



# National broadband strategy and broadband initiatives in Hungary

***Dr. Oszkar Kovacs, senior adviser  
oszkar.kovacs@ihm.gov.hu  
IST BReATH project - Closing conference  
Geneva, 11th December 2006***



# Strategic objectives (1)

## Broadband supply of citizens and undertakings

- To provide access possibility for at least 80% of citizens until end 2006 on affordable price
- To provide access possibility at least 90% of SMEs until end of 2006 at affordable price

## Public broadband access points to all settlements

- 2700 access points until end 2004
- 4000 access points until end 2006



# Strategic objectives (2)

## BB access for public sector

- Implement 7300 endpoints in public institutions until end 2005
- All primary and secondary schools supplied with broadband until end 2006
- More than 50% of municipalities supplied by broadband until end 2006
- Dynamic development in academic and university sector



# Preferable technologies

Size of settlements	nr. of settlements	Accessible residents	Technologies						
			DTV LMDS WiMA	KTV LMDS WiMAX	ADSL	VDSL	FTTx + VDSL	FTTx	
1.000.000 above	1	1 749 389	X V-SAT	V-SAT					
100.001-1.000.000	8	1 175 041							
50.001-100.000	12	768 375							
25.001-50.000	25	830 314							
20.001-25.000	17	380 645							
15.001-20.000	28	487 459							
10.001-15.000	51	618 273							
7.501-10.000	46	397 763							
5.001- 7.500	90	549 986							
2.501- 5.000	335	1 141 463							
2500 and less	2 522	2 088 870							



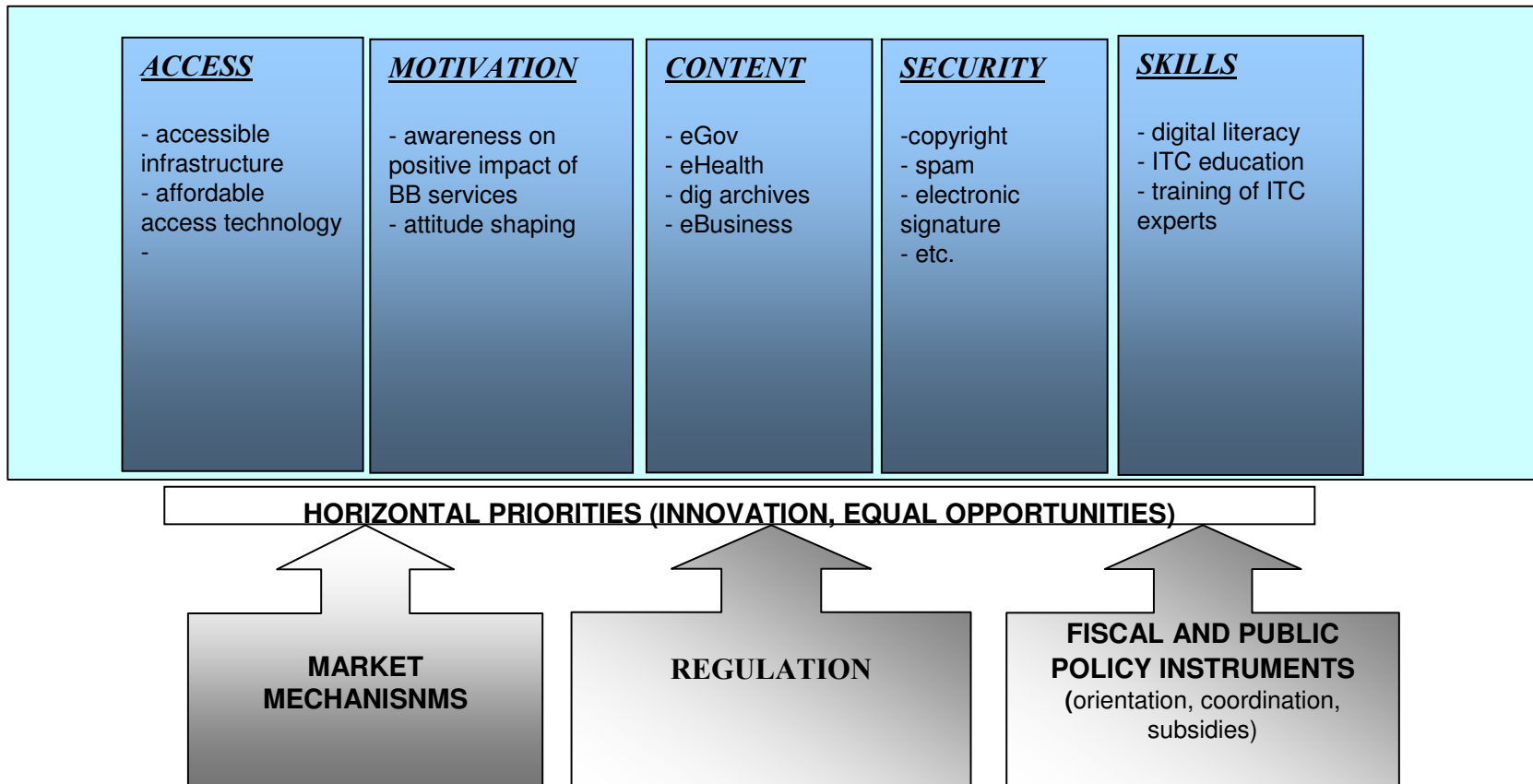
# Settlements and coverage

	Number of residents	Broadband service available
Budapest	1 719 342	100,0%
County seat	1 788 770	100,0%
Town	2 877 420	86,1%
Settlement type Village3000+	1 334 353	61,8%
Village 1501 – 3000	1 181 933	32,0%
Village - 1500	1 238 119	8,0%
<b>Total:</b>	<b>10 142 362</b>	<b>22,9%</b>

*Source: calculations of Ariosz Kft, based on the processing of data supplied by service providers (December 2004)*

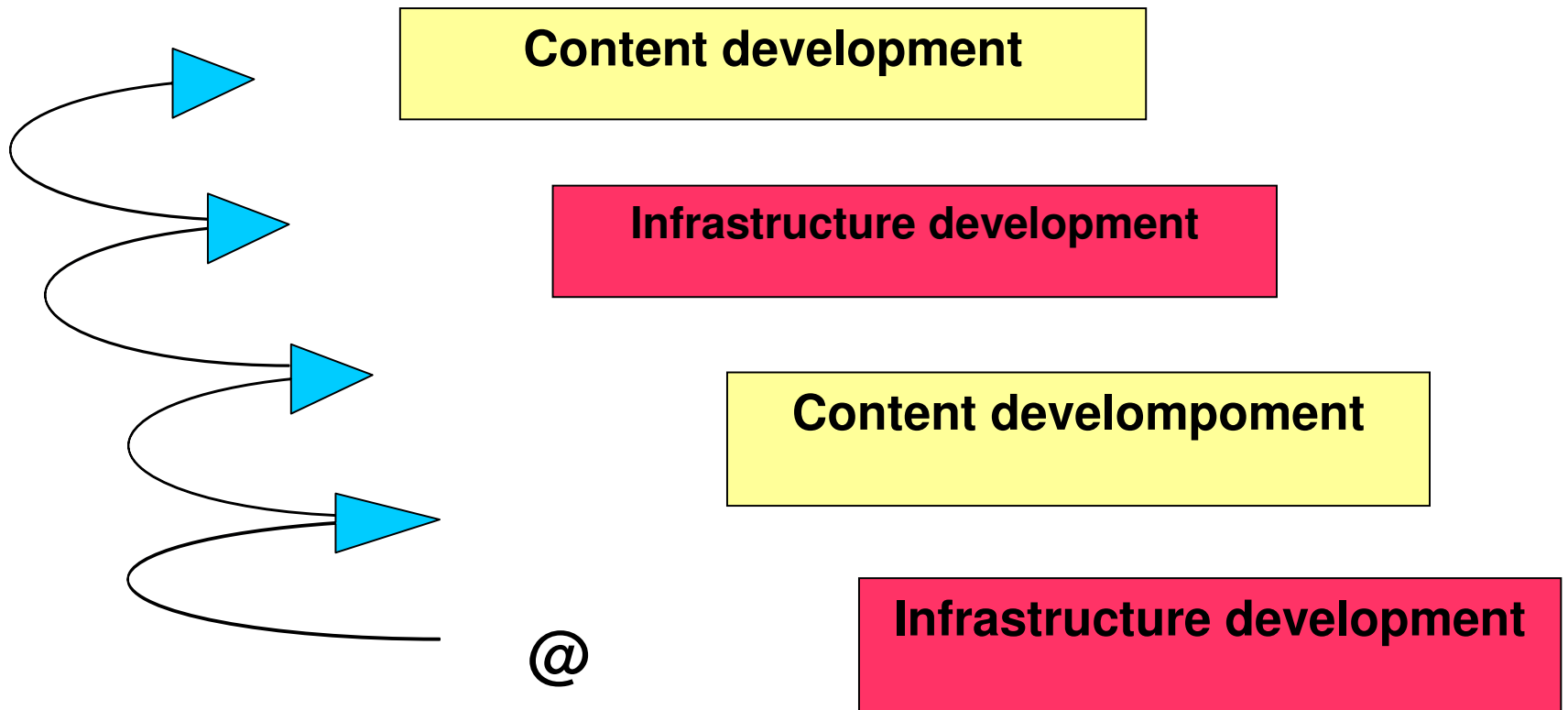


# Strategic instruments





# Proliferation model





# Present state programs

- **PublicNet (Közháló)**
- **Public Access point (eMagyarország)**
- **ICT project for education (Sulinet)**
- **Research ICT infrastructure (NIIF)**
- **National digital archives (NDA - NAVA)**
- **eGovernment**



# Results

## Broadband access lines, Q3 2006

Residential	631225
Business	85200
Others	1024
<hr/>	
Total	717449

## Technologies

DSL	441940
CATV	259787
Wireless	9820
Others	5902
<hr/>	
Total	717449



# Problems

- Access
  - Growth rate in BB penetration is slowing down
  - Price reduction is not sufficient
- Content
  - ebusiness is not attractive enough due to insufficient penetration
  - Lack of resources to subsidy archives
- Education
  - Low progress in skills and training
- Security
  - Internationally unsolved issues
- Motivation



***THANK YOU***

[www.gkm.gov.hu](http://www.gkm.gov.hu)