VisionEval (VE-RSPM) Inputs by Geography

Combined Geography

VE-RSPM Inputs
by Geography

- MArea
- A Zone
- B Zone

for illustration purposes only

Region (modelwide)

- Vehicles & Fuels (optional)
    - Hvy Truck veh mix (stock)
    - LDV CarService , veh mix (stock)
    - LDV CommService vehicle mix, %Light Trucks (stock)
    - Fuel Carbon Intensity (composites by vehicle group)
- Pricing
    - Carbon Pricing (social cost recovery)

MArea (Metropolitan area)

- Vehicles & Fuels (optional)
    - Transit vehicles & fuels mix
- Pricing
    - Congestion Fees
- Actions
    - Road lane-miles (freeways, arterials)
    - Transit Service (service miles by transit mode)
    - Operations (Ramp metering, Incident response, Signal coordination, Access management)
    - ITS speed smoothing (Freeway ATM, Art Signal optimization)
    - %VMT covered by Drivers in Eco-Drive programs

Region = MArea

Azones (optional)(group of Bzones, often counties or cities)

- Demographics
    - Population by age (HH & non-institutional Group Quarters)
    - Average Household size, %1-person households
    - Licensure drivers rate (optional)
    - Average Per Capita Income
- Veh & Fuels (optional)
    - LDV-HH Vehicle Age average
    - LDV-HH % Light Trucks (stock)
    - Electricity Carbon Intensity
- Pricing
    - PAYD insurance participation
    - Fuel & electricity costs
    - Road Cost Recovery – Registration Fee, gas taxes, VMT fee
- Actions
    - Car Service costs, substitutability & access time
    - Charging infrastructure (residential and workplace)
    - SOV Diversion (bike, personal electrics, etc.)

AZones

Bzones (often census tracts or block group size, group of travel model TAZs)

- Land Use
    - Employment by type (Total, Retail, Service)
    - Dwelling Units by type (SF, MF);
    - Income Quartiles (for allocating households to DUs)
    - Share of households in Mixed Use areas (optional)
    - Other Acres, Built Form Ds (Design & Transit)
- Actions
    - Parking restriction: Residential, work/cash-out programs, and fees
    - Demand management: Work-based (TDM), home-based (IMP) programs
    - Car Service: Availability of Low or High level of service

Bzones