


# Developing Integrated Emission Strategies for Existing Land Transport (DIESEL)



## **Stratified Survey Method and Progress**

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# Purpose of Survey

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- To obtain estimate characteristics of diesel vehicles operated in the BMR categorised by type, age, mileage, maintenance practice, and use
- Survey data to complement data from DLT, vehicle manufacturers and others in effort to develop emissions inventory for the BMR
- Will provide key input into the VAPIS model



# Survey Summary

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- Collaborative effort among project partners
- Through US-AEP, hired contractor - Project Evaluation Co., Ltd. (PECO) - to conduct survey
- 2,500 interviews (surveys) of the owner/ drivers of diesel-engine vehicles
- Nine vehicle types –
  - Types 1-4: Sedan; Pick up; Van; Microbus & Passenger Van
  - Types 5-9: Fixed route Bus; Private Bus; Non-fixed route Bus; Non-fixed route Truck; Private Truck



# Three Survey Phases

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- **PILOT SURVEY:** Approx. 100 surveys at DLT Central Office. Focus mainly on Types 1-4. Extensive review of lessons learned.
- **MAIN SURVEY:** Approx. 1,800 surveys of drivers/owners of nine vehicle types
  - Types 1-4: Surveys at DLT
  - Types 5-9: Surveys at BMTA and at 100+ companies
- **FINAL SURVEY:** Approximately 600 final surveys. Allows opportunity to change some parameters



# Pilot Survey – Main Lessons Learned

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- Survey form generally sound – minor changes in questions and in formatting
- Change survey method to allow surveyor to check registration book and odometer
- Vehicle types 5-9 will be handled on fleet basis instead of by interviewing individual drivers/owners
- Latter will require revised survey form and new, more experienced survey team



# Next Steps

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## **ACTIVITY**

## **DATE**

<b>Complete surveying at DLT</b>	<b>Now - Feb. 20</b>
<b>Develop survey form for types 5-9</b>	<b>Now - Feb. 27</b>
<b>Conduct surveys for types 5-9</b>	<b>Feb. 27 - March 15</b>
<b>Input data</b>	<b>Ongoing</b>
<b>Final survey</b>	<b>March 15-30</b>
<b>Final report</b>	<b>Mid-April</b>



# Contact Information

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