CURRENT SITUATION STATISTICS AND EDUCATION MANAGEMENT INFORMATION SYSTEM

Department of Information, Monitoring and Evaluation

September 11, 2012
Statistics Law of Mongolia

- Quantitative data about the educational sector collected by using the united program, procedures and tools;

Types of statistical information

OFFICIAL

Data (on education levels of population, schools, numbers of teachers and learners) included in statistical action plan collected by using methodology and indicators approved by National Statistical Office

ADMINISTRATIVE

Data for the ministry/activities collected by applying methodology and indicators agreed and approved by National Statistical Office
### Education Sector Statistical Information (form)

<table>
<thead>
<tr>
<th>Subsectors</th>
<th>Total</th>
<th>Out of this</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Official</td>
</tr>
<tr>
<td>Preschool education</td>
<td>13</td>
<td>8</td>
</tr>
<tr>
<td>Primary and secondary education</td>
<td>35</td>
<td>13</td>
</tr>
<tr>
<td>Vocational education</td>
<td>14</td>
<td>5</td>
</tr>
<tr>
<td>Higher education</td>
<td>16</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>78</td>
<td>32</td>
</tr>
</tbody>
</table>

### Data Collection Time (БДБ? Primary and Secondary Education)

- 15 October: 26
- 25 November: 2
- 10 February: 1
- 10 March: 2
- 25 June: 4
Data types and coverage

- Institution, building and construction (in the form of capital)
- Admission and graduation (by learner school type, age, gender and administrative jurisdiction)
- Human resource (teachers, authorities and non-teaching staff)

Indicators:
- Access
- Quality
- Efficiency
- Equity

- Learning achievements
- Learning environment and tools
- Flow rates
- Government revenues and expenditures
## Efficiency indicators in education

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Enrollment rates /by gross, net enrollment rates, education level and age specific enrollment rate/</td>
</tr>
<tr>
<td>2</td>
<td>Admission rate</td>
</tr>
<tr>
<td>3</td>
<td>Transition rate /primary and secondary/</td>
</tr>
<tr>
<td>4</td>
<td>Graduation rates of primary and basic education</td>
</tr>
<tr>
<td>5</td>
<td>Boy/ girl ratio (gender ratio) of primary, basic as well as secondary education</td>
</tr>
<tr>
<td>6</td>
<td>Class size</td>
</tr>
<tr>
<td>7</td>
<td>Pupil/ teacher ratio</td>
</tr>
<tr>
<td>8</td>
<td>Promotion, repetition and drop out rates</td>
</tr>
<tr>
<td>9</td>
<td>Provision of professional teachers with relevant education</td>
</tr>
<tr>
<td>10</td>
<td>Percentage of educational expenditure in the state budget</td>
</tr>
</tbody>
</table>
Information flow

Current data collection procedure

Statistical data:
- not fully automated
- in the form of MS Excel tables/ sheets
- to transfer them by email, on CD or flash
- technically complicated and time-consuming
- lack of monitoring for data reliability and quality
Education Management Information System

Needs and necessities

- To automate data collection, compilation, processing of the education sector statistical data by using advances in information technology
- Need for the database including main educational indicators entirely

Main issues to be solved:

- To develop and experiment programming to collect, summarize as well as analyze education statistical data electronically, reliably, systematically and controllably

What is Open EMIS?

- The tool to store and manage educational information in the computing systems

Why “OPEN”?

- In a sense, it is open to be used in education systems in many countries

Implementing institutions

- Ministry of Education, Culture and Science of Mongolia
- United Nations Educational, Scientific and Cultural Organization (UNESCO)
- United Nations Children’s Fund (UNICEF) Mongolia Representative
Experimental activities

To translate programming/to modify it specifically for the features in own country

To prepare human resource

To experiment/online and offline/

Data collection, analysis and reporting

January 2011

April – June

July – October

Work done in the framework of the experiment:

- To translate programming and prepare the handout
- To prepare human resource (teacher trainers, 270 teachers prepared in five training courses of a data operator)
- To experiment programming in educational institutions (in Bulgan province, Ulaanbaatar, Songinokhairkhan district, 57 kindergartens, 41 schools)
- To collect data (at school level)
- To analyze and report data
Experiment results/ Open EMIS

- To form the basis for database
- To register every teacher and learner (ID)
- To provide data reliability (accurate data from Bulgan province in 2011-2012 school year)
- Data quality, reliability and monitoring (student ID overlapping)
- To make analysis possible
THANK YOU
FOR YOUR ATTENTION!