

# „Intelligent city” project

Hódmezővásárhely



## *Subjects covered*

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- „Smart” Cities
- Hódmezővásárhely endeavours for a more livable city
- A Hódmezővásárhely model for an „Intelligent” city

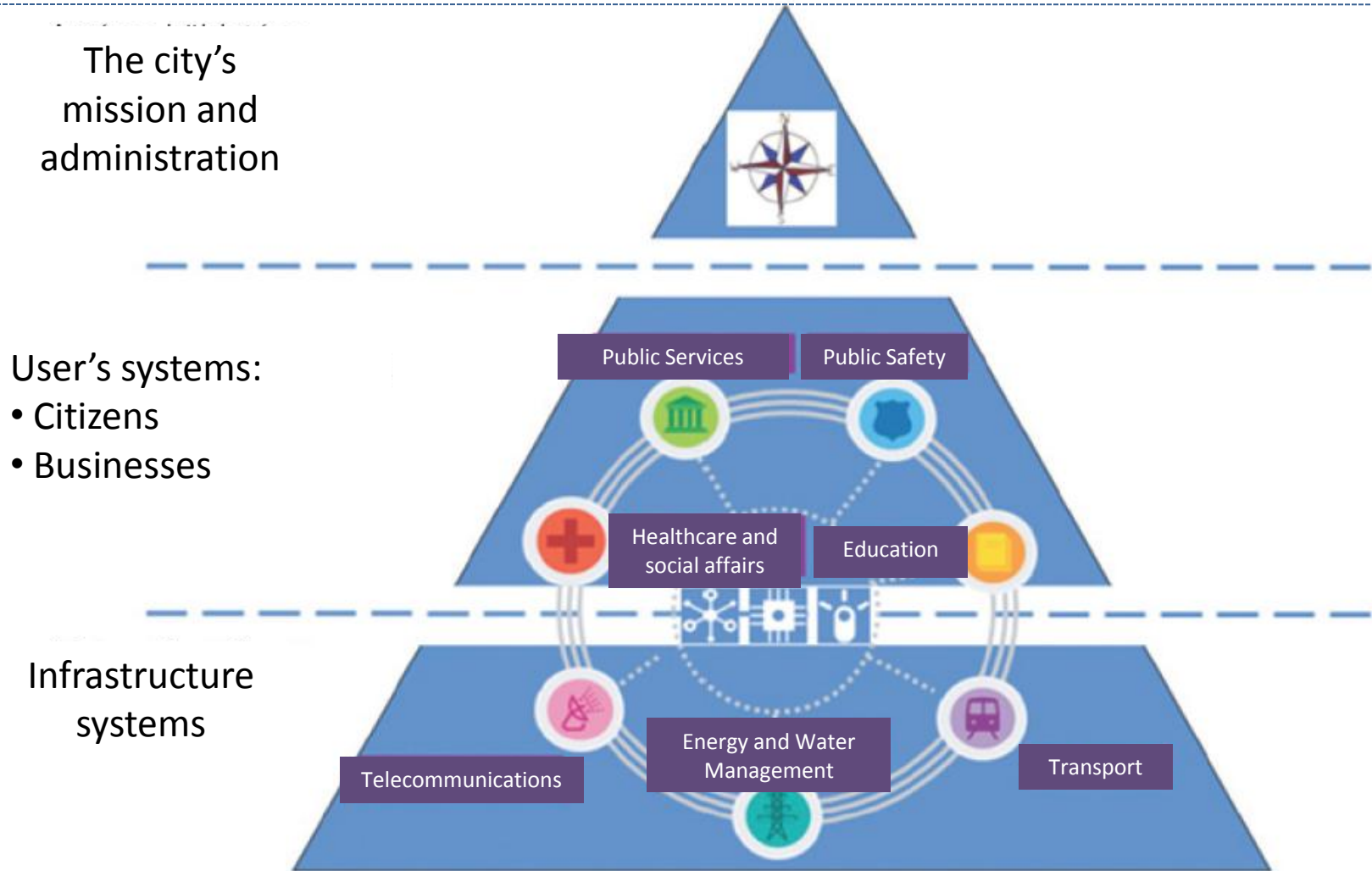
# „Smart“ City

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City operation is based on 7 basic systems including **networks, infrastructure and environment**

- **„People“ subsystem** includes public security, healthcare and education
- **„Business“ subsystem** includes public policy and regulatory environment influencing the city's business life
- **City services subsystem**
- **Transport subsystem**
- **Communications subsystem**
- **Water management subsystem**
- **Energy management subsystem**

# The City – the unity of complex systems I.



# *City endeavour for the creation of a „livable”city I.*

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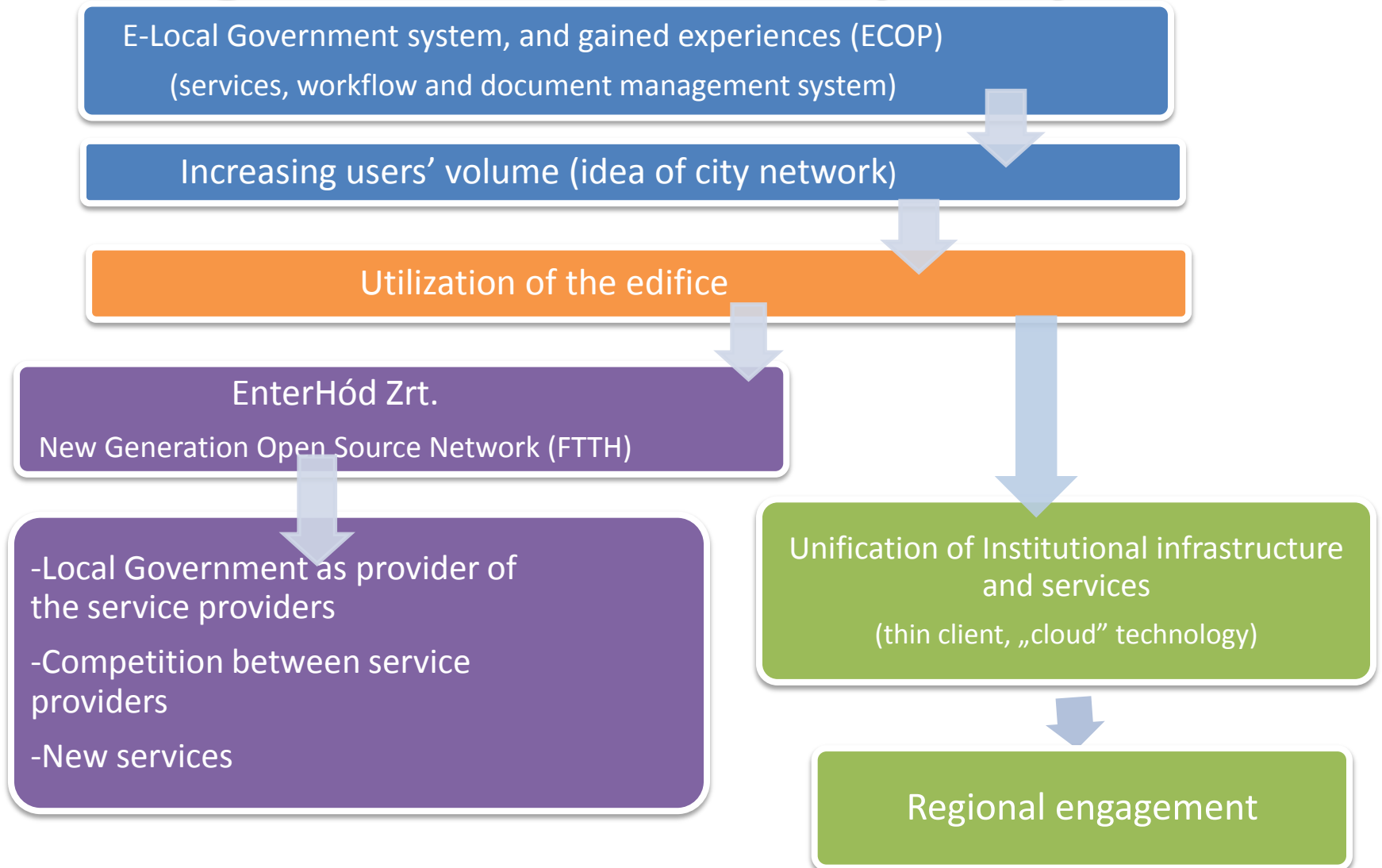
- Integrated City development strategy
- Antisegregation Programme
- Concept on economy development
- Concept on Public Education
- Energy Strategy
- Healthy Vásárhely Programme (prevention)
- Safe Vásárhely Programme (public safety)
  - Efficient cooperation with the Police
  - Area surveillance system

# *City endeavour for the creation of a „livable”city II.*

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- City reconstruction
- Joining the „*slow city*” movement
- Reorganization of Public Education
  - Elimination of segregation
  - Use of ICT tools, creating digital literacy, competency based education
- Improve service oriented approach
  - E-Local Government services
  - Drinking water management in önkormányzati kézben
- Centralization of institution duties
- Institutional infrastructure unification
  - thin client, „cloud” technology

# ***Evolving the Hódmezővásárhely e-City model***



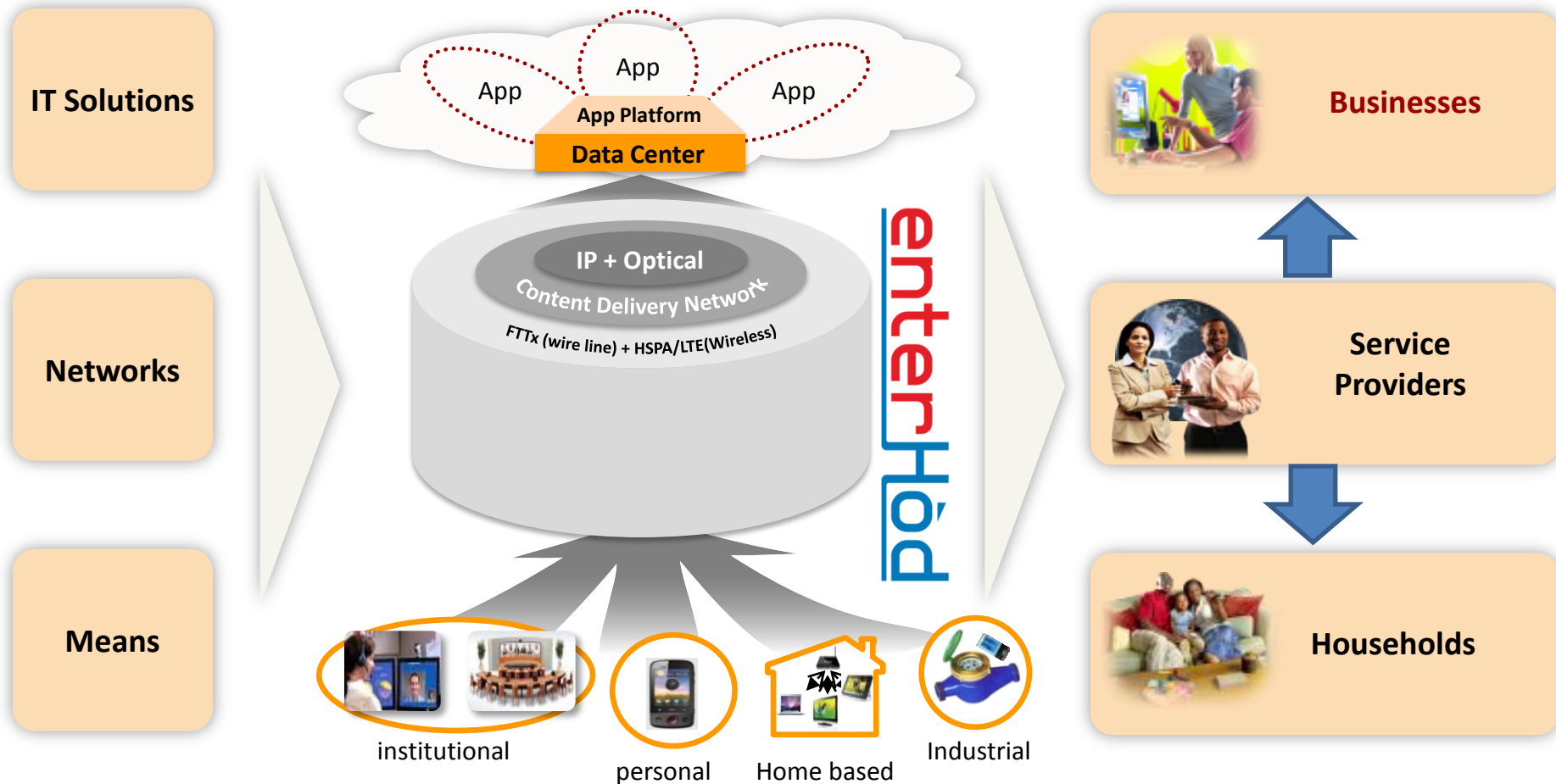
# *The characteristics of the Hódmezővásárhely broadband model*

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- Joint venture establishment with the provider partner (EnterHód Zrt.)
- Owner and user of the networks is the joint venture
- Income deriving from network usage covers investors' business capital invested in the joint venture
- Open Sourced Network building for the optimal resource management and market competition
- Joint venture as provider of the service providers (basic infrastructure)
- New generation, completely optical network (FTTH) for the sake of the future-proof investment
- Market demands assessment
- Elaboration of technology (according to urban conditions)
- Financing opportunities
- Timing
  - 1. city centre(1600 households)
  - 2. further city districts and outskirts (18000 households)



# The Hódmezővásárhely model



# ***Direct and indirect benefits from broadband availability I.***

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- Presence of multiple providers → strong competition, more favourable service rates, better quality
- Infrastructure management
- E-municipality services
- Distance learning, providing central learning materials
- Decreasing the volume of unemployment
- Telemedicine, Telesupervision of elderly people with health problems (EVP)
- Improvement of Public Safety, (supervision, area surveillance system)
- E-information, Alarming system, community information
- Digitális alapú IPTV műsorelosztás, digital video rental, e-library
- Telework, adhering of new labour culture
- Involvement of outskirts in the life of the city
- Interactive fora
- Forming digital connections of the subregion
- Providing hosting, data base, applications-services (ASP)

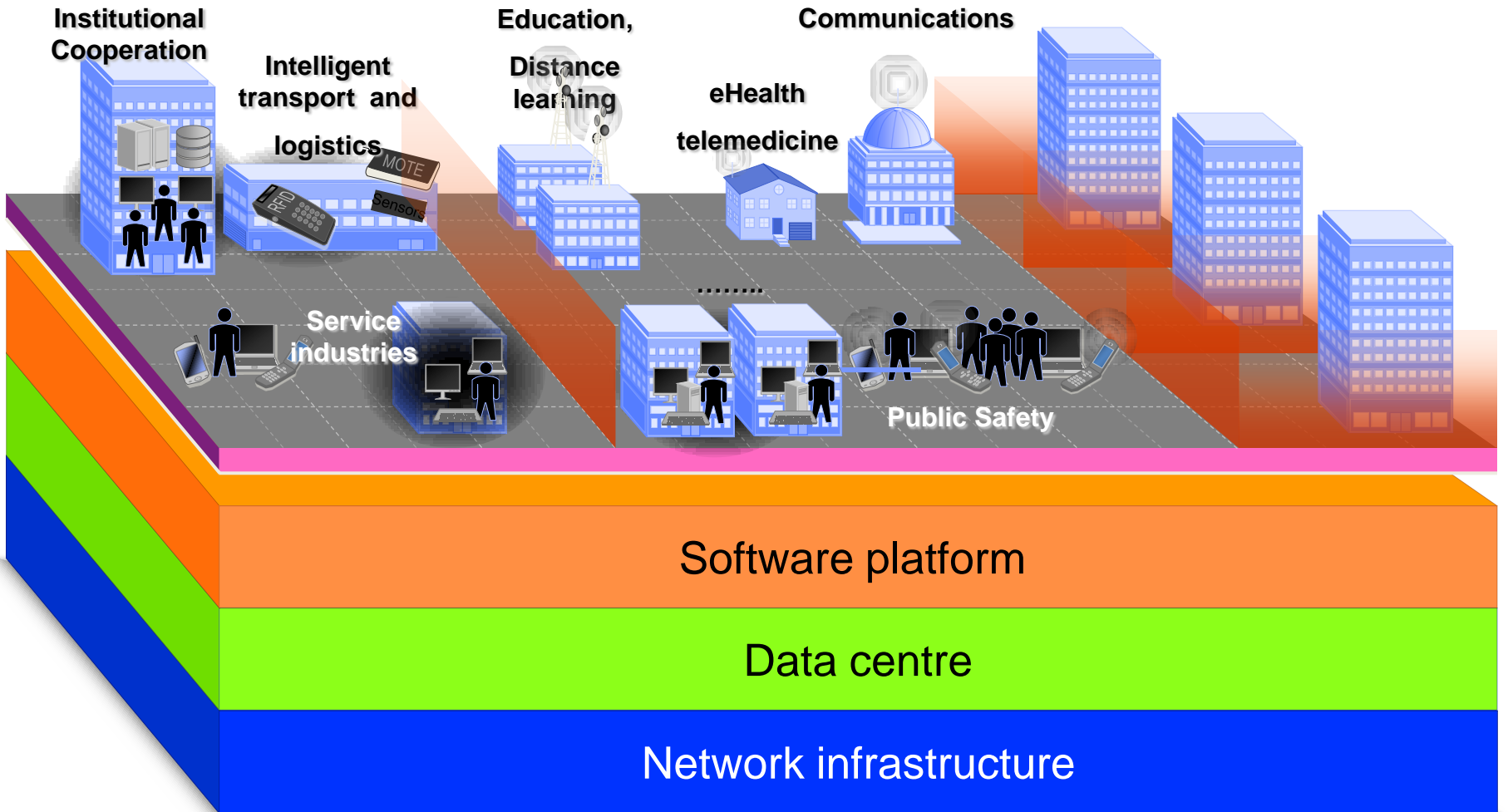
# ***Direct and indirect benefits from broadband availability II.***

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- Direct access to households
- Smart grid, smart metering solutions
- Property securing long term income
- Attract and keep businesses
- Attract and keep youth
- City e-mail system
- New opportunities in community forming
- IT „industrial park” solutions
- Increased property prices
- Optional participation in physical building and operation of the network
- Strengthening regional position
- E-shops
- VoIP telephony, conference calls

# ***e-City architecture***

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# Financing (?!)

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- Broadband network development
- eGovernment
- Supporting end users
  - **Digital Literacy Improvement Programme** – Internet access, e-mailing, etc. With the use of simple applications, IPTV adapter (STB) programmes, TV or monitor screen
  - **Programmes aiming distance learning and education** to improve labour market position and employment chances of citizens
  - **Telemedicine**, home-care and other eHealth programmes aiming at the improvement of citizens' way of life
  - Improving personal and asset safety in the framework of „Biztonságos Vásárhelyért” – „For a safer Hódmezővásárhely”
  - New opportunities for electronic local press and media
  - Fostering e-communications between citizens/businesses and municipality/government
  - Creating network conditions of energy saving, introducing smart-metering and smart-grid applications, creating conditions for strengthening consumer positions and energy commerce