



THE WORLD BANK



Evaluating Impact: Turning Promises into Evidence

Raising the quality of primary education in ICT-based learning environment

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1. Background

Duration: four school years (2010/2011 – 2013/2014)

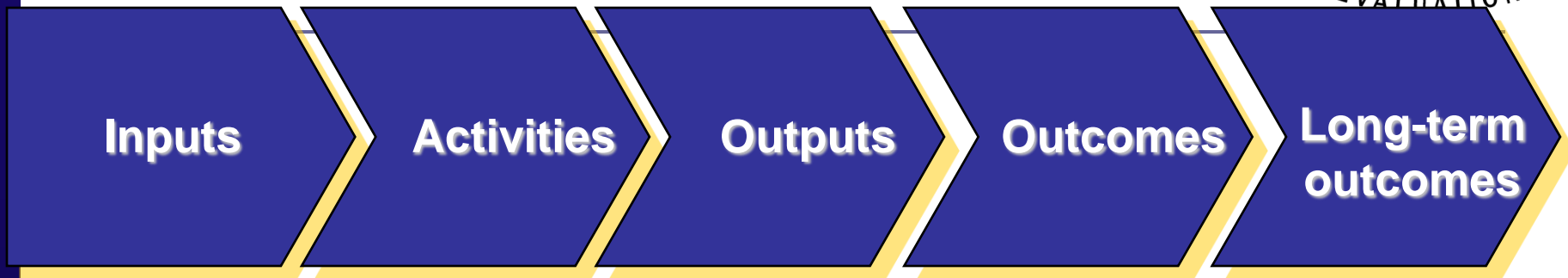
Objective: To change the education environment in primary schools through the use of ICT tools and infrastructure, including the Internet, and advanced training of primary school teachers.

Main tasks:

- ❑ To improve ICT logistics and infrastructure in schools;
- ❑ To test, select and introduce 2-3 sets of teaching/learning educational materials for ICT-based learning in primary schools;
- ❑ To customize training programs for teachers using the educational materials, train and provide methodological support to the teachers;
- ❑ ...

Donors and supporters: municipal and regional education authorities and private foundations

2. Results Chain



- Funds ~80 million USD
- Hardware: netbooks (one per student) for 1200 schools
- ICT-based teaching/learning methodology
- New national primary school education standards

- Delivery of equipment: netbooks, wifi networks, classroom equipment
- Adjusting and improving educational methodology and set of materials
- Teacher training and methodology support
- Strengthening the regulatory base for ICT-rich education environment

- 1200 schools fully equipped
- ICT-based teaching/learning methodology fully implemented at schools and used in classes
- Adequate number of trained teachers per each participating school
- 3 regional resource centers + 60 local support centers
- Regulatory framework on three levels for project dissemination

- High level education achievements
- Better parents' satisfaction
- Increasing proficiency of educators

- Increased accessibility to contemporary high quality education
- New generation capable for efficient self-learning and knowledge creation
- Training competitive future workforce
- Support to implementation of national educational standards

3. Primary Research Questions

- **What is the impact of the new e-learning methodologies at primary schools on:**
 - students' educational achievements
 - professional level of educators
 - satisfaction of parents



4. Outcome Indicators

- **Educational achievements in various primary school disciplines:**
 - Reading/writing skills
 - Math skills
 - ICT skills
 - Communication skills
 - Collaboration skills
- **ICT proficiency of educators**
- **Parents' satisfaction**
 - Children's health and learning
 - Children's development and motivation

5. Identification Strategy/Method

□ **Identification strategy:**

Randomisation for each region by types of schools (urban, rural, small-size, specialised, etc.)

□ **Treatment/control**

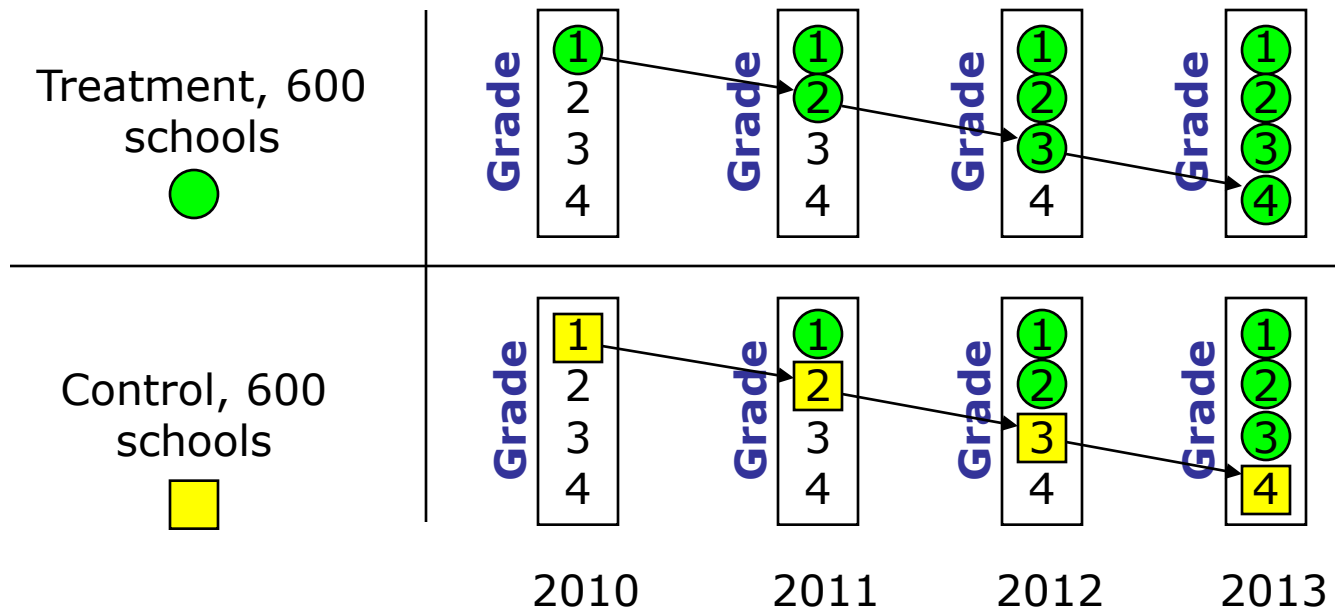
The project covers 3 federal entities: grades 1-4 in 1200 public schools will take part in e-learning program.

Grade 1 in treatment schools will receive the new methodology during the first year of the project. The control group will receive the new methodology in the next school year.

Impact of the program is measured as a difference in outcomes between control and treatment groups.

5. Identification Strategy/Method

The sample frame: 1200 schools, 3 regions



6. Sample and data

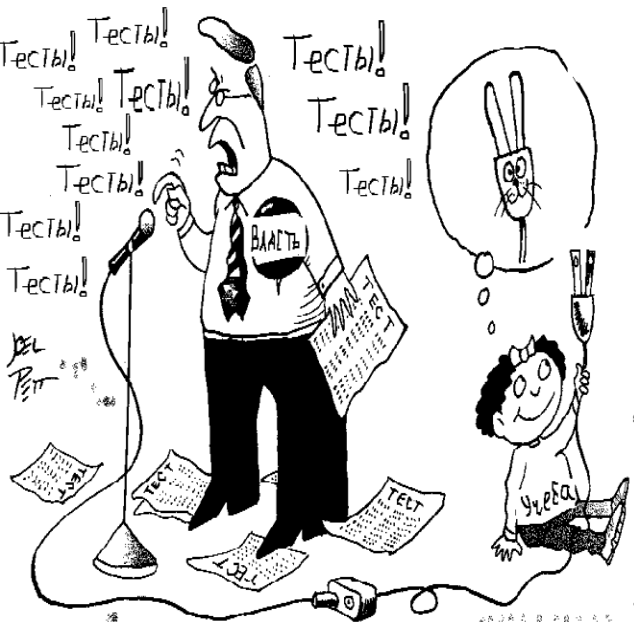
The sample frame: 1200 schools, 3 regions

Data sources:

- School statistics reports
- Results by the instrumental package

Instrumental package

- Tests for evaluating students' achievements according to national standards (reading/writing skills, Math skills, ICT skills, ..., communication skills, collaboration skills, ...)
- Tests for evaluating ICT competence educators
- Questionnaires to determine parents' satisfaction

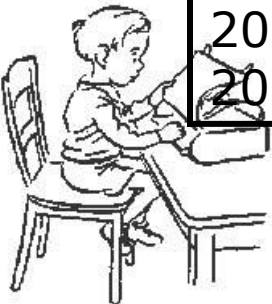


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7. Time Frame/Work Plan

- ▣
The project is scheduled for 2010/2011 – 2013/2014 school years

2010/2011	Grade 1 in treatment schools start receiving the new methodology
End of school year 2010/2011	Testing students' achievements, teachers skills and parents' satisfaction – data collection and analysis - Impact evaluation
2011/2012	Grade 1 in control schools start receiving the new methodology in the next school year.
End of school years 2011/2012, 2012/2013, 2013/2014	Testing students' achievements, teachers skills and parents' satisfaction – data collection and analysis - Impact evaluation



8. Sources of Financing

- ❑ Federal education authorities (evaluation)
- ❑ Municipal education authorities (everyday education activities)
- ❑ Regional education authorities (teacher training and evaluation)
- ❑ Private foundations (equipment, software, methodology development, other project costs)



Thank you!

