

# **Air and Noise Pollution Reduction Strategies for Tricycle Sub-Sector in Puerto Princesa City**

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# Background

- Assessment of tricycle sub-sector in Puerto (April – Aug 2004)
- Prioritization of strategies (Oct 2004)
- Additional assistance for pilot testing of strategies (April 2005)
- LOA signing (Sept 2005)



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# Project Objectives

- Reduce environmental and health hazards by reducing air and noise pollution from tricycles without impairing the drivers' / operators' income levels by:
  - i. Promoting the use of more efficient tricycle engines and sound operation practices;
  - ii. Developing livelihood & entrepreneurial skills of tricycle drivers/operators; and
  - iii. Strengthening local capacities on CAA enforcement



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# Project Components and Activities

- A. Preventive Maintenance – About 481 tricycle drivers/operators were trained on preventive maintenance (clean-up) trainings
- Selection of participants, equally distributed among TODA population
  - 3-hr lecture, demonstration and hands-on training
  - Distribution of manuals on 2-stroke and 4-stroke engines



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## B. Engine Mechanics - 25 tricycle drivers/ operators are now certified engine mechanics (Class B National Certification)

- Selection of participating tricycle drivers/  
operators, each signed LOA  
with respective TODA
- At least 400-hours  
vocational course program
- Evaluation and certification  
as engine mechanics



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- C. TRIKE Fund - \$150,000 TRIKE Fund is established as seed money for: (i) purchase of new/more efficient engines, (ii) investment on alternative livelihood, and (iii) construction of service centres
- \$120,000 from ADB and \$30,000 from CGPP
  - Selection of an MFI to administer and manage the Fund
  - Special interest rates and repayment packages compared to typical MFI loans



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## D. Livelihood Development - at least 50 tricycle drivers/operators are trained on alternative livelihood

- Provision of soft loans for investments in alternative livelihood activities
- Partnership with national and local agencies on training
- Partnership with local industries' associations for product marketing



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## E. Ambient Air Quality Management – establishment of effective database

- Partnership with laboratories specializing in air pollution assessment
- Training for City ENRO personnel in installation, operation and maintenance of air sampler
- Results of air sampling analysis used to establish monitoring data



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## F. Roadside Monitoring and Apprehension

- Selection of City ENRO officers as deputies
- Demonstration and hands-on training on the use of gas analyzer and noise meter
- Actual roadside monitoring
- Updating of fines and penalties
- Actual roadside apprehension



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# Lessons Learned

- A need for a comprehensive study
- Involvement of stakeholders on the identification and prioritization of policies and strategies
- Involvement of target groups in planning, implementation and monitoring



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# THANK YOU !!!

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