RURAL TRANSPORT TRAINING MATERIALS



Module 5: Social and Environmental Issues An investigation into the constraints of the availability of motorised transport services in rural Ghana Session: 5.5 Part 2 – Case Study

Presentation: 5.5b









1. Introduction

Learning Objectives

By the end of the session participants will be able to:

- Describe a range of different survey methods used to identify transport performance in rural Ghana
- Explain the factors effecting poor people's access to transport in rural Ghana
- Analyse the key lessons learnt and how they may be applied to other countries



Session Overview

Project summarySurvey instruments



2. Project summary

- Rural poverty linked to access to essential facilities
- Access comprises
 - extent and quality of infrastructure
 - siting of facilities relative to residential areas
 - availability of transport services
 - affordability (time and/or money) of travel to facilities



I997-1998 TRL and DfID conducted 2 survey exercises in Ghana

- Surveyed
 - 7 districts
 - 2 peri-urban villages
 - 57 villages (Some on main road, others far from any motorable track)
- Interviewed
 - 412 households
 - 197 vehicle owners



Findings

- Population density has a large impact on the cost and provision of rural transport services
 - i.e. better services are associated with higher population densities
- In Northern Ghana far less use is made of motorised transport than in the south
 - north is poorer than south
 - more bicycle ownership in north than south
- Large differences in fares exist between districts
 - suggests that operators and unions have less influence where competition is greater



High goods charges for short distances

- In southern Ghana expenditure on transport increases as income rises
- Market-related trips
 - were the main trip purpose outside the village
 - accounts for majority of motorised transport use
- Demand for motorised transport is elastic
 - trip making by households is sensitive to income and fare levels



3. Survey Instruments

3 types of survey instruments used

Household questionnaire

Participatory

mapping

checklist

Vehicle operator questionnaire

> SSATP Africa Transport Policy Program

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Household questionnaire

- Demographic & household composition
 - household head's age, sex, marital status
 - men and women (18 years old or over)
 - children under 18
- Income & livelihood
 - estimates of household income
 - agricultural and non-agricultural income source
- Expenditure
 - food (grown and purchased)
 - other consumables
 - clothing
 - health and education fees



Possessions & property

- to assess prosperity
- ownership of vehicles, bicycles, radios, etc.
- house type and fuel use
- Travel patterns
 - journey frequency, type, distance, mode of travel & fare
 - disaggregated by gender
- Goods transport charges
 - charges per quantity and distance
- Reason for dissatisfaction with motorised transport services
 - rank of reasons why they do not make more use of motorised transport





- Meeting with village headmen, assemblymen, schoolteachers, etc.
- To obtain permission for household interviews
- To collect information
 - village size
 - location of water sources, markets, schools, religious centres, etc.
 - type and extent of agriculture
 - type and quality of road links
 - type and frequency of motorised transport services



Vehicle operator questionnaire

General information

- vehicle type, ownership, load capacity, crew composition, use, and type of operation
- vehicle route, road quality, distance, time, trip frequency, charges and difference between the wet and dry seasons
- Orivers of passenger and goods vehicles
 - service demand
 - how and where goods vehicle drivers find their loads

Seasonal constraints on vehicle operators



Vehicle operating costs and maintenance

- vehicle age, tax, insurance, fuel type and costs, responsibility for maintenance and servicing, frequency of servicing, vehicle utilisation and availability of spare parts
- Small enterprise services in vehicle maintenance
- Payment for vehicle
 - how the vehicle has been / is being paid for
 - availability of credit
 - reasons for purchase of particular type vehicle

What changes would improve business



Transport survey methods in rural Ghana



Group discussion

- 1. What key lessons can we draw from this case study to apply to other countries & projects?
- 2. What recommendations would you make for improving the survey methods for this project?

