

# Why Focus on Air Conditioning?

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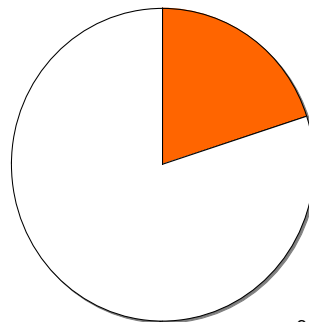
## Background - Why This Workshop?

- G8 to IEA: Find new approaches and areas to accelerate energy savings in transport sector
  - *“Do something about cars”*
- Auto fuel efficiency regulations are politically sensitive and difficult to harmonise
- IEA identified “off-test” fuel consumption as an attractive area for savings
  - Technologies
  - Policies

## Off-Test Fuel Consumption & Impacts Not Captured in Test

- AC
- Lighting
- Eco-driving benefits
- After-market
  - Tires (low rolling resistance, pressure-sensing & maintenance)
  - Lubricants
  - Luggage carriers
  - Consumer electronics

Fuel Consumption Not  
Fully Captured in Fuel  
Economy Test



*The efficient component approach will be discussed in the final session*

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## Technical Challenges for Fuel Efficient Cooling

- Thermal comfort of occupants
- Diverse sources of load
- High peak load at start-up
- Vehicle performance
- Safety
- More than just cooling - de-fogging
  
- Eliminating CFCs

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## Regulatory Uncertainties

- Which AC aspects will be captured by the new tests?
- Which fuel-saving technologies will not be captured by the test?
- Are off-test solutions and programs also off-regulation?

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## New Policies to Cool Cars with Less Fuel

- Assumptions:
  - NO new regulations
  - NO added complications to fuel economy test
- Do the potential savings justify a program?
  - For AC?
  - For AC and other components? (last session)
- Can acceptable stand-alone tests be quickly established?
- Can voluntary approaches be developed?

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## This Workshop is Unique

- We will discuss both technologies and policies
- The IEA does *not* set technical standards
- The IEA does *not* establish regulations
- Workshop outcomes will influence decision makers

*A Summary will be issued soon after the workshop*

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end