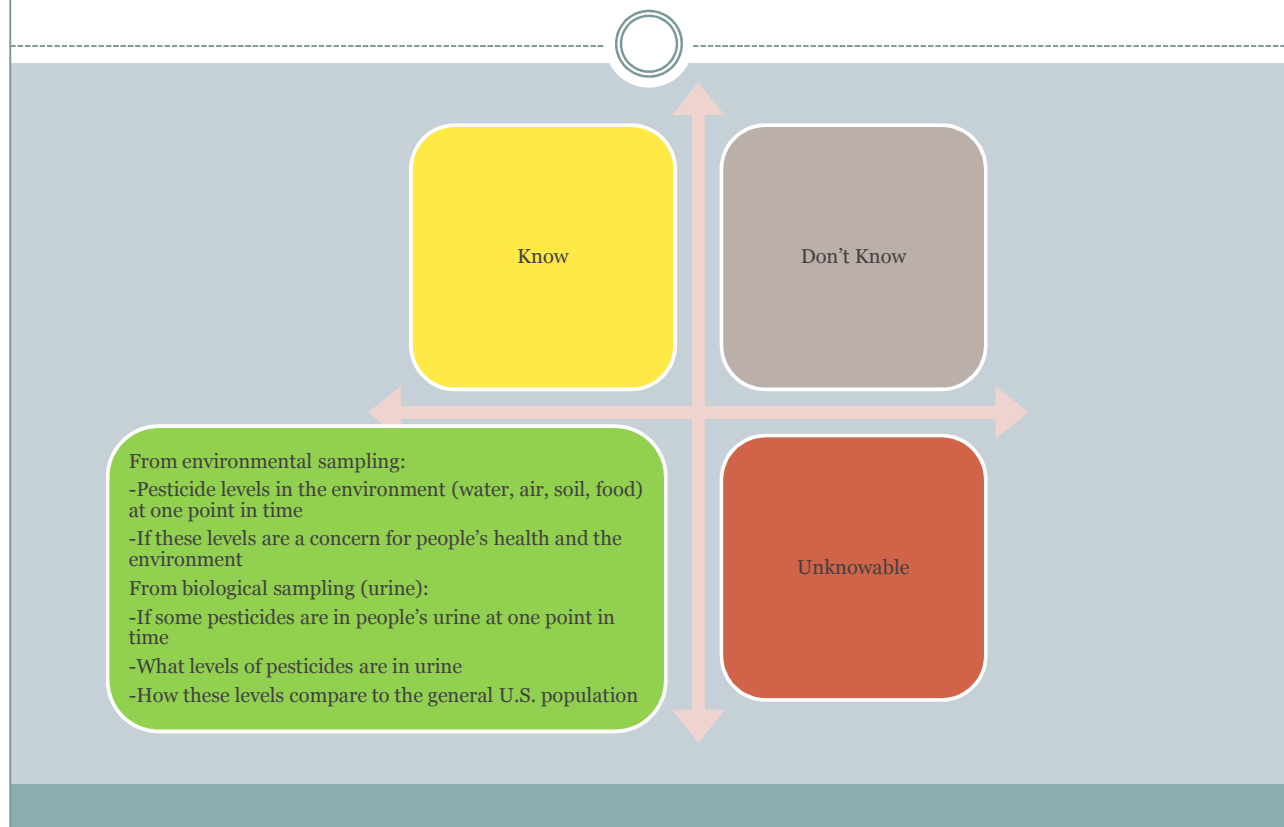
If people are being exposed, don't know:

- if exposures are continuous (through water) or intermittent (through air, soil, or food)
- how long any exposures have been going on
- the levels people are being exposed to
- if people's health has been or could be affected by these exposures

Knowable

Unknowable

## Expectations



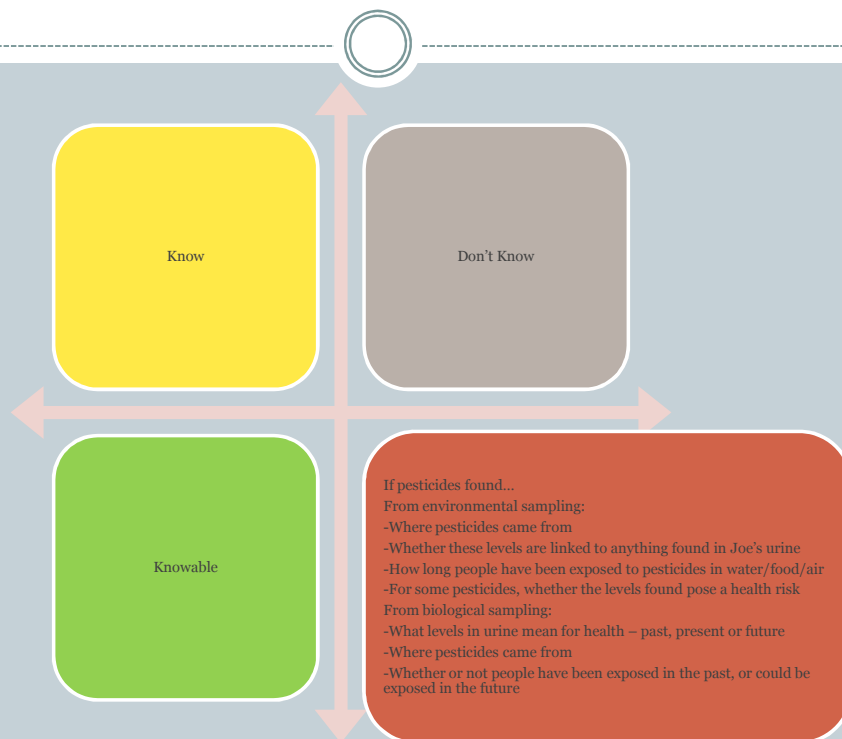
## Exposure Investigation Plan

Beginning  
Summer 2011

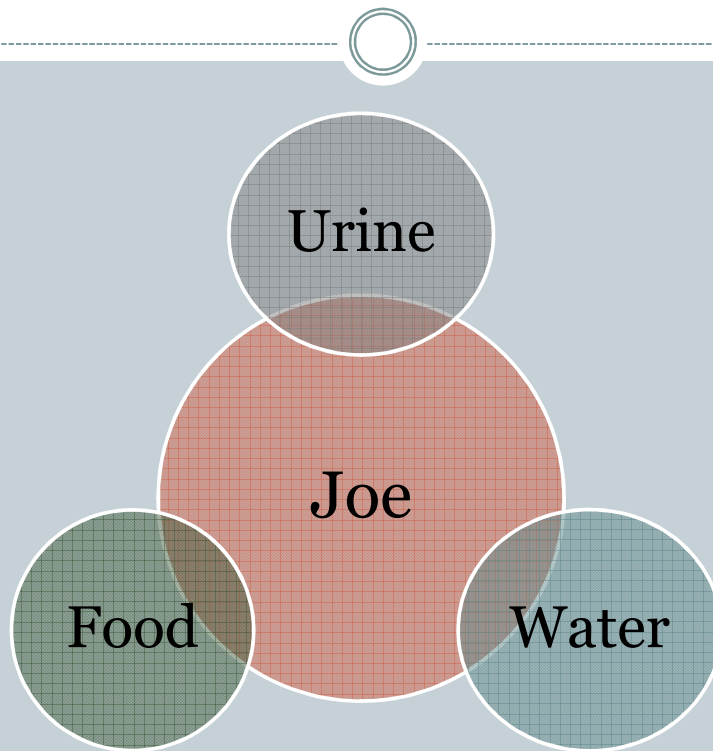
BioSamples  
(Urine)

Environmental  
Samples

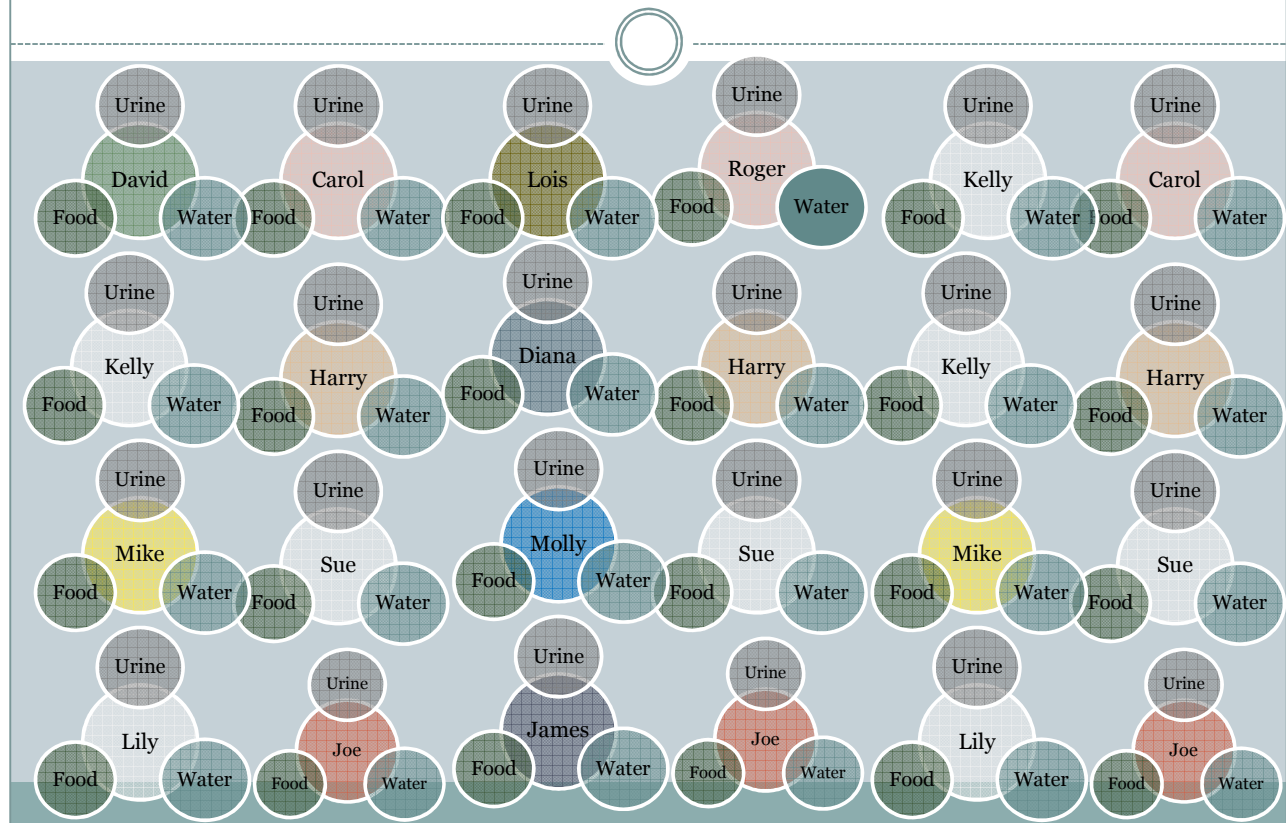
## Expectations



## Sampling Design



## Data Collection



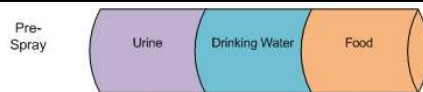
# Analysis

This is a **multi-phase** plan

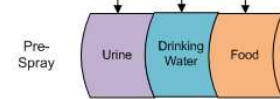
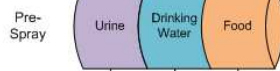
Each phase includes **human and environmental** sampling

***What*** will be sampled and ***when*** it will be sampled depends on what is measured in the previous phase

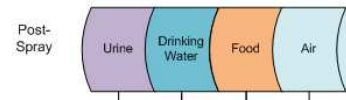
Phase I



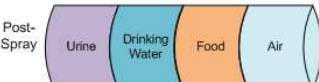
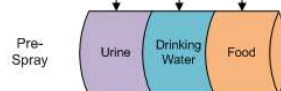
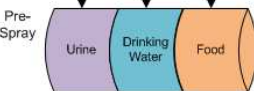
Phase II



OR



Phase III



## Next Steps



### Communication

- **Recruitment**
  - 40 Participants from 30 households are needed
  - 36 from the local area; 4 from outside the area
- **Sampling**
  - Sampling will begin this Summer and continue until at least Spring 2012
- **Results**
  - Individuals will receive results as soon as tests are complete
  - The overall results will be reported at the end of the project period



## How to contact us



**Karen Bishop**  
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**Office of Environmental Public Health**  
Public Health Division  
Oregon Health Authority