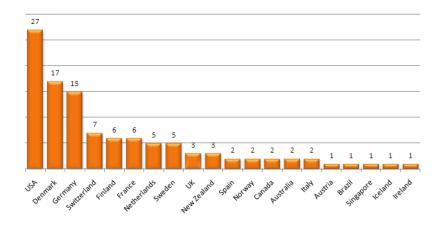
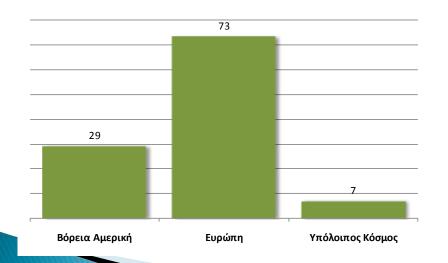
Myths & Realities

Costas Troulos InfoStrag Seminars Syros - 2010

The Identity of the Study





Statistical	City
	Country
Demographics /Coverage	Population
	Homes connected/passed
	Homes connected/passed (planned)
	Coverage Plan: Region/City
Deployment	Cost/Household
	Architecture
	Тороlоду
	Business Model
Public Involvement	Gov.MANs
	Policy
	Demand aggregation
	РРР
	Public participation in AO
	Public funding
	Со-ор
	Public Utilities
Private Involvment	Housing Firms
	Operators
	Consulting
	Banks

Objectives

- Analyze international best practices so as to conclude for the (lacking confidence) Greek case
- Identify the practical differences that make each case unique
- Do not focus only to the internationally acclaimed municipal projects; Identify the characteristics that can assist in developing broadband for Greece

Difficulties

- Collection and cross checking of available information and media coverage
- Assessment and identification of inherent biases
- Conclusions about what happens after the announcements
- The study is about only the case that municipalities have active involvement in FTTH/B/C projects

Municipal Broadband Infrastructures

- Local and regional initiatives
 - South Europe: Municipal cooperation regional plans (Greece, Spain - Xarxa Oberta, Pau)
 - North Europe & North America: Developing networks within the city limits (Sweden, North France, Netherlands, Burlington, Lafayette)
 - Rest of the world: limited activity in municipal FTTH
- Service mix

- The majority of cities offer open access and many offer unbundling
- North European cities (with electric utilities in participation offer triple play – not necessarily open access) – Germany, Denmark
- North America: Triple play & open access

International Evidence (I)

- Broadband becomes a part of political campaigns
- Financing of projects
 - North Europe & North America (Tax, Debt, Investment firms – private investor principle)
 - South Europe (EU state aid)
- Creation of national champions with international exposure
- Reactions from the telecom industry are strong and well articulated. EC is more friendly to municipal projects than FCC

International Evidence (II)

- Success factors
 - Municipal involvement is only a fraction of a broader plan
 - Cooperation with local organizations, universities, commercial associations etc. (Driving demand)
 - Solving the backhaul problem (E.g. National backhaul carriers (in France)
- Expansion strategies
 - North America & North Europe:
 - Pilot projects -> city coverage -> regional expansion
 - Synergies with public utilities
 - South Europe:
 - Delays: trying to apply a solution for an entire region
 - Expanding unconditionally the infrastructure by installing ducts on every occasion

The role of the private sector

- Real Estate Companies (driving demand)
- Public utilities (existing infrastructures economies of scope)
- Telecom operators (existing infrastructures economies of scale)
- Construction companies (technical knowhow)
- Investment Houses (financing)
- Incumbents (as an over taker do municipal networks end up to the hands of the incumbents?)

The Greek case

- The digital strategy has not yet achieved the anticipated social preparedness:
 - Low levels of digital innovation
 - Limited use of ICT from the citizens
- There is no appropriate framework to encourage ICT initiatives by the municipalities
- Greece is not lacking basic broadband infrastructures
- Municipal interest strongly expressed

Conclusions

- All that glitters is not gold
 - Amsterdam (a pilot project with limited penetration)
 - Denmark (broadband provided by electric utilities)
- Municipal initiatives are directly affected by the central and regional government's actions
- Main reasons shaping the local broadband strategies
 - Participation of electric public utilities
 - Regulatory framework geographical markets
 - Level of preparedness of both the private sector and the society
- International exposure is a "Good Thing"
- Dilemma: National network vs. interconnected regional networks



"Never underestimate the powers you are faced with" Municipal Project Executive

