

# Module 9

## On-Your-Own Class Exercise



# Exercise Goals

- Develop a CO inventory for Washtenaw County, Michigan
  - Refer to handout for detailed information
- Work with data provided – not always in MOVES format
- Post-process results to obtain total inventory

# Instructions

Referring to handout:

- Create a MOVES RunSpec
- Create a blank input database
- Populate the input database with appropriate tables – all necessary files are located in “Course Files/On-your-own class exercise” folder
  - Note some files require conversion or modification
- Run MOVES
- Post-process output to generate a total inventory

# MOVES Inputs Provided by MPO

- The MPO has supplied some data files already formatted for MOVES
  - Average Speed Distribution
  - Road Type Distribution
  - Ramp Fraction
- These files are located in the MPO MOVES Files folder
- These files can be directly imported into MOVES

# Other Information Provided

- Other necessary files are provided in the Additional Data folder:
  - Temperature and humidity
  - Daily VMT
  - Vehicle Population
- This information must be properly formatted for use in MOVES
- VMT must be converted from daily to annual (use EPA's AADVMT Calculator)

# Additional Inputs that Need Modification

- Some inputs require additional modification:
  - Age distribution
  - Hotelling
  - Fuels – AVFT table
- Age Distribution and AVFT
  - Because the county's bus fleet has a known age distribution and fuel use, these inputs must be modified
  - There is a formatted age distribution file ready to modify in the MPO MOVES files folder
  - You will have to export and modify the default fuels files for Washtenaw County
- Hotelling
  - The example scenario implements an anti-idling requirement for combination long-haul trucks. All hotelling activity should be changed to APU use.

# After Running MOVES...

- Results must be appropriately summed to generate the total CO inventory
- Convert result to tons
  - Use 907,185 grams per ton to convert
- **Correct Answer: 154 tons**

# Questions?

