Integrated ICT Environment for Instruction-Learning-Assessment (ILA) in Israel
A Short History of ICT in Education in Israel

1975 - 1990: The Infrastructure Phase
   Setting up of computer labs in schools
   Use of educational software for drill and practice

1990 - 1998: The Infrastructure Phase
   Personal computer labs featuring multimedia programs

1999 - 2005: The Internet Phase
   Proliferation of school websites
   Sporadic web-based activities
   Information Literacy and Project-Based Learning

2006 - : The Shift to Web-based Content and Tools
   A Novel Israeli E-Bag for Instruction-Learning-Assessment (ILA)
A Novel Israeli E-bag: A Full-Scale Solution for ILA

- Direct link to the national curricula
- Updated on a steady basis
- In all disciplines
- For all age groups
- In Hebrew and Arabic
- Optimal integration of the latest technologies available
- Integrates learning units with assessment tasks
- Integration of 21st Century skills in ILA
- Enables classroom–home continuum
- Use of LMS for managing learning & assessment
- Customized for students with learning disabilities
Online Curricula Based Learning and Assessment Materials

From the curriculum to:

- An interactive learning unit in science
- An interactive page in the e-book in math
- A current event from the e-book in geography and social studies
- An interactive exam in science (English & Arabic)
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Taking Full Advantage of Computer Capabilities for ILA

• Simulations and animations
• Virtual labs
• Clips
• Maps
• Narration
• Information literacy tasks on the web
• Interactive feedback for the student
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Learning different representations of the same numerical value: fractions, decimals and percentages
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Use of LMS for Managing Learning and Assessment

Customized teacher's space enabling management of ILA anytime anywhere

- Differentially accommodate the task to the student
- Set a timetable for task completion
- Monitor student's work
- Give feedback
- Generate reports
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Large-Scale Computer Based Tests

- Suitable for nationwide exam taking place at the same time
- Integrates all possible types of interactive presentations in the questions
- Enables assessment of topics that cannot be tested in a pen and paper test
- Enables assessment of ICT skills
- Enables all modes of questioning
- Offers a solution for students with learning disabilities
Scope of Activity of the e-bag in Israel

In use in 70% of the schools

The graph below shows a significant increase in the extent of student logins over the years.

Ratio of home – school logins

![Graph showing the ratio of home and school logins over the years.](image)
In Conclusion

- An innovative full-scale solution for instruction, learning and assessment (formative and summative)
- At individual student, classroom, school, city and whole nation level
- Developed by experts in the disciplines, in assessment, in technology and in the new pedagogy
- Directly connected to national curricula
- Makes use of updated technologies
- Easy to use
- Customized for students with learning disabilities
- Technical and pedagogical support
- Classroom–home continuum