The Idea: Gas Cap and Tire Pressure Checks

- Car check-up events use participatory outreach to engage drivers and teach them about air pollution while properly inflating a driver’s tires and replacing leaking gas caps.
- The U.S. Environmental Protection Agency recommends inflating tires to vehicle recommended pressure to increase fuel economy.
- Testing gas caps to ensure they are vapor tight also reduces VOC emissions and increases fuel economy by avoiding loss of fuel.

The Action:

- Organize events at local employment centers to check gas caps and tire pressure.
- Use the time during car check-ups to engage drivers and teach them about air pollution.

The Pollution Source: 23% of NOx comes from passenger vehicles¹

The Cost-effectiveness: Unknown

The Factors:

- Negligible air quality benefit, but improvements in air quality knowledge/awareness.
- Particulate Matter – Low co-benefits
- Greenhouse Gases – Low co-benefits

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¹ 19.37 tons/day of NOx. Passenger vehicles includes both passenger cars and trucks. Source: Revised Maintenance Plan For The Charlotte-Gastonia-Salisbury, North Carolina 2008 8-Hour Ozone Marginal Nonattainment Area (July 2018)