

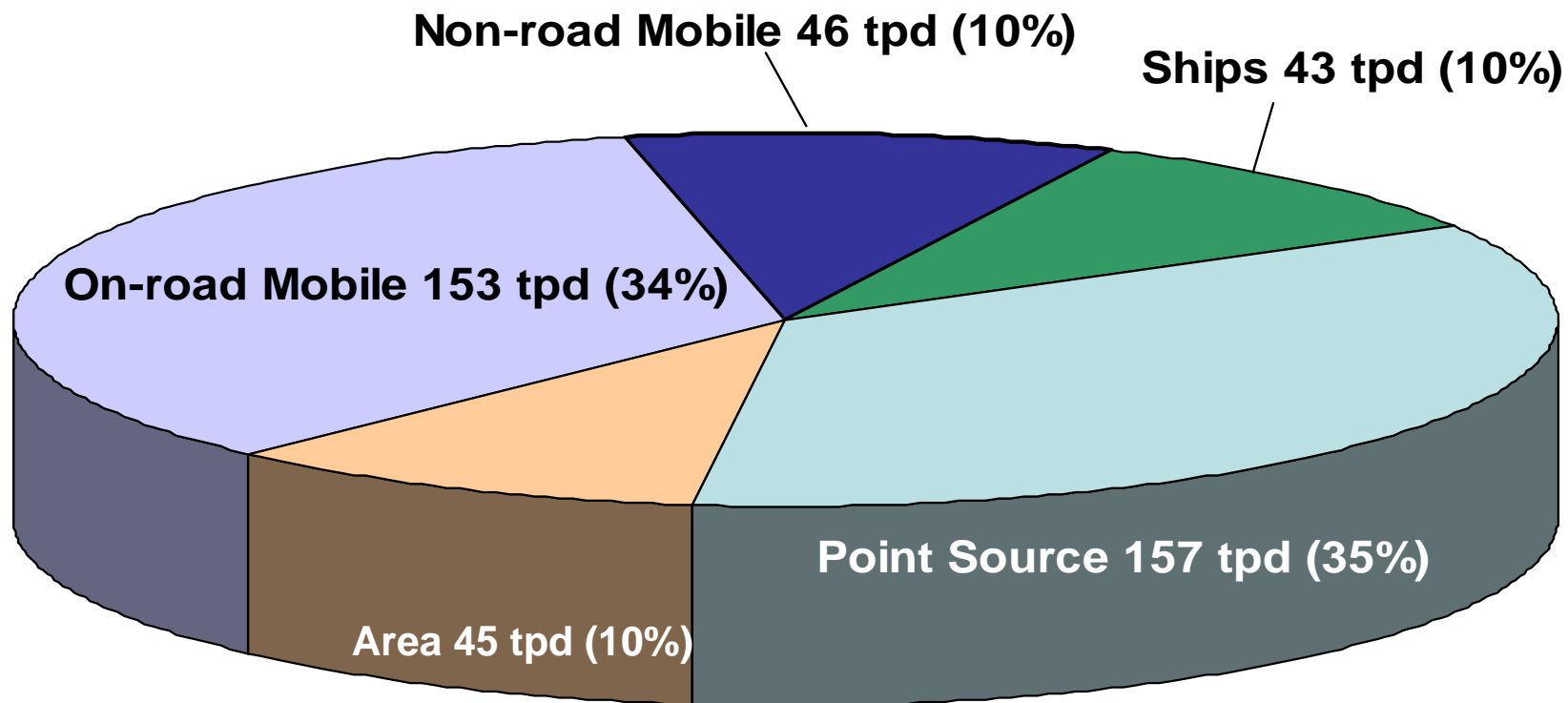
# On-road and Off-road Emissions Reduction Strategies

**Shelley Whitworth**

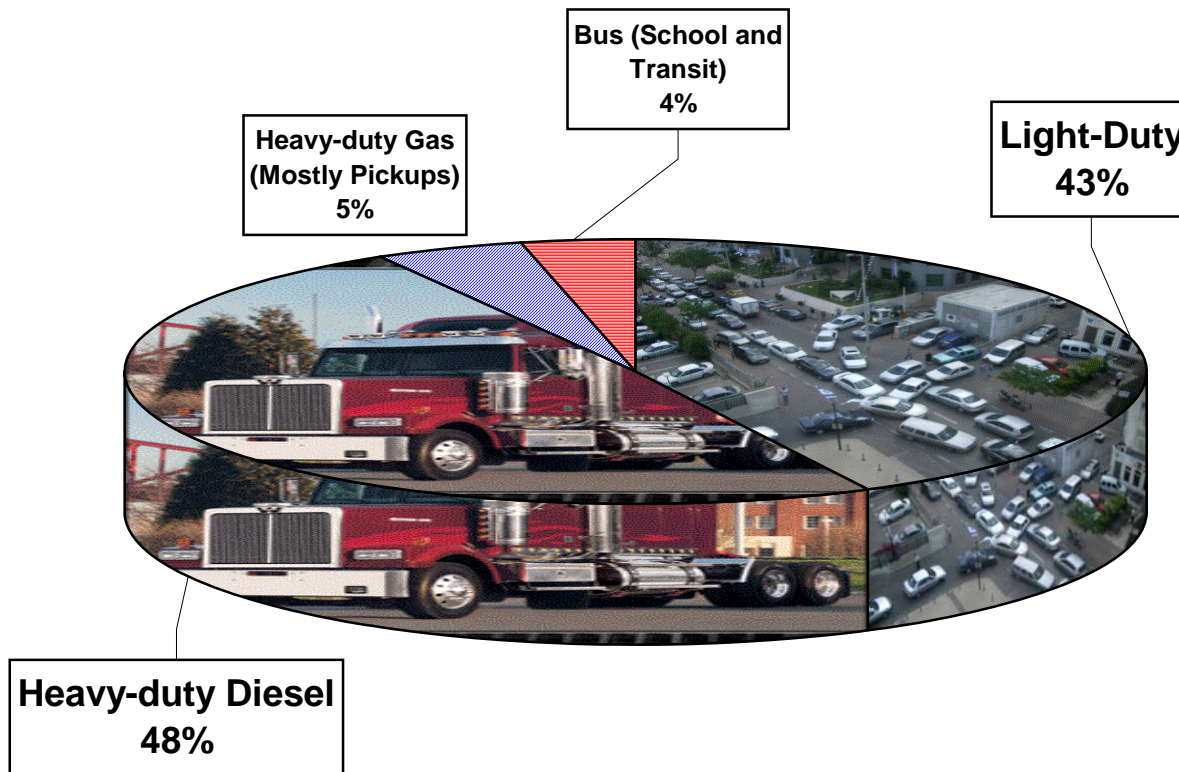
**Houston-Galveston Area Council**



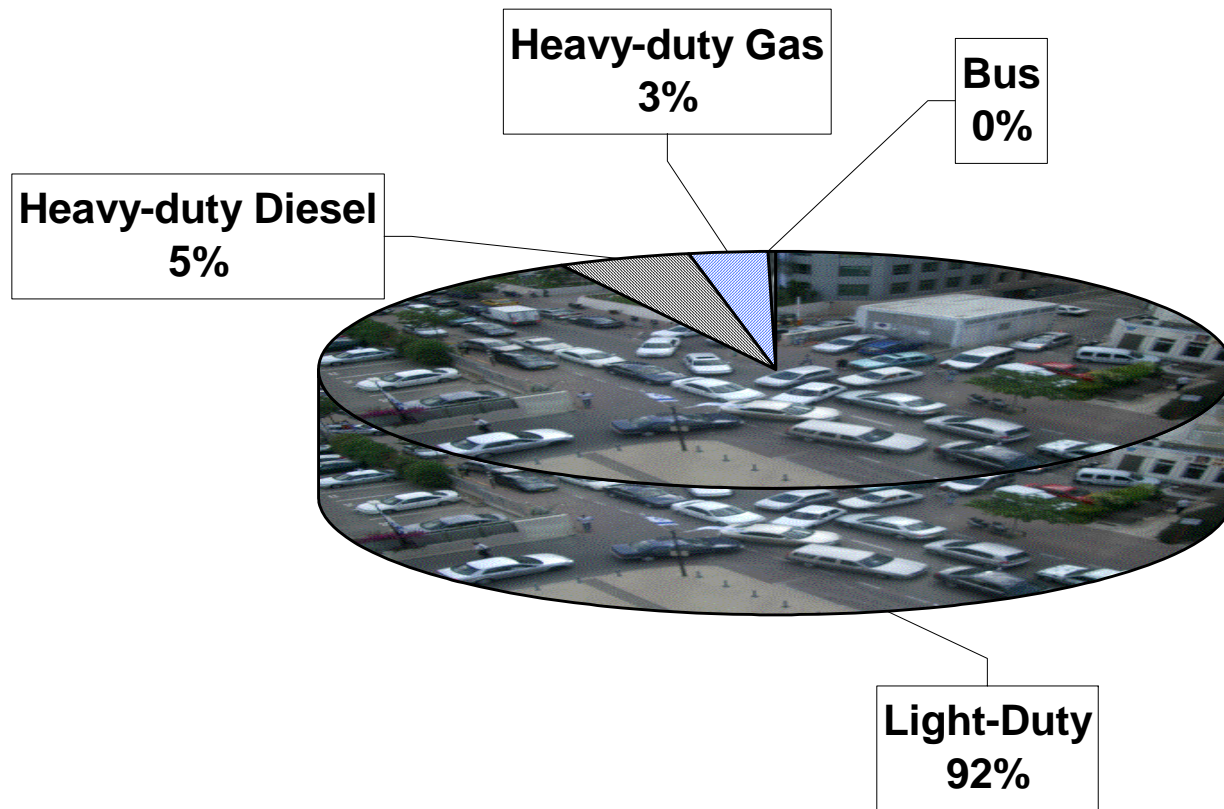
# 2009 NO<sub>x</sub> Emission Inventories (Total= 444 Tpd)



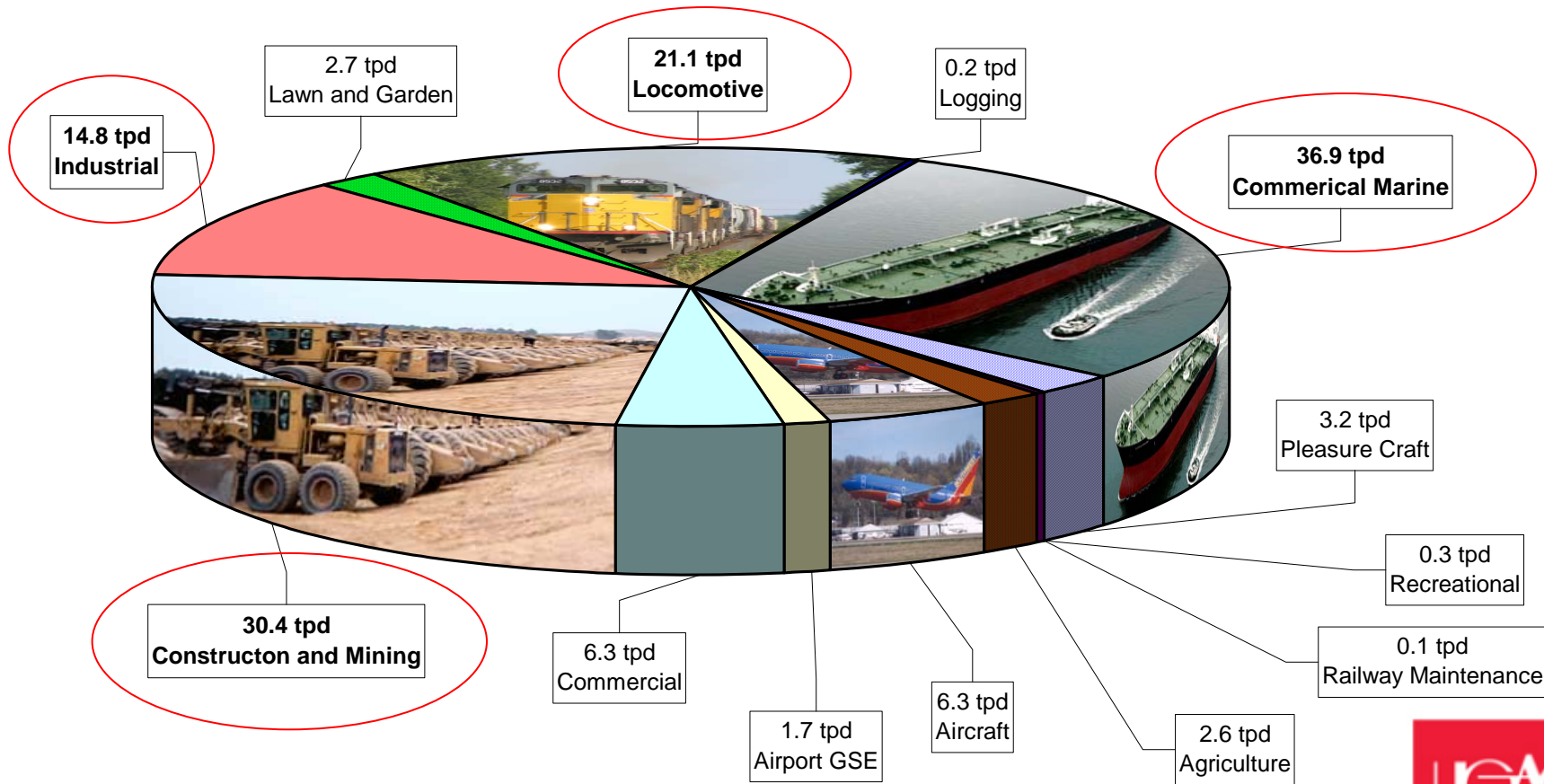
# *On-Road NOx Emissions*



# *On-Road VOC Emissions*



# Off-Road NOx Emissions



# *Creation of Mobile Source Emission Reduction Plan*

- Start with a wide range of strategy ideas (Master List)
  - Public input
  - Additional measures used elsewhere
- Describe/outline potential emission reduction strategies
- Focus on significant NO<sub>x</sub> reduction strategies
- Less focus on implementation
- Create a shortened list of most effective control strategies

# *Master List*

- Old Master List from 2006 stakeholder meetings plus supplementing a few additional measures that were thought of following the 2006-07 process
- Specific measures suggested for the greater Houston area and others that have been developed
  - Commercial marine
  - Cargo handling equipment
  - Industrial mobile activities

# *Criteria for Inclusion as a Short List Strategy*

- EPA minimum criteria for emission reduction strategies to be considered viable
  - Quantifiable: measurable reduction in activity or emission rates
  - Surplus: emission reductions not counted elsewhere in emission control plans
  - Federally enforceable: EPA could administer the program and therefore meets Federal guidance
  - Permanent: emission reduction strategy cannot be rescinded
  - Adequately supported: funding, personnel dedicated to administering the program

# *Criteria for Inclusion as a Short List Strategy*

- Feasibility/practicality: technology or administrative structure available
- Public acceptance: stakeholder burden and general public interest
- Emission reduction potential
- Cost effectiveness

# *Creation of Short List*

- Measures included will focus on:
  - Highest emission reduction control strategies
  - Strategies that deserved more attention and data
  - Strategies with fewer implementation barriers
  - And last consideration of cost or feasibility

# *Information*

- Documentation:

<http://www.h-gac.com/taq/airquality/sip>

- Contacts:

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