TELECOM ITALIA GROUP

Policy Forum of the IKINET Project Regional "Competence Centres" and European Knowledge and innovation networks: an international comparison of innovation cluster policies.

Roma, September 19-20, 2007

Theme 3. How to promote an effective governance of networks of competence Centres:

- Digital Divide: the "Broadband Divide" generations

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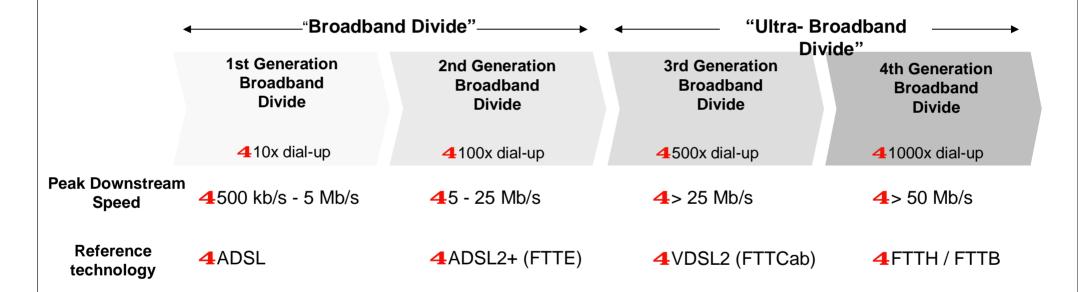
Agenda

- 4 Get over Digital Divide
- 4 Telecom Italia broadband strategy: the NGN2 project
- 4 Services: first wave on new digital applications for Consumer and Business



Digital Divide: the "Broadband Divide" generations

Distinctive "Broadband Divide" generations, in relation to tech evolution and network deployment:



4 Different "tech innovation waves" allow gradual services delivery with non-homogeneous deployment in terms of access and adoption.





Get over the Digital Divide in Italy

Telecom Italia target for ADSL Coverage (based on a total of 26 Mln eq. telephone lines):

4 At the end of 2006: 89,4 %

4 At the end of 2007: 95 % (expected)

4 At the end of 2008: 98 % (expected)

To reach this objectives and get over the First Generation of Broadband Divide, Telecom Italia has defined a specific "Anti Digital Divide Project" which is based on:

Continue the **basic evolution ADSL coverage plan**, based on <u>"Full DSLAM"</u> technical solution and following market demand and economic objectives.

Costs reductions, using the "Mini DSLAM" + nx2Mbit/s backbone technical solutions, specifically conceived for Small COs, in area of non economic convenience, and with lower potential target customers.

New forms of collaborations with Public Entities:

- Contributions, according to European Commission principles;
- 4 Collaborations and Agreements to stimulate the broadband services demand and develop new ICT initiatives





NGN2 Projects: motivations and drivers

Network Status:

- 4 Increasing Capex& Opex to face network obsolescence and inertial evolution
- 4 Not enough bandwidth for launching future bandwidth hungry services (media, ICT, ...)
- 4 Physical saturation effect: the Broadband lines to copper cable lines ratio is close to its physical upper limit (50 to 60%)

Tech Drivers

All-IP as unifying tech choice, to simplify, flex and reduce cost structure

Ultrabroadband access: from copper to fiber

Traditional switching network obsolescence: migration to IP-based systems and solutions

Market Drivers

Answer to continuous growth of bandwidth needs to **support content-based services** (e.g. multiple play, broadband mobile)

Enabling new scenarios for ICT applications and services (e.g. IT managed services, Home control and Automation, e-Health)



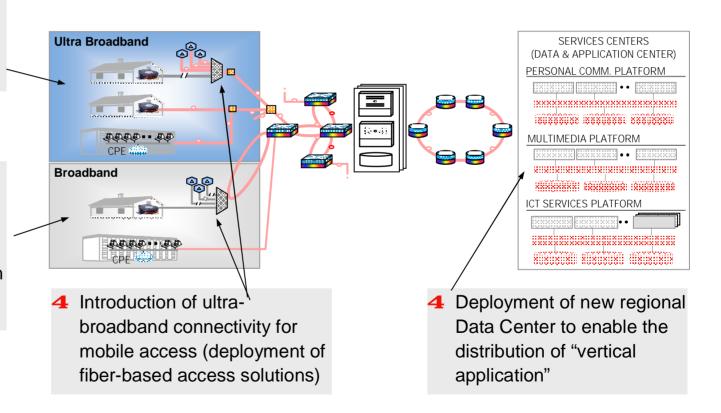


NGN2 Project: key milestones

Massive introduction of Fiber (FTTx) in the access network & installation of VDSL2 technology

4 Strong push on ADSL2+ / 3-Play (FTTE) platform deployment to be ahead of FTTx's time and to eliminate the 1st Generation Digital Divide Implementation of "Full-IP" network

Progressive full migration to ToIP starting from 2009



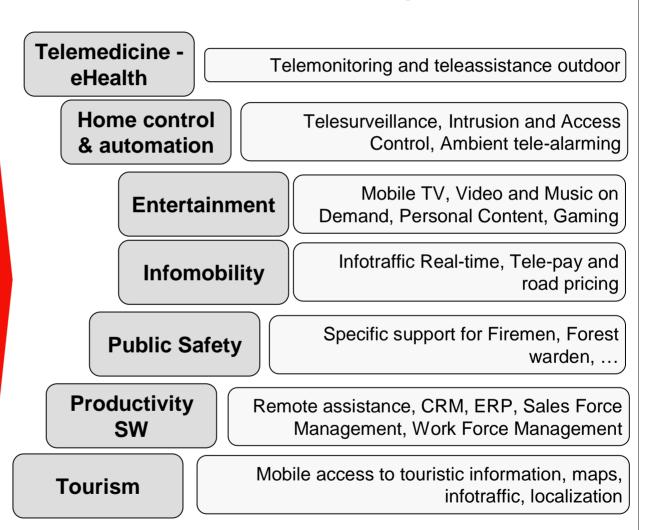




New Digital Applications and Services for families and enterprises

4 Create the conditions to develop new business models and paradigms based on broadband

4 Stimulate the demand of new digital services ("not only e-mail and chat")

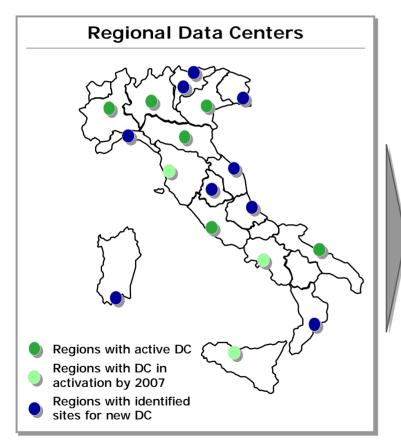


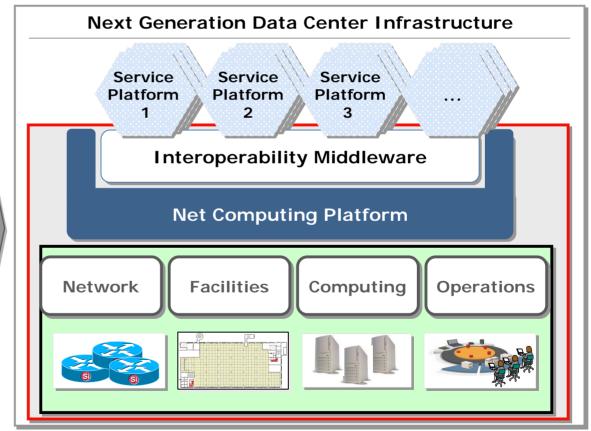




Net Centric Platform

An innovative approach to host and provide IT services, using specific "Regional Data Centers".









Thank You



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