



*Formative Research Project*  
**Longitudinal Study on System Indicators: A Cohort Study**



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### Background

- This study was conducted by Research Centre for Educational Innovation and Development (CERID), Tribhuvan University for the Ministry of Education, Nepal in Technical and Financial support from Ministry of Education and Research, Norway
- The study focused on Trend Analysis from 2002 to 2008 and Cohort Analysis of the students enrolled in Grade I in the years 2002, 2003 and 2004.
- The study on cohort analysis in education, especially individual student tracking by giving a unique ten digit student ID, is first of its kind in Nepal.
- This study reveals only “WHAT” is happening so that further research questions will be generated to find out “WHY” it is happening or not happening.

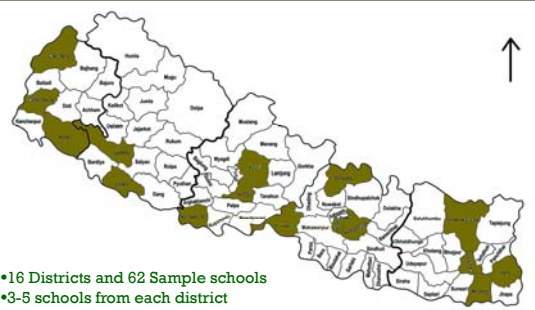
### Objectives

- Analyse the flow of students through primary grades
- Identify factors associated with student flow
- Draw implications for improving student progression through primary cycle

### Indicators

- 43 System Indicators were selected for the study
- CERID, FRP coordinator and researchers reviewed the indicators set by different reports. The reports included *Key Performance Indicator (PIP Policy Framework)*, *Fourteen Benchmarks (Aide M emoire)*, *ASIP Indicators* (includes 18 EFA indicators), *Monitoring Indicators for PMR (Project Management Report)* and *Log Frame: Detailed Policy Framework Indicators*.

### Sample



•16 Districts and 62 Sample schools  
 •3-5 schools from each district

### Tools

- School Information form
- Student Information form
- Teacher Information form
- School Finance and Other Information form
- VDC/Municipality level Information form

### Data Collection and Management

- District Level data collection workshop
  - DEO, EMIS officer
  - HT and Teacher
  - District Education Officer
  - HT and Teacher of sample schools
  - SMC Chair person
  - Representative from PTA
  - Representative from VDC/Municipality
- Cluster Level data collection workshop
  - Regional Education Officer and above mentioned participants
- Data base program software in MS Access

### Pictures from field



### Analysis and Report

- Trend Report – Trend Analysis of basic indicators since 2002
- Cohort Report – Cohort Analysis of students enrolled in Grade 1 since the year 2002

### Cohort Flow 2002

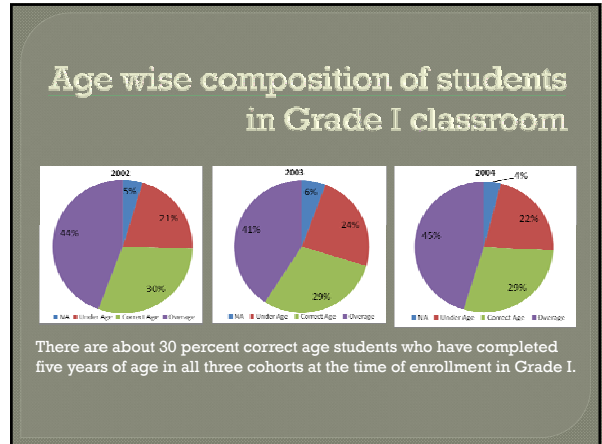
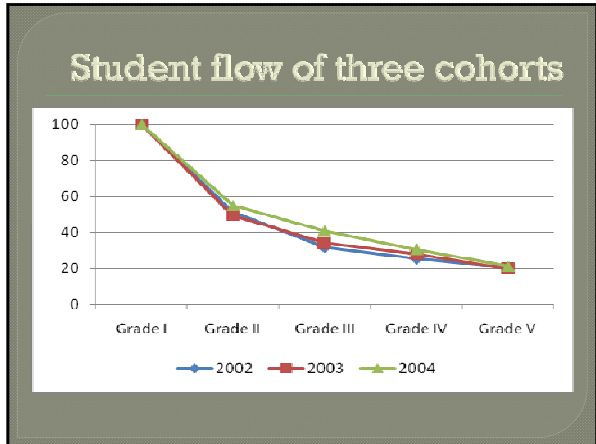
Year	Grade I	Grade II	Grade III	Grade IV	Grade V
2002	2589 (100)				
2003		1330 (51.4)			
2004			819 (31.6)		
2005				657 (25.4)	
2006					529 (20.4)

### Cohort Flow 2003

Year	Grade I	Grade II	Grade III	Grade IV	Grade V
2003	2257 (100)				
2004		1118 (49.5)			
2005			765 (33.9)		
2006				630 (27.9)	
2007					447 (19.8)

### Cohort Flow 2004

Year	Grade I	Grade II	Grade III	Grade IV	Grade V
2004	2698 (100)				
2005		1486 (55.1)			
2006			1097 (40.7)		
2007				821 (30.4)	
2008					574 (21.3)



### Implications

- Appropriate strategies to improve correct age participation include rapid expansion of community/school based ECD programs and strict adherence to providing financial grants and other incentives as per actual count of correct age children in primary grades
- Teachers, SMC members and parents in each school should collaborate to identify casual factors and remedial measures for regularity and continuity of the students in primary schools

### Inputs to Sample Schools

- Training/Orientation to sample schools on data management, importance, ownership and utilization of school data
- An amount of NRs. 15,000/- for each sample school each year since 2002 to purchase cupboard, files and other stationary materials to strengthen the data keeping system
- A computer set with printer, UPS, table and chair
- Training/Orientation computer operation in general and also use database software for data entry and analysis



### Achievements so far

- Schools have at least 2 trained teachers in basic computer and data entry software for data keeping and data management
- Each school have database of their own students and improved data management system with other necessary physical facilities
- CERID has a data base of more than 1 lakh continuous cohort students records of more than 31 thousand students, schools and teachers record of each year since 2002
- Uni-variate and Bivariate analysis has been done and reported so far

## Future targets

- Schools have computerized record keeping system
- Schools will be able to analyze the data at local level and use them in planning
- Quality of data will be ensured from the data source itself
- Schools will be capable to send their updated data to CERID using Internet/Email
- Capacity of the HT, teachers will be improved in ICT
- A multivariate analysis will be done at CERID in collaboration with other institutions

Kusum Shrestha, 12 was born on 17th Magh 2055 BS, is one of the students of Shree Navin Pragati Primary School, Kuldhara, Ilam Municipality Ward No. 2. Kusum who enrolled in Grade 1 in the school, was studying in Grade 7 in 2009. Her unique ID is 5903081007. These three pictures of Kusum were taken at various points of time in 2002, 2006 and 2009.



Thank You