



Municipal Wireless: *new opportunities for better city management*

Giorgio Prister
President of Major Cities of Europe
giorgioprister@yahoo.it

<http://www.majorcities.eu>

Major Cities of Europe: About us



We are an INDEPENDENT COMMUNITY of European Local Government CIOs
We leverage ICT to INNOVATE within the Public Administration
and SERVE our Constituents

- ✓ We are early adopters sharing our own experiences about
 - Leading edge solutions
 - Technologies
 - Business models...
- ✓ We exist since 1982
- ✓ Our members are selected among the innovative Local Governments (LG)
- ✓ Our members cover most European countries

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Workgroup on wireless of Large European Cities



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Municipal Wireless: solutions



– **What strategy?**

- Social s
- Efficiency
- Cit

- Addressing digital divide
- Tourism and culture
- E-government
- Digital communities
- Traffic management
- Nomadic civil servants
- Emergency management
- Services for SME
- VOIP

– **What services?**

- Public Private Partnership

– **What business model?**

- Municipal
- Hybrid
- EU regulations vs. Telecom

– **What Laws and Regulations?**

- Free vs. Charge

– **What costs and ROI?**

- Wi-Fi
- Wi-Max
- 3G
- Hybrid

– **What Technology?**

- Minimize and track the Electromagnetic impact

– **Electromagnetic and visual pollution?**

- Minimize visual pollution

Wi-Fi Barcelona:

Multiple projects with high synergy



	WIFI INDOOR	WIFI OUTDOOR	Citizens Wi-Fi	Private Citizens Wi-Fi
Sponsor	Municipality	Municipality	Municipality	TLC operators & ISPs
Target	Nomadic city-Workers Visitors	Mobile city workers & street devices	Citizens City visitors ?	Citizens
Zone	City Buildings	Street	City Buildings & parks	Street
Coverage	<u>2008</u> <u>2009</u> 28 buildings 58 buildings	<u>2008</u> <u>2009</u> - 2 % (pilot) - ??	<u>2008</u> <u>2009</u> <u>2010</u> - 100 spots - 200 spots - 200 spots	
Invest Costs	Municipality 150.000 €	Municipality • = 600.000 € pilot • = 9M€ whole city	• City financed • = 2.500.000 €	

Barcelona Wi-Fi Outdoor Services (some examples)



	Description	Benefits
PDA Mobile Access	<ul style="list-style-type: none">■ give them access to the Corporative Network and IT services	<ul style="list-style-type: none">■ Increasing the number of services■ Make VoIP possible
Cameras	<ul style="list-style-type: none">■ registry services and image processing:<ul style="list-style-type: none">– Video-surveillance– Artificial vision– Traffic measurement	<ul style="list-style-type: none">■ capillarity of cameras without Optical Fibre■ It enables mobile cameras services
Mobile voice	<ul style="list-style-type: none">■ deploy services of VoIP	<ul style="list-style-type: none">■ Reduction of all the costs

Remote sensors, Traffic lights regulators, Broad Band Connectivity

Barcelona: Benefits of the project



Economic

- **Less costs**
 - VOIP with PDA
 - Wi-Fi devices less expensive,
 - Wi-Fi instead of optical fibre

Productivity

- **More bandwidth** for mobile applications --- i.e cameras
- **More connected devices,**
- **Wider broadband coverage**
- **More flexibility and scalability** of the services

New services

- **For instance itinerant cameras**

Social

- **Digital divide, remote elderly support**
- **Pervasive municipality services.**

Birmingham: Wireless Roles



Mobile

- Housing
- Highways
- Field Forces
- VoIP
- Street Wardens
- Community workers

Fixed

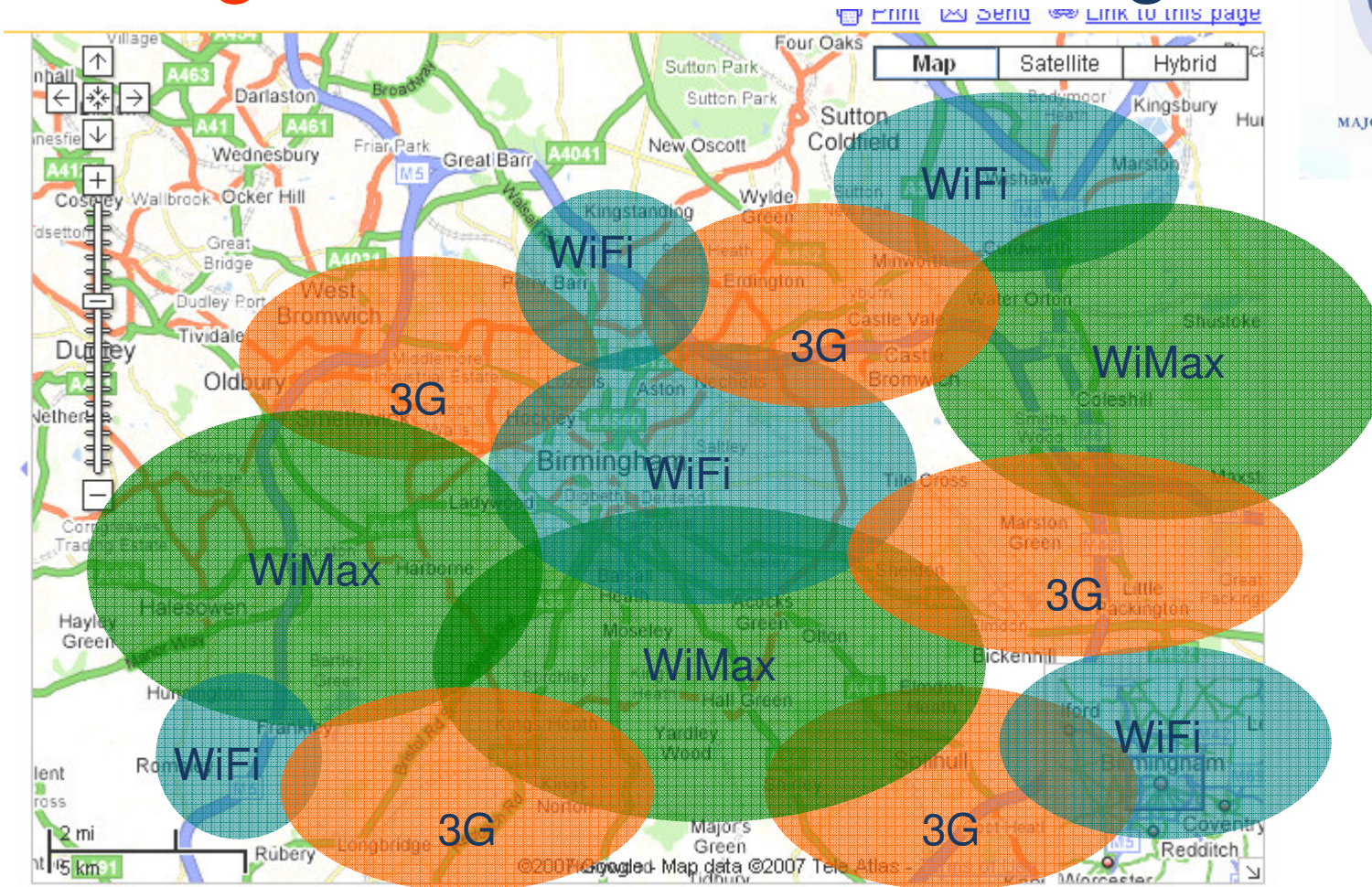
- Parking Meters
- Street lights
- CCTV
- Home BB
- ...

Nomadic

- Mobile CCTV
- Events
-



Birmingham: Wireless Coverage



Creating a collage of coverage to provide a foundation to deliver

digitally active and confident people

transforming public sector services

anytime access going global

anywhere, anytime access

exploiting the benefits

transforming public sector services

transforming public sector services

transforming public sector services

Birmingham: Information at your fingertips




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- Getting about

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Jobs

My Council & Advice Lines

Learning

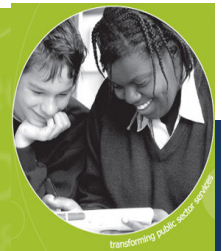
digitally active and confident people

transforming public sector services

anywhere, anytime access

exploiting the benefits

influencing & shaping policy



Municipal Wireless in Europe



FOR MORE EUROPEAN EXAMPLES
AND INFORMATION



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Giorgio Prister
giorgioprister@yahoo.it

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