



**“To repair the world means to repair education”**

**Janusz Korczak**

# What do parents think about the use of computer & internet at home and in school?

Results of a survey conducted in January 2009 on a representative sample of 1,002 parents of children aged 6-18.

The survey was conducted by the Research Center for Internet Psychology (CIP), Sammy Ofer School of Communications, Interdisciplinary Center, Herzliya and the Center for Educational Technology (CET).

Data collection was conducted by The New Wave research group.

# Survey Results

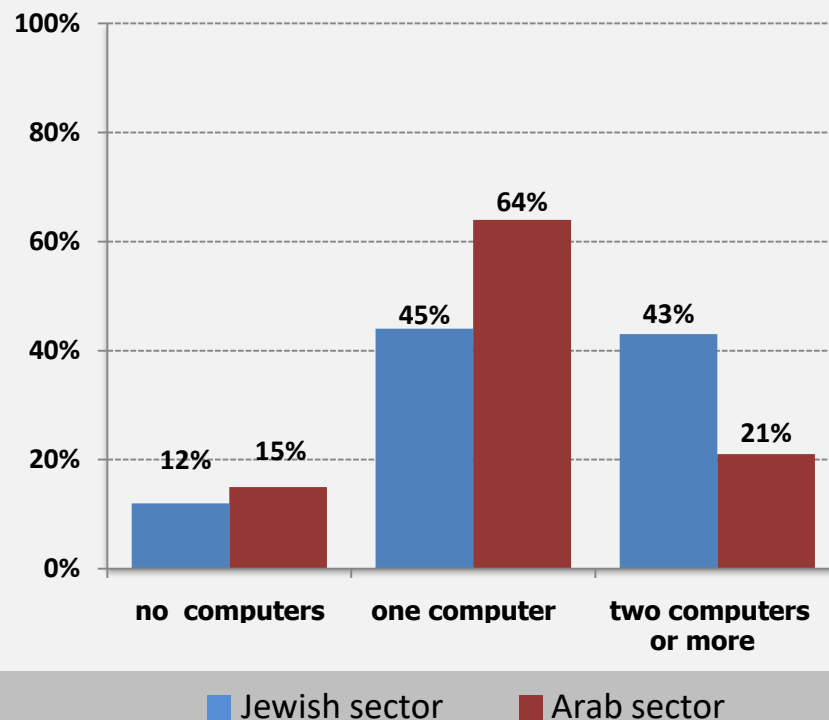
המרכז לחקר הפסיכולוגיה  
של האינטרנט (CIP)

בית ספר סמי עופר  
לתקשורת

הבינתחומי  
הרצליה

מטח  
CET • THE CENTER FOR  
EDUCATIONAL TECHNOLOGY

**In the State of Israel,  
the vast majority  
(about 90%) of families  
have computers at home:  
this is true both for the  
central and peripheral  
locations and in both  
Jewish and Arab sectors.  
Most home computers are  
connected to the Internet.**



# Survey Results

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**51%**

of parents believe that schools are failing to prepare their children for the 21st century.

**46%**

of parents believe that their home is more advanced than the school in terms of computer and Internet use.

**43%**

of parents feel that too few lessons are taught using computers at their children's school.

**Both parents and students are already there –  
it's time to lead the Israeli education system  
to the 21st century.**

## Herzliya Conference 2009

# National ICT Program for the Education System in Israel 2009-2014

Submitted to the next Prime Minister of Israel  
by the Center for Educational Technology



# Challenges of the Education System in Israel

The challenge faced by the State of Israel is to successfully compete with the leading countries in the global economy. To do so it must promote the achievements of its students within the next decade.



# Challenges of the Education System in Israel

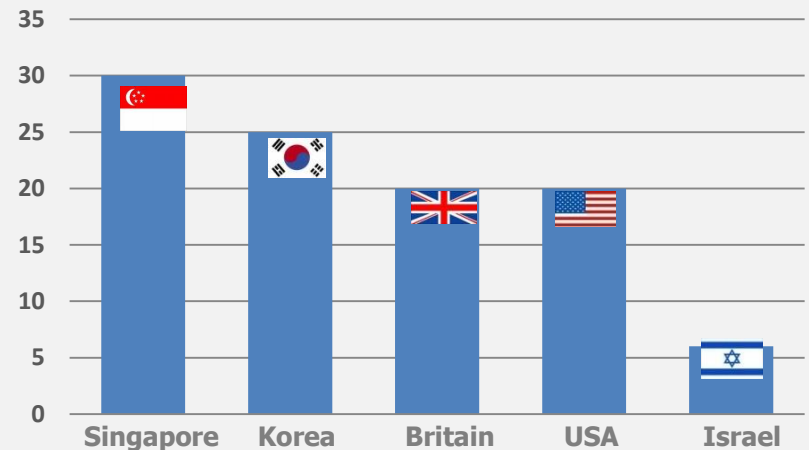
Achievements of Israeli students in international tests are low

Expenditure per student in Israel is close to the average for OECD countries

Israel is a leader in terms of number of computers per household, but the learning environment at school is poor.

Mathematics			Science		
Rank	Score	Country	Rank	Score	Country
1	598	Taiwan	1	567	Singapore
2	597	S. Korea	2	561	Taiwan
3	593	Singapore	3	554	Japan
7	513	England	5	542	England
8	512	Russia	10	530	Russia
9	508	USA	11	520	USA
15	491	Sweden	14	511	Sweden
22	465	Cyprus	20	482	Jordan
<b>24</b>	<b>463</b>	<b>Israel</b>	<b>24</b>	<b>468</b>	<b>Israel</b>
41	380	Columbia	39	417	Columbia
49	307	Qatar	49	303	Guiana

Number of computers per 100 students



# **ICT – The Key to Education in the 21st Century**

**Research indicates that digital technologies are well integrated in the lives of students today, and that the integration of these technologies in schools contributes to improving the quality of teaching and promoting student achievements.**





# ICT – The Key to Education in the 21st Century

1

The use of ICT, both at home and at school, improves student achievements

(TIMSS 2007)

2

Integration of technological tools in teaching mathematics improves student achievements (Report on the State of Mathematics in the American Education System, 2008)

3

Setting up “smart classrooms” and integrating digital content in teaching and learning:

- Increases teacher and student motivation
- Improves the quality of teaching
- Promotes student achievements

(Report on the Impact of Technology in Education, Becta (UK), 2007)

# ICT – The Key to Education in the 21st Century

- 1 A national program for implementing ICT in all schools
  - Comprehensive
  - Long term
  - Led by the Prime Minister
- 2 Program implemented in stages
  - Clear goals for each stage
  - Evaluation of each stage
  - Continuation plan at the end of each stage

To date, 10 billion Pounds have been invested in the program



Singapore



National program

**“Moulding the Future of Our Nation”**

# **National ICT Program for the Education System in Israel 2009-2014**

**The programs aims to  
prepare Israeli students  
for life in the 21st  
century, and position  
Israel among the  
leading countries in the  
world.**



# National ICT Program for the Education System in Israel 2009-2014

## School ICT Leadership

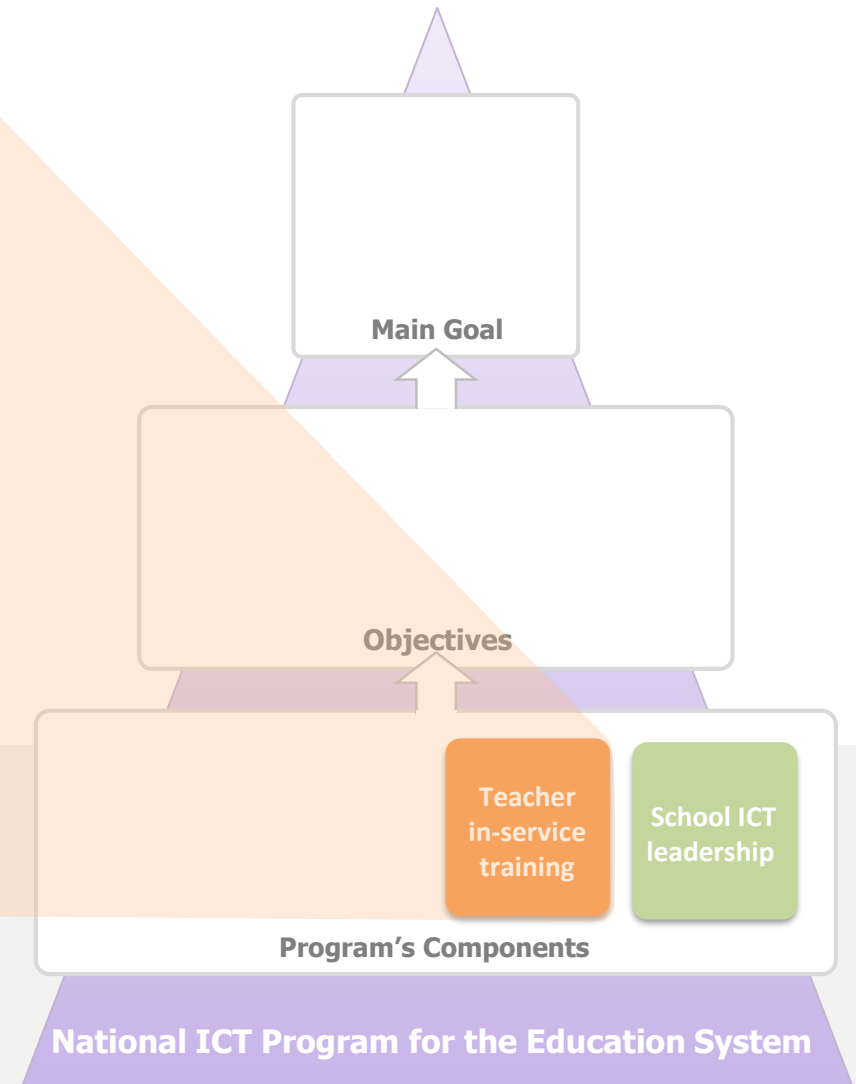
- Program to cultivate school-based ICT leadership
- ICT-based tools for administration, monitoring and assessment
- Creation of a learning continuum between school and home
- Transparency and communication with parents

The program is based on upgrading the teaching and learning environment and developing human capital – principals, teachers and students – through ICT.

# National ICT Program for the Education System in Israel 2009-2014

## Teacher in-service Training

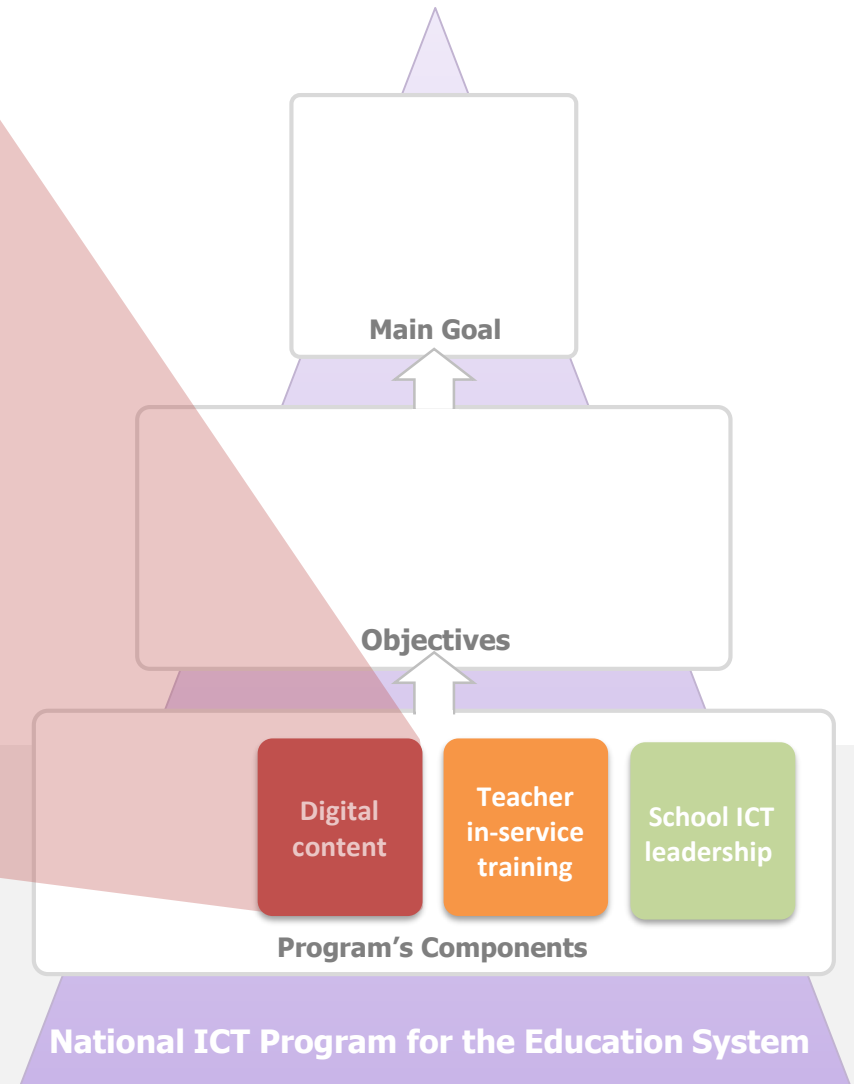
- Online courses to integrate ICT in learning, teaching and assessment
- In-service training programs, teacher communities, and online collections of lectures for professional development in all subjects
- Rich, varied collections of information and digital teaching and study materials



# National ICT Program for the Education System in Israel 2009-2014

## Digital Content

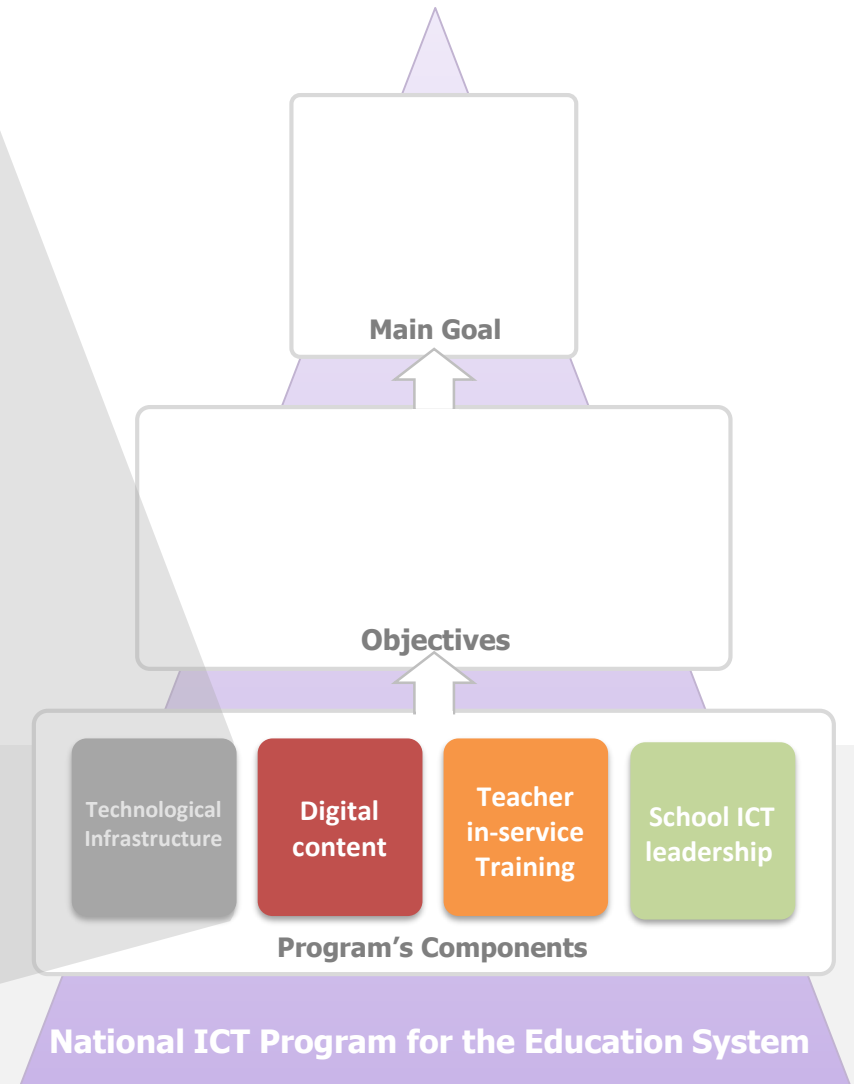
- Digital text books
- Online databases
- Interactive study activities and assessment tasks



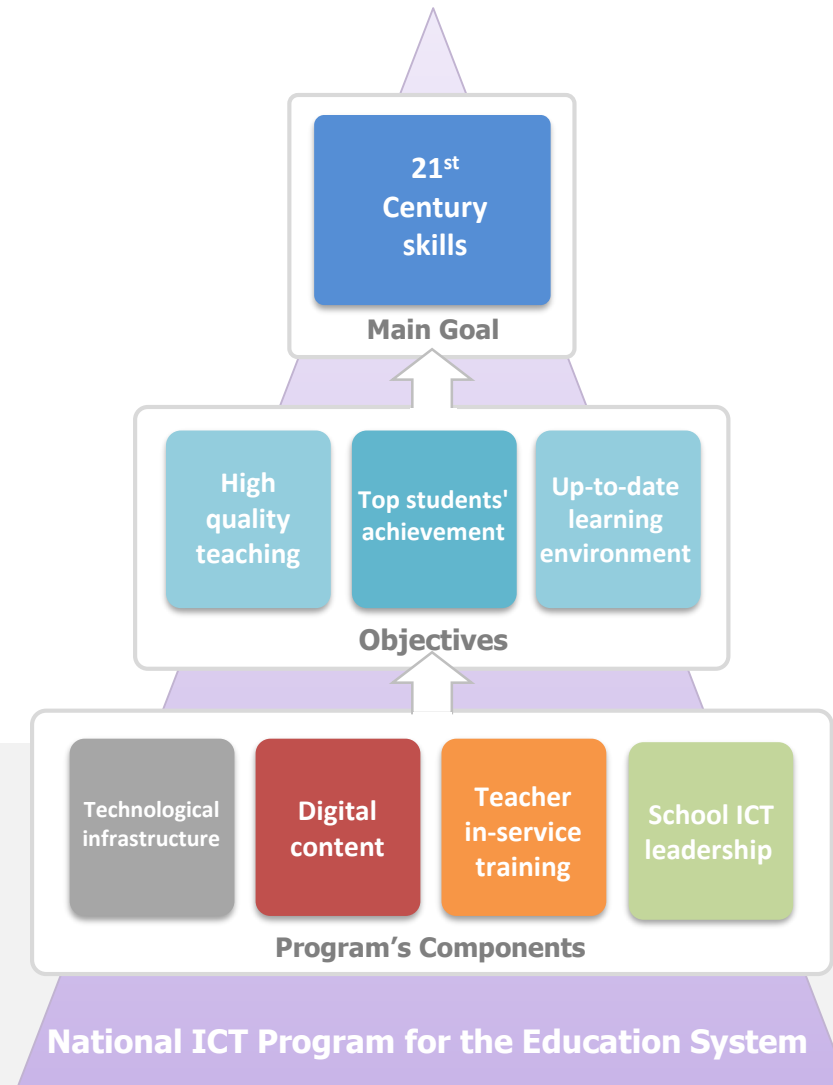
# National ICT Program for the Education System in Israel 2009-2014

## Technological Infrastructure

- Wireless Internet connection
- Smart Classrooms
- Laptops for teachers and students
- Learning Management Systems (LMS)
- School Portals



# National ICT Program for the Education System in Israel 2009-2014





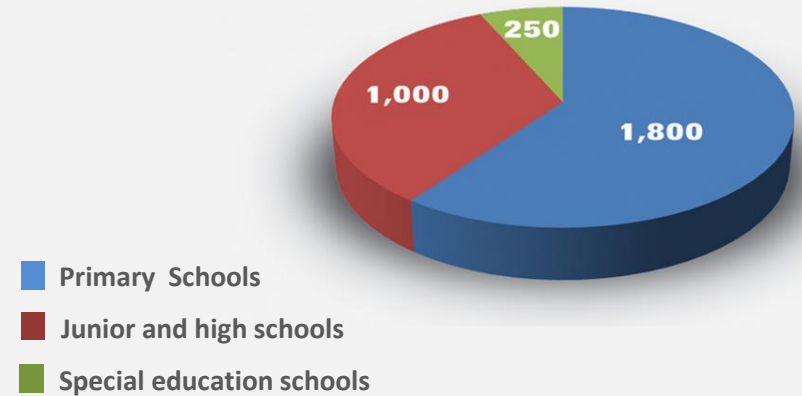
# The Program in Numbers

■ Cost of Program 2009-2014:  
3 billion NIS

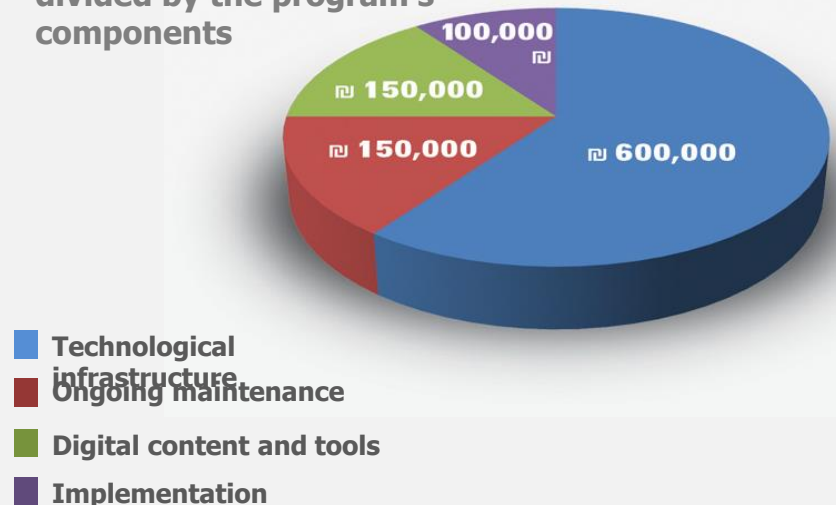
■ Scope of Program:  
Approx. 3,000 schools

■ Average cost per school:  
1 million NIS over 5 years

The ICT program by school distribution



Average costs per school divided by the program's components





**The program's unique value is that it is efficient, can be implemented immediately and can have a significant impact on the entire education system in a short period of time.**

# Thank You

## **The Center for Educational Technology**

CET is a nonprofit organization dedicated to the  
advancement of the education in Israel

**[www.cet.ac.il \ english](http://www.cet.ac.il/english)**

