E-Government developments in Hungary

Prof. Dr. Ákos DETREKŐI

President of National Council for Communications and Information Technology Hungary

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1. INTRODUCTION

I will present the following topics:

- **ICT infrastructure in Hungary**
- **E-Government in Hungary**
- **Hungarian Information Society Strategy**
- **Some charasteristics of GIS activity in Hungary**
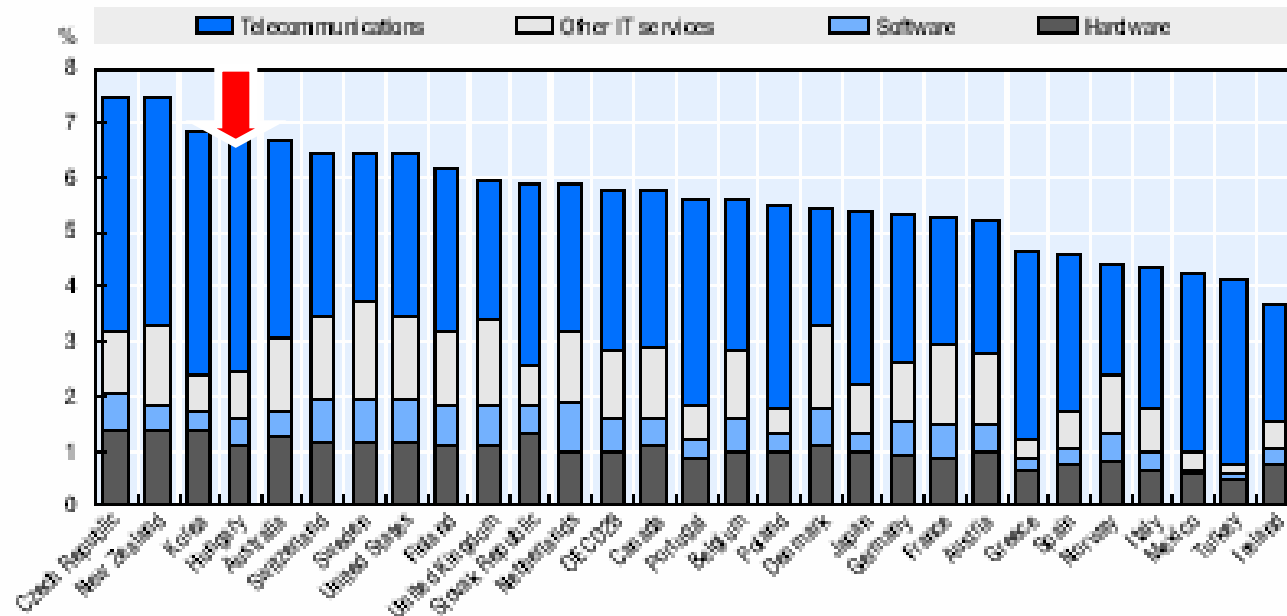
2. ICT INFRASTRUCTURE IN HUNGARY

The following facts about Hungary:

- **Hungary is a relatively small country (93 000 skm, 10 million inhabitants),**
- **The country has big traditions in mathematics and natural sciences,**
- **The country is after a political and economical transformation,**
- **Since 2004 Hungary is EU-member country.**

2. ICT INFRASTRUCTURE IN HUNGARY

Hungary has a good position of ICT intensity in OECD countries:

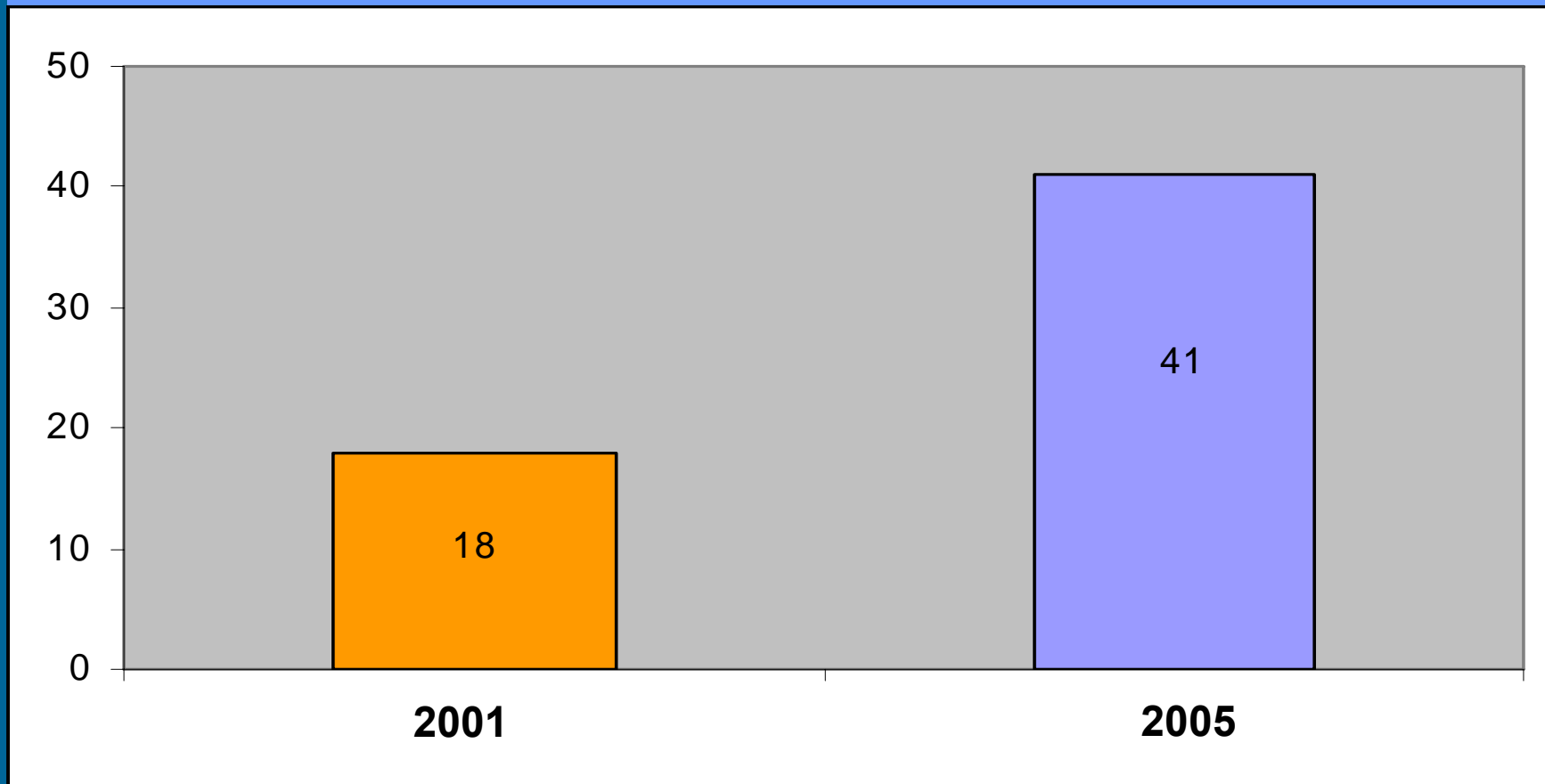Figure 1.24. ICT intensity[1] in OECD countries,[2] 2003

1. ICT intensity is defined as ICT markets/GDP.
2. Excluding Luxembourg and Iceland.
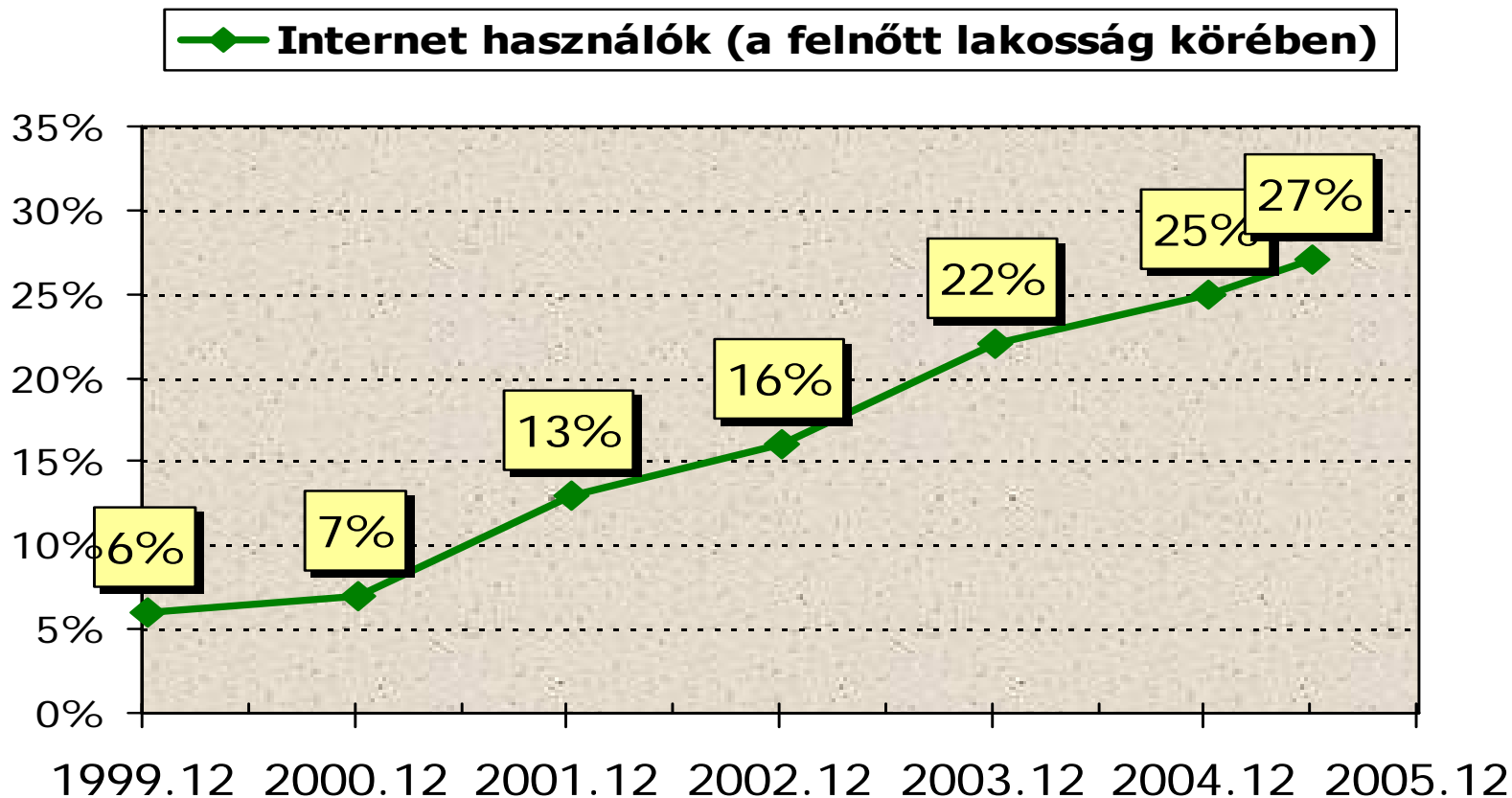Source: OECD, based on International Data Corporation (IDC), 2004.

Forrás: OECD, ICT Outlook 2004

2. ICT INFRASTRUCTURE IN HUNGARY

The number of PC - s is increasing:

2. ICT INFRASTRUCTURE IN HUNGARY

The Internet penetration is increasing too:

Internet használók (a felnőtt lakosság körében)

Year	Value
1999.12	6%
2000.12	7%
2001.12	13%
2002.12	16%
2003.12	22%
2004.12	25%
2005.12	27%

2. ICT INFRASTRUCTURE IN HUNGARY

GSM penetration: 92,4 %, UMTS from 2005:
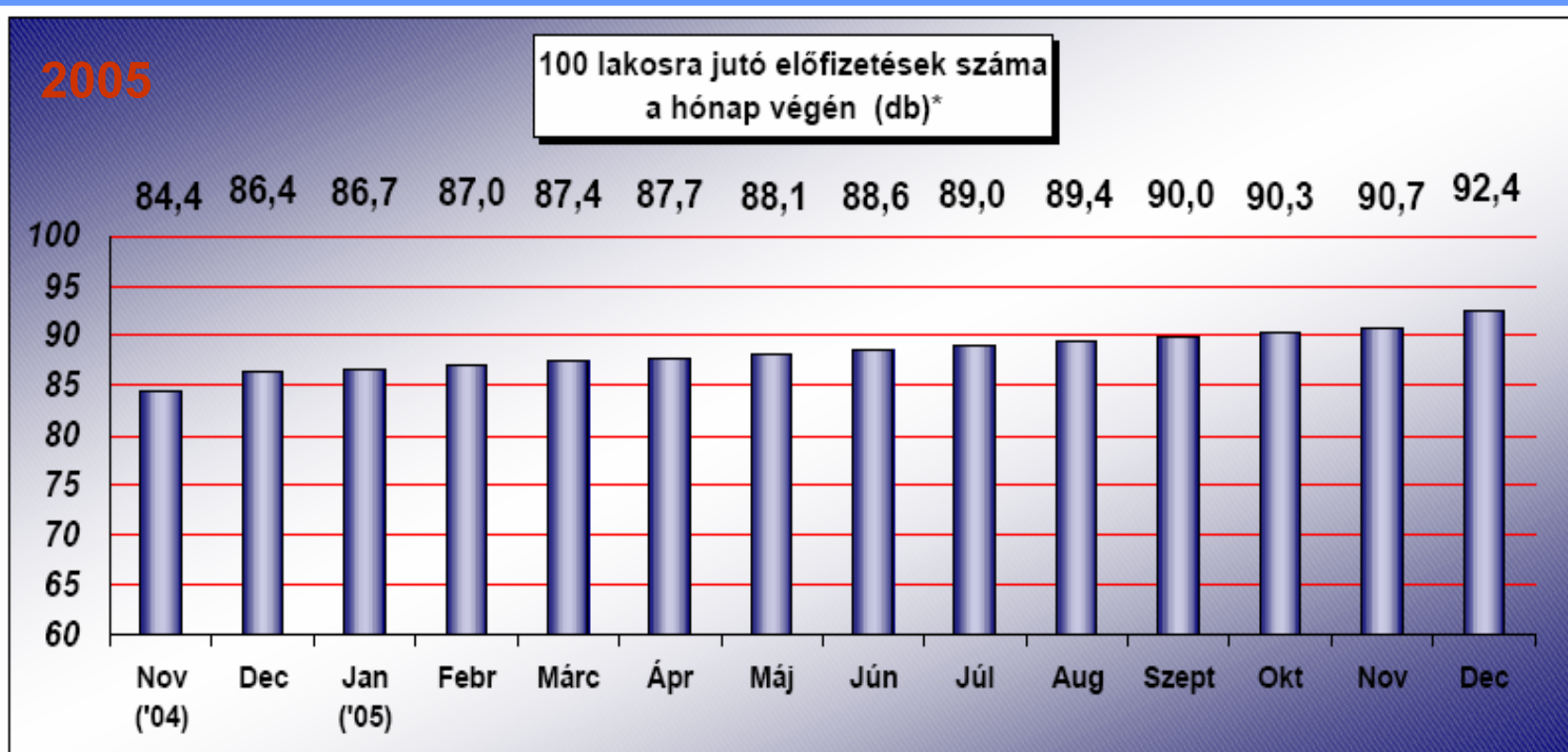
2. ICT INFRASTRUCTURE IN HUNGARY

Public access points (Hungary points): > 2700
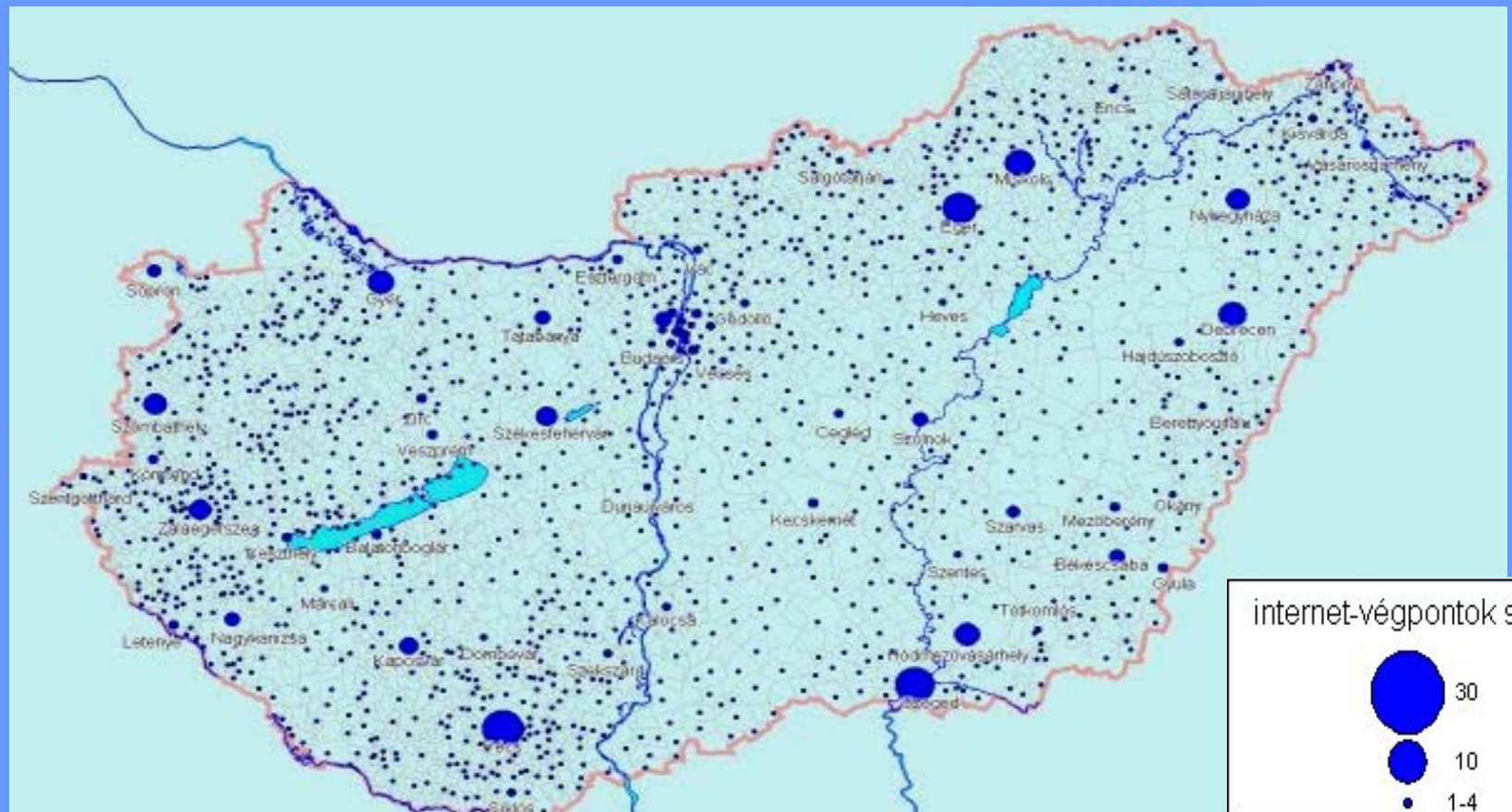
Public net phase 1 (broad band): 5000 schools, 2300 institutes (including 5-600 municipalities)
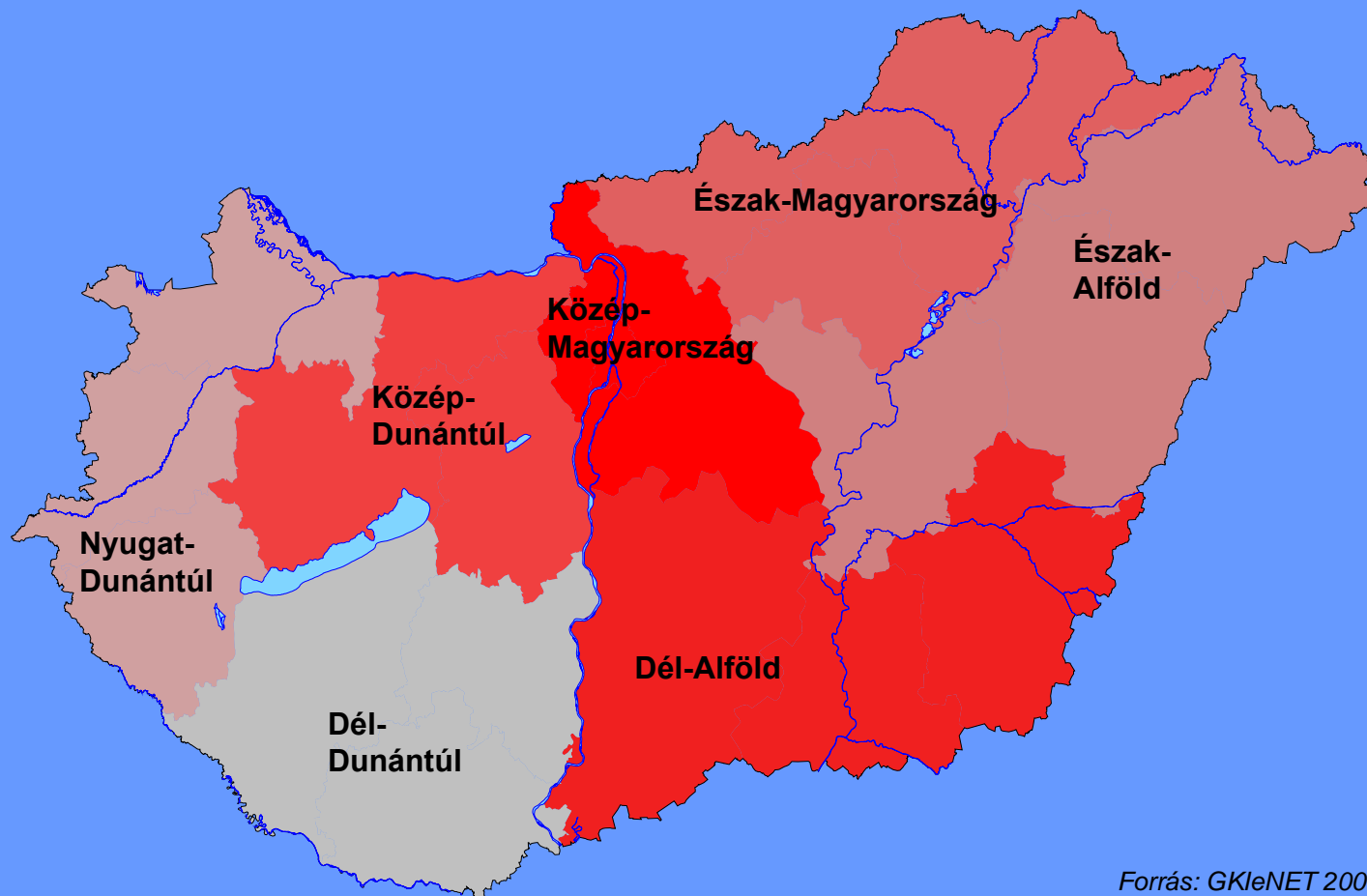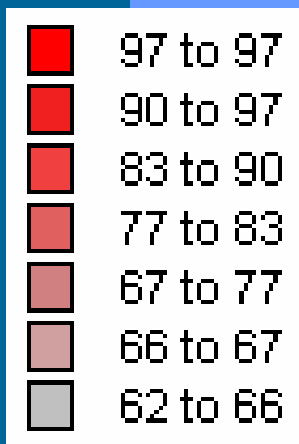
2. ICT INFRASTRUCTURE IN HUNGARY

Some problems:

- **The Internet penetration is low. Hungary has a position in the last third part of EU 25 countries.**

- **The number of "digital illiterates" is high.**

- **Big differences between the parts of the country:**

2. ICT INFRASTRUCTURE IN HUNGARY

Local governments accessing Internet in the regions of Hungary

🟥	97 to 97
🟥	90 to 97
🟥	83 to 90
🟥	77 to 83
🟥	67 to 77
🟥	66 to 67
⬜	62 to 66

Észak-Magyarország

Észak-Alföld

Közép-Magyarország

Közép-Dunántúl

Nyugat-Dunántúl

Dél-Alföld

Dél-Dunántúl

Forrás: GKIeNET 2003 q1

3. E-GOVERNMENT IN HUNGARY

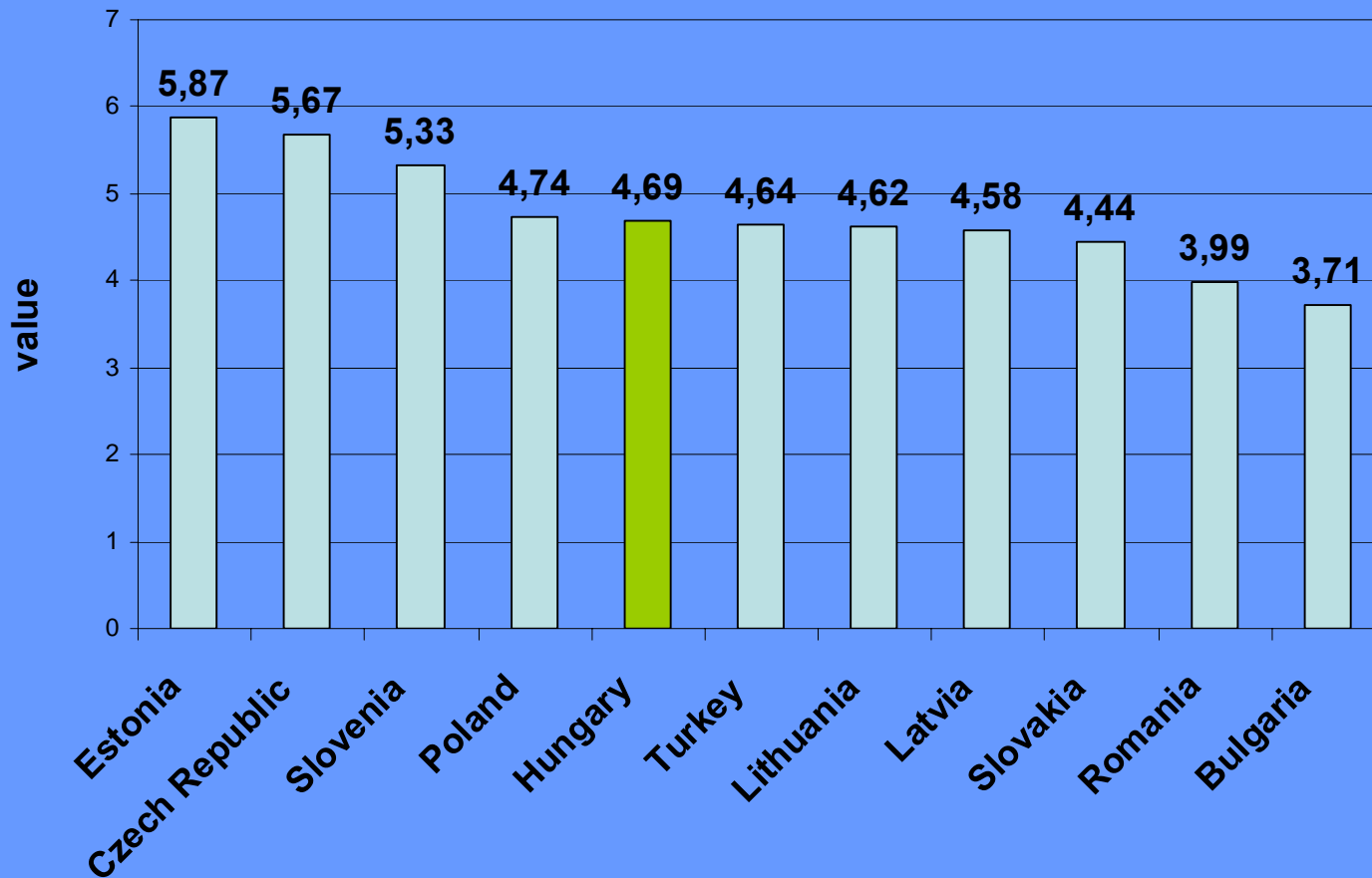**Two basic low of the modernisation of public administration are the following:**

- **Act of information freedom (2005)**
- **Act on the general rules of administration procedures and services with separate section for electronic case management (2004)**

3. E-GOVERNMENT IN HUNGARY

Some ideas of the modernisation are:

- **service-oriented, customer-centric**
- **outcome-oriented, efficient, cheap**
- **transparent, accountable**
- **increasing trust, broadening participatory democracy**
- **innovative, flexible**
- **open, collaborative.**

3. E-GOVERNMENT IN HUNGARY

3. E-GOVERNMENT IN HUNGARY

The modernisation of public administration has two centres in the Government.

In the last time started the possibility to use the Internet in the public administration.

- **Computer infrastructure**
  - **central administration: 0,93 computer/employee (practically complete)**
  - **local administration: 0,89 computer/employee**

3. E-GOVERNMENT IN HUNGARY

- **Network infrastructure**
  - central: ~ 500 institutes on Government Backbone (connected to TESTA), LAN: 98 %, Internet access: 97 % (48 % of employees)
  - local: Internet access: 88 % (48 % of PCs), LAN: 36 %
- **Home pages**
  - central: > 90 %
  - local: < 40 %

E-Government Strategy 2005 and Action Plan

3. E-GOVERNMENT IN HUNGARY

The main elements are the following:

- **Infrastructure:**
  - Government backbone, electronic utility, metadirectory, etc.

- **Regulation:**
  - harmonisation of governmental web pages, etc. (refer to common tasks)

- **Skills:**
  - courses for civil servants

3. E-GOVERNMENT IN HUNGARY

- **Content and services:**
  - **Government Portal, Central Service Gateway, e-Procurement, e-Payment, Government Contact Centre, etc.**

- **Effective back office:**
  - **electronic legal codification, electronic records management, etc.**

- **European integration:**
  - **participation in IDABC, connection to TESTA, etc.**

3. E-GOVERNMENT IN HUNGARY

Other strategies and programs

- **E-Municipalities Strategy,**
- **National Broadband Strategy.**

4. HUNGARIAN INFORMATION SOCIETY STRATEGY

The Hungarian Information Society Strategy is the adaptation of eEurope Program for Hungary.

a. _Objective:_ modern society and competitive economy using information and communications technologies as most important tools of building a knowledge based society

b. _6 fields of intervention:_
- **Contents and services**
- **Infrastructure**
- **Knowledge and skills**
- **Legal and social environment**
- **R & D**
- **Equal opportunities**

13 Key Areas, 19 Programs.

GIS is only indirect way included.

5. SOME CHARACTERISTICS OF GIS ACTIVITY IN HUNGARY

- Hungary has a long tradition of geographical information manipulation.

- The 1D, 2D, and 3D reference systems (control network) are up-to-date

- In Hungary, various types of maps are available in analogue and in digital form.

- In the large-scale domain (1:500 –1:4000) are analogue maps over the country

- In the medium scale (topographic) domain (1:10000-1:200000) there are two parallel systems.

5. SOME CHARACTERISTICS OF GIS ACTIVITY IN HUNGARY

- **Near the maps and images a great deal of text and attribute data are available**

- **The GIS activity started in the mid-1970s**

- **The Hungarian companies and government organizations take part in various international projects (e.g. CORINE, MEGRIN, INSPIRE)**

- **The GIS technologies are part of the curricula of colleges and universities.**

CONTACTS:

- **Ákos DETREKŐI**

- **National Council for Communications and Information Technology of Hungary,**
  H-1073 Dob u.76.
  Budapest, HUNGARY
  +36 1 322-9626
  +36 1 322-9629
- **adetrekoi@epito.bme.hu**

BIOGRAPHICAL NOTES:

- **1963:** Technical University of Building Industry and Traffic, Budapest (ÉKME) civil engineering diploma

- **1980- :** Full professor at the Dept of Photogrammetry of Technical University Budapest

- **1997-2004:** Rector of the Budapest University of Technology and Economics (formerly Technical University of Budapest) (TUB)

- **2004-:** President of National Council for Communications and Information Technology