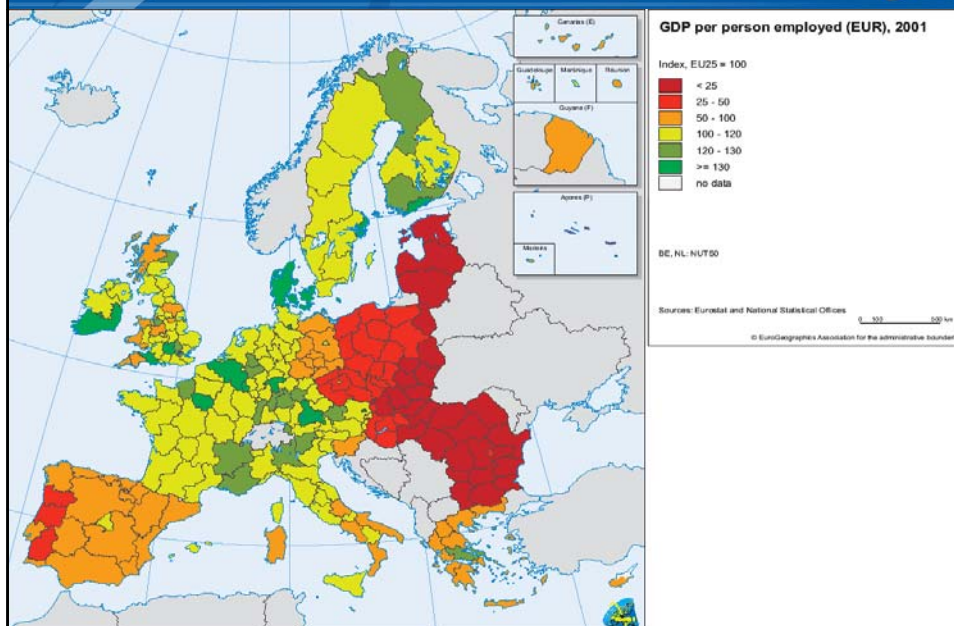


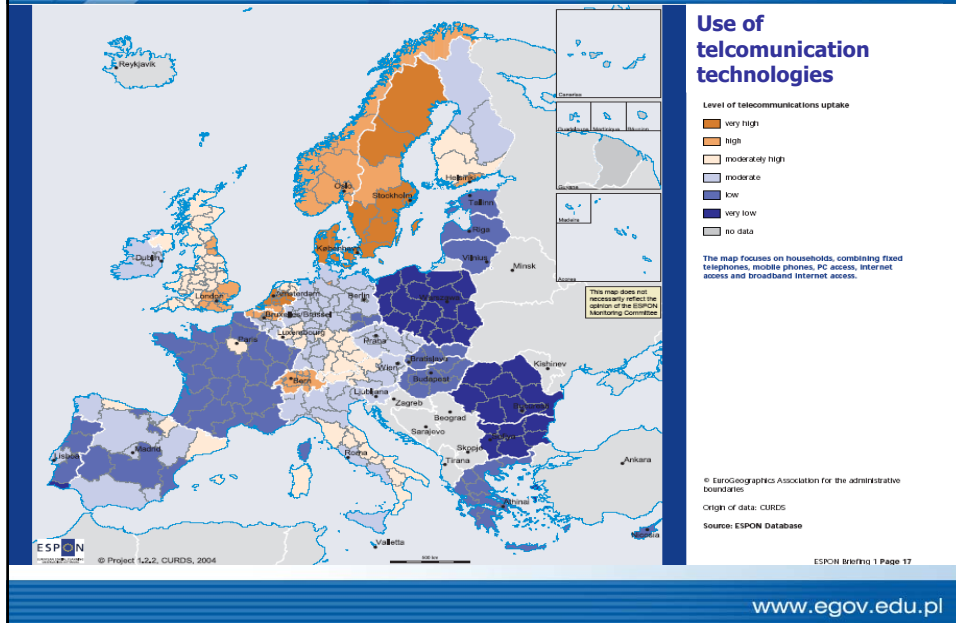


ICT usage in the field of Polish education - opportunities and challenges

Monika Jaranowska

**Manager for Partner Relations
Polish Competence Centre eGovernment and eEducation”
(PCC) in Warsaw**







World Economic Forum Yearly report for 104 countries

Networked Readiness Index (NRI):

- **environment for ICT development e.g. Regulatory and legal framework, available infrastrucutre**
- **actual levels of networked readeness of individuals, businesses and government**
- **actual levels of ICT usage**



POLAND in the World Technology Report *(World Economic Forum)*

Networked Readiness Index Rank

Year (number of countries) Rank

Year (number of countries)	Rank



POLAND in the World Technology Report *(World Economic Forum)*

Networked Readiness Index Rank

Year (number of countries) Rank

Year (number of countries)	Rank

2002 (82) 39



POLAND in the World Technology Report *(World Economic Forum)*

Networked Readiness Index Rank

Year (number of countries) Rank

Year (number of countries)	Rank

2003 (102) 47

2002 (82) 39



POLAND in the World Technology Report *(World Economic Forum)*

Networked Readiness Index Rank

Year (number of countries) Rank

2004 (104)

72

2003 (102)

47

2002 (82)

39



Environment Component Index		70
Market Environment		72
Political and Regulatory Environment		79
Infrastructure Environment		40
1.01	Availability of scientists and engineers, 2004	39
1.02	Venture capital availability, 2004	74
1.03	Sophistication of financial markets, 2004	59
1.04	Technological sophistication, 2004	61
1.05	State of cluster development, 2004	66
1.06	Collaboration in clusters, 2004	62
1.07	University-industry collaboration, 2004	49
1.08	Quality of scientific research institutions, 2004	39
1.09	Subsidies for firm-level R&D, 2004	55
1.10	Brain drain, 2004	87
1.11	Ease of access to loans, 2004	66
1.12	Administrative burden, 2004	97
1.13	Ease to start a new business, 2004	81
2.01	Effectiveness of lawmaking, 2004	84
2.02	Laws relating to ICT, 2004	56
2.03	Effectiveness of judiciary, 2004	72
2.04	Intellectual property protection, 2004	79
3.01	Telephone mainlines, 2002	39
3.02	Secure Internet servers, 2003	44
3.03	Internet hosts, 2003	30

bad
 bad
 not bad

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 and eEducation

Readiness Component Index 73

Individual Readiness	49	not bad
Business Readiness	50	not bad
Government Readiness	95	very bad
4.01 Quality of math and science education, 2004	39	
4.02 Quality of educational system, 2004	56	
4.03 Quality of public schools, 2004	43	
4.04 Internet access in schools, 2004	61	
4.05 Buyer sophistication, 2004	75	
4.06 Buyer dynamism, 2004	83	
4.07 Residential telephone connection charge, 2002	45	
4.08 Affordability of Internet access, 2003	37	
5.01 Investment in training, 2004	69	
5.02 Availability of training services, 2004	40	
5.03 Quality of business schools, 2004	54	
5.04 Business investment in R&D, 2004	58	
5.05 Business monthly telephone subscription, 2002-3	60	
5.06 Business telephone connection charge, 2002-3	42	
6.01 Government prioritization of ICT, 2004	99	very bad
6.02 Government procurement of ICT, 2004	86	

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 and eEducation

Usage Component Index 72

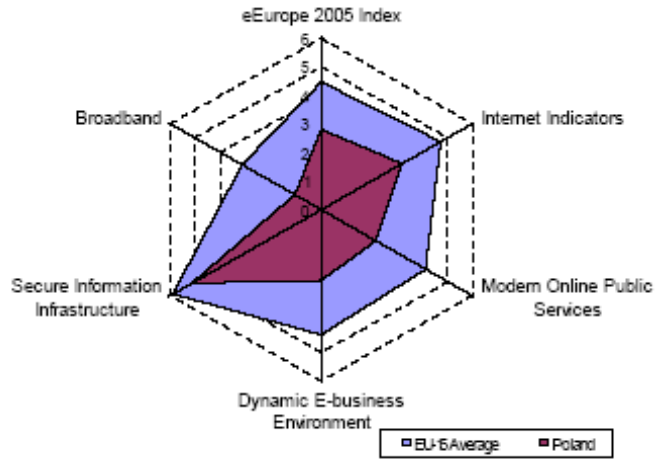
Individual Usage	40	not bad
Business Usage	74	worse
Government Usage	93	very bad
7.01 Cellular mobile subscribers, 2003	40	
7.02 Telephone subscribers, 2002	43	
7.03 Public payphones, 2002	46	
7.04 Telephone lines, 2002	37	
7.05 Television sets, 2002	42	
7.06 Broadband-DSL Internet subscribers, 2002-3	39	
7.07 Broadband-cable modem, 2002-3	30	
7.08 Internet users per 100 inhabitants, 2002	35	
8.01 Prevalence of foreign technology licensing, 2004	73	
8.02 Firm-level technology absorption, 2004	82	
8.03 Capacity for innovation, 2004	46	
8.04 Availability of new telephone lines, 2004	86	
8.05 Availability of cellular phones, 2004	71	
9.01 Government success in ICT promotion, 2004	94	very bad
9.02 Government online services, 2003	66	

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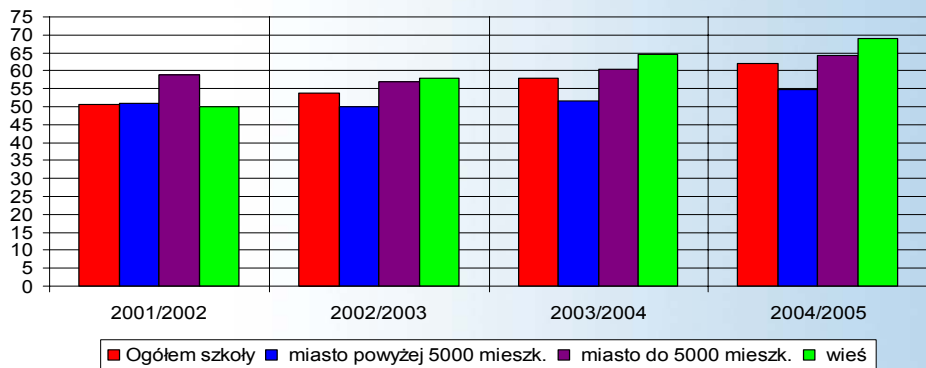
Poland

Poland: Alignment with EU-15



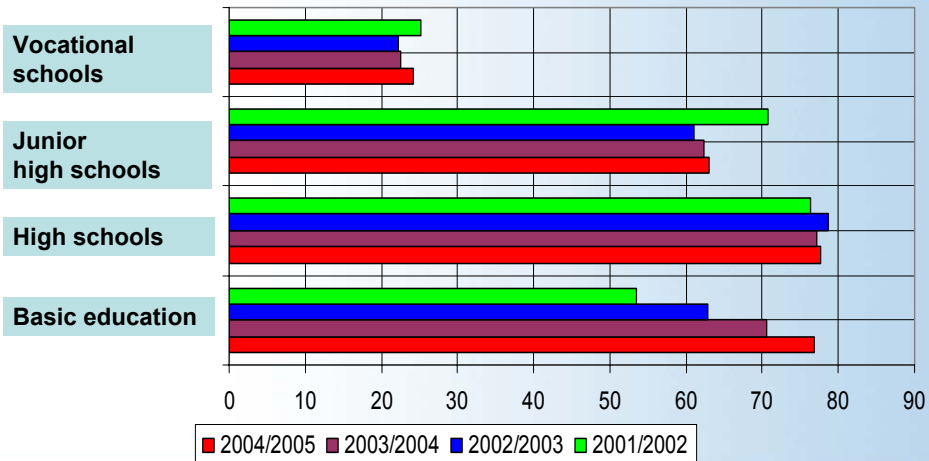
ICT in Polish education since yr. 2000

% of schools equipped with computer labs

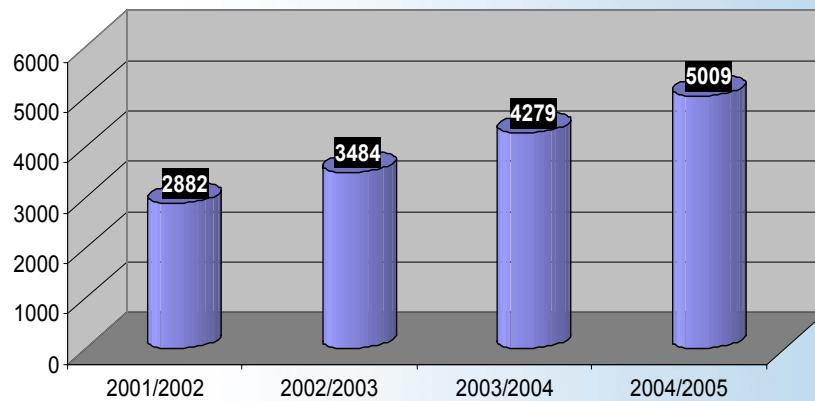


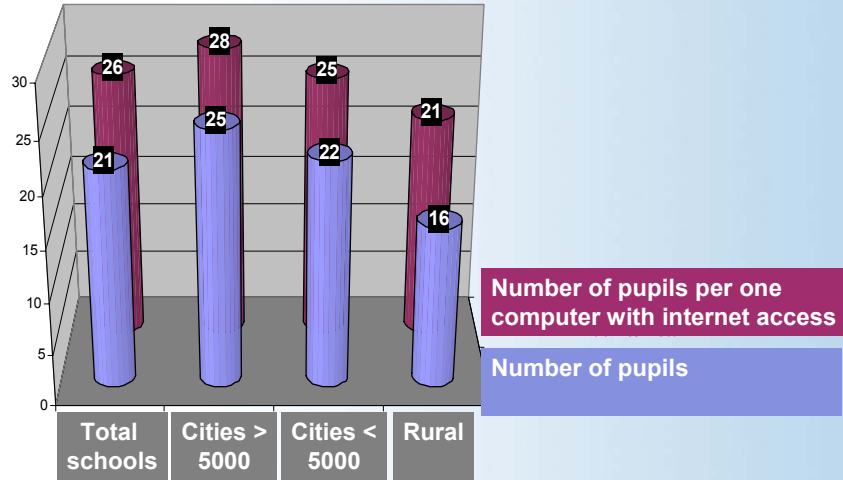


% of schools equipped with computer labs, by school type

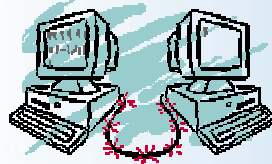


Number of schools equipped with more than one computer lab





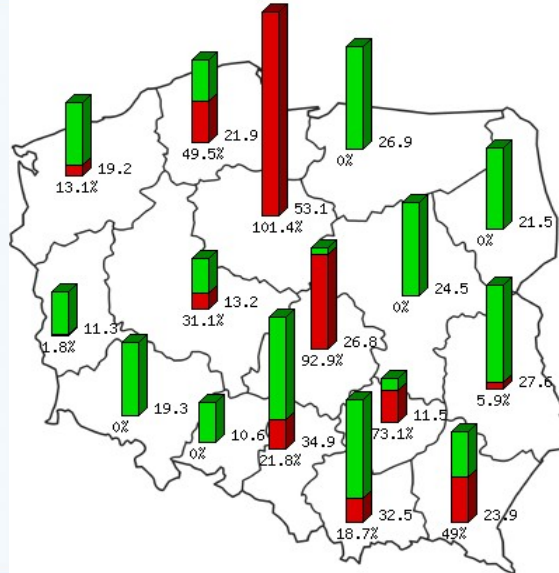
The number of schools with access to broadband is 8209, which is 55% of all schools with Internet access





- POLAND
ICT Projects approved (in %) by 31.08.2005
- POLAND
ICT budget not yet allocated

**Total funds for ICT
 In the regions
 2004-2006
 124 million €**



Future EU funds for Poland

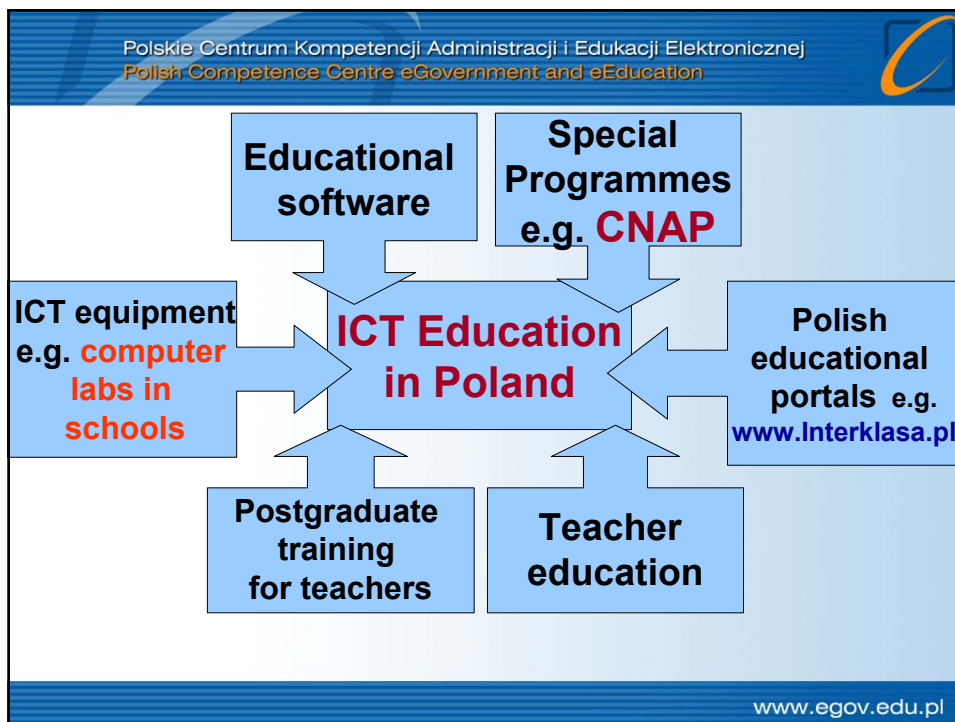
Pesimistic view

- 2% GDP
- **70 billion €**
in 2006 prices



Realistic view

- 3,5% PKB
- **142 billion €**
in 2006 prices

Planned 2007-2013 budget **10 billion €**
 for inovative projects/ICT (for ICT in
 education **3 billion €**)



Polskie Centrum Kompetencji Administracji i Edukacji Elektronicznej
Polish Competence Centre eGovernment and eEducation

 **FUTURE OF ICT in Polish schools** 
EU funded project
„Computer labs for Polish schools”

Basic education	7 679
Junior high schools	1 800
High schools, including schools with special profiles	10 030
Teachers training centres and undergraduate studies	78
TOTAL	19 587

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FUTURE OF ICT in Polish schools



EU funded project

„Internet and multimedia centers in school libraries”

Multimedia computer centers in school libraries	15 592
Multimedia libraries at teachers training centers	592
Computer equipment for psychological counseling centers	580
TOTAL	16 764



Projection: number of pupils per one computer with internet access in Polish schools

2001/2002 – 50

2002/2003 – 40

2003/2004 – 31

2004/2005 – 26

after 2006 – 11



INTER KL@SA

POLISH EDUCATIONAL PORTAL
WWW.INTERKLASA.PL

**POLISH EDUCATION
GOES ONLINE!**

www.egov.edu.pl



Research results: ICT in Education



- **TODAY COMPUTERS ARE USED AT POLISH SCHOOLS MAINLY FOR TEACHING ICT ONLY**
- **SCHOOL COMPUTER LABS ARE NOT ACCESSIBLE FOR PUPILS AFTER CLASSES**

RESERCH SHOWS HOWEVER THAT:

- **IN INTERNET PUPILS MAINLY LOOK FOR INFORMATION**
- **ALMOST ALL PUPILS USE INTERNET AS AN EDUCATIONAL SUPPORT TOOL**

www.egov.edu.pl



The Interkl@sa Programme is a country wide co-operation network of thousands of schools, teachers, pupils, educational NGO's working together to bring Polish education closer to the European Union standards.

Since 1998 Interkl@sa has helped to equip schools with computers and Internet access, organized teachers' training programs and promoted the use of ICT in the field of education.

In co-operation with the Polish-American Freedom Foundation and with the help of Poznań Supercomputing and Networking Centre established at the Polish Academy of Sciences, Interkl@sa has created the first in Poland non-commercial educational portal.
www.egov.edu.pl



POLISH EDUCATIONAL PORTAL



CONTENT

- THEMATIC EDUCATIONAL SERVICES
- DAILY NEWS
- CATALOGUE OF EDUCATIONAL LINKS
- E-LIBRARY
- TESTS, QUIZZES
- LESSONS' SCENARIOS
- EDUCATIONAL MULTIMEDIA, ANIMATIONS



TOOLS

- E-MAIL BOXES – 20 MB
- WWW SITES
- NEWSLETTER
- FORUM
- SURVEYS
- PRIVATE MESSAGING
- VIRTUAL CLASS
- CHATROOMS
- INTERACTIVE SCHOOLS' MAP



EDUCATIONAL CONTENT

SELECTED EDUCATIONAL SERVICES

- EDUSEEK.INTERKLASA.PL
- INTERKLASA.PL/ANGIELSKI
- 6PLUS.INTERKLASA.PL
- POEZJA.INTERKLASA.PL
- FRANTICE.INTERKLASA.PL
- INTERKLASA.PL/BIBLIOTEKI
- NIKE.INTERKLASA.PL
- INTERKLASA.PL/BMI
- FOTOGRAFIA.INTERKLASA.PL
- MAPA.INTERKLASA.PL

The screenshot shows the FRANTICE website interface. It features a header with the logo and navigation icons. Below the header, there are sections for 'Tęże wiadomości' (Latest news) and 'Nowości w serwisie FRANTICE' (New in the FRANTICE service). The 'Nowości' section lists several news items with dates and titles, such as '2004-07-09 Nowości w serwisie CEJ International' and '2004-07-09 Nowości w serwisie CEJ SCAC'. There is also a 'Testy językowe' (Language tests) section.

This screenshot shows a section titled 'Wiedomości Interkldy' (Interclass News). It features a prominent banner for 'nowość' (news) with the text 'Biblioteka Multimediałna Interkldy wzbogaciła się o nowe programy firmy EBook.' Below the banner, there are several news items, including 'Program "Berde 2.0" to kurs nauki przepisów ruchu drogowego dla rowerzystów i motorowzystów' and 'Program "EU 2.0 MultiPlus" służy do nauki...'. To the right of the text is a map of Poland with various regions highlighted in different colors. At the bottom, there is a 'Powróć' (Return) button.



FOR PUPILS AND TEACHERS

- **DAILY NEWS**
- **CATALOGUE OF LINKS**
- **HUNDREDS OF LESSONS' SCENARIOS**
- **E-LIBRARY**
- **EDUCATIONAL ANIMATIONS**
- **MULTIMEDIA LESSONS**
- **EDUCATIONAL PRESENTATIONS**
- **TESTS**
- **EXPERTS' ADVICES**
- **EUROPEAN SCHOOLNET'S NEWSLETTER**
- **EDUCATIONAL GAMES**

This screenshot shows the 'Zasoby Portalu Edukacyjnego' (Educational Portal Resources) section. It lists various types of educational materials available on the portal, including 'Czasopisma' (Magazines), 'Egipzarny - nowel' (Egipzarny - novels), 'Gadzinly - nowel' (Gadzinly - novels), 'Prezentacje' (Presentations), 'Projekty i inicjatywy' (Projects and initiatives), 'Przedmioty' (Subjects), 'Raporty' (Reports), and 'Scenariusze lekcji' (Lesson scenarios). A 'więcej>>' (more) button is located at the bottom right.

This screenshot shows the 'Nowości' (News) section. It features a news item dated '2004-07-26' with the title 'Co warto wiedzieć o programie Młodzież?' (What is worth knowing about the Youth program?). The text describes the program as being addressed to young people aged 15-25 and aims to prepare them for active participation in the European Union. It mentions that the program is implemented in 30 countries, including EU member states and candidate countries like Norway, Liechtenstein, and Iceland. A 'Katalog linków Interkldy' (Interclass link catalog) is also visible, listing 'Ciekawe szkoły' (Interesting schools), 'Czasopisma' (Magazines), and 'Dzieci' (Children).

This screenshot shows a weather forecast graphic titled 'Bryza dzienne' (Daily breeze). It features a circular diagram with a sun and a wind direction indicator. The temperature is shown as 21°C and 20°C. The text below the graphic reads: 'Luf nie nagrzewa. Powietrze ciepłe unoszą się do góry. Rozprężają się i odśnie powoli w kierunku morza. Następuje opad deszczu nad lądem i ocean nad morzem.' (The air does not heat up. The warm air rises to the top. They expand and slowly melt towards the sea. Rain falls over the land and the ocean over the sea.)



EUROPEAN EDUCATION

SPRING DAY IN EUROPE – THE ENLARGEMENT
2004 OVER 1000 SCHOOLS FROM POLAND
TOOK PART IN THE SPRING DAY PROJECT
2005 – PREPARATIOMN FOR SPRING DAY
2005



DIALOGUE WITH THE NEW EUROPE
POLISH-ITALIAN INTERNET DEBATE ABOUT
THE FUTURE OF THE EUROPEAN UNION
PROJECT'S EXPERTS:
PROF. B. GEREMEK AND J. PAWLICKI
(from the biggest Polish daily *Gazeta*
***Wyborcza*)**



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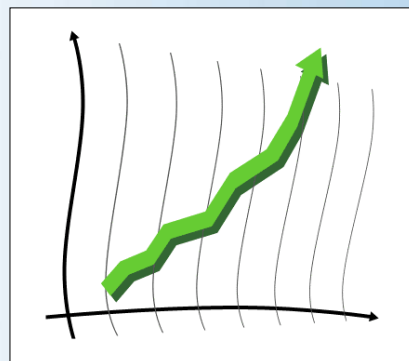


www.interklasa.pl STATISTICS – September 2005

OVER 12 MILLION
PAGE VIEWS MONTHLY

OVER 28 000
REGISTERED USERS

OVER 42 000
NEWSLETTER'S
RECIPIENTS



www.egov.edu.pl

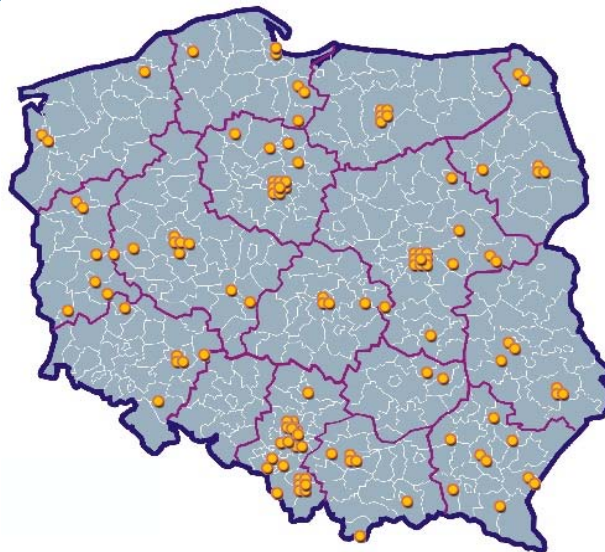


SEPTEMBER 2004
THE POLISH EDUCATIONAL PORTAL INTERKL@SA

WAS SELECTED AS
THE BEST EDUCATIONAL PORTAL ON THE POLISH INTERNET
BY THE PRESTIGIOUS POLISH IT-MAGAZINE „KOMPUTER ŚWIAT”

Wyniki testu		1. miejsce	2. miejsce	3. miejsce
Nazwa serwisu	Waga	Inter- klasa	Gazeta - edukacja	Szkoła.net
Adres strony WWW		www.interklasa.pl	www.gazeta.pl/edukacja	http://szkola.net
Forma serwisu	25%	3,96	3,92	4,04
Obsługa serwisu	8%	wygodna 4	dość wygodna 3	wygodna 4
Szata graficzna	5%	dostateczna 3	bardzo dobra 5	dobra 4
Dobrze działa w rozdzielczościach ekranu	3%	800x600, 1024x768 6	800x600, 1024x768 6	800x600, 1024x768 6
Objętość strony głównej	3%	179 KB 2	202 KB 1	210 KB 1
Reklamy na stronie	2%	banery (mało) 5	banery (mało) 5	banery (mało) 5
Drukowanie	2%	kłopotliwe 3	kłopotliwe 3	kłopotliwe 3
Kopiowanie tekstu	2%	bezproblemowe 6	bezproblemowe 6	bezproblemowe 6
Nauka	75%	5,37	4,13	3,41
Ogólna ocena jakości		5,02	4,08	3,57
Jakość	→	bardzo dobra	dobra	dobra

www.egov.edu.pl



**Cisco
 Networking
 Academy
 Programme –
 in schools and
 Universities**

**locations in
 Poland, 2005**

www.egov.edu.pl



CNAP in Poland now ...

Received public grant (European Social Fund) financing for using CNAP for ICT adult-education of 11 000 owners and employees of Polish Small and Medium size Companies



Project started: September 2005
Project end: March 2008



ICT education and Training Technology





... what else to do ?

Best practices from other counties	e-City Pilot Projects, (e-Słupsk)	Model Projects	Competence center for e-Gov and e-Edu
Knowledge provider	Testing solutions	Addressing many places at once	Dissemination of best practices
Dissemination of proven standard solutions	Developing solutions	Facilitation of acquiring EU funding for projects	Testing technology compatibility
International networking	Building knowledge and experience	Visibility and promotion of ICT use	Independent advisor



Polish Competence Center for e-Government and e-Education

Features:

- Independent, with high technical competence
- closely co-operating with public partners, research partners, technology providers
- Backed-up by experiences (EU Commission, Germany, Estonia ...) through active networking
- Providing advise and demonstration of technology and organizational solutions, organizing training and dissemination of information and knowledge

Polskie Centrum Kompetencji Administracji i Edukacji Elektronicznej
 Polish Competence Centre eGovernment and eEducation

eSŁUPSK
Pilot project to build Information Society from scratch

Koncepcja
 Miejska Sieć Teleinformatyczna
 Słupsk

Polskie Centrum Kompetencji Administracji i Edukacji Elektronicznej
 Polish Competence Centre eGovernment and eEducation

**Model projects:
 e.g. Local IT educational network**

<p>INSTRUKCJA Standardowego Wzrostu Europejskiego 1</p> <p>Projekt Gminnej Informacji Zintegrowanego Planu</p>	<p>ROZSZERZENIE Projekt Gminnej Informacji Zintegrowanego Planu</p> <p>MINISTERSTWO GOSPODARSTWA Standardowy wzrost wiodący Europejski (SME) Zintegrowanego Planu</p>	<p>OCENA ODDZIAŁOWA Projekt Gminnej Informacji w ramach</p>	<p>Wytyczne do STUDIUM WYKONALNOŚCI Projektu Modelowego Utworzenie Gminnej Informatycznej Sieci Edukacyjnej (GISE) w ramach działania 1.5. ZPORR</p> <p>ZPORR Zintegrowany Program Operacyjny Rozwoju Regionalnego</p>
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**Thank you for
your attention !**

www.egov.edu.pl

www.interklasa.pl