Ethics and corruption in education

International course on: Public Expenditure Tracking Surveys in Education

(Phnom Penh: 21-30 June 2004) Cambodia, Kenya, Laos, Mongolia







THE WORLD BANK





A first international course on "Public expenditure tracking surveys (PETS) in education" was organised jointly by the International Institute for Educational Planning (IIEP) and the World Bank Institute (WBI), from 21 to 30 June 2004 in Phnom Penh.

Hosted by the Government of Cambodia, this course aimed at introducing participants to the methods of PETS; allowing them to practically implement a PETs through an exercise (Ruritania); and discussing how this methodology can be applied to the situation in their respective countries.

This report includes the various materials that were prepared and used for the course, in particular: the outlines of the presentations by the faculty, the Ruritania exercise, as well as the reports by country teams. The appendices contain the speeches during the official opening ceremony, the list of participants as well as some bibliographical references.

TABLE OF CONTENTS

1. Agenda

- 2. Outlines of the presentations made by the faculty
- 3. Ruritania exercice
- 4. Ruritania sources
- 5. Outlines of the presentations made by country teams

Appendix I. Opening ceremony (speeches)

Appendix II. List of participants

Appendix III. Bibliography

COURSE AGENDA 21 – 30 June, 2004

Day One	INTRODUCTION	
8:30 - 9:30	Official Opening:	
	Welcome Remarks by	
	- H.E. Im Sethy, Secretary of State,	
	Ministry of Education, Youth and Sport,	
	Cambodia	
	- Mr. Etienne Clement, Representative of	
	UNESCO Phnom Penh	
	- Mr. Robert Talercio, Senior Economist,	
	The Word Bank, Cambodia Country	
	Office	
	Opening and Keynote Speech by H.E. Keat	
	Chhon, Senior Minister and Minister of	
	Economy and Finance, Cambodia	
9:30 - 10:15	Introduction to the course; introduction of	Jacques Hallak [JH],
	course participants	Muriel Poisson [MP]
		& Don Winkler [DW]
10:30 - 12:00	Lecture: Resource leakage and corruption in	MP & JH
	education.	
1:30 - 4:00	Lecture: An overview of PETS—rationale, design,	Ritva Reinikka [RR]
4.00 5.00	data collection, analysis, dissemination, impact.	
4:00 - 5:00	Show and tell: Has your country already prepared	MP & JH
	a PETS? If yes, explain how it has been	
	organized, its results and your views about it.	
	What are the main questions (maximum 3) that	
	you would like a PETS to help clarify in your	
	country? (It could be either a first or second	
	survey).	
Day Two	INTRODUCTION (continued)	
8:30 - 10:00	Lecture: The impacts of PETS on education.	M. Ojoo [MO]
10:30 - 12:00	Lecture: Multi-purpose school surveys [OSDS]	RR
1:30 - 3:30	Lecture on the organization of decision-making in	DW
	education.	
4:00 - 5:00	Country team meeting: How is education	
	resource decision making organized in our	
	country?	

Day Three	Section 1: PETS Preparation	
	<u> </u>	
8:30 - 9:30	Ruritania Exercise: Introduction	MP & JH
9:30 - 10:00	<i>Mini-Lecture</i> on identifying the objectives and issues for the PETS.	MP & JH
10:30 - 12:00	Ruritania Exercise # 1.1: Group work on objectives and issues.	MP & JH
1:30 - 2:00	<i>Mini-Lecture</i> on specifying the sources and uses of funds in the sector.	DW
2:00 - 3:30	Ruritania Exercise # 1.2: Group work on resource flow and allocation.	DW
4:00 - 5:00	Country team meeting: What are the objectives of a PETS in our country? What policy issues do we wish to inform? How do we get the data?	
Day Four	Section 2: PETS Design	
8 20 0 00	Mail a dum an late or aller an late in the little	
8:30 - 9:00	Lecture of data quality and availability.	MIOKO Saito [MIS]
9:00 = 10:30	Letture : Sampling	MS
10.30 - 12.00	Mini Lacture on questionnaire design for data	
1.50 - 2.00	management	
2:00-3:30	Ruritania Exercise # 2.2 : School questionnaire.	IN
4:00 - 5:00	Country team meeting: What are our data requirements? Which data are already available? Which questionnaires do we need to develop? What sampling framework is needed?	
Day Five	Section 2 (continued)	
8:30 - 10:00	Lecture : Government questionnaires.	MO & IN
10:00 - 12:00	Ruritania Exercise # 2.3 : DEO questionnaire	MO & IN
1:30 - 3:00	<i>Lecture</i> : The finance of public K-12 education: the flow of funds, incentives for efficiency with examples from Indonesia.	Prima Setiawan
3:30 - 5:00	Plenary Session: Team reports on Sections 1&2	

8:30 - 9:00 Mini-Lecture on organizing and managing the work. MO 10:30 - 12:00 Ruritania Exercise # 3.1 : Assessing local capacity and personnel required. MO 1:30 - 2:00 Mini-Lecture on implementing school and government surveys and data processing. IN and MO 2:00 - 3:30 Ruritania Exercise # 3.2. : Group work on implementing surveys and monitoring. MO 4:00 - 5:00 Country team meeting: What is the composition of our PETS team? Which questionnaires do we need to develop? How and when should the survey work be done? IN Day Seven Section 3 (continued) IN 8:30 - 9:00 Mini-Lecture: Data entry and cleaning. IN 9:00 - 10:30 Ruritania Exercise # 3.3 : Data entry and cleaning. IN 9:00 - 10:30 Lecture: Analysis, Reporting, and Dissemination. MO 11:00 - 12:00 Lecture: Analysis of QSDS MO 11:30 - 2:00 Mini-Lecture: Data analysis of PETS—focus on leakage. MI
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1:30 – 2:00 Mini-Lecture: Data analysis of PETS—focus on leakage. MP & JH
2:00 - 4:00Ruritania Exercise # 4.1&4.2 : Group work on analysis required to address the objectives and issues of the PETS.MP
4:00 – 5:00 Country team meeting: What analysis is required to answer the issues addressed by the PETS in our country?
Day Eight Section 4 (continued)
8:30 – 10:00 <i>Lecture:</i> Is PETS a reliable tool to remedy leakage MP & JH and corruption?
10:30 – 11:00 <i>Mini-Lecture</i> on information dissemination MO
10:30 - 12:00Ruritania Exercise # 4.3.: Group work on reporting and dissemination strategy and plan.MO
1:30 – 3:30Plenary discussion of team reports on Sections 3 & 4
4:00 - 5:00 Closing and course evaluation. MP















I.4. Definitions	of corrupt practices
Practices	Summary definitions
Bribe, Pay-off Bypass of criteria Capture, Leakage Diversion of funds Embezzlement Misappropriation Favouritism Fraud Ghost worker Nepotism Traffic of influence	Undue payment given to get a favour Non-use of legal criteria Illegal use of public resources Illegal use of public resources Theft of public resources Illegal use of public resources Illegal preference given to someone Any kind of corrupt practice Draws salary but does not work Illegal preference given to a relative Influencing a public decision for a bribe
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Country Rank	Country	2000 CPI Score	Surveys Used	Standard Deviation	High-Low Range	
1	Finland	10.0	8	0.6	9.0 - 10.4	
2	Denmark	9.8	9	0.8	8.6 - 10.6	
3	New Zealand	9.4	8	0.8	8.1 - 10.2	
	Sweden	9.4	9	0.7	8.1 - 9.9	
5	Canada	9.2	9	0.7	8.1 - 9.9	
1						
80	Uganda	2.3	4	0.6	2.1 - 3.5	
81	Mozambique	2.2	3	0.2	2.4 - 2.7	
82	Kenya	2.1	4	0.3	2.1 - 2.7	
	Russia	2.1	10	1.1	0.6 - 4.1	
84	Cameroon	2.0	4	0.6	1.6 - 3.0	
85	Angola	1.7	3	0.4	1.6 - 2.5	
	Indonesia	1.7	11	0.8	0.5 - 3.2	
87	Azerbaijan	1.5	4	0.9	0.6 - 2.5	
	Ukraine	1.5	7	0.7	0.5 - 2.5	
89	Yugoslavia	1.3	3	0.9	0.6 - 2.4	
90	Nigeria	1.2	4	0.6	0.6 - 2.1	





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Areas	Corrupt practices	Impact on education	1
School building, rehabilitation	 Fraud in public tendering Embezzlement School mapping 	Access Quality	1
Equipment, Textbooks, Food	 Fraud in public tendering Embezzlement Bypass of criteria 	Equity Quality	1
Teacher appointment/management	Favouritism Nepotism Bribes	Quality	1
Teacher behaviour	 "Ghost teachers" Bribes (for school entrance, exams, assessment, private tutoring, etc.) 	Equity Ethics	1
Examinations and diplomas	 Selling of information Favouritism Nepotism Bribes Academic fraud 	Equity Ethics	
Information systems	Manipulating dataSelecting/suppressing information	Equity Ethics Policy priorities	1
Specific allowances (fellowships, subsidies, etc.)	 Favouritism Nepotism Bribes Bypass of criteria 	Access Equity	
Finance	 Transgressing rules/procedures Inflation of costs and activities Opacity of flow 	Access Quality Equity Policy priorities	© IIEP-UNE

III.2. School bu	uilding/equipm	nent/food
Areas	Corrupt practices	Impact on education
School building, rehabilitation	Fraud in public tendering Embezzlement School mapping	Access Quality
Equipment, Textbooks, Food	Fraud in public tendering Embezzlement Bypass of criteria	Equity Quality
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		17

Background	Forms of malpractice	Scope (Philippines)
 Deterioration of quality (textbooks and teaching materials are critical determinants) Non-salary expenditures affected by budget cuts (including textbooks availability) Very low textbook/pupil ratio (sometimes less than 1/1 in Sub Saharan Africa) IFIs concerns (including development banks) Lack of national book policies 	At each stage of the book production and distribution chain: - raw materials (papers): lack of transparency of purchase rules - writing (authors): lack of clear policy on copyright (particularly in the public sector) - production / printing: often supported by IFIs: distortion in procurement rules - distribution and storage: using public/ private (monopolistic or/and informal) networks; lack of transparent criteria for costing - purchase: different formulae of financing (free/non free ; collection of funds; multi-use of textbooks) Particular difficulties for imported textbooks.	 Payoffs eat up 20 to 65% of textbook funds Of the P100-million pork barrel or Countrywide Development Fund legislators spent on supplementary materials in 1997, up to P65 million to bribes That amount could have bought a million more textbooks

III.3. Teache	r management and	behaviour
Areas	Corrupt practices	Impact on education
Teacher appointment/ management	Favouritism Nepotism Bribes	Quality
Teacher behaviour	Ghost teachers Bribes (for school entrance, exams, assessment), private tutoring	Equity Ethics
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		19

	1 onno or maipraedee	Scope
 Excessive requirement to pass a grade Classroom teaching inadequate for passing exams Systems intolerant of slow learners University exams have "a gate-keeping function" Evaluation of teachers made through their pupils' results Private tutoring* 	 Teachers neglecting their mainstream duties in favour of tutorial work Use of public facilities for private interests Non-transparent criteria for teacher deployment Pressure exerted on parents to pay for private tuition Distortion in the way the curriculum is taught e.g. teaching of only half the syllabus during official hours Penalisation of pupils who do not attend private tutoring (including their deliberate failing) 	 Brazil: In Rio de Janeiro, 50% of students receive tutoring Egypt: 65% of urban primary children and 53% of those in rural ones receive tutoring Japan: 24% of elementary pupils and 60% of secondary pupils and 60% of secondary pupils artend <i>juku</i> Mauritius: 78% of Grade 6 pupils receive extra lessons Tanzania: In a Dar es Salaam shool, 70% of Grade 6 pupils receive tutoring

III.4. Examina	tions and inform	nation systems
Areas	Corrupt practices	Impact on education
Examinations and diplomas	Selling information Favouritism Nepotism Bribes Academic fraud	Equity Ethics
Information systems	Manipulating data Selecting/suppressing information	Equity Ethics Policy priorities
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		21

Background	Forms of malpractice	Scope
 Low salaries of examination officers 	Areas covered by academic fraud: exams, credentials, diploma mills, plagiarism,	 USA: 15 to 25% of candidates admitted having cheated
 Assessment of teachers/schools linked to students' success 	research, academic journals and publications	 Bangladesh, India, Pakistan: Majority of candidates
 Development of ICTs (fax, computers, etc.) 	Example of exams: – leakage – test preparation imperionation	 In some countries, examination corruption has become a business (paper mills:
➤Academic fraud*	 mpersonation external assistance smuggling of foreign materials copying 	mills: <u>www.fakedegrees.com</u>)
	 collusion intimidation substitution of scripts improper assignment 	
	 ghost centres marker malpractices 	

III.5. Spec	ific allowances	/ finance
Areas	Corrupt practices	Impact on education
Specific allowances (fellowships, subsidies, illegal fees, etc.)	Favouritism Nepotism Bribes Bypass of criteria	Access Equity
Finance	Transgressing rules/procedures Inflation of costs and activities Opacity of flow	Access Quality Equity Policy priorities
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		23



















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...and vastly different changes in spending can be associated with similar changes in outcomes.

















Characteristics of public expenditure tracking surveys (PETS)

- Diagnostic or monitoring tool to understand problems in budget execution
 - delays/predictability of public funding
 - leakage / shortfalls in public funding
 discretion in allocation of resources
 - discretion in anocation of resources
- Data collected from different levels of government, including service delivery units
- Reliance on record reviews, but also head teacher/health facility manager interviews
- Variation in design depending on perceived problems, country, and sector

Design and implementation of PETS -

Stakeholder consultations and scope of the study

-Purpose of the study

-Who is in charge of what? How do resources flow?

-Only 1 or 2 sectors at a time

Rapid data assessment

-Usually needed from frontline units (schools and clinics) -Simple questionnaire can be useful

Questionnaire design for PETS

-Each level needs its own instrument

-Recorded data to be cross-checked against the same information from another source





Key implementation issues

Who can do it?

- Local or international consultant?
- Capacity building objective?
- Who does the analysis?

Getting quality data

- Field test and supervision extremely important
- Proper data management for high quality data

Promoting impact

- Strategic partnerships (between ministries, using local universities or research institutes, civil society involvement)
- Linking into existing instruments and systems

Sampling

 School census for sampling frame, but often census on private and/or community schools not available

How to overcome?

- -Draw sampling units randomly from an existing set
- -enumerate all private and/or community facilities in these sampling units
- -randomly draw private and/or community facilities from the obtained enumeration list
- Stratified random sample (region, urban-rural, ownership, etc.)
- Links to other surveys can complicate sample design

Nonwage funds not reaching schools: Evidence from PETS (percent)

Country	Mean	
Ghana 2000	49	
Peru 2001 (utilities)	30	
Tanzania 1998	57	
Uganda 1995	78	
Zambia 2001 (discretion/rule)	76/10	

Source: Ye and Canagarajah (2002) for Ghana; Instituto Apoyo and World Bank (2002) for Peru; Price Waterhouse Coopers (1998) for Tanzania; Reinikka and Svensson 2002 for Uganda; Das et al. (2002) for Zambia.

Ghost workers on payroll (percent
Country Education Health
Honduras 2000 5 8.3
PNG 2002 15 -
Uganda 1993 20 -
Sources: World Bank 2001, 2004; Reinikka 2001.







- Main national newspapers (2) and their local language editions
- Monthly transfers of capitation grants to districts published in newspapers since 1996
 Parents will know what there entitlements are
- Posters required at district HQs announcing the date and amount funds received
- Schools required to maintain public notice boards/posters displaying receipts
 Parents will know what the actual receipts are
- Subsequently expanded to other sectors

Uganda: Difference-in-differences estimates for newspaper campaign

Group	Year		
Panel A: Campaign experiment (no. observations: 444)	1995	2001	2001-1995 difference
Access to newspapers	24.5 ^{****}	83.7 ^{***}	59.2 ^{****}
	(2.87)	(1.94)	(3.46)
No access to newspapers	29.6 ^{***}	75.0 ^{***}	45.4 ^{***}
	(5.40)	(3.11)	(6.22)
Access-no access difference	-5.12	8.68 ^{**}	13.8 ^{**}
	(6.10)	(3.66)	(7.13)

*** (**) significant at 1 (5) percent level, respectively Source: Reinikka and Svensson 2004


- Through an inexpensive policy action, mass information through the press, Uganda has managed dramatically to reduce capture of a public program aimed at increasing primary education
- Because the poor were less able than others to claim their entitlement from district officials before the campaign, but just as likely in 2001, they benefited most from it
- Public access to information is a powerful deterrent of local capture

Zambia

Focus on resources and learning results and outcomes

- Combines a public expenditure tracking survey with a accompanying household survey and testing of pupils for learning outcomes
- Leakage
- Incidence of actual spending
- Household responses (substitution effect)
- Educational equity
 - Household survey enables PETS to relate school funding received to whether schools are "rich" or "poor" and to private spending on education

26

Peru

- Diagnostic PETS
- Exposed confusion in the processes of administering the budget
- Inadequacy and unresponsiveness to client needs
 - -Non-salary spending fell short of schools' needs
 - -Implementing units rarely responded to school's requests

Concluding remarks

- With proper survey techniques it is possible to collect useful quantitative data on frontline service provision to help
 - Policymaking
 - Supervision
 - Generate "client power" and strengthen "voice"
- Conventional mechanisms, such as audits, inspections, and legislative reviews not enough
- Need to complement by enhancing client power, i.e., parents' ability to monitor performance of schools and improve the clients' bargaining power

28

- Information is crucial



- Survey reports, instruments, and documentation on
- www.publicspending.org
- http://www1.worldbank.org/publicsector/pe/ trackingsurveys.htm
- References:

-Dehn, Reinikka, and Svensson. 2003. "Survey Tools for Assessing Performance in Service Delivery." In Bourguignon and Pereira da Silva, eds. *Evaluating the Poverty and Distributional Impact of Economic Policies.* Oxford University Press and the World Bank. Forthcoming

-Lindelow and Wagstaff. 2002. "Health Facility Surveys: An Introduction." Policy Research Working Paper 2953. The World Bank

29















Multi-purpose school and health facility surveys

Ritva Reinikka Development Research Group World Bank June 22 2004



Similar changes in public spending can be associated with vastly different changes in outcomes...









Perception based surveys

- Score-cards
- Interviews with
 - Households
 - Firms
 - Key informants in communities
 - Public officials
 - Focus groups
- Easy to implement, relatively cheap
- But results depend on expectations

Quantitative Service Delivery Surveys (QSDS)

- Unit of observation is <u>frontline service</u> <u>provider</u>, such as health facility or school
- Inspired by micro-level household and firm surveys
- Collect information on
 - Resources (financial and in-kind) and inputs
 - ♦ Service outputs and cost-efficiency
 - Quality of service
 - Various dimensions of performance
- Comparisons across ownership categories



- -Recorded data to be cross-checked against the same information from another source as incentives to misreport
- -Data kept by facilities for their own use are typically the most reliable
- -Questionnaires and data sheets for facilities (and in some cases for local governments)





Data management

- -Important to reduce time required by data cleaning after the survey
- -Needs to be taken into account in the instrument design
- -CSpro the preferred data entry program and to be found at http://www.census.gov/ipc/www/cspro
- Analysis of data and report writing
- Dissemination is important if the study is to have impact

Sampling

- Often no reliable census of service facilities, particularly the private sector
- Listing of government facilities usually available, not-for-profits sometimes, but private for-profit seldom
- How to overcome?
 - -Drawn sampling units randomly
 - -enumerate private facilities in these sampling units
 - -randomly draw private facilities from the enumeration list
- Stratified random sample
- Links to other surveys affect sampling



 Document the extent of absence among teachers and health workers in Asia, Africa and Latin America

-"Absent" defined conservatively as "could not be located anywhere in the facility during random visit in his/her regular work hours"

- Explore the patterns and correlates of providers absence
 - -How much is the problem <u>concentrated</u> in particular sectors, regions, countries, and individuals?
 - What are the major <u>correlates</u> of provider absence – school management, supervision, community involvement, hiring policies, contracting, <u>bonuses?</u>

Survey approach

 Carried out facility surveys of a nationally representative sample of schools in 8 countries

Sampling

- Careful random sampling of schools, stratified by region and by rural/urban status, and clustered by district
- Countries other than India generally included 100-200 schools clustered in 10 districts
- In India, each of 20 states was treated as a country, so Indian sample is >3,000 schools

Survey approach

School survey methodology

- School module: Detailed interview with head teacher to gather detailed school data (infrastructure, remoteness, parental involvement, etc.) and teacher roster
- Teacher module: Enumerators directly observed absence/presence of each teacher, then interviewed teachers for detailed demographic and background data
- 2-3 visits to each school, to allow <u>multiple</u> <u>observations</u> of absence and to ensure that most teachers could be interviewed directly
- Student module: Brief interview and simple arithmetic test of 10 randomly chosen 4th graders in each school

Exte	nt of absence:	Global	results	-1
	<i>Absence rates (percent) in:</i>	Primary schools	Primary Health Centers	
	Bangladesh	16	35	
	Ecuador	14		
	India	25	40	
	Indonesia	19	40	
	Papua New Guinea	15	19	
	Peru	11	23	
	Uganda	27	37	
	Zambia	17		
				16

Extent of teacher absence: Global results - 2

 What do these national-average absence rates tell us?

 Absence rates are substantial: from 11 to 27 percent of teachers could not be found anywhere in the school

-And many of those who were present at school were not teaching









Factors that are not generally significant correlates in our survey countries:

- Local ties (such as provider's birthplace and tenure at the facility) are not typically associated with lower absence
- Marital status (and sometimes gender) typically does not matter, despite plausible stories about family responsibilities
- PTA/school association effect is not general (except India)
- Use of contract teachers does not appear to lead to better incentives; in fact, contract teachers are absent at much higher rates than regular teachers in 3 of 4 countries
- Private schooling is not a panacea, at least in India and Indonesia, though private competition may have a role

(nublic schools)	eMap	
(public schools)	State	Teacher absenc e (%)
	Maharashtra Madhya Pradesh Gujarat Kerala Karnataka Himachal Pradesh Haryana Tamil Nadu Orissa Rajasthan	14.5 16.5 17.0 20.3 20.5 21.2 21.2 21.2 21.4 23.1 23.6

Finding out more about QSDS

- Survey reports, instruments, and documentation on
- www.publicspending.org
- <u>http://www1.worldbank.org/publicsector/p</u> <u>e/trackingsurveys.htm</u>
- Some references:
 - -Dehn, Reinikka, and Svensson. 2003. "Survey Tools for Assessing Performance in Service Delivery." In Bourguignon and Pereira da Silva, eds. *Evaluating the Poverty and Distributional Impact of Economic Policies.* Oxford University Press and the World Bank. Forthcoming
 - -Lindelow and Wagstaff. 2002. "Health Facility Surveys: An Introduction." Policy Research Working Paper 2953. The World Bank









	T	he Disti	ributiot	n of Dec M	rision- Taking
 Function	National	Regional	Local	School	
Personnel					
Curriculum					
Textbooks					
Facilities					
Supplies					
Finance					
				_	



			Rec	ruitmet	nt & Sele	ction
kelaesken	Decision	Central Office	Supervisor	Hadmaster	Parents	
	Teacher Speciality					
	Short list					
	Interview					
	Offer of Employment					
l						



Definition

- There are two basic [and very different] types of education decentralization:
 - To lower levels of government/bureaucracy
 - Devolution [Constitutional, Legal]
 - Deconcentration [Ministry Decree]
 - To the school itself
 - Delegation [Ministry Decree]
 - They are not mutually exclusive.







What does international experience tell us?

- What does international experience tell us about how to decentralize the delivery and financing of public education?
- Two principal questions:
 - * Is the form of decentralization important?
 - * What is the role of education ministries in a decentralized context?





- What should be the responsibility of the school and director?
 - * Create school development plans with teachers and the community
 - * Recruit and evaluate personnel
 - * Manage non-personnel budget
 - * Create a parent-friendly environment
- What should be the responsibilities of parents?
 - School governance
 - * Participation in the school
 - * Demand for good performance



- Align financing responsibilities.
- Transparent allocation formulas.
- Predictable revenue flows.




































Public Sector Finance of Basic Education

- Governments: national, regional, local
- Ministries: education, finance, social welfare, health
- Total & Unit Cost of Basic Education

Minictry	Nation	Pogion	Local
Minisuy	INALIOIT	Region	LUCAI
Educa- tion			
Finance			
Social Welfare			
Health			
Etc.			







Flow of Funds for Each Expenditure Category

- School Lunch, for example,
 - National Ministry of Social Welfare sends cash transfers based on enrollment to
 - Provincial Ministry of Education which procures foodstuffs and
 - Contracts private firms to transport to eligible schools, and
 - PTA uses food to prepare meals





What are the opportunities for leakage—wastage and corruption?



Data quality and availability -- with respect to sampling

Mioko Saito (IIEP) Phnom Penh, June 2004

> -Ross and Mählck (1990) -Ross (1999)

Problems of data quality and availability can be introduced in... Instrument preparation ◆ Field data collection Data transcription Also in <u>sample design preparation</u>







Basic requirements in data transcription

- Provision of adequate working environment for data entry team.
- Establishment of 'coding rules' and document them for data entry team.
- Training on the use of appropriate technology for data entry and cleaning.
- Archiving of the data.





















Target Population Definition

Mioko Saito (UNESCO-IIEP) Phnom Penh , June 2004

UNESCO International Institute for Educational Planning

Source: Kish (1965)











Time

- Desired = Standard 6 pupils in schools in Malawi in the year 2002
- Defined = All full-time pupils at the Standard 6 level in 2002 at the tenth month of the school year who are attending

Example

registered government or non-government schools that have at least 20 Standard 6 pupils in the six educational administration divisions of Malawi

Definitions

- <u>Desired target population</u> -- The population for which results are ideally required
- <u>Defined target population</u> the population which is actually studies and whose elements have a known and non-zero chance of being selected into the sample
- <u>Excluded population</u> the population comprised of the elements excluded from the desired target population in order to form the defined target population











Probability Sampling

UNESCO International Institute for Educational Planning

Mioko Saito (IIEP) Phnom Penh, June 2004

Reference: Ross, 2004

Probability Sampling

- Each element in the population has a known non-zero probability of being selected
- It is applied in:
 - Simple Random Sampling
 - Stratified Sampling
 - Cluster Sampling

			UNESC	O Internationa	al Institute for Eq	ducational Planning
<u>esternes</u>	Dist.	Sch.	Reg.	Geog.	#Visits	
	Α	1	1	Coast	10	
	Α	2	1	Coast	20	
	А	3	1	Coast	30	
	Α	4	1	Coast	40	Population of
	В	5	1	Inland	30	1 opulation of
	В	6	1	Inland	40	24 schools in
	В	7	1	Inland	50	
	В	8	1	Inland	60	six districts
	С	9	1	Coast	50	
	С	10	1	Coast	60	
and the state	С	11	1	Coast	70	↓
C DESERVICE DESERVICE	С	12	1	Coast	80	
	D	13	2	Inland	70	Take a sample
	D	14	2	Inland	80	I ake a sample
	D	15	2	Inland	90	of four schools
	D	16	2	Inland	100	
	Е	17	2	Inland	90	
	Е	18	2	Inland	100	
	Е	19	2	Inland	110	
	E	20	2	Inland	120	
	F	21	2	Coast	110	
	F	22	2	Coast	120	
	F	23	2	Coast	130	
	F	24	2	Coast	140	
		-	-			















UNE	ESCO International Institute for Educationa	l Planning
Messages Cluster san solution 	on cost	cost saving
Less Expensive		More Expensive
SS1CS	2SCS	SRS
	S(R)2SCS	
	S(G)2SCS	
	 Messages Cluster san solution Less Expensive SS1CS 	UNESCO International Institute for Educational Messages on cost • Cluster sampling can be a cosolution Less Expensive SSICS 2SCS S(R)2SCS S(G)2SCS



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~ 11	А	3	1	Coast								
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11.2	В	5	1	Inland								
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a getter and	В	7	1	Inland								
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ALC: NOT	С	10	1	Coast								
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	С	12	1	Coast								
	D	13	2	Inland								
	D	14	2	Inland	District MOO							
	D	15	2	Inland	District MOS							
	D	16	2	Inland	A 4							
	E	17	2	Inland	B 4							
-	E	18	2	Inland								
	E	19	2	Inland	C 4							
	E	20	2	Inland	D 4							
	F	21	2	Coast								
	F	22	2	Coast								
	F	23	2	Coast	F 4							
	F	24	2	Coast								



	UNESCO International Institute for Educational Planning										
a second and	Dist.	Sch.	Reg.	Geog.							
	А	1	1	Coast							
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	С	5	1	Coast							
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Frank Control	D	7	2	Inland							
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1000 842	Е	10	2	Inland							
	Е	11	2	Inland		$\overline{}$					
	Е	12	2	Inland							
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	F	16	2	Coast		A	2				
	F	17	2	Coast		В	2				
	F	18	2	Coast		С	2				
	F	19	2	Coast		<u> </u>	2				
	F	20	2	Coast		D	2				
	F	21	2	Coast		E	6				
	F	22	2	Coast		F	10				
	F	23	2	Coast			10				
	F	24	2	Coast							



With different MOS



Take a sample of two districts with the probability proportional to size of district, and then take a random sample of two schools at each district...

Probability for school #1 in District A to be selected:

Probability for school #24 District F to be selected:



	UNESCO International Institute for Educational Planning									
9	Use a random starter and a fixed interval for the 'winning tickets'									
	District	MOS	Lottery Tickets							
Tores and	Α	2	1 to 2							
EL.	В	2	3 to 4							
C. Jac	С	2	5 to 6							
	D	2	7 to 8							
	E	6	9 to 14							
	F	10	15 to 24							
	Interva Randon If the r selecte	1 = 24 m star andor d?	4 / 2 = 12 (fixe rter = a numbe m starter is 7,	ed) er between 1 and 12 which two districts are						

Ŷ	Select 2 districts in each stratum									
	Stratum	District	MOS	Tic	cets					
1.10	Suatum	DISITICI	1003	First	Last					
	1	Α	45	1	45	Stratum 1:				
SE A		В	60	46	105					
		С	95	106	200	Random starter=25				
O DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DE LA CONTRACTA DE LA CONTRACTA DE LA CONTRACTA DE LA CONTRAC	Subtotal	3	200							
	2	D	45	1	45					
		E	110	46	155	Stratum 2:				
		F	120	156	275					
		G	125	276	400	Random starter=146				
	Subtotal	4	400							
	Total	7	600							
	Wh	ich di	stric	ets a	ires	selected?				







UNESCO International Institute for Educational Planning

- of the sample mean"
- "95% confident that the population mean lies within the range specified by sample mean ± 2 SE of the sample mean" IEA Standard
- "99% confident that the population mean lies within the range specified by sample mean \pm 3 SE of the sample mean"

















	UNESCO International Institute for Educational Planning										
2.65	Planned, Achieved, and Effective sample										
1. 200											
SIZE (SACMEQ II)											
School Planned Sample Achieved Sample % Achieved Design Effect ESS											
System	Schools	Pupils	Schools	Pupils	Schools	Pupils	Reading	Math	Reading	Math	
вот	170	3400	170	3322	100%	98%	5,1	4,9	649	682	
KEN	185	3700	185	3299	100%	89%	10,3	9,3	320	355	
LES	180	3600	177	3155	98%	88%	8,1	9,1	391	346	
MAL	140	2800	140	2333	100%	83%	5,3	3,7	442	621	
MAU	159	3180	159	2945	100%	93%	6	5,9	488	487	
MOZ	179	3580	176	3177	98%	89%	4	4,2	800	740	
NAM	275	5500	275	5048	100%	92%	6,6	6,2	767	810	
SEY	24	1571	24	1484	100%	94%	0,9	0,9	1603	1602	
SOU	185	3700	169	3163	91%	85%	16,9	13,5	187	232	
SWA	170	3400	168	3139	99%	92%	9,4	8,1	333	389	
TAN	185	3700	181	2854	98%	77%	8,7	6,7	325	423	
UGA	164	3280	163	2642	99%	81%	11,9	14,9	222	176	
ZAM	175	3500	173	2611	99%	75%	7,2	6	361	430	
ZAN	145	2900	145	2514	100%	87%	1,1	1	2234	2470	
SACMEQ	2336	47811	2305	41686	99%	87%					



Probability, Raising Factor, and Sampling Weights

Mioko Saito (UNESCO-IIEP) Phnom Penh, June 2004

UNESCO International Institute for Educational Planning

Source: Ross (1999)



		UNESCO Internati	ional Institute for Edu	cational Planning					
Q	Hypot	hetica	ıl exar	nple					
	Region ID	School ID	Enrolment						
	1	101	300						
	1	102	400						
	1	103	500	Out of the					
	2	201	20						
ALC: NO	2	202	60	population of /					
a de la compañía de l	2	203	80	schools, stratify by					
	2	204	100	region then select					
				one school in each					
				region.					
	If Schools 101 and 201 are selected, what are their probabilities of selection, raising factors, and weights?								



		UNESCO Intern	national Institute for E	ducational Planning							
O	Option 2: Probability Proportional to Size (PPS) Sampling of schools (linked to 1										
- X	pupil unit at each school)										
	◆ For School 101:										
				$- Probability = 200/1200 \times 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1/200 - 1$							
	Region ID	School ID	Enrolment	0.1118							
	1	101	300 400	– Raising Factor = 1200							
	1	102	500	- Weight = 1200 x							
	2	201	20	2/1460 = 1.64							
	2	202	60	For School 201:							
	2	203	100	- Probability = 20/260							
	2	204	100	$\times 1/260 = 0.004$							
				$- \text{ Raising Factor} = 260$ $Woight = 260 \times 2/1460$							
				= 0.36							

	τ	NESCO International In	stitute for Educationa	l Planning								
\bigcirc	Implica	Implications on data analysis										
	School ID Enrolment Unit\$ option 1 option 2											
15	101	300	500	0.86	1.64							
1	201	20	200	1.14	0.36							
٩.	• What is the average Unit \$?											
	No w	eight	$\frac{(500+200)}{2} = 350$									
	Optic	on 1	$\frac{(500 \times 0.86 + 200 \times 1.14)}{2} = 329$									
	Optic	on 2	$\frac{(500 \times 1.64 + 200 \times 0.36)}{2} = 446$									
Standard errors of sampling

- Different calculation methods are required for different sample design
- Caution for interpretation

Example

	Board	ding	Cafeteria			
Туре	%	SE	%	SE		
Gov.	49.4	2.64	25.0	2.35		
Priv.	56.4	2.67	28.4	2.49		
Ruritania	52.8	1.88	26.7	1.71		













Questionnaire Design for Data Management

Consequences

- > Questionnaire logical design different for each country
- » Data structure unique

Questionnaire Design for Data Management Good questionnaire layout facilitates the data entry design and subsequent data entry and cleaning Involve a Data Management Specialist from the 1 beginning Delineate the questionnaire into sections 2 Pre-code all variables directly on the questionnaires 3 Enumerate each variable clearly 4 Create entry boxes for response fields 5 Integrate logical skips and test it during pilot 6





Questionnaire Design for Data Management

- Involve a Data Management Specialist from the beginning
- Delineate the questionnaire into sections
- Pre-code all variable values
 - > Avoid at all cost non-numeric values
 - > Use "Other", "Don't know", "Don't remember", "Refuse to answer"
 - (A good pilot test should point out these problem variables and help you decide)



Questionnaire Design for Data Management

- Involve a Data Management Specialist from the beginning
- Delineate the questionnaire into sections
- Pre-code all variable values
- Enumerate each variable clearly
- Create entry boxes for response fields
 - Expenditure variables
 - > Other quantitative variables



Que Mai	estionnaire inagement	Design	for]	Data
N	o Questions	CODES	Skip to	
1	Head teacher last year?	1 Yes 2 No	>>q3	
2	Position last year	1 Gov. official 2 Private 3 Other	>>q7 >>q7 >>q7	
3	How many teachers are in this school?	Number		
4	How many males	Number		
5	How many are females	Number		
6	What is your salary	Enter "-1" for refuse to answer	>>q10	
7	Number of tests performed last year	1 Aids 2 Malaria 3 Cancer		









TYPES AND NUMBER OF QUESTIONNAIRES

Zerubabel Ojoo Management Systems and Economic Consultants. Email:stalight@africaonline.co.ug, Uganda

> Ivo Njosa Development Research Group Public Services

Phnom Penh, June 21-30 2004



Types and number of Questionnaires

- Data sheets for extraction of data at specific levels.
- Questionnairre with portions covering different respondents in the institutions or separated questionnaire for each respondent to avoid confusing enumerators.
- Qualitative questionnaires.Include a sheet at the end of of the questionnaire where qualitative information is recorded. Answers to some parts of key questionnaire can be clarified using this part.

Levels to apply Questionnaires/Data sheet.

- Central government (MOES, MOF, etc).
- Province/Region.
- District.
- Sub district.
- School/ Health facility.
- Student/patients.

Clear understanding of the sources and types of education/health funding, administrative structures and the flow of funds through such structures are key to determining the number of questionnaires.

!!!School Questionnaire!!!!

- A set of questions intended to collect data to address most issues identified during the PETS preparatory stage(issues and objectives) at school level.
- Most important questionnaire but expensive to execute.
- Implemented at service delivery point; a place where various aspects of service can be observed and where all the inputs converge and can affect the delivery and quality of service to consumers; students.



School Financing in Indonesia: Transparency, Efficiency and Equity

A Case Study:

RTI International - Managing Basic Education (MBE), Indonesia USAID funded Project

By: Prima Setiawan and Nicole Barnes

Cambodiana Hotel, Phnom Penh June 21-30, 2004

1. Introduction

- a. Indonesia and Education
- b. Aims, Why Education, Issues Addressed, and Targets

2. Education Finance in Indonesia

- a. Overview of Indonesia's Intergovernmental Finance System
- b. Key Central level grants in Indonesia: particularly for education
- c. Challenges for fiscal decentralization in Indonesia's education sector d. Main Sources of fund (Gov.) for School
- e. LG Education Financing Allocation
- f. Diversified Sources of Funding for Schools

3. Planning and Budgeting

a. Prior to Decentralization

b. Current condition

- **4. Formula Funding** a. Reasoning behind the ideas
 - b. Goals
 - c. The formulas should show several criteria
 - d. Variables and Weighting
 - e. The Formula
 - f. Samples: variable and fixed expenditures
 - g. Minimum Education Cost per Children per Year

5. Constraints and Challenges

6. What have we learned?



Aims

≻To improve the management and quality of education

Why education?

≻Government policy to have 9 years Basic Education

≻It consumes 40% - 50% of District Budgets

> It employs up to 70% of local government employees

≻It is essential to social, political and economic development

Issues Addressed 1. Governance: Parliaments, Education Board, School Committee 2. Finance: Planning, Medium-term planning supported by reliable school mapping Budgeting, Integrated Financing and Expenditures Formula Funding, developing equitable financing systems to support SBM, school operations and maintenance Costing, for minimum student cost per year All processes, should be run in participatory way, using transparent, accountable, and efficient mechanisms

- 3. Management of Teachers, Facilities, Resources
- 4. School and community Based Management and Teaching

Targets Planning and budgeting process of education finance: ✓ Supported by reliable and up to date data, \checkmark Participatory, transparent and accountable, Displayed and open to all \checkmark LGs implement: \geq \checkmark Formula funding based on an agreed criteria, transfer the fund directly to school - to support SBM, operations ands maintenance ✓ Costing for Minimum Education Cost per Student per Year At school level: Education financing from all sources: National (MONE, MORA, MOF, \checkmark others), LG, parents, foundations, donors, others are known by stakeholders Education expenditures: teachers (salary), capital (new and \checkmark rehabilitation), and operational are known by stakeholders

2. Education Finance in Indonesia

a. Overview of Indonesia's intergovernmental finance system

Central funds transferred locally

DAU grant (general purpose, equalization)

DAK Grant (special purpose, capital expenditures)

Funds shared between levels of government

Property tax

Natural Resources taxes

Income tax

Local sources of revenue

Local taxes/user charges (local and provincial)

b. Key central level grants in Indonesia: particularly for education

DAU

- Most important grant: DAU funds 75% of all local government budgets
- Purpose of DAU: to fund service delivery (including civil servant salaries) & to 'equalize' local governments
- DAU is allocated by formula(s):
 - 60% of allocation = percentage of central gov't revenues; guaranteed funding level from previous year
 - 40% of allocation = represents variations in population, area, poverty, expenditure needs and revenue potential
- Formulas subject to change each year.

DAK

- Purpose of DAK: 'special purposes', meaning capital expenditure for infrastructure. In exceptions it can be used to operations/maintenance.
- There can be multiple DAK grants (examples: education, health, etc.)
- Local government apply for DAK funding

c. Challenges for fiscal decentralization in Indonesia's education sector

- Roles of sectoral ministries unclear after decentralization (examples: MONE, MORA). In addition, control over finances rests firmly with MOF
- Sectoral funding is not clearly dedicated to the sector (note DAU example), and transferred through a variety of channels
- Education finance system is not transparent (in fact, highly opaque)
- Education finance is open to corruption at many levels, and in fact, notorious for being corrupt in Indonesia







3. Planning and Budgeting

Prior to Decentralization

- Prior to decentralization, Local governments and schools had very limited authority and responsibilities
- Planning at Education (LG Level), not based on real needs
- School Development Plan and School Budget was developed and kept by Head Teacher.
- Non-integrated School Budget, resources and expenditures were spread in different books and difficult to be tracked
- Some schools don't even have an budget

b. Current Condition

- Responsibilities and resources was delegated to Local Government and schools
- Changes in (most) MBE Partner LGs and Schools:
 - Reliable and up-to date data bases were made and analyzed, and used for basic planning in prioritizing the real needs for budgeting purposes
 - Integrated Medium School Development Plan and Annual School Budget was developed by Head Teachers, teachers, and school committees. Budget is prepared based on the analysis of prioritybased requirements.
 - The School Development Plan and School Budget are displayed on school notice boards for everyone to see.
 - Integrated Annual School Budgets, all resources and expenditures, planned and actual have been booked in an integrated form.

4. Formula Funding

Reasoning behind the ideas

- School with more students should in general receive more funding and everyone should know what each school receive.
- When funds (from LG or others) are given to school and local communities to manage they are used much more efficiently. Fund to repair one classroom are often sufficiency to repair two, owing to the efficient management of fund at local level, and extra voluntary contributions from local community.
- When the education financing is allocated and distributed to the school, the Head Teacher, teachers, and school committees can plan and manage the fund according to their aims (SBM). Such as: support for teaching and learning, buying of learning materials, as well as maintenance of the school building.

c. The Formula should fulfil several criteria:

- Participatory process, involving education stakeholders in the process of decision making
- Transparent in process and open to all, easy to be understand by public;
- Efficient, schools can plan and manage as per their needs
- Equitable, each school gets its allocation based on their relative needs
- Simple, LGs are able to run and manage it by themselves (for its sustainability)

d. Variables and Weighting

- Number of Students: illustrate the funding needs for education in general
- Number of classrooms: illustrate the funding needs for maintenance
- **Other variables:** Number of Teachers, Types of Institutions, Number of Poor Students, Remote Schools, etc.

Variables should be backed up by reliable up to date data, and be acceptable by the stakeholders

Weighting, for each variable illustrates its proportion to the needs of each school

Weight: is customized to needs and based on plans; goals and local condition.

F _i = T	F x {(($W_1 x (V_{1i} / \Sigma V_{1n})$) + (($W_2 x (V_{2i} / \Sigma V_{2n})$))}
F _i	: Funding Allocation for certain School (i)
ΓF	: Total Funding Allocation from LG
W ₁	: Weight for variable 1 (e.g. no of students)
V _{i1}	: Variable (1) for certain school (i)/number of students in school (i)
ΣV_{1n}	: Total Variables 1 of all schools
W ₂	: Weight for variable 2 (e.g. no of classrooms)
V _{2i}	: Variable (2) for certain school (i)/number of classrooms in school (i)
ΣV_{2n}	: Total Variable 2 of all schools

I. Sample	20	SDN	2	Nambangan Kidul	Rp	3,660,000,00
i ~ minpit	21	SDN	3	Nambangan Kidul	Rp	3,465,000,00
	22	SDN	4	Nambangan Kidul	Rp	5,115,000,00
	23	SDN	5	Nambangan Kidul	Rp	6,820,000,00
	24	SDN	1	Winongo	Rp	4,950,000,00
	25	SDN	2	Winongo	Rp	2,900,000,00
	26	SDN	3	Winongo	Rp	4,485,000,00
	27	SDN	Ngegong		Rp	5,115,000,00
	28	SDN	1	Pathan	Rp	4,455,000,00
	29	SDN	2	Pathan	Rp	2,915,000,00
	30	SDN	1	Pangongangan	Rp	2,280,000,00
	31	SDN	2	Pangongangan	Rp	5,200,000,00
X7 11 11	32	SDN	3	Pangongangan	Rp	5,800,000,00
. Variable expenditure	33	SDN	Sogalen		Rp	6,600,000,00
-	34	SDN	1	Kartoharjo	Rp	8,445,000,00
	35	SDN	2	Kartoharjo	Rp	3,445,000,00
	36	SDN	3	Kartoharjo	Rp	0,000,00
	37	SDN	4	Kartoharjo	Rp	7,975,000,00
	38	SDN	1	Klegen	Rp	8,795,000,00
	39	SDN	2	Klegen	Rp	3,350,000,00
	40	SDN	3	Klegen	Rp	5,530,000,00
	41	SDN	4	Klegen	Rp	7,015,000,00
	42	SDN	5	Klegen	Rp	2,145,000,00
	43	SDN	6	Klegen	Rp	2,750,000,00
	44	SDN	1	Oro-oro Ombo	Rp	7,070,000,00
	45	SDN	2	Oro-oro Ombo	Rp	6,325,000,00
	46	SDN	3	Oro-oro Ombo	Rp	4,650,000,00
	47	SDN	1	Rejomulyo	кр	2,340,000,00
	48	SDN	2	Rejomulyo	Кр	3,440,000,00
	49	SDN	1	Kanigoro	Rp	5,005,000,00
	50	SDN	2	Kanigoro	κρ	3,000,000,00
	51	SDN	J Cultoneri	Kanigoro	κρ	2,000,000,00
	52	SDN	JUKUSAII	Dillegebenie	κρ	3,330,000,00
	53	SDN	1	Piliangbanjo	Rp	3,215,000,00
	54	SDN	2	Pillangoanjo	rφ	3,135,000,00
	55	SDN	1	Tawangrejo	rφ	3,135,000,00
	57	SDN	Z Kolup	Tawangrejo	Rμ	8 500 000 00
	57	SDIN	Kelun		κμ	8,500,000,00



g. Minimum Education Cost/Student/Year (Excluding Salaries)

How much budget should be allocated by Local Government in providing Minimum education Cost per Student per Year?

Findings:

-Local Government's Budget for Elementary School: Rp 14,000 – Rp 18,500 (USD 1,5- USD 2) /student/year

–Most fund to run the schools were contributed by parents, Rp 120,000 (USD 13.3) or more/student/year

-Draft costing by MBE is Rp 124,000 (USD 14)/student/year

5. Challenges

To achieve a more transparent, efficient and equitable policy and mechanism, so it will create:

- >Better processes in plan and budgeting;
- ➢ More efficiency in education financing;
- ▶ Better education quality and management;
- ▶Better human resource capacity;
- ➤More best practices/innovation;
- ≻Wider dissemination.

6. What have we learned from MBE?

- **Transparency**, makes local community more willing to add more sources to support the school's needs (money, materials, workforce)
- Efficiency, school and school committees can plan and manage the fund according to their own plans
- Equity, schools received an equitable source of fund (excluding salary) based on certain variables and weightings

• Improved Education Management:

- Assess commitment of local government to change before starting (*no commitment – no assistance!*)
- Build models which local government can maintain and develop (*simple and understandable*)
- Involve multiple stakeholders in activities including: Local Planning Agency, Dept. of Education, Ministry of Religious Affairs, Education Council, and Finance Section (where appropriate, Reps. of Head Masters) SO THOSE STAKEHOLDERS ARE WELL INFORMED, ON BOARD AND TAKE OWNERSHIP !!!
- Involve democratic institutions (Local Parliament, Education Board, and School Committee at all stages)

ORGANIZING AND MANAGING FIELD WORK

Define the scope of the fieldwork

- Schools, districts, Provinces/Regions.
- Estimate the time to be spent at each level.
 - School
 - District
 - Province
 - Central level
- Effect of field sampling of those to be interviewed.

Establish cost of work; staff, transport, communication, data analysis, etc.

SELECTION OF STAFF

Set out possible criteria for staff selection:

- Language.
- Previous experience.
- Communication skills.
- Willingness to work for long hours.
- Health.
- Select more fieldwork than you may need to avoid problem of labour turnover.
- ✓ Explain what is expected of each staff and terms of service.
- ✓ Supervisory staff.

Data Management staff included (Ivo)

TRAINING

Duration of training and what is to be covered. Training Materials.

- Questionnaires (opportunity to revise).
- Manuals.

Methodology.

- Participatory prompting individuals to give hypothetical answers.
- ✓ Group work.
- ✓ Lecture.

PILOT

- Work with each individual/pair
- Assess the capability of each staff and discuss their individual weaknesses.
- Go through pilot work done and discuss with each individual/pair
- Test all aspects of the survey;duration, staff, sampling, supervisory work, communication network,
- Organize one day review training and determine modification of questionnaire etc required.

IMPLEMENTING FIELDWORK

- Determine working groups;pairing weak staff and good staff.
- Set out criteria for working;minimum coverage;procedures to be followed; contracts;payment of fees and field allowances;questionnaires required, supervision etc.

IMPLEMENTING FIELDWORK (cont..)

- May increase pace as learning curve grows.
- Check completed questionnaires.
- Motivate field staff.
- Ensure communication with field teams and supervisors.

Time to rest and complete work done.

IMPLEMENTATION OF SURVEYS

- Letters of introduction from MOE/MOH.
- Questionnaires and Manual for each level.
- Province/Region.
- District level Questionnaire(One or pair).
- School/Health centre.
- End of day meeting for the teams.
- Completion of questionnaires from draft to final copies.
- Communication with team at end of day/morning.





















ita	entry and	Cleanin	ıg	
No	Questions	CODES	Skip to	
1	Did you receive any private funds last year	1 Yes 2 No	>>q3	
2	How much			
3	Date of birth			
4	Year started teaching in this school			
5	Year started teaching			
6	What is your salary	Enter "-1" for refuse to answer	>>q10	
7	Relationship with district	1 Excellent 2 Good 3 Fair 4 Bad		














ANALYSIS OF QSDS/PETS

Primary analysis should focus on original objectives: Uganda case:

- Measure leakage of funds (nonwage) on their way to schools and analyze the causes.
- Use simple average percentage and standard deviations.
- Analyze equity in fund distribution.
- Understanding of systems of resource management at each levels and their weakness; simplify fund/input transfers, information campaign, set formula for funds and timeline for receiving resources (This is the success arising from PETS).

IN-DEPTH ANALYSIS Relate to other analysis such as benefit Incidence Analysis based on household data on consumption and cost of providing. Who is benefiting from public spending on education? Uganda; in primary education the share of total benefit accruing to poorest quintile and richest quintile was the same. PETS showed different share of total benefit from education spending.

ANALYSIS (cont.)

Relate to other variables (econometric models): Urban/Rural schools or other schools characteristics;

Uganda case; Information access and other endowments by a school (school size, qualified teachers).

Uganda; poor communities received nothing or very little; schools in wealthier communities received some, while local officials benefited most.





































1. PETS, Evidence	hard da	ita and tra TS: non-wa	insparer ge funds	icy	
Country Ghana Peru Tanzania Uganda Zambia Zambia	Year 1998 2001 1998 1995 2001 2001	Fund Nonwage Utilities Nonwage Capit. grt Fixed grt Discr. grt	Sample 126 100 45 250 182 182	Еакаде Ф.с. 3Ф.с. 7р.с. 87р.с. 1Ф.с. Ф.с.	
				© IIEP-UNESC 3	:O



411 1 1-		Wiedran	St. dev.	Max	Min	Obs
1995 2001	23.9 81.8	0 82.3	35.1 24.6	109.8 177.5	0 9.0	229 217
	Mean ((1995) N	fean (2001)			
Regions Central North	24 26	.3	92.8 102.4			
Northwest West	11 24	.2	90.3 71.6			
Southwest East Northeast	21 20 36	.1	83.3 62.4 73.4			
a. Grants received	as share of e	ntitled grants.	/3.4			









































INFORMATION DISSEMINATION

Zerubabel Ojoo Management Systems and Economic Consultants. Kampala, Uganda Email:stalight@africaonline.co.ug

INFORMATION DISSEMINATION

- Start building anticipation of PETS information during planning and survey work stages of PETS.
- Task Force and likely consumers of the findings should be carefully selected.
- ▶ Prepare mailing list.
- ► Share all aspects of PETS at appropriate stages in a progressive manner.
- Prepare a concise report clearly explaining results from PETS and recommendations and present to Task Force and other consumers.
- Avoiding personal and institution specific findings.

Continued

- Presentation must be specific aiming at initiating appropriate changes to minimize capture and improve provision of quality education.
- Use appropriate media and for a a to reach wider audience.

Uganda case on information dissemination:

- Task Force 3 meetings, Donors 3 times, NGOS 2, Cabinet Ministers 1; multiplier effect and application into program designs;
- MOEYS institutionalizing PETS.
- ▶ MOH next introduced PETS.
- Public information display in newspapers is the norm of public expenditure management; showing monthly district financial transfers by type of expenditure (18 in number).
- Projects operating in specific locations use the same modality.

IIEP/ITC 248 - Exercise Paris, 07 June 2004 Original: English



International Institute for Educational Planning 7-9, rue Eugèse Delacroix, 75116 Paris, France

International course on: "Public Expenditure Tracking Surveys in Education [and Health]"

Phnom Penh: 21-30 June 2004

Ruritania exercise

IIEP Project on: "Ethics and corruption in education"



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EXERCICE OVERVIEW

LEARNING OBJECTIVES

- 1. To develop awareness of the magnitude and harmful consequences of corruption in education.
- 2. To train participants in the design and implementation of *Public Expenditure Tracking Surveys* (PETS) aimed at measuring the magnitude and analyzing the causes of public fund leakage.
- 3. To call attention on the benefits of organizing such surveys and disseminating their results to fight corruption.

At the end of the course, participants should be able to participate meaningfully in all the steps of a PETS.

COURSE CONTENT

This will be a hands-on, practical course, which will consist mainly of group work. Groups of 5-9 participants will be assigned exercises to train them in the major tasks involved in the preparation, design, implementation and analysis of a PETS on pre-university education, as well as in using its results to alleviate corruption. The country concerned will be Ruritania, a fictitious country.

The tasks assigned will be divided into four sections:

- Section 1: Preparing the PETS
- Section 2: Designing the PETS
- Section 3: Implementing the PETS
- Section 4: Analysis and follow-up.

Group work on each section will be preceded by a lecture presenting the methods used by PETS, giving concrete examples, and describing the tasks to be performed by the working groups. At the end of group work on each section, a plenary meeting will discuss the papers produced by each group and present other possible solutions to the exercises.

Participants will receive the following documents:

- Public Expenditure Tracking Surveys in Education by Ritva Reinikka and Nathaniel Smith, IIEP UNESCO 2004;
- Information on Ruritania and its educational system, including educational financing;
- Sample Questionnaire, PETS, Primary School Survey, IIEP, The World Bank;
- District Education Office Questionnaire, Zambia QSDS (Education), The World Bank;
- Research Assistants Survey Manual, Papua New Guinea PETS, The World Bank.

Exercise 1.1 Objectives and issues

LEARNING OBJECTIVES

To apply the approach recommended in the course documents (especially in 'Public Expenditures Tracking Surveys' by R. Reinikka and N. Smith) on a concrete example.



At the end of the exercise, participants will be familiar with the methods used to define the objectives of and the major issues to be examined by a PETS in the field of education.

EXERCISE

Suppose your group is preparing a PETS concerning primary education in Ruritania and has been asked to write a *preliminary paper* justifying and briefly describing the survey. As a first contribution to this paper, your group will define the objectives and main issues of the PETS by answering the questions below.

- 1. Formulate the objective(s) of the PETS. (Of course this formulation might be changed after in-country consultations). Your formulation should justify the PETS, i.e. explain why the survey is needed and why it would benefit the country and the people of Ruritania. This justification should be supported by country data.
- 2. Formulate two key research questions that the PETS will have to explore concerning the funding and delivery of educational services in Ruritania.
- 3. Formulate your tentative answers to the research questions.
- 4. Briefly describe the various investigations the survey will have to conduct in order to meet these objectives.

SOURCES

Before discussing the group's response with your colleagues, please read attentively:

- the document "Information on Ruritania and its educational system", and
- point 1 a and b of Chapter 4 in the book "Public Expenditure Tracking Surveys in Education" by Reinikka and Smith (p.p. 47-50).

Also reflect about your experience in your country or other countries.

Exercise 1.2 Resource flows for primary education

LEARNING OBJECTIVES

To make a preliminary analysis of the flow of government resources for education on a concrete example, and to discuss the opportunities such a structure offers for corruption.



At the end of the exercise, trainees will be able to analyze the flow of public funds for education in a country and detect the opportunities it offers for corruption.



In this second exercise, your group will contribute to the PETS *preliminary paper* for Ruritania by analyzing the structure of the government's resource flow for primary education, as it is described in the document "Information on Ruritania and its educational system". Your analysis could, among others, include the following points:

- 1. Draw up a provisional graph of the government's resource flow for primary education, including the funds concerning textbooks. An example of a similar graph is shown below.
- 2. On the basis of your experience, discuss the opportunities for corruption offered by this pattern of resource flow. What corrupt practices could arise from such opportunities?
- 3. Write a one-page paper summarizing the views of your group about opportunities for corruption in Ruritanian primary education.




To train participants in the design and selection of a scientific national probability sample.



At the end of the exercise, trainees will be able to design and select a scientific national probability sample of schools (and students), and to provide training for other staff in the Ministry

TASKS

Your group will contribute to the *preliminary paper* concerning the Ruritania PETS by preparing a provisional *sampling strategy* for the survey.

More specifically, your group will:

- 1. Describe the target population of a study with a clear distinction between desired and defined population.
- 2. Distinguish scientific sampling from non-scientific sampling.
- 3. Examine through an experiment the differences in the accuracy in a variety of probability sampling.
- 4. Identify the sources of bias and error in a given sample design.
- 5. Define the sample design parameters.
- 6. Utilize the sample design tables for given structural and financial constraints.

- 7. Utilize the random number tables for a selection of pupils at a school.
- 8. Utilize the sample design manager (SAMDEM) software on a national list of schools.
- 9. Calculate sampling weights using the probability of selection.
- 10. Interpret tabulated results taking into account the size of sampling errors.

Construction of a sampling frame and target population

A sampling frame is basically a list of elements in the population in the form of a computer-readable data file (Excel, Access, ASCII, SPSS, dBase).

If the survey is about Grade 5 pupils, then the file should contain the following information:

Official School Registration Number (*) Official School Name (*) Official Name of "Ministry of Education Administrative Region" (*) Official Number of "Ministry of Education Administrative Region" (*) Stratification Variable 1: For example: "School Location (Urban/Rural)" Stratification Variable 2: For example: "Government/Private" Grade 5 pupil Enrolment (*)

Note: The variables marked with an asterisk (*) are compulsory - whereas the two extra Stratification Variables would be useful for teaching purposes.

In our example, we will use an Excel file, which contains 2984 primary schools in country X. On each record, there are following information:

- Position 1: Unique School ID
- Position 2: Province Name (24 provinces)
- Position 3: District Name (179 districts)
- Position 4: Unique School Name
- Position 5: School Location (1=Urban; 2=Rural; 3=Remote)
- Position 6: Geographical Region (1=South East; 2=South West; 3=Central; 4=West)
- Position 7: Measure of Size

Position 1 Position 2 Position 3	Position 4	Position 5	Position 6	Position 7		
1020103001 Banteay Mean(Mongkol Bo	r Banteay Neai	2		1197		
1020109003 Banteay Mean(Mongkol Bo	r Khilek	2		490		
1020112002 Banteay Mean(Mongkol Bo	r Dang Run	2		245		
1020115007 Banteay Mean(Mongkol Bo	r Prey Chan-H:			259		
1020118004 Banteay Mean(Mongkol Bo	r O Andaung	2		266		
1020203009 Banteay Mean(Mongkol Bo	r Anlung Thng:	2	3	567		
1020209010 Banteay Mean(Mongkol Bo	r Bat Trang	2	3	504		
1020305012 Banteay Mean(Mongkol Bo	r Chamnom	2	3	714		
1020309016 Banteay Mean: Mongkol Bo	r Raung Ko	2	3	483		
1020313014 Banteay Mean(Mongkol Bo	r Dang Trang	2	3	287		
	VADIARIE'S D	OSTITION				2 X
		55111011				
	F	lease type th	e number which	ch indicates the	e position	
		0	f the following	z variables :	- Chang	e variable name
	School ID.	1		3	 School Size	0
			District			
	School Nam	e 4	Geo-Region	6	School Programme	0
	Province	2	School Locat	ion 5	Measure of Size	7
	L	Jse TAB to g	o to the next	box.	ОК	Cancel
	Sort by (Optic	n)				
	Geo-Region		- & Measure	of Size	▼ & (null)	
	<<<===					===>>>

This sampling frame contains the desired population (the population for which the results are ideally required). You can operationalize the target population by defining the excluded population. Example:

- a. schools affected by war conflict / hazards
- b. schools that are too isolated / too small

The following screens show how to excluded schools that have less than 50 pupils and its results.

CONDITIONS OF EXCLUDED SCHOOLS	×
STEP 4 Define Population Total number of schools 2984	
SIMPLE CONDITIONS	
Example : (Measure of Size < 10)	
VARIABLE OPERATOR VALUE	
Measure of Size 💌 < 🔽 50 💌 Cancel	
COMBINED CONDITIONS Example : (Region = 1) and (Measure of Size < 10)	
operator	
VARIABLE OPERATOR VALUE conditions VARIABLE OPERATOR VALUE	

Ster Define Popu) 4			SALAph: DEs	pManagar
Desired		De	fined	Total Ex	cluded
Schools	Students	Schools	Students	Schools	Students
2984	1226708	2971	1226127	13	581
Exclu Schools 13 0.44% Excluded_	ided_1 Students 581 0.05% 1 : Measure] - e of Size < 5	50		

Sample design parameters

You have to first decide or obtain information on (a) stratification variables, (b) effective sample size, (c) coefficient of intraclass correlation (Roh), (d) minimum cluster size, and (e) pseudo school parameter.

(a) Stratification variables

This information will be used in Step 5 in order to divide the population into subpopulations, or strata, for which the sampling will be conducted independently.

STRATUM VARIA	<u>?</u> ×	
STEP :	5 tification	ОК
1st Variable	Geo-Region	Cancel
2nd Variable	(null)	
3rd Variable	(null)	
4th Variable	(null)	
5th Variable	(null)	
6th Variable	(null)	
	Maximum number of strata 4	

(b) Effective sample size

This information will be used in Step 9. The effective sample size is the size of a simple random sample that would provide the same sampling accuracy as your two-stage cluster sample. Therefore, by choosing the value of the effective sample size, you are in fact pre-determining the required level of sampling accuracy for your two-stage cluster sample.

(c) Coefficient of intraclass correlation (Roh)

If you are taking one pupil from each school, this Roh does not affect the size of sample required, therefore this step is optional.

The Roh for your target population is also used in Step 9. This value indicates how much of the overall variation among students can be attributed to variation among schools. The Roh value varies between 0 and 1 with 0 representing only chance variation among school means, and 1 representing all variation due to among school sources and no variation within schools.

(d) Cluster size

This value – also used in Step 9 – indicates the number of students that will be tested in each school. If this figure is 1, it is the same as simple random sampling.

(e) Pseudo school parameter

This information will be used in Step 7 in order to obtain the list of pseudo schools. It is the minimum measure of size that each school should have in order to be considered as a school in its own right in the sampling frame. If the measure of size for a school is less than this value, then the school must be combined with a nearby school to form a pseudo school.

	PARAMETER	5				? ×	1			
	SIE Allocate	p 9 Proportion	nal Sam	ple acros	ss Strata					
	Parameters									
	Effective Sample Size (ESS) (> 100) 400									
	Coef. of	f Intra-class	Correlatio	n (Roh)	.3	_				
	Number (Minimur	of pupils to s m Cluster Size	select with e)	in school	1					
	Sampling	Accuracy								
	Percer	ntage		=>±	5%					
	Standa	art Deviation	of Mean	=>±	0.1 s					
	Design ei	ffect								
	Design) Effect (Deff	·)=>		1					
	-Sample S	iize								
	Total nu	imber of scho	ools =>	400	ОК					
	Total nu	imber of stud	lents =>	400	Cance	1				
		-							613.5 E 23.4	. hele
	Step	9							Salahallik	
	Allocate Proj	portional Sa	mple acro)\$\$						* *
			Г							
	Stratum	D	efined	2	•	Al	location ac	ross strat	a	
N°	Geo- Region	Stdt.	Schl. ((Pseudo)	Pct.		Schools		Measure	of Size
						Exact	Planned	Option	Number	Pct.
1	1	498785	1123	1123	40.7%	162.7	163	163	163	40.8%
2	2	271572	593	593	22.1%	00.0 79.4	09 79		09 79	22.3% 19.8%
4	4	212296	540	540	17.3%	69.3	69	69	69	17.3%
	Grand To	1226127	2971	2971	100.0%	400.0	400	400	400	100.0%
	ESS:400									
	Roh : 0.3									
	MCS:1									

After this using the random starter and the intervals determined by the number of schools in each stratum, schools will be selected using the probability proportionate to size (PPS) sampling. SOURCES

For guidelines on sampling and stratification, see point 2 of Chapter 4 in the book "Public Expenditure Tracking Surveys in Education" by Reinikka and Smith (p.p. 54-57).

Sch	Exercise 2.2 lool questionnaire
LEARNING OBJECTIVES	

To give participants an opportunity to study a PETS school questionnaire in depth, and learn how to adjust it to a different education system.



At the end of the exercise, trainees will be able to participate meaningfully in the preparation of a PETS school questionnaire.

EXERCISE

In this exercise, as part of the *preliminary paper*, your group will propose an adaptation of the *Sample questionnaire* to be used for the Ruritania PETS.

First read attentively the Sample questionnaire. Then your group will meet and do the following tasks:

- 1. Delete redundant questions:
 - either because they are not applicable to Ruritania (e.g. Section I, question 6: there is no private education in Ruritania),
 - or because they would be unnecessary given the PETS's objectives and key research questions as defined in Exercise 1.
- 2. Modify questions to adapt them to Ruritania as required.
- 3. Add questions that you consider important for the PETS and have been overlooked in the sample questionnaire.

4. Write a short paper explaining what you have done and why.



- As a reference, a *Sample questionnaire* has been distributed to you.
- For guidelines on questionnaire design, see point 2 of Chapter 4 in the book "Public Expenditure Tracking Surveys in Education" by Reinikka and Smith (p.p. 57-62).

Exercise 2.3 DEO questionnaire LEARNING OBJECTIVES

To teach participants how to write a DEO questionnaire to match a school questionnaire.



At the end of the exercise, trainees will be able to participate meaningfully in the preparation of PETS questionnaires addressing other levels than schools.

EXERCISE

Your group will design the outline of a questionnaire for District Education Officers in Ruritania to match the questionnaire for schools reviewed in the previous exercise.

- 1. Define the various sections in the DEO questionnaire.
- 2. Prepare the lay-out and the headings of the section on funds received and distributed (in cash / cheque or in kind) by the DEO for the needs of the district's primary schools.
- 3. Define the data to be collected in each section.
- 4. Write a short paper explaining what you have done and why.

As a reference, the questionnaire for DEOs used by the World Bank in the Zambia PETS has been distributed to you.

Exercise 3.1 Staffing LEARNING OBJECTIVES

To train participants in making appropriate plans for hiring the staff necessary to implement a PETS.

EXPECTED RESULTS

After the exercise, trainees will be able to contribute usefully to the recruitment of staff for a PETS.

EXERCISE

Your group will continue its work on the Ruritania PETS *preliminary paper* by estimating the staff required for the PETS. Your estimate will be based on:

- 1. the data available about Ruritania;
- 2. the objectives, sampling strategy and questionnaires you have proposed in the previous exercises; and
- 3. a sample which covers 250 schools and 20 districts.
- ► The survey will presumably be supervised by a Government Task Force composed of high-level officials. Do not include them in your estimates.
- Your estimates should as far as possible be supported by arguments, e.g. the experience of previous PETS. Make a realistic estimate of the staff needed to perform the various tasks involved, add a contingency allowance for unforeseen difficulties, but avoid wasting the scarce resources allocated for the survey.

- Do not forget that the staff will have not only to prepare and implement the survey, but also to monitor its implementation, enter, compile and analyze the data, prepare the report and make arrangements to disseminate the results.
- Think about the kind of people you want as staff members: researchers from the University (e.g. sociologists), from the statistical institute, private consultants, students, others? Remember that officials of ministries of education are not acceptable in a PETS because they are part of the education hierarchy.
- Please list the staff required as in the example below:

Category	Tasks	Education/ experience	Numbers	
Researchers	Preparing, organizing, supervising survey	College degree, Experience of surveys	8	
Enumerators	Data collection Data entry/compilation	Senior teachers Students	38	

<u>Note</u>: This table is not a model but just an example showing how you could present your estimates.

Exercise 3.2 Implementation and Monitoring

LEARNING OBJECTIVES

To train participants in planning the activities of a PETS, as a first step in planning the resources required.

EXPECTED RESULTS

At the end of the exercise, participants will be able to participate meaningfully in the planning of a PETS.

EXERCISE

Your group will plan the sequence of data collection and monitoring activities to be undertaken by the team during implementation of the Ruritania PETS. Please list these activities in order of time from the earliest to the last. The list should include the number of institutions to be visited, the staff involved, and an estimate of the time required, allowing extra time for unforeseen difficulties. Do not forget to include staff and time for monitoring. The implementation period should not exceed 18 months.

- 1. Write a short text explaining the sequence of activities. Then list the activities as in the following example.
- 2. Draw up a bar graph of the time schedule showing the distribution of activities over time.

Activity/ level	N° institut. visited	Staff involved	Time required
Data coll/ Central	20	4 researchers	4 weeks
Data coll/ Regions	20	4 researchers	4 weeks
Data coll/ Districts	40	4 researchers	8 weeks
		4 enumerators	
Data coll/ Schools	200	4 researchers +	16 weeks
		40 enumerators	
Data compilation		4 researchers +	4 weeks
		40 enumerators	

Activity/ level	2005				2006						
	July Aug.	Sep	Oct	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	Jun.
Data coll/ Central	XXX										
Data coll/ Regions	XXX										
Data coll/ Districts		xxx	XXX								
Data coll/Schools	XXX	XXX	(XX)	x xx	X						
Data compilation				2	XXX						

<u>Notes:</u>

- 1. The above table and graph are not models but just examples showing how you could present your proposals.
- 2. In the above graph, the researchers in charge of a regional survey team is supposed to divide his/her time between the collection of region and district data and the monitoring of school visits by enumerators.
- For guidelines on PETS implementation, see point 3 of Chapter 4 in the book "Public Expenditure Tracking Surveys in Education" by Reinikka and Smith (p.p. 62-65).

Exercise 3.3 Data Entry and cleaning

LEARNING OBJECTIVES

To give trainees a first hand experience of data entry and cleaning, with particular attention to checking the data entered carefully before finalizing the operation on each school.



At the end of the exercise, trainees will be able to participate meaningfully in the training and supervision of data entry operators in a PETS.

EXERCISE

In this exercise, your group will learn how to enter and clean raw data from one school questionnaire (from Papua-New Guinea) into a spreadsheet (in this case an EXCEL sheet) in order to generate a set of data suitable for analysis. The EXCEL sheet ("Exercise 3.3") will be provided on a computer diskette.

Meet together in the group to prepare a short paper to present your conclusions about the Exercise, what you have learned and the difficulties met, at the Plenary discussion.

HELP

1. Those of your group who have never used EXCEL should first take a little time to practice it with the help of the experienced colleagues.

- 2. Open the EXCEL file entitled "Exercise 3.3". This file contains 4 sheets, numbered 1, 2, 3 and 4, where the data for each school are entered in succession. Each cell is divided into a large number of *cells* labeled A, B, C, D, on the horizontal line and 1, 2, 3, ...vertically. On each cell in the top row you will see the name of the question of the school questionnaire to be entered in the column below. For instance, on cell BV1 of sheet 2, you read "S1F14A". This means School survey (S1), section F (School Finances and Sources of Support) question 14 (Education subsidy in 2001, how much money was received?), column A (First quarter).
- 3. Enter the data from the questionnaire successively in the cells of row 2 of the spreadsheet (A2, B2, etc.). After entering the data from one page of the questionnaire, check carefully each data entered, then go to the next page.
- 4. You will not be able to enter all the data from the 26 pages from the school questionnaire. Enter only those from Sections A (Background), F (School finances and Sources of Support) and K (Data Appendix). Section A will be on Sheet 1 of the EXCEL file, Section F on Sheet 2, and section K on Sheets 3 and 4. Stop after 45 minutes as the task is rather repetitive.
- 5. 'Clean' the data entered. This is done automatically by some statistical programs, but you may wish to clean a first set of data by hand in order to better understand how the program operates. Cleaning consists in checking the data entered successively in order to exclude implausibly high or low values of some variables. To control for errors, you may have to do range checks. This is normally done at the end of the entry operation for a batch of questionnaires, but, since we have little time, we will do it for the data you entered from one questionnaire only. In the questionnaire, you will notice that some questions are answered '99' or '999'. These are not errors. According to the survey manual, '99' stands for 'don't know'. '999' is not mentioned in the manual, but apparently means 'not applicable', for instance questions about grades 1 and 2 in primary schools (which include grades 3-8 only). Don't correct those answers.

OURCES

- > The questionnaire with the data to be entered will be handed to you separately.
- As a reference, the "Research Assistants Survey Manual" used by the World Bank in the Papua New Guinea PETS has been distributed to you.

Exercise 4.1 Data analysis 1

LEARNING OBJECTIVES

- To give trainees a first hand experience of how to calculate the leakage of funds on a spreadsheet.
- ► To teach those who have never worked on a spreadsheet the basic calculation formulas.



At the end of the exercise, trainees will be able to participate meaningfully in the estimation of leakage from a set of data collected from questionnaires.

EXERCISE

In this exercise, you will make a first analysis of data from 77 questionnaires. Your group will calculate the average difference between the government subsidy received by schools and the subsidy they were supposed to receive, in other words the subsidy leakage. Then you will learn how to calculate the standard deviation, which measures the degree of dispersion of a set of data. You will do these calculations using the EXCEL mathematical formulas: e.g. the formula used to add up figures contained in cells A2 to M2 is: =SUM(A2:M2).

Meet together in the group to prepare a short paper to present your conclusions about the Exercise, what you have learned and the difficulties met, at the Plenary discussion.

D HELP

Open the EXCEL file entitled "Exercise 4.1". The file contains a Table with the following data from 77 school questionnaires (a row for each school):

Column A	School number (the names of schools have been omitted)
Column B	Province
Column D	District
Columns E-T	Enrolments by grade and sex for last year
Column U	Total enrolment; e.g. U2=SUM(E2:T2)
Columns V-Y	Govt. subsidy received in quarters 1, 2, 3 and 4 last year
Column Z	Total Govt. subsidy received; e.g. Z2=SUM(V2:Y2)
Column AA	Govt. subsidy received per pupil; AA2=Z2/U2
Column AB	Official Govt. subsidy per pupil (40 currency units)
Column AC	Official amount of Govt. subsidy for the school
Column AD	Leakage (Official subsidy minus subsidy actually received)
Column AE	Leakage percent of the official amount of Govt. subsidy
Column AF	School fees
Column AG	Project fees
Column AH	Other fees
Column AI	Total fees charged to parents
Column AJ	Total fees per pupil
Column AK	Percentage qualified teachers

- Your first task is to fill columns AC, AD and AE, which have been left blank, by manipulating data in the previous columns with EXCEL arithmetic operators (+, -, /) and formulas (e.g. SUM). AC2 is evidently equal to the school enrolment U2 multiplied by 40, so AC2 =U2*40; etc. You will quickly learn by practice how to use these formulas and copy them from cell to cell.
- 2. Also fill the bottom cell (80) of columns AC and AD to get the total of each column, e.g. AC80 =SUM(AC2:AC78).
- 3. Calculate the standard deviation of the set of data on leakage percent in column AE. The standard deviation is an algebraic expression that tells you how tightly the various data in a normally distributed set are clustered around their average. If the standard deviation is small in relation to the range covered by the data, it means that the data are tightly bunched together; if the S.D. is large, then the data are dispersed. The S.D. is particularly useful to compare the distributions of two or more sets of data. In the EXCEL spreadsheet, you will calculate the S.D. for the data in column AE by using the function =STDEV(AE2:AE78).

Exercise 4.2 Data analysis 2

LEARNING OBJECTIVES

To analyze the possible causes of fund leakage by exploring the variations observed among the schools and looking for correlations.

EXPECTED RESULTS

At the end of the exercise, trainees will be able to understand better and help in the data analyses undertaken by researchers to explore the causes of variations in leakage.

EXERCISE

In this second exercise on data analysis, your group will explore, within the sample of 77 schools, possible causes for the variations in subsidy leakage per pupil.

Our initial hypothesis is the following: in the school system represented by the sample, as in Uganda, the bargaining power of schools vis-à-vis their District Education Officers is the root cause of the major variations in leakage per pupil. In other words, larger schools (generally urban), schools where many students have wealthy parents, schools with a high proportion of qualified teachers, stand a greater chance of receiving a fair share of their govt. subsidy than small, poor, generally rural schools, whose students are poor and teachers unqualified.

You will examine how leakage per student varies according to:

- total number of students; and if you have time according to
- the wealth of parents, and/or
- the percentage of qualified teachers.

You will further examine whether and how strongly these pairs of variables are related by studying the statistical correlation existing between them. Here again you will use the EXCEL spreadsheet to draw the graphs and calculate the coefficients currently used in this kind of analysis.

Write a short paper to explain your conclusions from the above analysis.

D HELP

- EXCEL enables you to produce a graph showing how the percentage of leakage varies with enrolment. To do this, first select column U in the spreadsheet you have worked on in Exercise 4.1. Then click AZ ↓ on the Menu bar. The schools in the whole spreadsheet are now ranked from the smallest to the biggest. Column AE shows the percent leakages of these schools ranked according to the size of the schools. To produce a graph showing the variations of leakages according to school size, select column AE, then click the button "graph" on the Menu bar, choose the type of graph you want, and follow the instructions.
- 2. Look at the graph and at the data carefully. How would you interpret the variations detected by the analysis? Do they fit with our initial hypothesis?
- 3. If you have time you can do the same analysis for the variations in leakage according to the wealth of parents, or according to the percentage of qualified teachers (column AK). We shall consider total school fees per pupil (column AJ) as a proxy for the average wealth of parents in the school. To get the leakage figures ranked according to total school fees per pupil, select column AJ, then click the AZ↓ button in the Menu bar. Then you can also produce a graph showing the variations of leakage according to wealth of parents by clicking on the "graph" button of the Menu bar.
- 4. You could also calculate the correlation coefficients (or "r") measuring the strength of the relations existing between Enrolments and Leakage, etc. Correlation coefficients vary between -1.00 and 1.00. If the coefficient is close to 0, there is no relationship between the two variables; if it is close to +1 or -1 the correlation is strong. If r is positive, as one variable get larger the other also gets larger. If r is negative, as one gets larger the other gets smaller.

5. Look at the graph and analyze the data in column AJ carefully. Do they support our initial hypothesis?

SOURCES

Before discussing the group's response with your colleagues, you can read the analysis of the PETS results in Zambia, points 3 to 5 of Chapter 7 in the book "Public Expenditure Tracking Surveys in Education" by Reinikka and Smith (p.p. 93-99).



To increase the participants' conviction of the need for concerted efforts to disseminate the results of the PETS. To review and discuss the various means available for this purpose.



At the end of the exercise, participants will be more convinced of the need to ensure the dissemination of PETS results and better prepared to plan and implement this essential phase of the survey.



Your group will prepare a section of the Ruritania *preliminary paper* presenting a plan for the dissemination of the survey's results for a period of two months.

To start with, the following questions should be examined when preparing your plan:

- Who will be involved in the dissemination of the survey's results?
- Who should dissemination activities be addressed to?
- When will the dissemination activities begin? Should one wait until the summary report is published?
- Which activities would be the most beneficial and should get the preference given budget limitations?

Your plan could include such activities as:

 meetings with political leaders, government officials, particularly from the Ministries of Education and Finance, etc.;

- meetings with representatives of the civil society, such as teachers' unions, PTA's, NGO's, journalists, influential people;
- articles in newspapers and other printed media;
- radio and TV broadcasts and interviews;
- publication of excerpts of the summary survey report, or of its main conclusions, subject to the Government's agreement; etc.

Do not forget that the preparation of such activities takes time, particularly if audio-visual media or aids are to be used.

Finally, you should try to establish an accurate budget for the implementation of your plan.



Before discussing the group's response with your colleagues, you can read the experience of Uganda's information campaign, point 4 of Chapter 5 in the book "Public Expenditure Tracking Surveys in Education" by Reinikka and Smith (p.p. 76-78).

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Phnom Penh: 21-30 June 2004

Ruritania sources

IIEP Project on: "Ethics and corruption in education"



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CONTENTS

- I. Information on Ruritania and its educational system, including educational financing
- II. Sample Qestionnaire, PETS, Primary School Survey, IIEP, The World Bank
- III. District Education Office Questionnaire, Zambia QDS (Education), The World Bank
- IV. Research Assistants Survey Manual, Papua New Guinea PETS, The World Bank

INFORMATION ON RURITANIA AND ITS EDUCATIONAL SYSTEM

BASIC DATA (2001)

Area

285 000 km2

Malaria and AIDS endemic

Tropical; one rainy season June to October

Climate

Sanitary conditions.

Regional administration:

8 Regions:

- *North:* A sparsely populated, dry pastoral area, its main resources are cattle raising, agriculture and tourism.
- *East:* Also a dry pastoral area, but fisheries, coconut plantations, industries and the economic activities around the main harbour of the country provide additional resources.
- *North central:* Main resources are provided by irrigated farming, mining and industries.
- *Central:* Urban and peri-urban areas around the national capital. Main resources come from commerce, public services and industries.
- Southeast: A densely populated, fertile plateau, where a variety of food and commercial crops are grown. Tourism is developing along the beaches.
- South central: Irrigated farming, mining and industries provide the main resources of this densely populated area.
- *Southwest:* A mountainous region, with small farms; subsistence agriculture, coffee plantations and tourism provide the main resources.
- *Northwest:* Resources similar to those in the Southwest Region.

Table 1 below shows the main statistical data concerning the Regions. The annexed Map outlines the lay-out and boundaries of the 8 Regions and 45 Districts.

Regions	Area (sq. km 000's)	Population 000's	Pop. Density per sq km	Urban pop. 000's	N° Primary Schools	N° Districts
North	45	720	16	100	518	6
East	40	960	24	200	657	7
N. central	45	2,700	60	100	1,467	7
Central	21	4,200	200	3,500	2,338	5
Southeast	35	3,500	100	700	1,931	5
S. central	32	3,200	100	600	1,757	5
Southwest	42	1,680	40	100	1,074	6
Northwest	25	1,000	40	100	580	4
Totals	285	17,960	63	5,400	10,422	45

Average distance Capital to District Headquarters. 400 Km

Average distance District Headquarters to Schools: 50 Km

Road conditions	- capital-d - districts	istricts: -schools:	tarmac roads earth roads or tracks	
Total population	18 million			
Population in urba	30%			
Average populatio	on growth ra	2.5% (cities 5.1%; rural areas 1.8%)		
Age structure of ,	population	0-6 7-12 13 and over	25.6% 17.4% 57.0%	
Life expectancy a	t birth:	53 years		
Adult illiteracy ra	te:	39%		

Languages: One major national language used in daily life and radio broadcasts; English second official language, taught in primary school, used in courts and major newspapers.

Total working population	7.2 million
in agriculture	66%
in mining and industry	12% (including informal activities)
in services	22% (including informal activities)

GDP per capita: US\$ 310 at current exchange rates, US \$ 1,200 at purchasing power parity

Level of schooling	Enrolments	Gross enrolment rates
Primary Secondary general technical Teacher training Higher	3,032,000 982,000 920,000 62,000 1,250 30,000	97% 42% 1,8%

TABLE 2Enrolments and gross enrolment rates (2000/01)

THE ECONOMY

- 1. The chief economic resources of Ruritania are agriculture (rice, other foodcrops, cotton, cattle, hogs), fisheries, mining and some industry. Ruritania is almost self-sufficient for food.
- 2. Ruritania undertook a major economic reform programme in 1993 to shift from a strategy of heavy Government involvement and regulations to a process of liberalization and privatization, following an economic downturn in the 1985-1990 period. This approach, which includes a decrease in public spending and a freeze on the hiring of civil servants, has the backing of several bilateral and international aid agencies. The successful implementation of the reform programme during the 1990's has allowed the country to return to a situation of positive economic growth.
- 3. The Government's policy is to develop a market economy, facilitate the establishment and growth of private, including foreign, enterprises and stop the previous expansion of the public sector. Under the 2001-05 plan, it is expected that the real growth rate will reach 4.5% per annum, and will stabilize at that level in the medium term. This trend should allow consumer purchasing power to increase after 2005. Agricultural production will be the main engine of economic growth in the medium term. Although light industry makes a relatively small contribution to overall GDP, it will play an important role because it enjoys a high annual growth rate, as high as 10% in some branches.
- 4. Because of expected constraints, restrictions on public spending will be continued until 2005. However, human resources development will have priority, and major social services will be maintained, authorizing the appointment of new teachers.
- 5. Whether or not growth targets are actually reached will depend to a large extent on the amount of investment in private industry. Ruritania enjoys a certain number of advantages in this regard, making it an attractive place for

investors. In particular, it offers cheap labour and a well developed infrastructure. Nevertheless, the average productivity of Ruritatian manpower is still low since there is a shortage of educated manpower in general, and of skilled workers in many branches. That weakness causes many companies to hesitate to invest in Ruritania. Firms needing critical skills have to turn to qualified foreign workers, and this increases the cost of labour per unit.

STRUCTURE AND ADMINISTRATION OF THE EDUCATION SYSTEM

- 6. The educational system in Ruritania involves six years of primary school, followed by three years of lower secondary, three years of upper secondary, and finally higher education available in three Universities. The language of instruction, which is also the official language of the country, is generally the mother tongue of most children entering primary school. In principle, primary school teachers should be trained for three years in specialised upper secondary schools called Teacher Training Schools (TTS); however many of them have not been trained for teaching. Teachers in secondary schools are university-trained. Separate institutions provide technical and vocational training at both lower and upper secondary levels. Boarding exists only in upper secondary, technical and teacher training schools.
- 7. All levels of the educational system are administered by the Ministry of Education (MOE), except for technical and vocational training which is the responsibility of a separate Ministry of Technical and Vocational Training (MTVT). There is no private education in Ruritania. Training in agriculture is offered by the Ministry of Agriculture. Other Ministries (Health, Defence, Social Affairs) also run special schools in their fields. Under the Minister's authority, the Permanent Secretary of the MOE co-ordinates the action of six Directorates: Primary Education (DPE); Secondary Education (DSE); Higher Education (DHE); Educational Planning (DEP); Examinations and Testing (DET); Personnel and Budget (DPB); and of the National Institute of Education (NIE), which is in charge of curriculum development and textbook production. Primary Teacher Training is under the Directorate for Secondary Education. There are 8 Regional Education Offices (REO's), and 45 District Education Offices (DEO's).
- 8. Educational administration in Ruritania is suffering from excessive centralization, cumbersome procedures, ill-defined responsibilities, and weak co-ordination between departments.



9. Outside the Ministry of Education, several institutions undertake research and training in the field of education. The Faculty of Human and Social Sciences of the Central National University does a lot of research on education, and its staff has experience in sample surveys. The Institute of Management Studies of the same University is unfortunately weak and unable to organize appropriate training for educational administrators. The Statistical Institute of the Ministry of Finance is responsible for the national census and has considerable experience in all kinds of surveys, including those concerning education.

EDUCATIONAL FINANCING

- 10. Due to the priority given to human resource development, the Government of Ruritania increased expenditures in education during the late 90s. In 2001, it devoted the equivalent of \$154.1 million to education, which amounted to 10.7% of the government's operating budget and 2.76% of GDP. Of that total, \$147.8 million went to the MOE and the MTVT. Table 3 (page 6) shows the distribution of these funds by level and category of expenditure and the unit costs.
- 11. In principle parents do not pay any school fees. However the schools charge them with contributions for school insurance, examination fees etc. In

addition, parents support a levy for the schools' Parent-Teacher Associations (PTAs), which finance a substantial part of the schools' expenses for school buildings, educational aids (other than textbooks), and school feeding programs. Since 1990 the PTA levy per pupil has approximately doubled. It is now officially estimated, on average, at \$9.00 for primary schools, bringing the average annual cost supported by parents to \$11.3 per primary pupil, and the real amounts are said to be sometimes much higher. There are no Boards of Management in Ruritania's primary schools.

	Government spending on education (in millions of US \$)					Unit costs
	Personnel	Others	Scholarships	Total	% a/	(in US \$) a/
Primary	52.9	20.0 Ь/	_	72.9	51.8	25.3
General secondary	20.2	12.2	2.2	34.6	24.6	39.5
Tech. and voc.	1.6	2.1	0.3	4.0	2.8	67.7
Higher Education	12.7	4.5	12.0	29.2	20.8	1023.3
Central Administration	5.2	1.0	-	6.2		
Miscellaneous	0.5	-	0.4	0.9		
Totals	93.1	39.8	14.9	147.8	100	

TABLE 3Government Spending for Education in 2001 (MOE and MTVT
combined) and Unit Cost per Student

Notes: a/ In the calculation of the percentage allocation of public education expenditure (Column 6) and the unit costs (Column 7) per level of education, expenditures for the central administration and miscellaneous items were distributed among the various levels of education in proportion to their direct expenses.

b/ of which 9.2 for educational materials, textbooks and supplies.

- 12. Primary and secondary education staff, including teachers, are paid directly by the MOE, either by transfer to their bank accounts, or in cash at District Treasury Offices.
- 13. Allocations for material expenses in primary and secondary schools (including those for classroom construction) are transferred, on a monthly basis, by the Ministry of Education to the relevant Regional Education Offices. These allocations are supposedly based upon those of the previous year, taking into account (a) changes in the Ministry's budget and (b) expected increases in regional enrolments. REO's manage and distribute the funds allocated to secondary schools and transfer those allocated to primary schools to the District Education Offices. DEO's manage and distribute these funds to primary schools, in kind or in money. The schools' financial records are not submitted to the central government.

14. In 1992/93 Ruritania's primary education system featured a gross enrolment rate of 106 per cent and a net enrolment rate of 85 per cent. All of the nation's children would be currently going to school had enrolment continued to climb at the previous rate. Unfortunately, as Table 4 below shows, the situation deteriorated as from 1994/95. Not only enrolment is not going up, but indeed the number of children entering the first grade is stagnating whereas the school age population continues to increase. Although the number of new admissions is still about equal to the seven years old population, this phenomenon is causing considerable concern because one third of new entrants are older than seven.

	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01
Student enrolment	2,500	2,719	2,873	3,007	2,958	2,922	2,714	2,695	2,746	3,032
Gross enrolment rate (%)	100.0	106.0	109.2	111.6	107.0	103.2	93.5	90.6	90.0	97.0
Net enrolment rate (%)	79.8	84.6	87.1	89.0	82.4	82.4	74.6	72.3	71.9	77.4
Students entering 1st grade	563	547	578	605	595	588	546	542	552	610
Children age 7 b/	485	497	510	523	536	549	563	577	591	606
Schools	7,194	8,324	8,984	9,335	9,960	10,450	10,261	10,245	10,092	10,422
Teachers	61,867	70,569	76,171	78,570	82,140	87,221	86,631	87,571	85,812	86,828
Average repetition rate (%)	16.3	16.5	19.1	18.1	17.6	16.8	18.6	18.1	19.8	
Average dropout	5.3	5.9	8.8	13.9	14.8	22.8	17.9	16.5	11.2	
Average n° of pupils per teacher	40.3	38.4	37.6	38.2	35.9	33.4	31.3	30.7	32.0	34.9
% of primary education government budget spent on education materials	5.4	5.3	6.2	7.1	9.3	9.4	10.6	10.6	11.6	12.6

TABLE 4 The Main Indicators for Primary Schooling in Ruritania (Enrolment figures given in thousands of students)

a/ of which 1,163 in cities

b/ the official age of admission to primary schools is 7

c/ of which 814 in cities

	1st grade	2nd	3rd	4th	5th	6th grade	Total
		grade	grade	grade	grade		
Boys	389,418	290,521	254,515	229,422	223,058	173,777	1,560,711
Girls	380,766	288,653	245,601	216,314	204,485	135,509	1,471,328
TOTAL	770,184	579,174	500,316	445,736	427,543	309,286	3,032,039

TARI F 5	Enrolment	Figures	hy Grade	and by	1 Sex 1	(2000/01)	١
	Luionnen	i iyui es i	by bruue	unu D	JEAN	2000/01	J

- 15. The stagnation in admissions to primary education is partly due to the fact that education is now less popular than it was formerly in Ruritania. There are three main reasons for this:
 - The cost of education is unaffordable for many parents, as PTA levies have increased (paragraph 11) and disposable family incomes dropped.
 - The civil service has put a freeze on all job hiring (paragraph 2), giving parents the feeling that education no longer guarantees their offspring a job in the modern sector.
 - The quality of education has declined, owing to the scarcity of instructional materials, despite an increase in government funding and a marked drop in the number of pupils per teacher (Table 4, page 7).
- 16. The decline in educational quality despite an increase in the costs of education for parents and government make some people suspect that some of the government funds earmarked for schools' materials are not reaching their final destination.

GOVERNMENT PRIMARY EDUCATION POLICY

- 17. According to official statements the objectives of primary education are:
 - To provide all children, free of charge, with the minimum learning required to enter working life or to continue their education at the secondary level;
 - To base the content of education on national as well as universal values;
 - To use the maximum thrift in managing the human and financial resources allocated for this purpose.
QUALITY OF EDUCATION

- 18. The quality of primary education is measured by the proportion of students who acquire, before they finish school, that minimum amount of knowledge, which prepares them for working or continuing their education. Basically that means learning the "Three R's". This measure actually combines two factors:
 - Internal efficiency, i.e. the proportion of entering students who end up finishing primary school;
 - Scholastic achievement, i.e. the proportion of students who actually learn the minimum amount expected of them. Scholastic achievement will obviously be influenced by the inputs into the school system, i.e. the number and quality of teachers, their supervision, textbooks, school buildings and equipment, etc.
- 19. The following paragraphs present those data on the above aspects of primary education quality that are available for Ruritania, and relate these inputs to scholastic achievement.

Internal efficiency

20. Ruritania's primary school system has low internal efficiency, as shown by the repetition and dropout rates. In 1999/2000, 20 per cent of students were repeaters, and 44% dropped out or were excluded at some point during the cycle. On the average, including wastage due to drop-out/exclusion and repetition, the system spends 11.6 student-years instead of 6 to complete the training of one primary school leaver. A number of experienced Ruritanian teachers maintain that, under the present conditions, without repetitions and exclusions the quality standards in primary education would drop dramatically because students would have no incentive to work.

Scholastic achievement

21. Recently, on the Government's request, an evaluation survey of primary students' scholastic achievement was undertaken, using language and mathematics tests administered at both the beginning and end of the school year in a sample of classes representing the diversity of school conditions in the country. The survey found that, at the end of the school year, only 50% of second graders passed the achievement tests established by the NIE.

Teachers

- 22. As can be seen from Table 4, during the last ten years the Government has made steady efforts to decrease the number of students per teacher in order to increase the quality of education. In 2000, the average was 34.9 against 40.3 in 1991.
- 23. All primary school teachers are members of the civil service. As such they can be dismissed only by decision of the Minister of Education, and for very serious misconduct. Teachers' Unions are powerful and watch carefully for possible transgressions of the Civil Service statutes. The standards of teachers have improved over the past decade. Nevertheless, their educational background is still low (Table 6). Only 10 per cent of them received pre-service training, because there was only one Teacher Training School before 1996.

(% distribution by educational level) 1989-2001							
Educational background	1989/90	1994/95	1998/99	2000/01			
Upper secondary	11 8	12 0	18.4	22.2			
Lower secondary	44.0	48.0	54.0	52,5			

40.0

27.6

25.3

TABLE 6	Educational Background of Primary School Teachers
	(% distribution by educational level) 1989-2001

44.2

24. Average teacher annual salaries are as follows:

Teachers with higher education	\$	892
Teachers with upper secondary education	\$	699
Teachers with lower secondary education	\$	552
Teachers with primary school education	\$ 433	

Teacher Supervision

Primary

25. There are 45 District Education Offices (DEO's), each with an average staff of 10 inspectors and education officers. In actual fact they do mostly administrative work because the DEO's are short of vehicles, and DEO staff have not been properly trained for their supervision function. As a result of this lack of supervision, it is suspected that there are numerous "ghost teachers". Moreover, teacher attendance is often irregular, particularly in villages, and teaching methods tend to stick to ineffective rote learning.

Curriculum

26. The present primary education curriculum devotes 37 % of available instructional time to language skills --including reading and writing--, 18 % to mathematics, 20% to science, social studies and moral education, and the rest to music, art, physical education and manual work. The average instructional time is in principle 30 hours per week, although in practice it may be much lower for the reasons mentioned in paragraph 25.

Textbooks and school supplies

- 27. In principle textbooks are provided free of charge to primary school students, and the Government allocation for teaching materials is sufficient to cover the minimum needs of textbooks and school supplies to all pupils. This is the result of a deliberate policy by the government as can be seen from the bottom line of Table 4: during the last ten years, the percentage of the government's primary education budget spent on education materials has increased from 5.4 % to 12.6%. Despite this considerable effort, many children have no book. On average only 35% of the children have a reader, and other kinds of schoolbooks are even rarer. In the countryside, often 10 children have to share a single book. Similarly, teachers have few instructional manuals. School supplies on the other hand are generally available: 85% of primary school pupils have exercise books and pencils.
- 28. School supplies are generally purchased in bulk and distributed in kind to schools by District Education Officers using the allocations sent to them for this purpose by the MOE.
- 29. Textbooks raise more complex problems. In Ruritania their writing, publication and distribution are undertaken entirely by Government. The writing of primary education textbooks is the responsibility of the National Institute of Education (NIE) textbook committees, who entrust the task to selected DPE staff under their supervision. Printing is done by the Government Press under contracts with the NIE. The Government Press is working much below its capacity due to worn out equipment and poor management.
- 30. Storage and distribution are handled by People's Bookstores, an agency created by the MOE to supply schools. They run a network of 400 bookstoreswarehouses staffed with people seconded from the MOE and retired schoolteachers. People's Bookstores is not really equipped to distribute textbooks to all primary school children, and its staff does not have much experience in this field. There are rumours that many of the books never reach the schools but end up in the private market.
- 31. In addition to their scarcity, the present primary education textbooks are of poor quality: written ten years ago, they are not adapted to the present

curricula, the teaching methods they use are outdated, and their physical quality (legibility, durability of paper and cover) is also poor. Schoolbooks are also relatively expensive in Ruritania. The average cost charged by the Government Press for primary education textbooks is \$2.4 per copy. An expert's report argued that the cost of books could be slashed by 50 percent if they were ordered in large batches through competitive bidding procedures.

School buildings and furniture

32. Schools are located in buildings not conducive to study. 36 per cent of primary school classrooms are in temporary shelters, and many of those that were built by rural communities are in a woeful state of disrepair. 30% of children have no desk to work on, and 54% of classes have no table and chair for the teacher. By far, the largest contribution to the maintenance and construction of primary school buildings is, in fact, provided by the PTAs (see para 11).



APPENDIX 1. Sample Questionnaire

PUBLIC EXPENDITURE TRACKING SURVEY

PRIMARY SCHOOL SURVEY

International Institute for Educational Planning

World Bank

Section I. Identification

Question		Unit	Value
1. Sample code	2	Code	
2. Name of sch	nool	name	
3. Province		name	
4. District		name	
5. Day or boar	ding	1=Day, 2=Boarding 3=Mixed	
6. Private, public, religious		1=Public (Government) 2=Private 3=Religious, 4=Community 5=Other	
is the school day?	a. for grades 1-5 b. for grades 4-5	Number of nours	
	c. for grades 6-7		
8. Boys or girls	5	1=Boys, 2=Girls, 3=Mixed	
9. Date of interview		day, month, year (dd,mm,yyyy)	
10. Starting tin interview	ne of	(e.g., 14.00)	
11. Telephone	Number	Telephone number 0=No phone	

(to be obtained from the school records) Unit Value Question At this school, what is, or was, the number of... ...at ...at ...at the the end the of start of start of 2003? 2003? 20042 ...students in grade 1... 1a. no. students 1b. no. Of these, how many were girls? students 2a. ...students in grade 2... no. students 2b. Of these, how many were girls? no. students 3a. ...students in grade 3... no. students 3b. Of these, how many were girls? no. students 4a. ...students in grade 4... no. students 4b. no. Of these, how many were girls? students 5a. ...students in grade 5... no. students 5b. Of these, how many were girls? no. students 6a. ...students in grade 6... no. students 6b. Of these, how many were girls? no. students 7a. ...students in grade 7... no. students 7b. Of these, how many were girls? no. students 8. ...total students in class today... no. students 9a. Total number of students participating no. in primary leaving exam in 2003 students 9b. Of these, how many were girls? no. students 10a. How many students received a passing no. students mark on the primary leaving exam in 2003? 10b. Of these, how many were girls? no. students

Section II: Number of students in the school

Section III: Personal information about head teacher

(to be obtained from the school records)

Question)	Unit	Value		
1. Name	. Name				
2. Gender		1=Male			
		2=Female			
3. Age		Years			
4. Are you the head teacher?		1=Yes 2=No			
5. If not, what is your	1= Deputy He	ead Teacher			
position?	2= Teacher				
	3= Other				
If respondent is not head teacher,	fill in question	s 6-9 about the head teacher	r, or leave them		
blank if the information is not kno	wn for certain				
6. Number of years teaching		Years			
7. Number of years as head tea	cher	Years			
8. Number of years as a head to	eacher at this	years			
school?					
9. Highest level of education co	ompleted?	1 = high school			
8	1	2 = 1-yr teacher diploma			
		3 = 2-yr teacher diploma			
		4 = some university			
		5 = university degree			
		6 = post-graduate work			

Section IV: Teachers

(to be obtained in consultation with the head teacher with access to school records)

Question		Unit	L	/alue
1. How many teaching positions are official	ly	Number		
allocated to this school?				
2. How many of the official positions are		Number		
actually filled?				
3. How many teachers are present and teach	Number			
in this school <i>today?</i>	persent			
4a. Have any teachers been fired or laid off	in	Number		
the past twelve months? How many?		fired		
4b-d. For each of the teachers most	4b	1= Absenteeis	m	
recently fired (up to three, from the past		2 = Abuse of c	hildren	
twelve months as stated in 4a), what was	3= Bad teaching 4= Services no longer			
the reason for firing the teacher?				
	4d	5= Conflicts w	vith staff	
		6= Other		

5. Please fill out the table below for all the school's teachers.

	5a#	5b#	5c#	5d#	5e#	5f#	5g#	5h#	5i#
I D	Name	What grade does he/she teach?	Gender	Age	Position	Years em- ployed at this school	In-depth interview	At school today?	If no, why is the teacher away?
		Grade	1=M 2=F	Yrs	1= Senior teacher 2= Teacher 3= Trainee 4=Othe r	Years	1=Yes Others blank.	1=Y 2=N	1=Sick 2=Training 3=Adminis- trative duties 4=Approved leave 5=Don't know 6=Other
1	(Head teacher)								
2									
3									
4									
5									
6									
7									
8									
9									
10			<u> </u>						

	Continuation of Question 4 if necessary								
	5a#	5b#	5c#	5d#	5e#	5f#	5g#	5h#	5i#
I D	Name	What grade does he/she teach?	Gender	Age	Position	Years em- ployed at this school	In-depth interview	At school today?	If no, why is the teacher away?
		Grade	1=M 2=F	Year s	1= Senior teacher 2= Teacher 3= Trainee 4=Othe r	Years	1=Yes Others blank.	1=Ye s 2=No	1=Sick 2=Training 3=Adminis- trative duties 4=Approved leave 5=Don't know 6=Other
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

From the teacher list above, select *two* teachers if your school has *less than ten teachers* altogether, *three* teachers if your school has *between ten and twenty* teachers, and *four* teachers if your school has *more than twenty* teachers. We want to select teachers randomly but also to get a sample that covers different grade levels. Start with the teachers that appear *last* in an alphabetical list. Select the number specified by the size of your school, but do not select two teachers that fall into the same column in the table below. For example, if the last two teachers in the alphabet teach in grades 5 and 6, drop the second one and select the next teacher. Thus in large schools, all four columns will be filled in, but in smaller schools one or two at random will be left blank.

IF THE DESIGNATED TEACHER IS NOT PRESENT, PLEASE DO NOT SELECT ANOTHER TEACHER INSTEAD. This interferes with the study's techniques of statistical randomization.

				a	b	С	d
			Units	Grade 1 or	Grade 3 or	Grade 5 or	Grade 7
				2 teacher	4 teacher	6 teacher	teacher
6. Born i	n this provinc	e?	1= Yes 2= No				
7. Born i	n this district?		1= Yes 2= No				
8. What is the highest level of education completed by each of these teachers?			1= Less than high school 2=High school diploma 3= Some college 4= College degree 5= Beyond college				
9. Is this	teacher preser	nt	1 = Yes				
today?			2- NO				
If no:	10. How long	5	Number of days				
	has the teach	er					
	been away?						
	11. Why is th	e	1= Sick				
	teacher away?		2= Training 3= Administrative duties 3= Approved leave 4= Don't know 5= Other				
	12. How is	1 = U	se relief teacher				
	the school	2 = C 3 = Se	ombine classes				
	covering	unsu	pervised work				
classes?		4 = Sc	et the students work				
5=1		5 = L	et them play sports				
6=Se		nd students home					
13. How	many days ha	s	Number of days				
this teacher been absent							
this year?							
14a. Hov	w much does t	he	Currency figure				
teacher r	eceive in salar	V					
each mo	nth?						

14b. How much does the	Currency figure			
teacher receive in				
allowance each month?				
14c. How much is	Currency figure			
deducted from each				
payslip automatically?				
14d. So the total amount is	Currency figure			
fadd 14a and 14b, then				
subtract 14cl				
15. How is the teacher	1= Check			
paid?	2= Direct deposit			
16 Who have the teacher's	3 = Cash 1 = Natl govt			
10. Who pays the teacher's	2= School			
salary?	3= Community			
17 W/b o theorem theorem between the states 100	4 = Other 1 = Natherovt			
17. Who pays the teacher's	2= School			
allowance?	3= Community			
19 Driego and wagoo warry a	4= Other	Currency figure		
10. Flices and wages vary c		Surrency inguite		
What is a test is a large large	s country?			
what is a typical houriy wa	ge for a			
manual laborer in this area:	1-V		1	
19. Do you think it is	1 - Y es 2 = No			
possible to support a				
family only on the salary				
that this teacher earns?				
20. Does the teacher live	1 = Yes $2 = N_0$			
in school-provided	2-100			
housing?				
If 21. What is the	Currency per month	L		
yes rental value of the				
house per month?				
22. In your estimate, how	Number of hours			
many hours per week does				
this teacher work <i>at this</i>				
schoop				
23. How many hours per	Number of hours			
week is this teacher				
supposed to work in the				
classroom?				
24 Does this toach or have	1=Yes			
24. Does this teacher have				
another ich antil f	2 = NO			
another job outside of	2 = NO			

Section V: Facilities

(to be obtained in consultation with the head teacher)

(to be obtailed in consultation with the ne	each teacher)			
Question		Unit	Value	
1. How many classrooms made of h	nigh-	Number		
quality materials are there in this schoo	ol?			
2. How many classrooms made of le	OW-	Number		
quality materials are there in this schoo	51?			
3. How many classrooms have a		Number		
blackboard?				
4. How many classrooms have a roo	of that	Number		
leaks when it rains?				
5. How many classrooms have a cha	air <i>and</i> a	Number		
table for the teacher?				
6. How many classrooms have stora	age space	Number		
that can be locked at night?	0 1			
7. Does this school have a library?		1=Yes		
		2=No		
If yes 8. Estimate the number of bo	oks.	Number		
9 Who owns the land used by the	1=Cus	stomary		
school?	2=Stat	te		
	3=Chu	ırch		
	4=Boa	ard of		
	Manag	gement		
	memb	member		
	5=Sch	5=School		
	0=Otr	ner		
10 Anothene encouch mentions toilete	for the	Number		
10. Are there enough working tollets	s for the	TNUILIDEL		
students to use?	<u> </u>	Number		
11. Are there separate tollet facilities	for girls?	Number		
12. How many of the classrooms in	this	Number		
school have electricity?				
13. How many days last month did	1= None	1		
you experience some kind of power	2= One			
shortage?	3 = Two to	3= Two to eight		
0	4 = About	4= About half the time		
5 = Most o		= Most of the time		
14 What is the main source of	0 = 100 por	wei at all		
14. What is the main source of	ater tank			
diffiking water at this school?	/ lake / river			
	Bore hole			
	4=Piped			
	5=Other			
15. Are the students able to drink w	rater	1=Yes		
from that source today?	2=No			

16. Was water available all year round	1=Yes		
that source in 2002?	2=No		
17. Does the school have a playgroun	d or a	1=Yes	
sports area?		2=No	
18. Is the school surrounded by a wall	lor	1=Yes	
fence?		2=No	
19. Does the school have a specialist s	science	1=Yes	
classroom?		2=No	
20. Does the school have a kitchen or	a	1=Yes	
cafeteria?		2=No	
cafeteria?21. How do the students each lunch? (NOTE: If the answer differs by grade level, answer for students in grade 5.)1= H prov 2= S for s bring 3= S their eat a 4= S hom them 5= S befor		school lunch l at cafeteria ents may pay ol lunch or eir own ents bring n lunch and nool ents are sent r lunch and ne back ol day ends unch time	
22 Does the school have a staff-room	<u>ו ט - טוונ</u> וא	1=Yes	
	2=No		
23. Does the school receive a newspage	1=Yes 2=No		

Section VI. Location, Distance and School Choice (to be obtained in consultation with the head teacher)

Question	· · · · · · · · · · · · · · · · · · ·	Unit	Value
1. Is this s rural area?	school located in an urban or a	1=Urban 2=Rural	
2. What is population o village or tov which this sc located?	s the f the vn in shool is 1=Not in village or town / 2=Between 100 and 500 3=Between 500 and 2,000 4=Between 2,000 and 5,000 5=Between 5,000 and 20,000	Less than 100	
3. What	other villages or towns do	Town name	a.
to three, rank	ked according to which send the		b.
largest numb	er of students to this school.)		с.
4. About	how many students come from	Number	a.
	mages listed in question 3:		b.
		17'1	с.
5. How f listed in ques	tar away is each of the villages	Kilometers	a.
			Б. С.
6. How v villages listed	vould you get to each of the l in question 3?	1=Walk 2=Bus	a.
	•	3=Train 4=Car	b.
		6=Other	с.
7. Using t chosen in qu	he mode of transportation estion 6, about how long would	Hours and minutes	a.
it take to get question 3 fr	to each of the villages listed in om this school?		b.
		17'1	С.
How far from this	8. high school or secondary school	Kilometers	
school is the nearest	9. public transport	Kilometers	
of each of	10. health post / clinic	Kilometers	
wing:	11. public transport	Kilometers	
	12. paved road	Kilometers	
	13. bank	Mioineters	

13.	Are there any schools that local	1=Yes	
child	en could go to instead of this one?	2=No	
	0	99=Don't	
	I	know	
If	14. Please list the nearest ones (up to	School name	a.
yes	three)		b.
			с.
	15. What kind of school is each of	1=Day	a.
	these three schools day or boarding?	2=Boarding	b
	anese anee sensors, any or souraning.	3=Mixed	
		1-D 11	
	16. What kind of school is each of	I-Public	a.
	these three schools, private, public, or	(Government)	
	religious?	3=Private	b.
		4=Religious	
		5=Other	с.
	17. How far away is each of these three	Kilometers	a.
	schools?		b.
			<u> </u>
		1-Drowingity	
	18. What are the main reasons that	2 = A codemic	
	parents or children choose this school?	reputation	
		3=Ethnicity or	
		religion	
		4=Cost	
		5=Other	
		(specify)	

Section VII. Organization and Governance (to be obtained in consultation with the head teacher)

Quest	ion			Unit	Value	
1.	Does the scho	ol have a Board	of	1=Yes		
Mana	gement (BOM)?		2=No		
If	2. How many	times did the B	OM meet	Number of		
yes	in 2002?			meetings		
	3. How many	times had the B	BOM met in	Number of		
	2003?			meetings		
	4. When was	the last BOM m	eeting?	Day, month, year (dd,mm,yyyy)		
	5. How many	people are on the	he BOM?	Number		
	6. Which of	a. Teachers		1=Represented	а.	
	these are	b. Other staff		2=Not represen-	b.	
	represented	c. District repr	esentative	ted	с.	
	on the	d. Parent repre	esentative		d.	
	BOM?	e. Churches /	NGOs		e.	
		f. Local politic	ians		f.	
	7. What were	the top two	1=Discipline		#	
	issues discuss	ed at the <i>most</i>	2=Finance is	sues	1	
	<i>recent</i> BOM m	eeting?	3=Fees	deat	Is	
			5=Staff issue	aget	s	
			6=Curriculur	n matters	u	
			7=Fundraisir	ıg	e	
			8=Projects		#	
			9=Maintenar	nce	2	
			10=Other		Is	
					S	
					u	
					e	
8. Do	bes the school h	nave a Parent Te	eacher	1=Yes		
Asso	ciation (PTA)?			2=No		
If	9. How many	times did the P	TA meet in	Number of		
yes	2002?			meetings		
	10. How man	y times has the	PTA met in	Number of		
	2003			meetings		
	11. When was	s the last PTA m	neeting?	Day, month, year (dd,mm,yyyy)		

12. What percentage of the parents attend?	0=Very few 1=Less than half 2=About half 3=More than half 4=About all
School decision	n making
Who has the most say in:	
13. Approving the budget	1=Head Teacher 2=Other Teacher
14. Designing the curriculum	3=Other Staff 4=DEO or PEO
15. Setting the level of fees at this school	5=BOM 6=PTA
16. Choosing the teachers to hire	7=Local politician
17. Assessing teachers	9=Other
18. Deciding on maintenance work at this school	

Section VIII. Supervision and Accountability (to be obtained in consultation with the head teacher with access to the school records if necessary)

Question					Unit	Value
1. How many	visits	a. 2002			Number of visits	a.
were made to	this	b. 2003			-	b.
officials?	side	c. 2004			-	с.
2. What outsi	de	MULTIPLE	AN	JSWER	ALLOWED	I
officials made this school?	visits to	a. 2002			1=District educational officer	a.
		b. 2003			educational officer 3=Representative of	b.
		c. 2004			national education inspectorate 4=Other	C.
Consider only	visits by	the representa	tive	of the	inspectorate:	
3. How many	times	a. 2002?			Number of times	a.
did the inspec	tor visit	b. 2003?			-	b.
in:		c. 2004?				С.
4. What was t inspector's las	he purpos t visit?	e of the		1=Pers 2=Adv 3=Con 4=Oth	sonal inspection isory visit npulsory inspection er	
5. At that	a. Meet	with the head	tea	cher?	1=Yes	a.
time, did the	b. Meet	with teachers?	2		2=No	b.
inspector:	c. Meet	with the BOM	1?		-	с.
	d. Meet or the c	with parents, 1 ommunity?	the	РТА		d.
	e. Obse	rve classes?				e.
	f. Check	school record	ds?			f.
6. What kind at the end of	of feedbac hat visit?	ck was given	4a		0=None 1=Verbal report at staff meeting 2=Verbal report to	a.
			4b)	head teacher only 3=Verbal reports to individual teachers 4=Written report for	b.
			40		head teacher 5=Written reports to individual teachers	с.
/. Did you ge	t any teed	back in writing	g th	at was	1 = Y es 2 = No	
If 8 How	long did	it take to recei	ve t	he	Number of weeks	
yes written	report?			~~~~	after visit	

Section IX. Scho	ool's So	ources	of Fund	ing	(1	to be com	pleted in co	nsultation w	vith head tea	cher and scl	nool records)
Source	Were f	funds	How muc	sh was	How much	did the	g. On what	h. How	i. What	j. Did this	k. If so, what
	receive	pa	the schoo.	I entitled	school actua.	Ily receive	schedule	much	procedure	funding	category or categories
	from t	his	to from th	iis source	from this sc	ource	were the	delay was	did the	come eat-	of spending was this
	source	<u>.</u>					funds	there in	school go	marked for	source of funding
	a. (1)	b. (2)	c. (1) in	d. (2) in	e. (1) in	f. (2) in	from this	receipt of	through to	certain	intended for?
	.u	. H	2003	2004	2003	2004	source	these	get this	categories	(multiple answers
	2003	2004					disbursed?	funds?	kind of	of	permitted)
									funds?	spending?	
	1=Y	1=Y	Curren-cy	Curren-cy	Currency	Currency	1=All at	1=None /	1=Automatic	1=Yes	1=Paying staff
	2=N	2=N	figure	figure	figure	figure	once	On time	(sent by mail	2=No	2=Scholastic materials
							2=Two or	2=Less than	or direct		3=Maintenance
							more	two weeks	deposit)		4=Administration
							tranches	3=Between	2=School		5=Special programs
							3=Monthly	two weeks	responsible		6=Construction or
							4=More	and two	for pick-up		expansion of facilities
							often than	months	3=Significant		7=Other
							monthly	4=More than	paperwork		
								two months	burden		
1. National govt.											
capitation grants											
2. Other national govt.											
programs											
3. Local govt. support											
4. PTA Fees											

DATA SHEET

Source	Were funds	How mu	ch was	How much did the	g On what	h. How	i. What	j. Did this	k. If so, what
	received	the school	ol <i>entitled</i>	school actually receive	schedule	much	procedure	funding	category or categories
	trom this	trom t	his source	from this source	were the	delay was	did the	come ear-	of spending was this
	source				funds	there in	school go	marked for	source of funding
					from this	receipt of	through to	certain	intended for?
					source	these	get this	categories	(multiple answers
					disbursed?	funds?	kind of	of	permitted)
							funds?	spending?	
	a. (1) b. (2 in	?) c. (1) in	d. (2) in			1=Automatic (sent by mail	1=Yes 2=No	1=None / On time	1=Paying staff 2=Scholastic materials
	2003 2004	1	1007			or direct		2=Less than	3=Maintenance
						deposit)		2 weeks	4=Administration
	1 - 1 $1 - 1$ $1 - 1$ $2 = N$	J Curren-	Curren-	figure figure		2=School responsible		3=Between 2 weeks and 2	5=Special programs 6=Construction or
		figure	cy fipure	217911 217911		for pick-up		months	expansion of facilities
		0	0			3=Significant		4=More than 2 months	7=Other
						burden			
5. Other fees									
6. Churches / NGOs / donors									
7. Fundraising									
8. Other sources									

Section A. What did th	e school sper	nd its money	0n:					
		In 2	003			In 2	004	
	a. How much	b. Was	c. If so, how	d. Did school	e. How much	f. Was	g. If so, how	h. Did school
	was spent in	money spent	much?	receive any	was spent in	money spent	much?	receive any
	the school	on this item		of this item	the school	on this item		of this item
	budget on the	that was not		in kind from	budget on the	that was not		in kind from
	item on the	included in		outside	item on the	included in		outside
	left?	the budget?		sources?	left?	the budget?		sources?
	Currency figure	1= Yes 2=No	Currency figure	1= Yes 2= No	Currency figure	1= Yes 2=No	Currency figure	1= Yes 2= No
1. Administrative costs								
Facilities-related expense	Sč							
2. rent on property								
3. maintenance of								
school building								
4. janitorial staff								
5. security staff								
6. utilities								
7. scholastic materials								
(textbooks, pens, etc.)								
Staff-related expenses								
8. teachers' salaries								
9. teachers' bonuses								
10. teacher training								

Section XI Data sheet to calculate the value of in-kind support

From Central Government

Number

From Local Government

Subject	Number
3. Textbooks	
a. English	
b. Science	
c. Social studies	
d. Mathematics	
4. Stationary	
a. Pens	
b. Chalk	
c. Notebooks	
d. Uniforms	
e. Other	

Question	Unit	Value
1 Does the school keep detailed records of	= 1=Ves	
receipts from its spending?	2=No	
If yes 2 Are these available for both 2003	1=Yes	
and 2004?	2=No	
3. Does the school keep records of its	1=Yes	
receipts of income and subsidies from other	2=No	
sources?		
If yes 4. Are these available for both 2003 and 2004?	1=Yes 2=No	
5a. Did the records kept at this school enable	1=Completely	
you to answer the questions in Section IX	confidently and	
confidently and accurately?	accurately	
	approximate but	
6a. Did the records kept at this school enable	generally I am quite	
you to answer the questions in Section X	confident	
confidently and accurately?	3=There may be some	
	holes in the records	
7a. Did the records kept at this school enable	- which compromise the	
you to answer the questions in Section XI	4=Not confident of the	
confidently and accurately?	accuracy of figures:	
	specify problems with	
	providing the requested	
	data in part b of this	
	duestion (in the space	
5b. If you answered "4" to question 5a specify	problems with records:	
	Problems man recorder	
6b. If you answered "4" to question 6a, specify	problems with records:	
	. 11 .1 1	
/b. If you answered "4" to question /a, specify	problems with records:	

Section XII. Quality of records (To be completed after the rest of the interview has been conducted.)

Notes

About adapting the survey to your country: This sample questionnaire is designed to be rather abstract and general. Some of the specifics have been drawn from particular country experiences. In other cases, it used an abstract, general formulation of a question at the expense, perhaps of clarity. It is important that the questions be as clear as possible to respondents. Substitute local terminology as much as possible, to dispel any difficulty or ambiguity of interpretation that the questions as asked here may have in your country's context. The notes below give suggestions of specific ways in which the survey might be adapted to your country. They are not necessarily exhaustive.

I. (1) Sample codes for each school should be created centrally at the time the school sample is being prepared. They help analysts organize the data.

(6) The "types" of schools listed here draw from the experience of PETS in Uganda and Papua New Guinea. What are the main types of schools in your country? Adapt the answer choices so that they capture the major, clear distinctions in school types.

II. (8) and (15) Schools in your country may not include grades 1-7. This section should be adapted, so that the grade levels it asks about correspond to those represented in primary schools (or secondary schools if that is the PETS's focus).

(16) Questions like this one are best answered while the school day is going on, so that students can be counted.

(17) We assume here that there is a more or less standardized practice of offering a leaving exam at the end of grade 7. The general goal is to measure a "graduation rate" from primary school. In your country, leaving exams may not exist, or they may be highly standardized in which case it would be useful to get more detailed results in order to compare academic achievement across the country. There may be other tests that are worth asking about. Adapt the questionnaire to your own circumstances.

III. (6)-(8) These measure the head teacher's experience level. If there are other useful local ways to ascertain the head teacher's quality, adapt the questionnaire accordingly.(9) Vocational and higher education differs markedly across countries. Adapt the answer choices so that they will make sense to respondents in your country.

IV. (1) and (2) These questions assume that the central government allocates a certain number of "posts" to schools, which may or may not correspond at any given time to actual teachers teaching and getting paid. This system exists in many developing countries. If it exists in your country, there may be a way to use local terminology and make the question clearer. If it does not exist, these questions may not make sense, and information about the number of teachers will have to be requested in a different way.

(3) and (4) Can teachers be fired? What for? A key part of an accountability system.

(5) This is one of the most elaborately structured questions in the questionnaire as presented here. The answer to a single question within section IV consists of an entire matrix. We use this here to lead into our selection of two to four teachers for a more indepth analysis in questions 6-23.

(6) The process of selecting teachers offered here is rather complex and could be simplified. The advantage it offers is that analysts will be able to sort teachers by grade level, while it does not impose too large a burden on smaller schools participating in the survey. It also generates a natural "weighting" scheme, with larger schools more heavily represented, but this weighting scheme is a rough one and may not be adequate for many purposes.

V. Picture the buildings and grounds of a typical school in your country. What features would you expect to see? What features might vary? What would be the marks of a prosperous school? Of a disadvantaged school? Adapt the questionnaire accordingly. (1) and (2) "High-quality materials" and "low-quality materials" are stand-ins for local materials: for example, "concrete" may be a high-quality material in your country context, and "bush material" a low-quality material. It is necessary to substitute specific physical materials here because the present categories are subjective.

VI. (3)-(5) If you want to investigate the effects of school location more thoroughly, you might create village and town ID numbers, which would then help analysts explore the effect of distance and possibly of school choice more thoroughly.

Sections VII-XII: Issues of school governance and patterns of funding differ enough among countries that the sample questionnaire can only give general guidelines. This part of the question will require especially thorough and thoughtful adaptation.

VII. (13)-(18) These questions make an effort to get a clear picture of the decisionmaking process within your school. However, in current form they remain somewhat "subjective." You can do better for your own country by coming to the process of questionnaire design with some knowledge of local procedures and practices. School governance is at the heart of issues of accountability, and go far to determine how many opportunities for corruption there are, and who gets them, so this question should be designed carefully to make sure the data generated are reliable and forceful.

IX. After collecting the number of each of the items listed here, the price of these goods at the national level should be found out. The number of books purchased should be multiplied by the price to get a figure for the value of books purchased.

The Republic of Zambia in conjunction with The World Bank, ESDS: Zambia

DEO Questionnaire

Bastille

Note: All locations and codes do not correspond to any actual schools to preserve confidentiality!

Questionnaire for District Educational Officer(II) Expenditure and Service Delivery Survey ZAMBIA: Educational Sector The World Bank





The Republic of Zambia in conjunction with The World Bank, ESDS: Zambia

DEO Questionnaire

		Put in the names here	Put comments here
1	Name of supervisor		
2	Name of enumerator		
8	Location: Province		
4	Location: District		
5	Interview Date		
6	Interview Time		
7	Name of Respondent		
×	Respondent's job		1=DEO 2=Building Officer 3=Accounts Officer 4=Other Officer 5=Other
6	If the respondent is not the DEO, please record why the DEO is not available		1=DEO is sick 2=Family Member is Sick 3=DEO is on Leave 4=DEO gone on official work 5=Other



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Question Number	Question	Please record your answer here	Codes/Instructions	For Q 2,3 and 4 please record the time taken for the <i>usual</i>
1	How many schools are there in this district?	Number of Schools	Please fill in the number of schools in your district	which in which the DEO travels (by car, by taxi etc.).
5	How long does it take to reach the closest school to this office?	Hours Minutes	Please record the time for the <i>usual</i> way in which you travel	Some of the questions relate to the stock of transport vehicles at <i>present</i> , in August
e	How long does it take to reach the furthest school to this office?	Hours Minutes	Please record the time for the usua/way in which you travel	2001, and in August 2000. Please keep in mind that these dates change across different curscions
4	How long does it take to reach the average school to this office?	Hours Minutes	Please record the time for the <i>usual</i> way in which you travel	-criotical hubblin
വ	How many staff members does this office have?			
6	Is this the same as the number of staff assigned to this office?		1=Yes 2=No	
7	How many members of staff reported for duty <i>today</i> ?			
8	Does this office have an accounting unit?		1=Yes 2=No	
6	Does this office have a working telephone?		1=Yes 2=No	
10	What is the drinking water source?		1=Piped Water 2=Bore-hole 3=Tank/Pond/River/Stream 4=Other	
11	Does this office have electricity?		1=Yes 2=No	
12	How many cars does this office have at <i>present</i> ?			

Section I: Characteristics of Office and District

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DEO Questionnaire

I				
Question	Question	Please record your answer here	Codes/Instructions	For Q 2,3 and 4 please record
Number				the time taken for the usual
13	How many of these cars are in		Please record the number of	which in which the DEO
	working condition <i>today?</i>		cars that can be driven today	uavers (by car, by taxi etc.).
14	How many motorcycles does this			Some of the questions relate
	office have at <i>present</i> ?			to the stock of transport
15	How many of these motorcycles are		Please record the number of	vehicles at <i>present</i> , in August
	in working condition <i>today</i> ?		motorcycles that can be	2001, and in August 2000. Diagon beam in mind that
]	driven today	these dates change across
14	How many cars did this office have			different questions.
	in August 2001?			
15	How many motorcycles did this			
	office have in August 2001?			
16	How many cars did this office have			
	in August 2000?			
17	How many motorcycles did this			
	office have in August 2000?			
18	Is availability of fuel a problem at		1=Yes	
	present?		2=No	
19	Was availability of fuel a problem in		1=Yes	
	August 2001?		2=No	
20	Was availability of fuel a problem in		1=Yes	
	August 2000?		2=No	

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DEO Questionnaire

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-	•	:	Section II: Sch	nool Visits			-
School Number	School Code Put in codes of	How many times has someone from	Which officer last visited	How many visits by	When did the DEO last visit	When was the last time the	What was the main topic of discussion?
	schools that	this office visited	school?	standards	this school?	DEO met the	-
	have sampled in	the school since		officers have		PTA executive	1=School Funds
	This district over here	January 2002: 1=No visits	1=UEU 2=Standards Officer	been maae to		orschool?	2=5chool rertormance 3=School
		2=One visit	3=Buildings Officer	school since			Infrastructure
		3=Two Visits	4=Sports Coordinator	January 2002?			4=Teacher Performance
		4=Three Visits 5=More than	5=Examination Officer 6=Chief Education	Please record			5=Teacher's Housing 6=Teacher Shortaaes
		three visits	Officer 7=0ther	the <i>number</i> of visits			7=Cannot Remember 8=Other
1	1234						
					Month/Year	Month/Year	
2	6543						
					Month/Year	Month/Year	
3	1344				/	/	
					Month/Year	Month/Year	
4	65443				/		
					Month/Year	Month/Year	
വ	5655				/	/	
					Month/Year	Month/Year	
6	3433						
					Month/Year	Month/Year	
7	123334						
					Month/Year	Month/Year	

District Code: 403

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DEO Questionnaire

The Republic of Zambia in conjunction with The World Bank, ESDS: Zambia

			Section IIb: Requests	s and Complaints			
School Number	School Code Put in codes of	Have you received anv	Have you received any requests from the head-	Have you received any	Have you received any	In this office's oninion are	Does any officer of this office have any
	schools that	complaints from	teacher of	complaints	complaints	there a large	children or relatives
	have sampled in	the head-teacher	school since January	from the PTA	from the	number of	Ľ
	this district over	of	2002?	of	teachers of	school age	school?
	here	school since		school since		children who	
		January 2002?	1 = Yes	January 2002?	school since	are not going to	
			2 = No		January 2002?	school in the	
		1 = Yes		1 = Yes		villages/	
		2 = No		2 = No	1 = Yes	Neighborhoods	1 = Yes
					2 = No	around school	2 = No
						۰.	
						1 = Yes 2 - No	
1	1234				\ \		
					Month/Year		
2	6543				\ \		
					Month/Year		
3	1344				\ \		
					Month/Year		
4	65443				`		
					Month/Year		
2	5655						
					Month/Year		
6	3433				/		
					Month/Year		

District Code: 403

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9

DEO Questionnaire

The Republic of Zambia in conjunction with The World Bank, ESDS: Zambia

School	School Code	Have you	Have you received any	Have you	Have you	In this office's	Does any officer of
Number	Put in codes of	received any	requests from the head-	received any	received any	opinion are	this office have any
	schools that	complaints from	teacher of	complaints	complaints	there a large	children or relatives
	have sampled in	the head-teacher	school since January	from the PTA	from the	number of	in
	this district over	of	2002?	of	teachers of	school age	school?
	here	school since		school since		children who	
		January 2002?	1 = Yes	January 2002?	school since	are not going to	
			2 = No		January 2002?	school in the	
		1 = Yes		1 = Yes		villages/	
		2 = No		2 = No	1 = Yes	Neighborhoods	1 = Yes
					2 = No	around school	2 = No
						~	
						1 = Yes	
						2 = No	
2	123334				/ Month/Year		

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DEO Questionnaire

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DEO Questionnaire

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3=Collect district allocation 3=Collect district allocation 1=Discuss national policy 1=Discuss national policy 2=Educational Event 2=Educational Event 4=Other 4=Other 1=Yes 1=Yes 2=No 2=No Month/Year Month/Year How many meetings did you have with the PEO since January Have you sent any complaints/requests to the ministry since January 2002? When was the last time you had a meeting at the ministry? Have you sent any complaints/requests to the PEO's office When was the last time you had a meeting with the PEO How many meetings did you have at the ministry since What was the reason for this meeting? What was the reason for this meeting? since January 2002? January 2002? 2002? Question Number 2 ო 4 വ Ś ~ ∞

Section III: Meetings with PEO/Ministry





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The Republic of Zambia in conjunction with The World Bank, ESDS: Zambia

DEO Questionnaire

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	Please specify 1	the funding that th	his office receivec	l from each of the	e sources mentione	d below in each of:	the months.
Question Number	Month and Year	BESSIP	GRZ	HIPC	PAGE	Other Donors	Other
1	June 2001	¥	¥	¥	¥		¥
2	July 2001	¥	¥		¥		¥
e	August 2001		¥	×	¥		¥
4	September 2001	¥	¥	¥	¥		¥
2	October 2001	<u> </u>		<u>У</u>		<u> </u>	<u> </u>
Q	November 2001	¥	¥		¥		¥
7	December 2001	¥	¥	¥	¥		¥
8	January 2002	¥	¥	¥	¥		¥
6	February 2002	¥	¥	¥	¥		¥
10	March 2002	¥	¥	¥	¥		<u>У</u>
11	April 2002	<u>У</u>	¥	¥			<u>У</u>
12	May 2002	¥	¥	¥	¥		¥
13	Annual Expenditure	У	У		×	×	<u>У</u>
Please ent question w	er the amount your of ve are referring to cash	fice has received 1 Acheques received	from each of the s d from these sourc	ources heading tl ces.	re columns from J	une 2001 to May	2002. In this

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6

District Code: 403
DEO Questionnaire

Other	×	×	×	×	×	×	×
PAGE	×	×	×	×	×	×	×
НІРС		×	×	×	×	×	×
GRZ	×	×	×	×	×	×	×
BESSIP							
Question	In May 2002, how much was spent on transport (including fuel)?	In May 2002, how much was spent on vehicle maintenance?	In May 2002 , how much was spent on office expenditure?	In May 2002, how much was spent on disbursements to schools?	In May 2002 , how much was spent on emergencies?	In May 2002, how much was spent on telephone and electricity bills?	In May 2002 , how much was spent on other items (specify)?
Question Number	1	N	m	4	ى	9	7

Section V: Expenditures in the last month

We would like to get a better sense of your annual expenditure. All information pertains to May 2002. Please tell us the amount of money spent from all the various sources (at the top of the columns) on the items mentioned in the rows.

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District Code: 403

10

DEO Questionnaire

			Section	n VI: Receipts by sc	chools		
School	School Code	How much has	How many	How much has school	How many desks has	How many cartons of	Has school
Number	Put in codes of schools	school received in	textbooks has school	received for capital expenditures (such as	school received from this	chalk has school received from	received special assistance from
	that have	cash/cheque from this office since	received from	rehabilitation) since	office since	this office since	this office since
	sampled in this district	January 2002?	January 2002?				1=Yes 2-No
	over here						E - 1 40
1	1234						
2	6543	K		у			
3	1344	K		у			
4	65443	×					
D	5655	×					
6	3433	×		×			
7	123334	×		×			

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11

DEO Questionnaire

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DEO Questionnaire

School Code and Name

Put in codes of schools that have sampled in this district over here: School names do not appear anywhere in the rest of the document to preserve confidentiality. Prior to data entry, the last sheet is torn and destroyed.

1234	6543	1344	65443	5655	3433	123334	
John School	Jane School	Slutsky school	Nash School	Adam Smith school	Ricardo School	Schumpeter School	
Bastille	3astille	3astille	Bastille	3astille	3astille	3astille	





PUBLIC EXPENDITURE AND SERVICE DELIVERY

Research Assistants Survey Manual

CONTENTS

- 1. Introductory letter to Provincial Education Adviser
- 2. Introductory letter to Head Teacher
- 3. Introductory letter to District Education Administrator
- 4. Managing the Survey Forms
 - S1 School Survey
 - S2 Grade 5 Teacher Survey
 - S3 Board of Management Survey
 - S4 Parent Survey
 - D1 District Education Administrator Survey
 - H1 Health Facility Survey

5. Research Assistants Checklist

6. Survey Instruments

- S1 School Survey
- S2 Grade 5 Teacher Survey
- S3 Board of Management Survey
- S4 Parent Survey
- D1 District Education Administrator Survey
- H1 Health Facility Survey

Provincial Education Advisers

Enga, EHP, Morobe, Sandaun, ENB, WNB, Gulf, NCD

8/4/02

Re: Public Expenditure and Service Delivery Study

In Papua New Guinea, little is known about how public expenditures flow through the budget system – across levels of government – and are translated into services to be delivered at the local level. The goal of the Public Expenditure and Service Delivery (PESD) exercise is to generate new knowledge on how resources flow through the administrative and budgetary system; what the magnitudes of those resources are; and how those resources are combined with other inputs at the facility level to generate education outcomes.

Consultations between the Government of Papua New Guinea, the World Bank and AusAid have identified an analysis of Public Expenditure and Service Delivery (PESD) in the education sector as a timely and useful exercise.

The Secretary for Education has endorsed such a study, which will focus on the primary level of schooling where the main focus of PNG's effort on improving education services and which constitutes the largest part of the education budget.

The Education Studies Division of the National Research Institute has been asked to conduct the study. The Institute's team will co-ordinate 24 research assistants to collect data for the study.

In addition, a working group made up of representatives from the Departments of Finance, Treasury, National Planning and Monitoring, Education, and Church agencies has been established to advise and assist the research team from the Institute.

The research team has drawn a sample of seven Provinces and NCD to be included in the study. A total of 20 districts have been sampled from the Provinces for inclusion in the study and we would like to visit 30 community and primary schools in each District to collect data for the study.

The Table attached to this letter indicates the Provinces and districts throughout the country that are included in the sample.

You will note that your Province has been chosen for inclusion in the study. We are seeking your agreement and assistance to allow us to carry out part of the study in your Province.

The Institute would like to send research teams into the field in early April in order to complete the fieldwork by mid-May. There are a number of people that we would like the research teams to meet and to interview ranging from National and Provincial Treasury and Education staff through to district education advisers, head teachers, teachers, BOM chairpersons and parents.

It is the intention to carry out fieldwork in the Provinces during April and May. Training of the research assistants has already been completed. The final report is scheduled for July.

I would appreciate it if your Province would participate in this study and to assist the research team whilst it carries out its tasks. The results of the study will contribute to our understanding of resource flows and service delivery, as well as the relationship between resources and outcomes in the education sector, and contribute to policy development for the improvement of the quality of education in Papua New Guinea.

I look forward to your response.

Yours faithfully,

National Research Institute team leader.

Provinces	Districts
ENBP	Gazelle
	Kokopo
	Pomio
WNBP	Kandrian-Gloucester
	Talasea
Gulf	Kerema
	Kikori
Morobe	Finschaffen
	Tewae-Siassi
	Huon
Sandaun	Nuku
	Telefomin
	Aitape-Lumi
EHP	Kainantu
	Ungai-Bena
	Obura-Wonenara
Enga	Wabag
	Laigap-Pogera
	Kandep
NCD	NCD

Head Teacher

Community and Primary Schools in: Enga, EHP, Morobe, Sandaun, ENB, WNB, Gulf, NCD

14/4/02

Re: Public Expenditure and Service Delivery Study

The Education Studies Division of the National Research Institute has been asked to conduct an extensive study of public expenditure and service delivery in education in Papua New Guinea.

A team from the Institute will co-ordinate 24 research assistants to collect data for the study.

The Secretary for Education has endorsed the study, which will focus on the primary level of schooling which is the main focus of PNG's effort on improving education services and which constitutes the largest part of the education budget.

We have also contacted the Provincial Administrator and Provincial Education Adviser in your Province who have agreed that we should carry out the study.

In addition, a working group made up of senior staff from the Departments of Finance, Treasury, National Planning and Monitoring, Education, and Church agencies has been established to advise and assist the research team with the study.

The objective of the study is to track money flows from the Departments of Treasury and Finance through the National and Provincial Departments of Education to the districts and onto schools. How do expenditure flows and patterns affect the kind of services that you can offer at the district and school levels?

The research team has drawn a sample of seven Provinces and NCD to be included in the study. A total of 20 districts have been sampled from the Provinces for inclusion in the study and the team intends to visit 30 community or primary schools in each District to collect data for the study. In all there will be 220 schools involved in the research.

The Table at the bottom of this letter indicates the Provinces and districts throughout the country that are included in the sample. Other research teams are visiting those areas at the present time.

Your school has been selected in the sample for the study. Your school was drawn out of a hat. There is no other reason than that as to why your school is included in the study.

There are a number of people that we would like to meet and to interview in relation to the study. Yourself, the chairperson of the Board of Management, a grade 5 teacher and a parent of one of your students. We are also hoping to talk with the District Education Administrator in your district and staff from the local health facility.

I would appreciate it very much if you could help us with the study. We believe the study is very important and it has the backing of national and provincial government officers. The research team will explain in more detail what is required of you in relation to the study.

Yours faithfully,

Provinces	Districts
ENBP	Gazelle
	Kokopo
	Pomio
WNBP	Kandrian-Gloucester
	Talasea
Gulf	Kerema
	Kikori
Morobe	Finschaffen
	Tewae-Siassi
	Huon
Sandaun	Nuku
	Telefomin
	Aitape-Lumi
EHP	Kainantu
	Ungai-Bena
	Obura-Wonenara
Enga	Wabag
	Laigap-Pogera
	Kandep
NCD	NCD

National Research Institute team leader.

District Education Administrators

Enga, EHP, Morobe, Sandaun, ENB, WNB, Gulf, NCD

14/4/02

Re: Public Expenditure and Service Delivery Study

In Papua New Guinea, little is known about how public expenditures flow through the budget system – across levels of government – and are translated into services to be delivered at the local level. The goal of the Public Expenditure and Service Delivery (PESD) exercise is to generate new knowledge on how resources flow through the administrative and budgetary system; what the magnitudes of those resources are; and how those resources are combined with other inputs at the facility level to generate education outcomes.

Consultations between the Government of Papua New Guinea, the World Bank and AusAid have identified an analysis of Public Expenditure and Service Delivery (PESD) in the education sector as a timely and useful exercise.

The Secretary for Education has endorsed such a study, which will focus on the primary level of schooling where the main focus of PNG's effort on improving education services and which constitutes the largest part of the education budget.

The Education Studies Division of the National Research Institute has been asked to conduct the study. The Institute's team co-ordinate 24 research assistants to collect data for the study.

In addition, a working group made up of representatives from the Departments of Finance, Treasury, National Planning and Monitoring, Education, and Church agencies has been established to advise and assist the research team from the Institute.

The research team has drawn a sample of seven Provinces and NCD to be included in the study. A total of 20 districts have been sampled from the Provinces for inclusion in the study and we would like to visit 30 community and primary schools in each District to collect data for the study. We want to speak with Head Teachers, BOM chairpersons and parents.

The Table attached to this letter indicates the Provinces and districts throughout the country that are included in the sample.

You will note that your District has been chosen for inclusion in the study. We are seeking your agreement and assistance to allow us to carry out part of the study in your District and to make time available so that the research team can discuss a number of matters with you.

I would appreciate it if you would participate in this study and to assist the research team whilst it carries out its tasks in your District. The results of the study will contribute to our understanding of resource flows and service delivery, as well as the relationship between resources and outcomes in the education sector, and contribute to policy development for the improvement of the quality of education in Papua New Guinea.

I look forward to your assistance.

Yours faithfully,

Provinces	Districts
ENBP	Gazelle
	Kokopo
	Pomio
WNBP	Kandrian-Gloucester
	Talasea
Gulf	Kerema
	Kikori
Morobe	Finschaffen
	Tewae-Siassi
	Huon
Sandaun	Nuku
	Telefomin
	Aitape-Lumi
EHP	Kainantu
	Ungai-Bena
	Obura-Wonenara
Enga	Wabag
	Laigap-Pogera
	Kandep
NCD	NCD

National Research Institute team leader.

4. COMMENTS/ISSUES REGARDING SURVEY FORMS

Some General Issues:

1. Keep the survey forms neat and tidy - we do not want arrows, lines and notes written all over the pages. You might understand your notes and which question they refer to but there is no guarantee that we will understand your notes several weeks after the fieldwork has been completed.

Place the code or the extended answer clearly and legibly in the answer box provided.

2. There will be times when you are given additional information besides what the code anticipates. You should record that information in the exercise book that comes with each set of survey forms.

3. A question that does not have any sort of a code or response recorded for it is difficult for us to understand.

Was the question asked but there was no response and so nothing was recorded in the answer box? Was the question overlooked by the researcher? Was the question not asked because it was not applicable on the basis of the response to the previous question?

We need a response in the answer box for every question.

- If you ask the question and the answer is don't know then use code 99.
- If you ask the question and you do not get an answer then place a cross in the answer box to show that you did ask the question.
- If the question is not appropriate and you do not ask it, then write N/A for not applicable

4. The completed forms should be checked using the checklist as a guide.

5. Return the completed surveys to your regional co-ordinators as soon as possible.

S1. SCHOOL SURVEY

1. INTRODUCING YOURSELF AT THE SCHOOL

The school should have heard of your coming from the PEA but there will be schools that are unaware of your visit because of their isolation.

What do you do?

You need to introduce the team and the purpose of the study. You should name the study - the Public Expenditure and Service Delivery study. Hand a copy of the Introductory letter to the Head Teacher.

Make the following points:

NRI is doing the study. The Secretaries for Treasury and Finance, Education and National Planning and Monitoring have given their support for the study.

The study is designed to understand how money flows through all levels of government to arrive at a school.

The study is concerned to understand how money flows affect the kind of education services that a school can offer local communities. (eg. Full and quick payment of subsidies means that a school can provide high quality learning for children)

The study is <u>not</u> an audit of the school's accounts.

There are 7 provinces and NCD involved in the study. There are 22 districts in the study and 220 community and primary schools are involved.

This school has been chosen from all of the schools in the district. Ten schools were chosen by drawing names out of a hat.

Make it clear that there is no other reason for selecting this school. It was a random selection of schools.

People from the Provincial Administrator, Provincial Treasurer, Provincial Education Adviser, district staff, LLG officials, teachers, BOM representatives and parents are involved in the study.

The study is due to finish in July and it will influence policies to do with education and improve the practice of delivering education services throughout the country.

In addition,

You have a copy of a letter addressed to the Head Teacher from Dr Richard Guy.

MAKE SURE YOU ASK FOR THE HEAD TEACHER'S PERMISSION TO CONDUCT THE RESEARCH IN THIS SCHOOL.

2. SELECTION

Head Teacher

If Head Teacher is unavailable, select alternative person to interview in the following order:

- 1. Deputy Head Teacher
- 2. Senior Teacher
- 3. Knowledgeable and long standing teacher in the school

Grade 3 or 4 and Grade 6, 7 or 8 Teachers

In Section J2 of S1 you are asked to select one teacher from grade 3 or 4 and one teacher from grade 6, 7 or 8 teacher to allow you to collect further information.

The selection of each of these teachers is on the basis of alphabetical order. Place the grade3 and 4 teachers' names in alphabetical order and choose the teacher whose family name is first in alphabetical order. Do the same with the list of teachers from grades 6, 7 and 8 and select the teacher whose family name is first in alphabetical order.

One or Two Teacher Schools

In the case of a one teacher school, you will need to administer S1 but also S2 because there are additional questions on S2 that are not on S1. This will not be difficult or time consuming. A one teacher school will have a small enrolment and many of the questions in S1 relating to staff issues will not be applicable.

In the case of a two teacher school, interview the Head Teacher using S1 and use S2 with the other teacher no matter what grade he or she is teaching.

3. BUDGET DETAILS

Where possible collect a copy of the School's 2001 budget. If it is not possible to get a copy then please record expenditure for major items such as:

- Basic materials
- Textbooks

• Security

Infrastructure

- Ancilliary staff
- Equipment
- Consumables/expendables
- Vehicle expenses

4. ATTENDANCE

You are asked to collect the roll book for each class and count up the number of absences. This will be done for just one day. Which day do you pick?

Do the following:

What is today's name? Now take today's name and look for the same day for last week and count the number of absences in the roll book.

For example, if you are at the school on a Tuesday then take the Tuesday for the previous week and count the number of absences for that day for each class. Record the number of absences and the date of the day for which you are recording information.

Make sure that you look at all roll books. If they are incomplete then you will need to ask the teacher how many children were absent on the day in question.

5. SURVEY QUESTIONS

Most questions are straightforward and you will get a speedy answer.

Here are a few ideas to help you with some questions:

Question 6. Census enumeration area

You need to get the Head Teacher to identify the ward and the LLG in which the school is located.

You can then read off the census enumeration code from the sheets that we have given you.

Question 31. Only write down the number of classrooms that have both a teacher's chair and desk. If a classroom has a chair but not a desk, or vice versa, then this classroom does not have a chair and desk.

Question E12. There should be at least five people on the BOM.

Questions F1 and F2. Be careful when you ask questions about the parent contribution to school fees that the Head Teacher does not give you a figure that includes both school fee and the project fee. Make sure that the Head Teacher separates the school fee component paid by parents from the project fee component also paid by parents in 2000 and 2001.

There will be schools that did not set a project fee in 2000 and 2001. This should be noted on the survey form by writing Nil.

Questions F5, F6, F7, F8, F9. These questions do combine the school fee and the project fee. There is no need to separate the fees for these questions.

We are interested in the ability of parents to pay the fees in total.

Questions F35 and F36. In earlier years many schools had two bank accounts – one for the school for subsidy payments and one for the BOM for project fees. Some schools seem to be joining those accounts together and making one, which is known as a joint account and is used by both the Head Teacher and the BOM.

Basic materials in these two questions refer to exercise books, pencils, chalk, cardboard for use in the classroom.

Consumables means stationery used by teachers and office staff for administrative duties.

Question H. Roles and Responsibilities in Education

Remember that it is important to use the phrase, *who has the most say*? when you ask the questions on roles and responsibilities. Follow it up with, *who else has a say?*, and then, *how much say do you have*?

After some practice you will find this to be a straightforward question.

6. DATA APPENDIX

The Appendix comes at the end of S1. It can be pulled out of the folder and filled out by the other team member with the help of the Deputy Head Teacher while the Head Teacher is being interviewed by the other team member.

The Data Appendix is enrolment records and textbook numbers.

It <u>does not have</u> to be filled out with the help of the Head Teacher. It could be completed with the help of the Deputy Head Teacher or a Senior Teacher from the school. If you complete it this way it will reduce the burden on the Head Teacher who already has a lot to do answering the questions in S!.

Remember to: Collect a copy of the School budget for 2001

S2. GRADE 5 TEACHER

1. INTRODUCTION

You will need to give the Grade 5 teacher some background information about the purpose of the research and why we want to speak to this teacher. You should use the information that you use in your introduction to the Head Teacher mentioned earlier in this manual.

Remember the Grade 5 teacher has been chosen as representative of the teachers in a community or primary school.

We do not have time to interview all teachers in detail.

There is no other reason. Tell the teacher that he/she has not been chosen for any reason other than he/she is the only grade 5 teacher at this school, or was chosen because his or her name was first on an alphabetical list where there is more than one grade 5 teacher at the school.

2. SELECTION

You need to select one grade 5 teacher.

If more than one grade 5 teacher is at the school, place grade 5 teachers' names in alphabetical order and choose teacher whose family name is first in alphabetical order.

If grade 5 teacher is unavailable or there is no grade 5 class at this school, then select alternative teacher to interview in the following order:

- 1. Grade 4 teacher, but not the one chosen in Section J2 in S1 survey.
- 2. Grade 6 teacher, but not the one chosen in Section J2 in S1 survey.

3. SURVEY QUESTIONS

Most questions are straightforward and you will get a speedy answer. Here are a few ideas to help you with some questions: **Question 14.** We want more than the grade here. Make sure that you get the class name such as 5b if the school uses alphabetical letters, or 5green if it uses colours or some other way of describing the class.

Question 23. A teacher may be new to this school this year and will not be aware how many children from last years' class progressed to the next grade. In this case put in 99=don't know.

Question 24. It cannot be answered if Question 23 is answered as 99.

Question 25 and 26. The term 'adequate amount of food' is a subjective judgement. We are concerned that some children may not get enough to eat to enable them to work well at school.

Teachers may not be aware just what children are eating at home, but they might have suspicions on the basis of how well the child appears each morning to do classwork or sports activities.

Teachers will be aware of children who do not seem to eat regularly at school.

Question 48. An average figure for preparation and marking time is needed here.

Question 50. This question refers to the availability of such things as cardboard, posters, assignment sheets, art and craft materials, coloured chalk.

The question could be answered two ways.

- 1. in terms of funds available, or
- 2. in terms of teachers skills to produce aids.

Both answers are acceptable.

Question 72. Some teachers will tell you their substantive level. Check that this is the level of the position that they are filling at present. Many

teachers are at a level higher than their substantive level and receive a higher duties allowance.

Question 77. You have been given a list of allowances that teachers might get. Be familiar with that list so that you are not surprised by their answers or if they seek clarification of the sort of allowances that you mean.

There is no need to prompt them to give you an answer by running through the list that you have.

Wait and see how they respond and record appropriately.

Question 78. Some teachers supplement their income by selling smokes or betel nut after school or vegetables at weekend markets. They will usually admit to this. Other teachers might do private tuition or have a second job. They are less likely to tell you this because they are not meant to have a second job as a teacher. Take care here. We are trying to assess if teachers' salary is adequate or many teachers have to find ways to supplement their incomes.

Question 81. It may be easier for a teacher to say that the spouse has income even though the teacher contributes to that income generation. Record who earns that income.

S3. BOARD OF MANAGEMENT

1. INTRODUCTION

You will need to give the BOM representative information about the purpose and extent of the research.

A Tok Pisin version of the BOM Survey is included in your folder. Use it whenever you feel that the BOM representative is more comfortable speaking in that language.

2. SELECTION

If the Chairperson of the Board of Management is unavailable, select an alternative person to interview in the following order:

- 1. Treasurer
- 2. Secretary
- 3. Any other BOM representative

3. BUDGET DETAILS

Where possible collect a copy of the BOM's 2001 budget. If it is not possible to get a copy then please record expenditure for major items such as:

- Basic materials
- Textbooks
- Infrastructure
- Security

- Ancilliary staff
- Equipment
- Consumables/expendables
- Vehicle expenses

And the major sources of income and amounts in the budget such as subsidies, project fees, donations, donor assistance.

It would also be useful to get a copy of the BOM Treasurer's report for 2001.

4. SURVEY QUESTIONS

Most questions are straightforward and you will get a speedy answer.

Here are a few ideas to help you with some questions:

Question 21. The BOM might have an interest bearing deposit (IBD) or a trust account for a special project. This would be important to know together with the value of the deposit.

ASK FOR A COPY OF THE BOM BUDGET FOR 2001.

Also ASK FOR A COPY OF THE TREASURERS REPORT FOR 2001.

S4. PARENT

1. INTRODUCTION

You should give an explanation of the purpose and extent of the research before you commence the interview.

A Tok Pisin version of the Parent Survey is included in your folder. Use it whenever you feel that the parent is more comfortable speaking in that language.

2. SELECTION

We do not want the Head Teacher to nominate the most outspoken parent from the school.

Tell the Head Teacher that we want an 'average parent' rather than an outstanding parent. This is our opportunity to talk with 'mamas and papas' about the school and what it is like to pay fees.

Make sure that you alternate the selection of parents from male to female at each school that you visit so that we get a good balance overall of male and female parents.

3. SURVEY QUESTIONS

Most questions are straightforward and you will get a speedy answer in most cases.

Questions 41 and 42.

These questions are linked.

The first one is trying to find out the reason for sending children to school.

The second question is trying to understand if parents think that school activities and programs will help the child to achieve that purpose after they have left school.

In other words, is the school providing children with knowledge and skills that the parent thinks are valuable and relevant and make it worthwhile to send the child to school.

Question 63.

The last part of this question asks what other parents think about school. Some parents may not want to say anything on behalf of others, but some parents will make a comment. There is no need to try and get four responses from the parent on this part of the question unlike the first two parts to that question.

Write down whatever the parent says and finish the interview.

D2: DISTRICT EDUCATION ADMINISTRATOR

1. INTRODUCTION

You will need to give the DEA background information about the purpose of the research and why we want to speak to the DEA. Hand a copy of the Introductory letter to the DEA.

You should use the same kind of introductory information that you used with the Head Teacher mentioned earlier in this manual.

2. SELECTION

If DEA is unavailable it may be appropriate to interview senior inspector who may have deputised for DEA from time to time and is able to answer questions reliably.

3. BUDGET DETAILS

Where possible collect a copy of the District's 2001 budget. If it is not possible to get a copy then please record expenditure for major items such as:

- Basic materials
- Textbooks
- Infrastructure
- Security

- Ancilliary staff
- Equipment
- Consumables/expendables
- Vehicle expenses

It will be very useful to get the budget for all government sectors (eg. Health, Works, Agriculture) so that we can assess how much priority is given by the District to spending on Education or if other divisions get a greater share of the funds.

If it is not possible to get information for all sectors then make sure that you get it for Education.

4. SURVEY QUESTIONS

Most questions are straightforward and you will get a speedy answer in most cases.

Question 29.

The term 'exclusive use' in this series of questions means that equipment or facilities have been provided solely to the District Education Office rather than to the District Office for common use to be shared between Divisions such as Health, Education and Works.

Question 35.

Some schools in the District may be closed indefinitely or suspended for a range of reasons. We are interested in the total number of schools closed or suspended on the day that you are visiting.

- Schools might be **closed** because there are no teachers available to open it.
- Schools might be **suspended** because of administrative reasons and some kind of investigation will be done before the school is re-opened eg no water and it is closed for health reasons until the problem can be investigated and remedied.

If a school is re-opening tomorrow but closed today then it counts as a school closed today.

Question 46.

We do not need the names of DEB members, but which organizations they represent and the gender of each person.

COLLECT A COPY OR SUMMARY OF THE MAJOR EXPENDITURE ITEMS SUCH AS INFRASTRUCTURE, HEALTH, AND EDUCATION IN THE DISTRICT'S 2001 BUDGET.

H1. HEALTH FACILITY SURVEY

1. INTRODUCTION

You will need to give the Health Worker background information about the purpose of the research and the work that is being done at the local school and why we want to talk about the health facility.

The reason we are including the health centre is to understand how it is functioning as part of the delivery of basic services such as health and education in the local area.

Stress that the major part of the study is the education facility. Point out that we are hoping to include up to 220 health centres in the study and we have a standard questionnaire that we would like them to complete.

Inquire when it would be suitable to sit down and talk with them about the questions in the survey.

2. SELECTION

Interview person in charge of health facility such as the Sister, Administrative Officer or Aid Post Orderly.

3. SURVEY QUESTIONS

Most questions are straightforward and you will get a speedy answer in most cases.

Question 33.

You may need to probe this question. Try to get the health worker to indicate the actions that they would take to treat a child with diarrhoea in the local area. We do not want to know what the standard treatment is, but what they are able to offer patients through their health facility and the resources they have at their disposal.

Activity	Insert School Name	Insert School Name	Insert School Name
	(tick as completed)	(tick as completed)	(tick as completed)
Contect Hand Tooch on your envirol at school			
Contact Head Teacher upon arrival at school			
Outline purpose of visit Triform Head Teacher of read to:			
• Inform Fledd Teacher of Need To.			
interview Field Teacher			
interview of dde 5 fedcher			
interview a teacher from grade 5 of 4			
interview BOM chairperson			
interview a parent			
collect copy of School budget for 2001			
collect attendance information from roll			
books			
Gain permission from Head Teacher to carry out the research in this school			
 Administer survey (S1) to Head Teacher. 			
Make sure to:			
confirm census enumeration area code			
collect copy of school budget for 2001			
collect information required for the Appendix to S1			
collect all class roll books and count the			
number of absences on this day last week			
interview a teacher from grade 3 or 4			
interview a teacher from grade 6, 7 or 8			
Administer survey (S2) to Grade 5 teacher			
Administer survey (S3) to BOM chairperson			
collect copy of BOM budget for 2001			
collect copy of BOM Treasurer's Report for 2001			
Administer survey (S4) to Parent			
Administer survey (D1) to District Education Administrator			
collect copy of District budget for 2001			
• Administer survey (H1) to Officer-in-Charge of Health Facility			

5. RESEARCH ASSISTANTS - CHECKLIST



PETS OBJECTIVES

- To track not wage expenditure at school level & find causes of capture.
- Improve the Existing Financial Systems in the whole of Education Sectors to minimize captures.

PETS ACTION PLAN

- An independent PETS.
- The sample to be surveyed : MEF, MoEYS, 12 PEOs, 67 DEOs, 210 schools.
- Scope :
 - Financial Management in RCG systems, Donors & Others.
 - Regulatory Compliance Systems.
 - Analyzing the ways of the MoEYS reform systems
 - Efficiency of text book quantity & Distribution.
- Program: Survey sheet designed, Staffing, Training,

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- Pilot Survey implementation on field, Survey,
- Testing, Monitoring, Researcher, Data Entry,
- Data Analyzing, Compilation, Dissemination.

<u>Category</u>	<u>Tasks</u>	Background	<u>Number</u>
Management	Coordinator, Disseminating.	MBA, ACCA	3
Analysis	Monitor Data Entry, Data Analyzing	CPA, MBA, ACCA	8
Researcher	Preparing Survey sheets, Organizing, Training, Supervising survey, Collecting data at central level, Reporting.	MBA, ACCA MRD, MPR	12
Enumerator	Data collection in all level, Data entry and Checking.	Retired from MoEYS, MEF , MRD and graduate students	75

PETS IMPL	EMENTATION A	AND MONITO	RING
Activities Level	# Institution Visited	Staff Involved	Time Required
CENTRAL			
Introductory Visits (MEF, Gvt, Council Ministries, MoEYS, Ministry Public Function, Press, Donors, Provincial Gvt)	20	3 Managers & 3 Researchers	2 Weeks
Survey Sheet Design		5 Researchers	3 Weeks
Training		12 Researchers 175 Enumerators	4 Weeks
Revise Sampling		2 Researchers	2 weeks
Pilot	2 DEOs, 24 schools	1 Researchers 24 enumerators	2 weeks & 3 days
Revise Questionnaires		10 Researchers	2 weeks
Collect Data	02 Ministries, 12 PO, 12 PEOs, 64 DEOs, 350 Schools	12 Researchers 75 Enumerators	3 weeks 35 weeks
Monitoring data collection		12 Researchers	10 weeks
Data Entry		24 enumerators	6 weeks

				Time	Fran	ne						
Months	1	2	3	4	5	6	7	8	9	10	11	12
Weeks	xxxx											
Activities												
Central												
Introductory Visit	xx											
Staffing												
Researchers- Contract	xx											
Enumerators	xx											
Survey Design		xx										
Training		xx	xx									
Testing			XX	Х								
Revising Sampling			X				-					
Collection Data				xxx					5			



			J	J. J		
Category	Cost/d month	ay	Number	Number WD		Total
Manager	\$	230	3	12	\$	8,280
Sub-Total 1						8,280
Researchers						
A	\$	70	3	190	\$	39,900
3	\$	70	3	125	\$	26,250
<u> </u>	\$	70	6	125	\$	52,500
	Si	ub-Tota	12		\$	118,650



Budget Planning (Cont.)

Others				
Miselenous				\$ 3,000
Computers	\$ 1,700	12		\$ 20,400
Photocopy	\$ 8,000	1		\$ 8,000
Supplies				\$ 1,500
Car	\$12,000	1		\$ 20,000
Transportation	\$ 15	187		\$ 2,805
Rental Car	\$ 150		10	\$ 1,500
Sub-Total 4				\$ 57,205
Grand Total				\$ 635,425
777				
Dissemination

- PETS, MEF and MoEYS should involve in the dissemination of the survey's results.
- The dissemination should conduct by two time:
 - By the end of the pilot survey.
 - By the end of the whole surveys.
 - (The preliminary information)
- The teacher's salary, the financial management systems & the disbursement on right time-right activity would get benefit first.



- **Objectives**: Showing data finding & Needed Gvt involvement in improving the decision making policy.
- Target:
 - MEF, MoEYS, Government and National Assembly
 - Teachers & Parents.

Procedure:

- Management Report to MoEYS, MEF, National Assembly & Donors, then meeting.
- Summary report to government.
- MoEYS Magazine
- Media
- Opened National Seminar





Research Question

3

Why is increased GOC health spending resulting in increasing incident and mortality rate for children ?



















	People and Budget Needed	
	People Central: 6 (6x4dx40x\$25) Provincial: 10 (10x2x20x\$15) District: 20 (20xd10x\$10) Researcher/Enumerators 	Budget \$24,000 \$6,000 \$2,000
	(independent): 12 (12x40dx\$50) - Data entry and analysis Sundries (10%) Total	\$24,000 \$50,000 \$10,600 \$116,600
13		











PETS KENXN CASE

MERE WARE IN PETS -OVERVIEW

The Kenyan Government has not yet undertaken a PETS to date, however a quasigovernment organization undertook a PETS in the Ministry of Education but the outcome has not been released disseminated.

- Currently, the Ministry of Finance in collaboration with other stakeholders (Ministries of Planning, Education and Health)is in the process of organizing a PETS in the education and health sectors.
- The main areas of focus will be secondary school bursary and drugs in the rural health centers.



PROBLEM

There is a higher rate of increase in the allocation of funds devoted to Bursaries for the girl child than the rate of improvement in their performance especially in sciences.

OBJECTIVES

- Find out the reasons why the performance of the girl child does not improve despite the increase in the budgetary allocation
- Identify the leakages in the flow of bursary funds
- Make recommendations for interventions to improve the trend.









- Ghost Teachers
- Irregular procurement of stores/books
- □ Illegal fees and levies
- Mismanagement in schools where BOG is weak
- Mkness in identifying the appropriate textbook titles for the school curriculum



QESTIONNAIRE

- **DATA REQIREMENTS**
- Number of girls'schools
- Number of girls enrolment
- Number of schools by province, district
- Amount allocated in a series of 5 (ive) years
- Drop-out rate





Non of the data is already assembled in a data base



- For Ministry of Finance
- For Ministry of Education
- For Schools
- For Students



2 STAGE CLUSTER SAMPLINGSIMPLE RANDOM SAMPLING

IBLIC EXPENDITURE TRACKING SURVEY (PETS) FOR SECONDARY SCHOOLS BURSARIES IN KENYA	RECAP	PROBLEM e the increase in the allocation of funds devoted to bursaries for the girl child, the improvement in erformance especially in sciences has not improved.	OBJECTIVES and out the reasons why the performance of the girl child does not improve despite the increase in the ary allocation ntify the leakages in the flow of bursary funds ke recommendations for interventions to improve the performance
PUBLIC E		• Despite the incr their performan	 To find out the 1 budgetary alloca To identify the 1 To make recom

BACKGROUND

Provinces - 8 Districts - 70 Area - Around 500,000 sq km Topography - Hilly, Plains Girls Secondary Schools - 1,200 Sample Size - 200 schools

- The survey to be carried out in 8 provinces and 30 districts in October 2004
- The qualification of survey staff will be college level education. Knowledge and experience in computers will be an added advantage
- Data entry and cleaning clerks will require a background in statistics
- Survey to take a maximum of 75 days
- A pilot will be carried out first
- 5 groups in pairs will initially start the survey in 2 districts
- Each group will be under the supervision of one supervisor
- Training of supervisors and enumerators will be undertaken for a period of 10 days
- Dissemination workshops with all stakeholders will be held after a draft report and before the final report is produced

	Staff Category	Tasks	Education/Experience	Number	Time	Cost - U\$ per day	Total in U\$
1	Coordinator	Overall In-charge of PETS upto dissemination and report production	College graduate/ Experience in PETS	1	75 Days	300	22,500
0	Researchers	Preparation, Organizing, Supervising data entry cleaning clerks, data Management, Analysis and report writing	College graduate with specialties in Education, sociology, computer and surveys	ر	75 Days	125	28,125
ε	Supervisors	Supervising enumerators and undertake pilot survey	Retired teachers and Education officers	5	10 days -training 5 days -pilot 30 days-survey Total = 45 Days	30 - sda 20 - fee Total = 50	11,250
4	Enumerators	Data collection in schools	Graduates with specialties in Education, Sociology and computer	10	10 days -training 30 days- survey	20 - sda 10 - fee Total = 30	12,000
Ś	Data Entry/Cleaning clerks	Data Entry/Cleaning	Clerks with statistical background	8	10 days	30 - sda 10 - fee Total = 40	3,200

STAFFING AND BUDGET

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OTHER COSTS: TRANSPORT

ITEM	Activity	RATES	TOTAL (US)
Field work	Field work 5 4wheel	For 30 days at U\$100 per day	15,000
	drive vehicles		
Drivers	5 drivers	For 30 days at U\$ 20 per day	3,000
Contingency	5 %		6,317
TOTAL COST			132,641





Problems:

1. Low access to school

- 2. Insufficient Learning and teaching materials
- 3. Low public expenditure at school level
 - Capital expenditure at school
 - Recurrent expenditure at school

4. Poor capacity and management at school

Objective:

1, To determine factors affecting low access and completion of primary education in Lao PDR.

- Infrastructure in schools
- Teachers
- Cost of education etc
- Community participation
- 2. Why are there insufficient learning and
 - teaching material in schools in Lao PDR
 - Textbooks distribution
 - Low parent contribution to Learning and teaching materials
 - Low budget allocation at different levels.
 - Low expenditures for materials and textbooks at school.











LAO P.D.R

Country Team Report

Course on PETS

Section 3 & 4

Phnom Penh 21-30-06-04



Objective :

- 1. To monitor and evaluate public expenditure at school level
 - Capital expenditure at school
 - Recurrent expenditure at school
- 2. To improve and increase Learning and teaching materials

Staffing :

- In Lao P.D.R, the Sample to be surveyed and regarding to the country conditions we would select about 280 schools, covers 40 district and 18 provinces,
- In the survey necessitate to visit Central, Province, District and Schools
- The qualification of survey staff to be in conformity with lessons of experience, teachers to be recruited.

	v summarizes these proposals.		
lategory	Tasks	Education Experience	Numbers
lesearchers	Preparing, Organizing,	Experience in conducting social	
	supervising, survey, collecting	education and/or financial	
	data at central and province	surveys. One of them with	
	level, analyzing data, preparing	experience in textbook	
	reports, disseminating results	production and distribution	12
numerators	Data collection in Central,	Concerned Ministries staff,	
	provinces, districts, schools,	Statisticians,	
	warehouses.		48
	Data entry and checking.		

Implementing and monitoring

Implementation and Monitoring Plan			
ACTIVITIES LEVELS	No. institutions visited	Staff involved	Time Required
CENTRAL			
Introductory visits (Ministries, Govt. Press, donors, etc)	12	2 Researchers	2 weeks
Hire/contract 10 researchers		2 Researchers	2 weeks
Train Researchers +		12 Researchers	2 weeks
Collect data Central level	12		2 weeks
Collect data/Field test	4		
Questionnaires PES, DEB, 1 school			
near capital, 1 textbook warehouse			
Revise sampling		2 Researchers	2 weeks
Revise sampling		6 Researchers	2 weeks
Revise questionnaires		4 Researchers	2 weeks
Prepare survey manual			
PROVINCES			
Collect data PES	18	12 Researchers	2 weeks
DISTRICTS			
Hire 36 Enumerators		12 Researchers	2 weeks
Train Enumerators +	36	12 Researchers	
Collect data at schools		36 Enumerators	2 weeks
Collect data DEB, schools ,	36	36 Enumerators	12 weeks
Warehouses			
Monitor data collection		12 Researchers	12 weeks
Data entry, cleaning, compilation		15 Enumerators	4 weeks

Implementing o	and mor	nitoring					
Plan Activities							
Months	October	November	December	January	February	March	April
Weeks	x	x	x	x x x x	XXXX	x	xxxx
Introductory visits	xx						
(Ministries, Govt. Press,							
donors, etc)							
Hire/contract 12	хx						
researchers							
Train Researchers +		хx					
Collect data Central level							
Collect data/Field test							
Questionnaires PES, DEB,							
1 school near capital, 1							
textbook warehouse							
Revise sampling		хх					
Revise questionnaires		хx					
Prepare survey manual		хх					
PROVINCES							
Collect data PES			хх				
DISTRICTS							
Hire 36 Enumerators			хх				
Train Enumerators +			хх				
Collect data at schools							
Collect data DEB, schools,				x	x x x x	x x x x	
Warehouses							
Monitor data collection				x	****	x	
Data entry, cleaning,							x
compilation							



Analysis :

- 1. Base on objective of PETS
- 2. Percent of leakages
- 3. Finance distribution
- 4. Impact of the PETS
- 5. Causes

PUBLIC EXPENDITURE TRACKING SURVEY in EDUCATION: MONGOLIA

Phnom Penh, June 21-30

<text>

BASIC INDICATORS

• **GDP/population -** \$490 [2003]

- % of population in poverty 36% (1998); 25% (2003) 60% of nomads in poverty
- GER Primary 100%
- GER Secondary 92.6%
- Gov. Edu. Spending as Percent of GDP 8.7%
- PEE as % of total GES Spending 19.7%
- TNPS teachers by MOE 20,700 in 593 schools
- TNPS teachers employed by Other Levels of Government
 2302 (school directors, headmasters, social workers at schools and local education board officers)

Phnom Penh, June 21-30



OBJECTIVES of PETS

- To enhance understanding of how education expenditure can be more effective
- To provide sufficient information to improve quality of education
- To enhance monitoring and evaluation system



INSTITUTIONAL FRAMEWORK

- Organization of Government
- Recent general and education decentralization initiatives
- Organization of basic/primary education

Phnom Penh, June 21-30

Community participation

How the education is financed? Please give 5 important expenditure categories? Where do we think the opportunity for leakage?


5 MAIN CATEGORIES of EXPANDITURE

- Salary and Supplementary wages 55.2%
- Electricity and Heating 28.9%
- Other repair costs 7.4%
- Feeding for students in dormitory -4.3%
- Investments such as textbook printing, extension of existing building, supplies – 2.4%

OPPORTUNITIES FOR LEAKAGES

- I. <u>In the ministry level:</u>
 - Open tender (construction, textbook,
 - stationary for poor, equipment, PC etc.)
 - Scholarship (budget for study in abroad)
- II. Local education board:
 - Planning of budget/bias in estimation of demand and needs
 - Academic fraud

Phnom Penh, June 21-30

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What is the composition of Mongolian PETS team? Which questions do we need to develop? How & when should survey work be done?



	TASK	# of STAFF	EXPER./	TIME	BUDGET
			EDUCATION	(by month)	(USD)
Manager	Coordinate and manage whole survey	1	Economist and Researcher	9	600
			Exp. In social sector + managerial skill		5 400
Consultant	Sampling	1_2	Degree in education field	1-2	550
Consultant	-Questionnaire	1 2	and exp. In education	1 2	550
	-Analysis; etc.		and/or economics sector		6,600
Researche	-Sampling	3-4	-Sociologists	6	350-400
r and Data	-Questionnaire		-Educators		
specialist	-Data collection		-Statician/Data manager		
specialise	- Data analysis etc.				9,600
Supervisor s	- Supervise and Monitor the field work	6 (1 for each region)	-Economist, sociologists	1.5	250
			and/or social worker		
			-Local knowledge		3,000
Enumerat	-Participate in the	15 pair	-Experience in survey/data	1 month	200
ors	Collect data and	(1 pair per	Communication skills		2 000
	report	province)	Communication-skink		3,000
Operators	-Data entry	3	-Computer skills	2	200
	- Cleaning		-Typing skills		17
			-Exp in data entry		1,200

BUDGETING:

- Salary 28,800
- Transportation -
- Stationary -
- Copying –
- Translation cost –
- Programming –
- Promotion fee -
- International consultant –
- Others –
- Total USD 70,000

DATA COLLECTION & MONITORING							
LEVEL	# of INS.s to VISIT	# of STAFF	TIMEFRAME				
MOFE & MOE 2		2 (manager + consultant/researcher)	1 week				
Local governor in each level	15 (11 aimags + 4 districts)	6 (consultants + researchers)	3 weeks				
City & Province Edu. Board	15 (11 aimags + 4 districts)	6 (consultants + researchers)	3 week (parallel with above one)				
Soum & District level	44 (11 aimags * 4 soums)	10 (Researchers + supervisors)	6 week				
School	97 (7*11 + 5*4)	20 pair (enumerators)+ /supervisor/	1 month				
Data compilation	-	All	2 weeks				
Phnom Penh, June 21-30							



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Phnom Penh, June 21-30

ANALYSIS OF CAUSES

Analysis of variations between schools by

- characteristics of schools
- number of qualified teachers
- number of size of school
- number of visits/monitoring

Analysis research questions and test hypothesis (during the process of preparation)

Opening Address by Senior Minister Keat Chhon, Minister of Economy and Finance, Royal Government of Cambodia

Excellencies, Ladies and Gentlemen,

l welcome this opportunity to make an opening address to this important seminar on applying the Public Expenditure Tracking System (PETS) technique to analyze the path of public expenditure in the education sector.

As many off you are aware, the Ministry of Economy and Finance is nearing the end of a process which started at the beginning of this year to set a clearr vision for the system of public financial management (PFM) to which the Government could aspire over time and a reform program to realize that vision. The draft reform program proposes strengthening and upgrading PFM through four successive stages, with the each stage aimed at establishing a platform on which to construct the later platforms.

The objective for the first stage is to establish a more credible budget. Only when this objective has been reached will there be a solid enough basis to move on to the second stage which will be aimed at establishing the next platform with its objective of clear accountability for the management of financial and other inputs. Obviously, until the budget is more credible, management cannot be held properly to account for the good management of the financial and other resources which the budget promises but often has not delivered, at least in full.

Again, once this second platform is solidly entrenched, the PFM reform program can then proceed to construct the third platform whose objective is to forge the strongest linkages between the formulation of the government's policy agenda and the budget to ensure a fully-affordable policy agenda within a general expenditure program framework template which has yet to be designed. The last stage of the reform program is aimed at establishing effective program performance accountability.

The draft PFM reform program is designed to incorporate both past PFM improvements which are now in operation as well as currently ongoing reform work. Much of the progress to-date has been on a pilot basis and the Ministry of Education, Youth and Sport (MOEYS) has been the focus of much of this piloting. Over the past few years, MOEYS and my Ministry have developed a very productive and constructive relationship for implementing broader financial reforms within the education sector. The logic of the new consolidated PFM reform program's platform structure brings a new framework to this collaboration because it focuses attention on the need for prioritizing and sequencing in the deployment of scarce skilled local capacity and costly foreign expert technical assistance. Starting now, we need to concentrate these scarce and expensive PFM reform resources on achievement of our most basic platform objective of achieving a more credible budget. Nonetheless, we must also ensure that the reform momentum already established in MOEYS is not diminished or lost. We must face the challenges together and work out ways of working together for the benefit of Cambodia's students. I look forward to the jointly beneficial contribution which the PETS surveys and findings should make to this.

As highlighted in the 2003 Integrated Fiduciary Assessment and Public Expenditure Review (IFAPER), the initial results of the education reform program have been very encouraging. The MOEYS focus on policy priorities and results has enabled the Government to have growing confidence in increasing government resources for education. Over the past 4 years, education recurrent budget share has increased from around 14% in 20000 to over 19% in 2003/04, a three-fold increase in education recurrent budget volume. Similarly, operational budget support, through the Priority Action Program (PAP) mechanism has also grown dramatically to over Riels 70 billion last year, compared to only Riels 10 billion in 2001.

I would like to congratulate MOEYS on the initial impact of its reforms, in particular in providing growing education opportunities for the children of poor families. The reduction in informal cost barriers has meant an additional 0.6 million children, mainly from the poorest communities, are now in school. I am particularly mindful that the reduction in students repeating grades, not only increases student retention but generates cost savings for government and parents. I would therefore anticipate that one of the outcomes of the PETS survey should be to ensure that these reform strategies can have even more impact on access, quality and efficiency in education.

The newly reformulated draft PFM reform program will provide increasingly for public expenditure to take on a results orientation through development of more results-based management of sector financing. All sector budgets, including the education budget, will come increasingly to be used as instruments of policy development and enrichment and not simply to maintain the existing system. The PAP mechanism has provided a very useful a start in enabling an emphasis on accountability for sector program outputs and impact rather than only on accounting for expenditure outlays.

Through the course of the reform program, other elements of the budget, including civil service salary budgets (Chapter 10) and operational resource budgets (Chapter 11), will assume an increasing results focus. Once again, the education ministry has made a good start through the introduction of more performance-oriented staff allowances for priority staff, including school directors and teachers in remote and difficult schools. The PETS survey and other analysis by the MOEYS must be used to ensure that, over time, these lessons can be applied to the salary budget system as a whole.

The draft reform program envisages an eventual PFM system with all the desirable features of such pilot initiatives as the PAP. The detailed arrangements may change over time but the basic principle of priorities being reflected in budget allocations must remain in place. In particular, with the changes will come even greater decentralization of spending decisions to provinces, districts, communities and individual institutions. I trust that the PETS survey will yield a rich insight into how we may improve decentralized management processes and help identify key capacity gap in the system.

Once again, I would like to congratulate MOEYS for being, in many ways, a lead ministry in implementing more decentralized approaches to financial management and governance reforms. The establishment of around 200 decentralized Budget Management Centers and operational budgets for over 6,000 schools has meant that a large number of education staff now have greater authority over spending decisions. At the same time, the same people have more responsibility in ensuring that money is well spent and accounted for properly.

The increased delegation of responsibility to districts and schools has initiated a dynamic process of institutional reform and capacity building. More and more, education officials and staff are learning new responsibilities by the experience of doing and trying. This establishes a model for a rolling program of the best kind of capacity building which does not have to rely on the adoption of external prescriptions of what is best for Cambodia.

We are all aware of many of the current difficulties, especially ensuring that expenditure plans are realistic and that budget execution systems are strengthened. The reformulated draft PFM reform program is being deliberately designed to accelerate the rate at which things are improving. We have already begun to actively involve key line ministries in the broader PFM reforms decisions and this level of involvement will steadily increase. Clearly, the education ministry can bring very important perspectives and experiences to the PFM planning process and its phasing and sequencing. Similarly, the experiences of donors in providing a mix of sector budget support and investment projects will be incorporated into PFM reform planning.

This perspective has important implications for how we will take the broader PFM reforms forward. The program design allows for key ministries to continue to pioneer the way ahead and not to have to wait until every last ministry has caught up. For example, the introduction of policy-led education sector budget support from ADB and EC, negotiated with support form our two ministries, has shown that very positive results are possible without a perfect system. I would urge that the PETS analysis contributes to targeting important capacity gaps and system shortcomings here and now, rather than simply addressing an ideal system for the future. Because PFM reform is fundamental to the achievement of the Government's most important development strategies and policies, we must be ready to move ahead on the specifics as soon as possible.

The Government and my Ministry accord high value to the PETS initiative. First we expect it to identify immediate areas for making operational adjustments to existing financial management systems. Secondly, in the medium term, we will look to PETS to provide valuable insights into how we might best improve financial governance, especially measures to strengthen transparency and accountability of Government spending. In other words we want PETS to contribute to a phased and sequenced plan for institutional reform, especially for public accounting and internal audit. Once again, I am pleased that the education ministry has taken the initiative to establish its own internal audit procedures. PETS can help in suggesting ways of expanding internal audit procedures and how best to build further capacity.

Finally, I would like to emphasize that the PETS initiative must be viewed as a key step in the advancement of the Government's overall development partnership strategy. The implementation of the PETS initiative, including this initial workshop, must ensure our ownership and a shared commitment to any proposed PFM reforms. The PETS initiative can undoubtedly contribute to improving the success of broader Government and specific education reforms. At the same time, we must all be prepared to share potential risks and use initiatives such as PETS to judge these risks and help mitigate them.

Thank you.

Welcoming Remarks by H.E. Im Sethy, Secretary of State Ministry of Education, Youth and Sport, Royal Government of Cambodia

Excellency Keat Chhon, Senior Minister and Minister of Economy and Finance, Royal Government of Cambodia Mr. Etienne Clement, Resident Representative of UNESCO Office, Phnom Penh Mr. Robert Talercio, Acting Director of World Bank, Cambodia Distinguished Participants, Excellencies, Ladies and Gentlemen,

It gives me great pleasure to make some welcoming remarks at this important course on Public Expenditure Tracking Surveys (PETS) in education being conducted here in Phnom Penh. First of all, on behalf of the Ministry of Education, Youth and Sport (MoEYS), Kingdom of Cambodia and on my own behalf, I would like to particularly thank His Excellency Keat Chhon, Senior Minister for agreeing to preside over the Opening Ceremony and make the keynote address.

I would like to extend a most cordial welcome to all the distinguished participants attending the course here today. I would also like to thank the various donor agencies and advisors contributing to the seminar over the next 10 days. May I wish you all a pleasant stay in Cambodia.

As some of you will know, the MoEYS is undertaking an ambitious process of education reform, focused on achieving Education for All as quickly as possible. Our key policy goal is to provide nine years of high quality basic education for all Cambodia's children by 2010. In order to do so, the Ministry recognizes the importance of establishing a wide-range of partnerships with other Government ministries and stakeholders and Cambodian civil society.

The Ministry's education reform process is guided by a comprehensive set of performance indicators and targets, including institutional, efficiency and financial targets. Clearly, in order to justify increased public expenditure on education, it is necessary for the MoEYS and MoEF to reach consensus on sector priorities and targets. Over the past few years, policy consultations between our two ministries have grown significantly and I have seen a growing common understanding on the purpose and value *of* the reforms. This is in contrast to the past when much of the discussions focus on narrower education activities and resources, with little dialogue on policy impact.

A number of important processes have been established to assist this increased focus on policy and strategy. Firstly, the introduction of the Medium Term Expenditure Framework (MTEF) has helped to provide a longer term perspective on allocating education resources. MoEYS has actively used this process in formulating its own medium term education expenditure plan and annual budget allocations. The introduction of the Priority Action Programs has also helped to better link education priorities with budget allocations. A number of inter-ministerial taskforces and committees have provided a forum for much more policy-oriented discussions on how best to use education resources.

Excellencies, Ladies and Gentlemen,

I am very pleased to state that many of these financial reforms are comparatively new in Cambodia. The PETS course being held here is an opportunity enabling the MoEYS itself to conduct the review and set up education development plans in accordance with the reform policy of the Royal Government of Cambodia. I anticipate that the PETS seminar will help Government staff, including the MoEYS participants on how expenditure tracking can provide important lessons on making sure education spending is effective. I hope that some of the international experiences discussed at the seminar will help to provide new ideas on optimizing impact. In particular, I hope to hear how best to ensure that education resources directly benefit students from the poorest families. In this context, I realize that a key feature of PETS relates to assessing the effectiveness of the flow of funds to schools and institutions and the management of these funds at various levels. As I said earlier, many of these financial reforms are still in the early stages of implementation. I cannot deny that there have been some difficulties and potential risks for the reform program. We have learned that the best way of solving these problems has been to share them with the Ministry of Economy and Finance and our development partners. A clear lesson we have all learned is that sharing the significant success of our reform program does require a willingness to share potential risks. I anticipate that the PETS surveys will help us to identify some of these risks as early as possible and put in place measures to solve them.

In conclusion, I would like to, once again, express my profound gratitude to H.E. Keat Chhon, Senior Minister and Minister of Economy and Finance for his gracious consent to officiate the opening of the PETS course.

To all participants, I would like to express my thanks and appreciation for their kind attendance and hope they will find their stay, here, in Cambodia both fruitful and enjoyable.

Thank you.

Welcoming Remarks by Mr. Etienne Clement, Representative of UNESCO in Cambodia

H.E. Mr. Keat Chhon, Senior Minister and Minister of Economy and Finance, H.E. Mr. Im Sethy, Secretary of State, Ministry of Education, Youth and Sport, Excellencies, Participants, Ladies and Gentlemen:

I am very pleased to speak today on behalf of UNESCO on the occasion of the opening of the International Training Course on *Public Expenditure Tracking Surveys in Education*, organized by the UNESCO International Institute of Educational Planning (IIEP) and the World Bank Institute.

Achieving universal primary education, with all boys and girls completing a full course of quality basic education is essential for development. It is a Millennium Development Goal (MDG's) and we all know that the MDG's are the core of the development strategy in Cambodia. The organizer of this PETS course today are strongly committed to work together with Cambodia to achieve these goals.

Greater efficiency and accountability in the use of educational resources will substantially help to progress in the achievement of this MDG goal. In the framework of its major education plan (ESP), the Ministry of Education, Youth and Sports has given a particular attention to the monitoring of the decentralization of financial resource to schools and communities. The ministry has associated the donors in its efforts, through monthly meeting with the ESWG (Education Sector Working Group) and informed the donors regularly on its coordination with the Ministry of Economy and Finance.

Correct use of the resource with reduction of resource leakages and administrative inefficiencies constitutes a cornerstone in the education reform. *Public Expenditure Tracking Surveys (PETS)* are one of the tools to fulfill these objectives. Indeed, efficiency in spending, prioritization of resources allocations and accountability are key principles that will lead Cambodia's effort to reach high quality education, greater enrolment and completion. Positive impacts will follow, not only in education but also in other sectors in the country.

Let me finally congratulate H.E.Mr. Senior Minister Keat Chhon, Minister of Economy and Finance, H.E.Mr. Im Sethy, Secretary of State of the Ministry of Education, Youth and Sport, for this initiative and for associating UNESCO-IIEP and the World Bank Institute. I wish you success in this endeavor.

Thank you very much for your attention.

Welcoming Remarks by Mr. Robert Talercio, Economist, The Word Bank, Cambodia Country Office

Excellencies, Ladies and Gentlemen:

On behalf of Ms. Nisha Agrawal, Country Manager, Cambodia, for the WB, I would like to welcome you all to this international course on PETS. The WB, though its WBI, together with the International Institute for Education Planning, has organized this useful and timely course for a number of countries in the region and we are very happy to see that so many countries are participating.

Cambodia, together with its development partners, is in the forefront of public expenditure tracking in the region and has recently fielded a survey team to undertake the first PETS in Cambodia, focusing on the education sector. The Royal Government has assembled a multi-ministerial counterpart team, under the direction of Dr. Hang Chhuon Naron, DSG, MEF, to manage the work, together with an advisory team from the ADB, JICA, WHO, the WB, and CDRI, a local research firm that is implementing the PETS.

I thought it might be useful to say a few words about how the PETS work fits in with the bigger picture of reducing poverty. The WB's program of analytical and advisory activities in Cambodia is currently focusing on two central themes: (a) improving service delivery and (b) reducing the fiduciary risk to public funds. The *service delivery* theme is concerned with poverty reduction through higher quality and quantity service delivery, and focuses on pro-poor expenditure policy and better public expenditure management, including human resource management. The *fiduciary risk* theme centers on safeguarding public funds for their intended use. The Public Expenditure Tracking and Service Delivery Survey (PETS) squarely addresses both themes.

The conceptual framework for this work program is the "breaks in the chain" approach to service delivery analysis. Devarajan and Reinikka (2002) identify at least four breaks in the chain between budgets and desired service delivery: (a) spending on the wrong goods or people; (b) failure of funds to reach frontline service providers; (c) weak provider incentives for service provision; and (d) demand-side failures that prevent households from taking advantage of service provision.

These analytical and advisory services, taken together, will provide a well-rounded pictures of constraints to improving service delivery quality and quantity in Cambodia. The 2003 *Integrated Fiduciary Assessment and Public Expenditure Review* (IFAPER) analyzed whether spending was generating the "right" goods to reach the "right" people by assessing public expenditure policy across government and within priority sectors-health, education, agriculture, and transport-and examining the extent to which the poor benefit from budgeted expenditure. The IFAPER also examined the civil service from the perspective of incentives for service delivery and effective management of human resources. Demand-side constraints have been analyzed in the education sector, which led to the development of a national scholarship program for the poor, and a more comprehensive survey is being conducted in the context of the preparation of the next phase of World Bank support to basic education. What is lacking is a systematic analysis of the second break in the chain-the flow of funds to frontline service providers – and a systematic strategy for addressing the fourth break in the chain-demand side failures, particularly those related to information access. The PETS is necessary to fill in the missing pieces of the service delivery story, and at the same time is important for addressing fiduciary risk.

The appeal of the PETS approach is strengthened by the possibility of fostering greater transparency – and thus accountability – in public service delivery. The PETS will generate information of great interest to the intended beneficiaries of government policy. Strengthening citizens' ability to engage on service delivery issues would increase demand for more effective and efficient service delivery. The PETS is well placed to serve as a vehicle for the Government to engage citizens and civil society groups by bringing them into the service delivery process so that they may become effective voices for ensuring accountability in the use of public funds. This would mean that the PETS should include beneficiaries at key stages in the process and be widely disseminated and discussed at the local and national levels.

The IFAPER shows that, in recent years, the RGC has made progress in public expenditure policy-namely, increasing funds allocated to priority sectors such as education and health, and, in a number of instances, in boosting the efficiency, effectiveness, and poverty focus of these expenditures. Moreover, as the IFAPER indicates, it is important to note that the PETS is being undertaken in the context of progress toward reform in public financial management. The RGC has placed public financial management (PFM) reform squarely on its development and poverty reduction agendas and MEF is now finalizing a consolidated, sequenced, and costed PFM reform program, which will enable it to move forward systematically and in a way that allows for full coordination among its development partners.

In closing, I would like to reiterate that the WB, as well as many other development partners, regard expenditure tracking surveys as useful and flexible tools for diagnosing PEM systems. Moreover, embedding these surveys in the context of system-wide reform initiatives is important for ensuring a sensible and coherent approach that informs the overall reform program. Our best wishes to all the participants for a highly useful and productive course.

Thank you.

MEMBERS OF THE COURSE FACULTY

Jacques Hallak is former director of IIEP, former ADG of UNESCO, and author of numerous articles and books dealing with different aspects of educational planning, economics of education, education management and international cooperation. For the past three years he has been actively involved in the IIEP program in "Ethics and Corruption in Education".

Ivo Njosa is Data Management Specialist in the World Bank's Development Economics Group [DECRG]. Prior to, joining the Bank in 2002, he worked as as data management specialist with Macro International of Calverton, Maryland and Africa Region data manager for the World Bank. He holds a Masters Degree in Information Systems.

Abel Ojoo is an economist and statistician by training. He is managing director of Management Systems and Economic Consultants, Ltd., and Technical Advisor on decentralization to the Uganda Ministry of Education. He participated in the first PETS undertaken in Uganda in 1996, and he is currently involved in the QSDS and Community Report Card Survey in Uganda.

Muriel Poisson is program specialist at the IIEP and is responsible for research and training activities relating to Education for All. At the same time, she is the task manager of the IIEP program in "Ethics and Corruption in Education". She has co-authored a number of documents published by IIEP on "education for disadvantaged groups".

Ritva Reinikka is research manager in the Development Research Group of the World Bank and co-director of the 2004 World Development Report: Making Services Work for Poor People. She pioneered the first PETS in Uganda in currently works on applied research on public services, including education and health. She is author of Public Expenditure Tracking Surveys in Education [IIEP, 2004].

Mioko Saito is a Programme Specialist at the IIEP. She holds a PhD in Educational Psychology from the University of Oklahoma in the USA. She has lectured in university courses associated with instructional design and development, media and technology in teaching, and visual literacy. At the IIEP she is currently involved in training and research programmes concerned with the design and implementation of large-scale educational policy research studies as well as the design of management information systems for educational planning. She is a co-author of several IIEP reports on the quality of education in countries in Southern and Eastern Africa, which have formed the basis for her current study of gender differences in literacy and numeracy levels at the upper end of primary schooling.

Donald Winkler is Senior Research Economist with RTI, International, and consultant to the World Bank Institute. He works on issues of education finance and management and has written widely on education decentralization. He has recently provided technical assistance on education decentralization in Armenia, Bulgaria, Indonesia, Pakistan, Peru, and Serbia. Prior to joining RTI in 2002, he managed the World Bank's Latin America Education Group and was Professor of Public Policy at the University of Southern California. He holds a Ph.D. in economics from the University of California, Berkeley.

Participants in the International course on "PETS in education", 21-30 June 2004, Phnom Penh

1	Ms.	Pan	Somethea	Cambodia	Ministry of Economy and Finance
2	Mr.	Sreang	Limsroy	Cambodia	Ministry of Economy and Finance
3	Mr.	Ker	Chantheaborirak	Cambodia	Ministry of Economy and Finance
4	Mr.	Hav	Ratanak	Cambodia	Ministry of Economy And Finance
5	Mr.	Chhun	Chanthou	Cambodia	Ministry of Education, Youth and Sports
6	Mrs.	Kuy	Phala	Cambodia	Ministry of Education, Youth and Sports
7	Mrs.	Soeur	Socheata	Cambodia	Ministry of Education, Youth and Sports
8	Mr.	Somaly	Tek	Cambodia	Ministry of Education, Youth and Sports
9	Mr.	Yoeun	Thach	Cambodia	Ministry of Education, Youth and Sports
10	Mr.	Neang	Phouty	Cambodia	Ministry of Education, Youth and Sports
11	Mr.	Sok	Roath	Cambodia	Ministry of Education, Youth and Sports
12	Mr.	Sok	Tha	Cambodia	Ministry of Education, Youth and Sports
13	Mr.	Yinsieng	Someth	Cambodia	Ministry of Education, Youth and Sports
14	Mrs.	Khan	Kunthea Kalyan	Cambodia	Ministry of Health
15	Dr.	Youk	Sambath	Cambodia	Ministry of Health
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17	Dr.	Te	Kuyseang	Cambodia	Ministry of Health PETS Working Group
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