

Pinal County Air Quality  
PM10 Inventory  
Architecture Workgroup

February 13, 2009

# Objective

- By 2/1/2010 define a system to enable recurring preparation of PM10 emission inventories
- Attributes
  - Spatial scaling
  - Time-scaling
  - Future projections
  - Separately address wind vs. stagnation
  - Annual, daily & g./sec. outputs
- Stakeholder Inputs
  - Activities, intensity, timing
  - Surface conditions
  - Emission factors
  - Effectiveness of mitigation measures

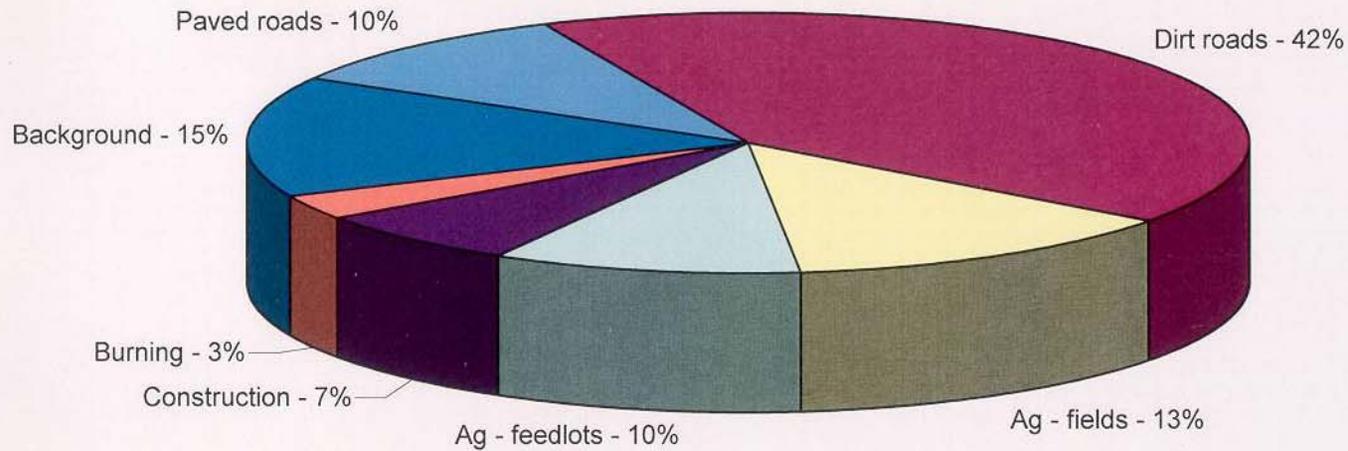
# Interim Activity Report

- EPA discussions
  - Timing of letter → Governor still uncertain
  - PCAQCD owes EPA a proposal regarding design day/site recommendation(s)
  - Inventory; the need for attempted precision
  - Modeling vs. “rollback”
- Inter-agency discussions
  - ADEQ, Public Works, IT/GIS, PCAQCD

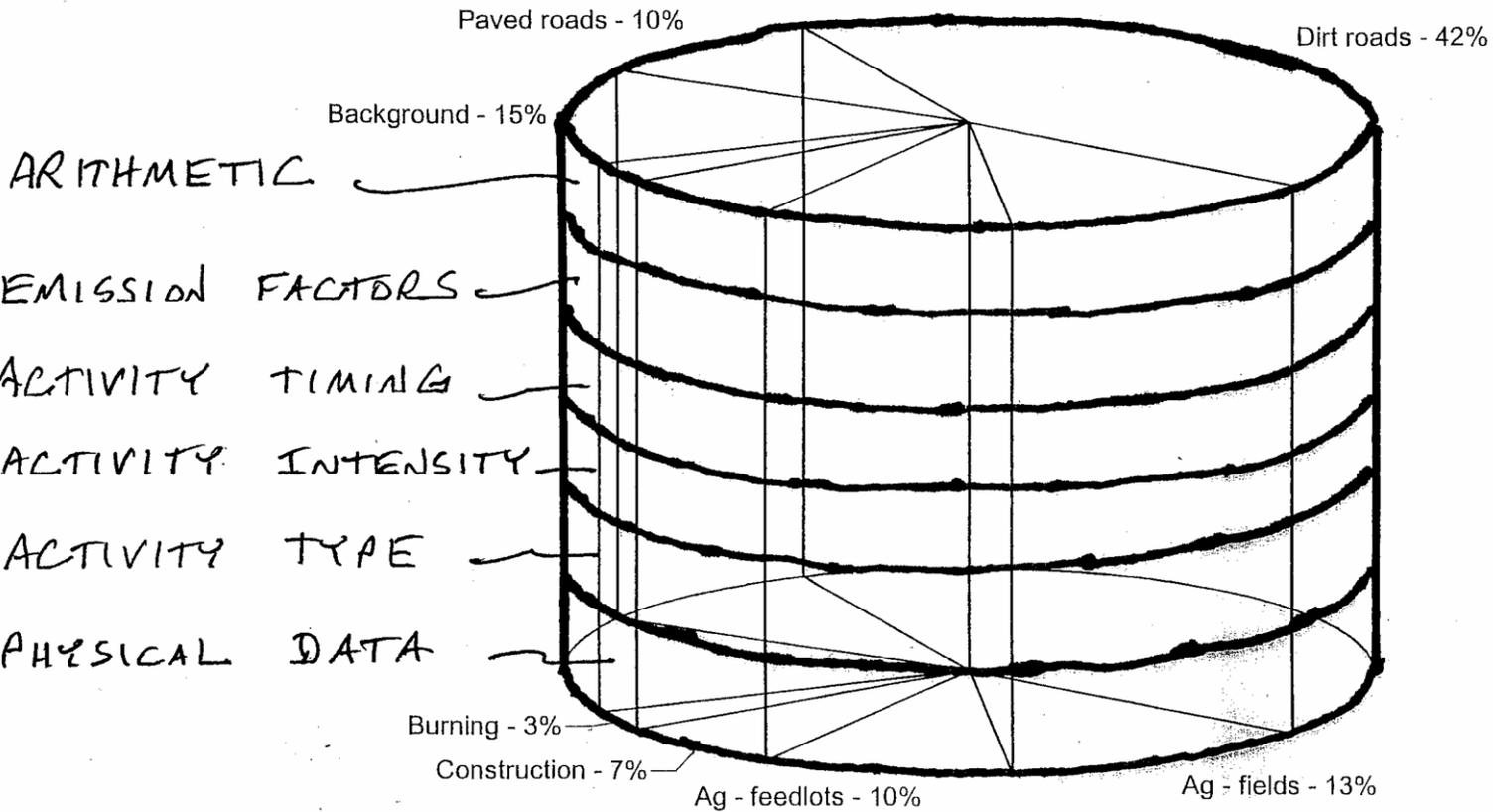
# Technical Background

- Maricopa County 2005 PM10 Inventory
  - [http://www.maricopa.gov/aq/divisions/planning\\_analysis/docs/2005\\_PM10/05\\_PM\\_All.pdf](http://www.maricopa.gov/aq/divisions/planning_analysis/docs/2005_PM10/05_PM_All.pdf)
- Salt River SIP – Chapters 4, 5 & 6
  - <http://www.azdeq.gov/environ/air/plan/pm10.html>
  - “Silo” analyses; separate inventories, separate modeling, aggregated impact calc.
  - Treatment of “background”
  - GRIDTEST

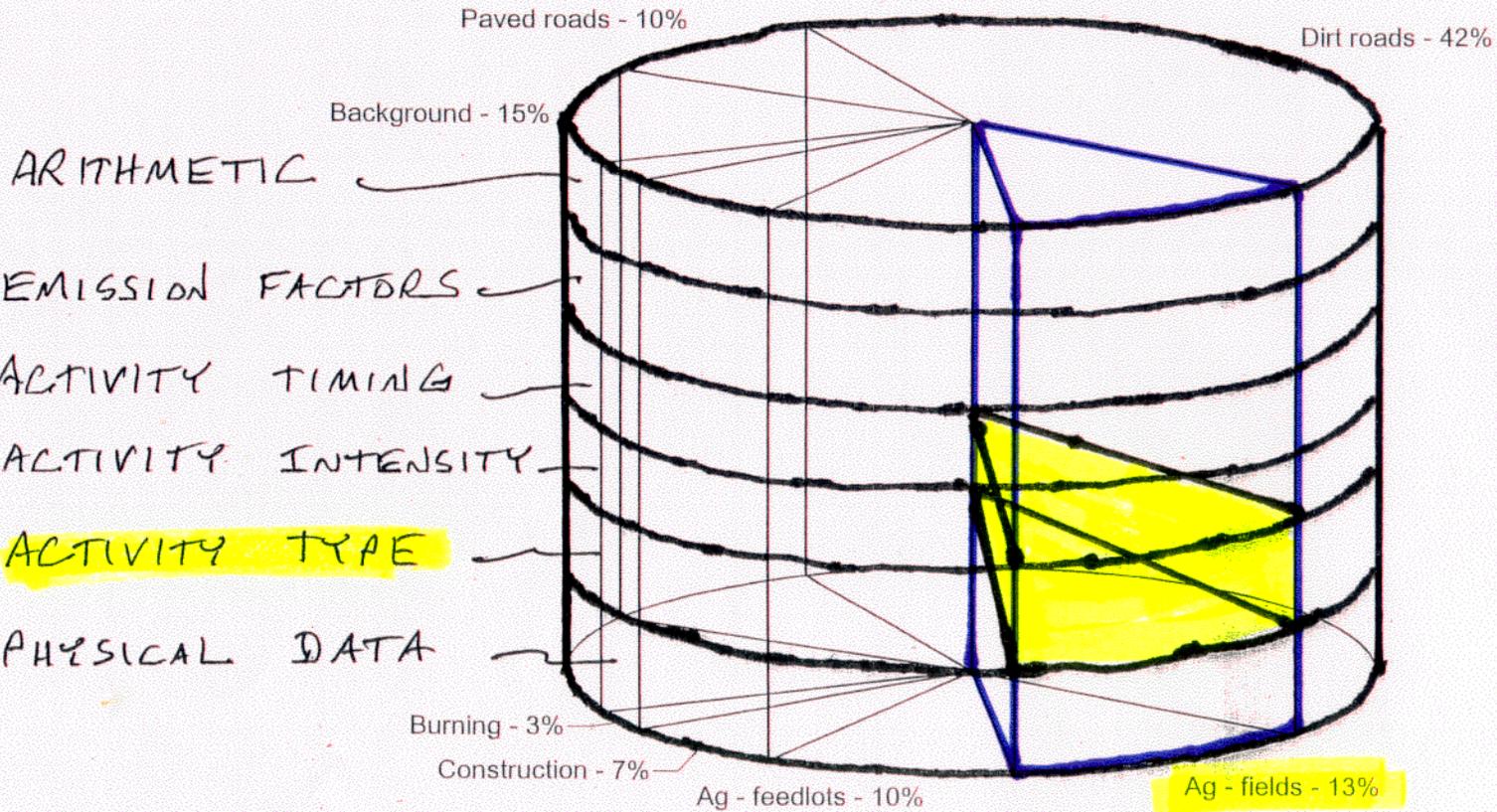
# Pinal PM10 Consensus Stagnation Inventory



# Pinal PM10 Inventory - The Layer Cake



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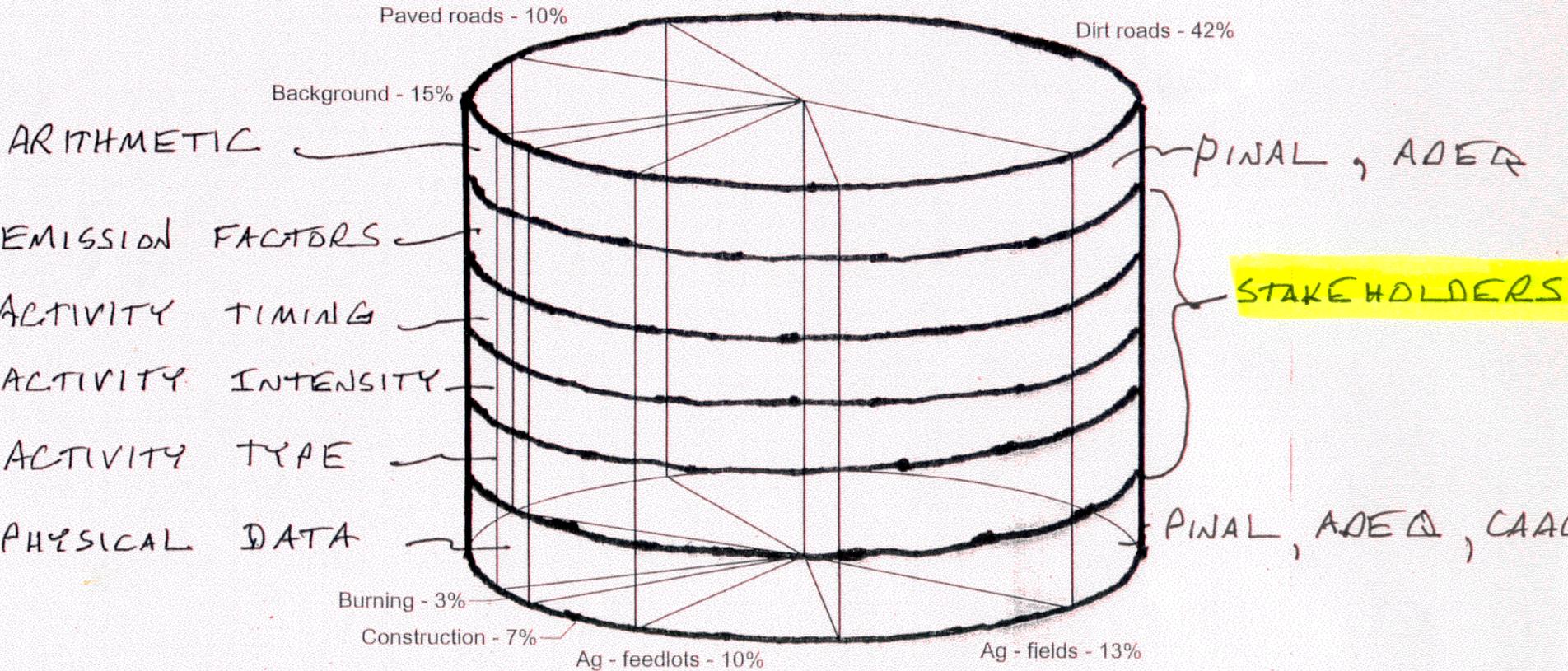


# Available Resources

- Pinal IT/GIS – Steve Frazier
- Pinal Public Works – Greg Stanley
- ADEQ – Steve Peplau
- ADOT – Beverley Chenausky

# Pinal PM10 Inventory - The Layer Cake

OWNERSHIP



# Stakeholder Input

- Process Oversight
- Sector-specific Input
  - Activity type
  - Activity intensity
  - Activity timing
  - Emission factors
- Form of input
  - Original authorship?
  - Editorial comment?

# Action Item #1

## Committee Structure

Stakeholder Committees – Layers 2 through 5

Desert Land

Paved Public Roads

Dirt Public Roads

Ag – Fields and Field Activity

Ag – Dairies and Feedlots

Construction

Burning – All Types

Background – Transport in

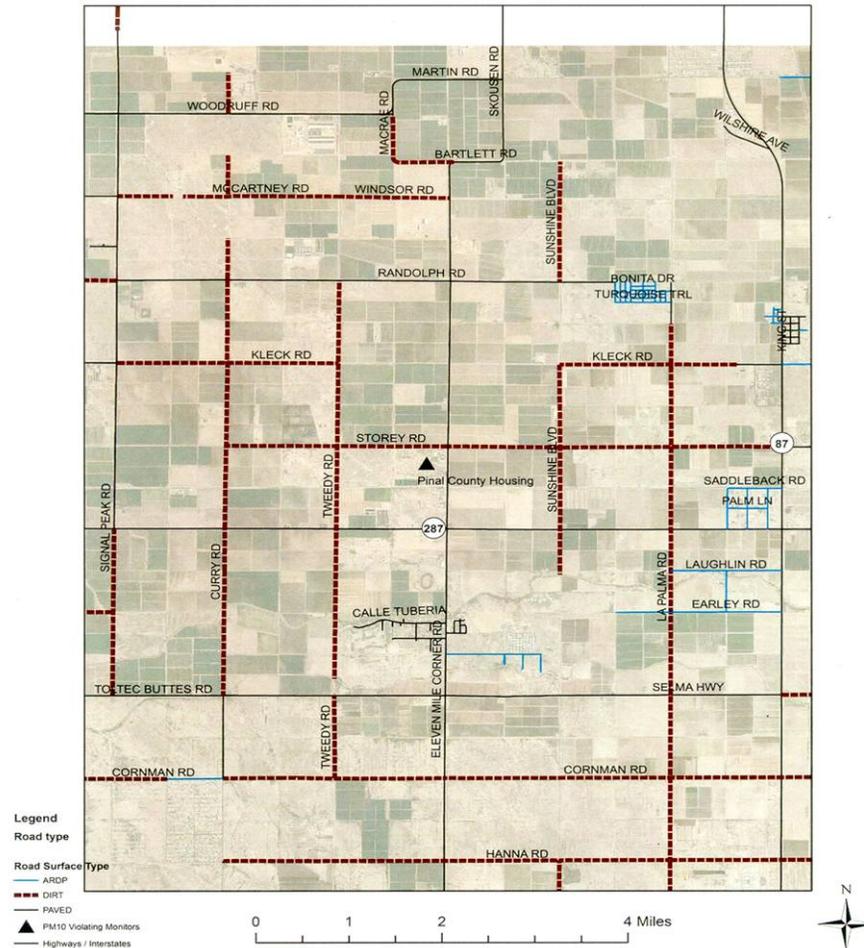
Other – In County Emissions

Technical Committee – Layers 1 & 6

Pinal Air Q, Pinal GIS, Pinal Public Works, ADEQ, +?

# Action Item #2

## A Test Case – Eleven Mile Corner



# Next Steps

- Form stakeholder/segment Committees
  - Chairman & membership
  - Define objective
  - Meeting schedule
- General Stakeholder Meeting
  - 3/6/09 9:30 a.m. Pinal EOC
  - Status review
  - Inventory Oversight Committee
    - Fix a schedule
  - Discuss RACM recommendations(?)