


ITU-D Regional Development Forums 2010 on NGN and  
Broadband for the Arab Region  
“NGN and Broadband, Opportunities and Challenges”



Cairo, Egypt, 13-15 December 2010

## *Universal Service Broadband Opportunities and Challenges*

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# DIGITAL AGENDA FOR EUROPE

N. Kroes' EU Commissioner message on Digital  
Agenda for Europe

## “Every European Digital”

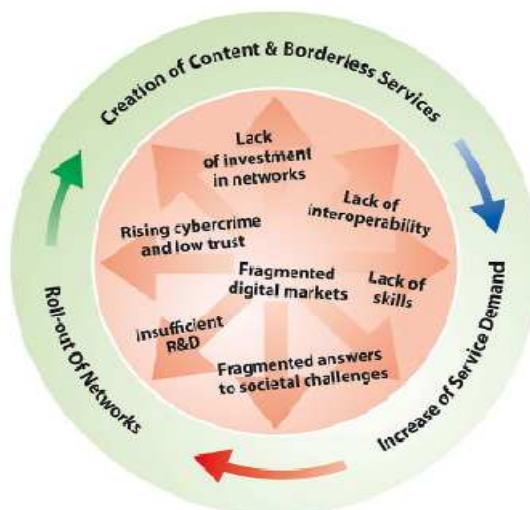


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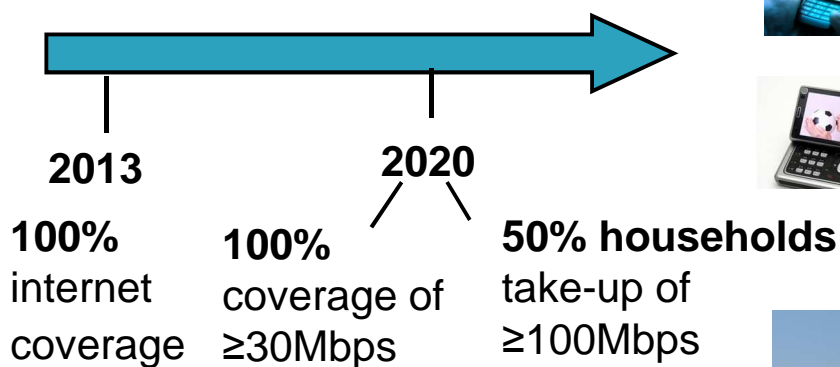
DIGITAL AGENDA FOR EUROPE identified seven most significant obstacles



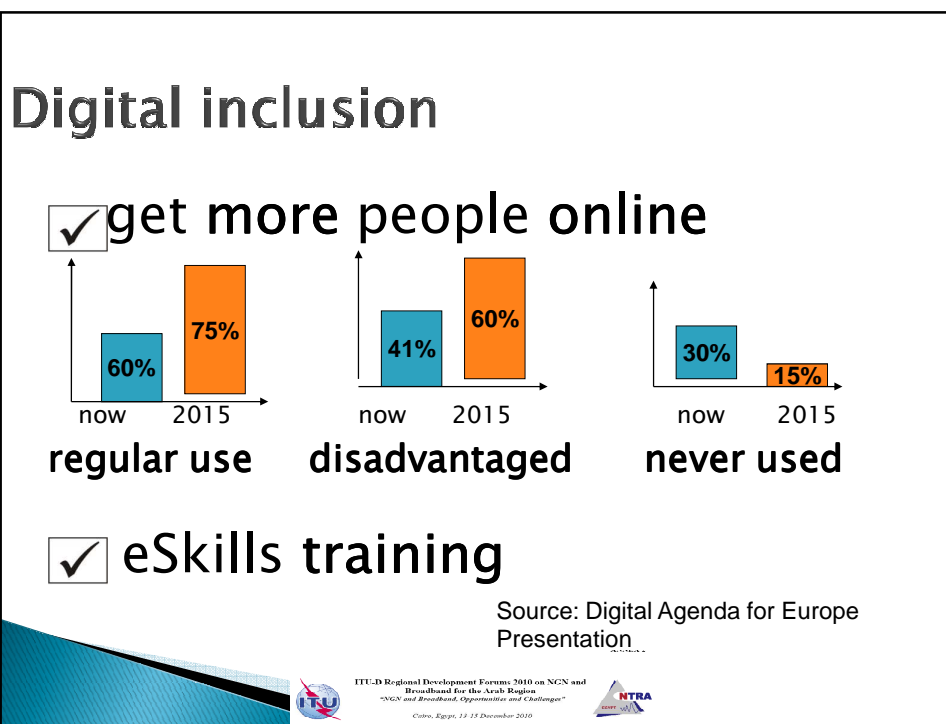
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The Europe 2020 Strategy has underlined the importance of broadband deployment to promote social inclusion and competitiveness in the EU.

## Internet for all



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## Fast and ultra fast internet access

*We need very fast Internet for the economy to grow strongly and to create jobs and prosperity, and to ensure citizens can access the content and services they want*

The Europe 2020 Strategy restated the objective to bring basic broadband to all Europeans by 2013 and seeks to ensure that, by 2020, (i) all Europeans have access to much higher internet speeds of above 30 Mbps and (ii) 50% or more of European households subscribe to internet connections above 100 Mbps.

Two parallel goals:

- **To guarantee universal broadband coverage** (combining fixed and wireless) with internet speeds gradually increasing up to 30 Mbps and above
- **To foster the deployment and take-up of next generation access networks (NGA)** in a large part of the EU territory, allowing ultra fast internet connections above 100 Mbps

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## US POLICY – BROADBAND POLICY

- ▶ **A clear Government strategic vision** on how it will realize its vision of a broadband that leaves no-one behind and which will help to secure the economic and social future of the country
  - HOW TO ENSURE THAT BB ACCESS IS AVAILABLE?
- ▶ **National information society strategy**
- ▶ **National broadband strategy**
- ▶ **US Policy**
  - **Clear Mechanism for investment**
  - **Business risk**



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## EU Universal Broadband Service Policy

- ▶ Common framework within which EU and national policies should be developed
- ▶ **National, EU and EIB funding instruments should be used for well targeted broadband investments in areas where the business case is currently weak**
- ▶ **Wireless broadband – access to radio spectrum**
- ▶ **Efficient spectrum management, by mandating the use of certain digital dividend frequencies for wireless broadband by a fixed future date, by ensuring additional flexibility (also allowing spectrum trading) and by supporting competition and innovation.**



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## Public investment in Europe

| Country | Official strategy | Measurable targets | Public investment | Target rate    |
|---------|-------------------|--------------------|-------------------|----------------|
| FRANCE  | YES               | YES                | €1 bil/year       | 0,5 Mbps (USO) |
| FINLAND | YES               | YES                | € 130 mil by 2015 | 1Mbps (USO)    |
| UK      | YES               | YES                | €170 mil/year     | 2Mbps (USO)    |
| GERMANY | YES               | YES                | €170 mil          | 50 Mbps        |

SOURCE: CULLEN INT. TELECOM ARENA, ZAGREB 2009

## USA

- ▶ In 2009 godine, ***American Recovery and Reinvestment Act*** :
  - investment of the 7,4 billion US\$ from USA Budget to provide broadband access for rural areas
- ▶ In 2010 FCC create National Broadband Plan for 2020:
  - directs up to \$ 15,5 billions of public investment to improve broadband connectivity and to equip most of household with min 100 Mbps



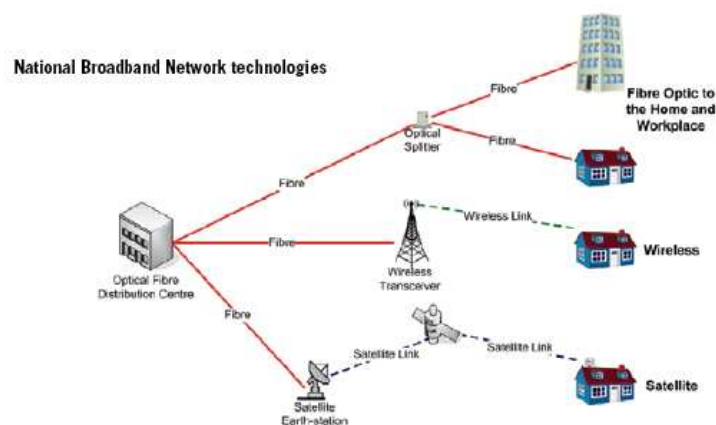
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# AUSTRALIA

- In early 2009, the Australian government announced a revamped National Broadband Network
- To be established with initial Government funding (\$4.3 B. AUD) with the ultimate bill of \$43 Billion AUD, with 49% funding and ownership from the private sector
- FTTH to 90% of the population (by households)
- Wireless to 10% of the population (by households)
- “NBN Co” was the company formed by the government to build and operate the network

## Technologies in Australian NBN



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## SITUATION IN DEVELOPING COUNTRIES

- ▶ LOW BB PENETRATION
- ▶ LACK OF INVESTMENT FOR RURAL AREAS IN GENERAL (PUBLIC AND PRIVATE)
- ▶ LACK OF SKILLS
- ▶ ....
- ▶ NEED TO KEEP STEP AND DEVELOP KNOWLEDGE ECONOMY



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## China, India, New Zealand, South Korea

- ▶ (*China's Recovery Plan* foreseen 4000 billion RMB (~ \$ 600 billions) in period 2009 – 2010 including main industrial programs)
- ▶ *India National Backbone by 2013* will have broadband for 90% of population
- ▶ *New Zealand Broadband Investment Initiative* from 2009. plan investment for broadband of 1.5 billions NZ\$
- ▶ South Korea, Public-Private Partnership, investment of the € 750 Millions in 5 years with target rate of 1000 Mbps



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## HOW TO PROVIDE PUBLIC /PRIVATE INVESTMENT FOR US BROADBAND IN DEVELOPING COUNTRIES

- ▶ National plans for broadband
- ▶ Public Private Projects
- ▶ Clear licensing requirements for IMT 2000 for coverage of rural areas, application of spectrum efficiency policy, digital dividend
- ▶ Creation of US broadband policy with defined action plan



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## SITUATION IN SERBIA

- ▶ BROADBAND PENETRATION 9,2%
  - FIXED
  - WIRELESS
- ▶ In 2009:
  - Internet connectivity had 36,7% households,
  - 22,9% households had broadband
  - 46,8% households had computer (20,3% more then in 2006)
  - Digital gap between urban and rural (56% in urban 33,6% in rural)
  - The grow rate per year 8,5% in urban and 2,4% in rural
  - US service based on functional Internet (up to 56 kbps)
  - US OPERATORS DESIGNATED
    - Incumbent fixed operator and FWA operator
    - Mobile operators
  - US FUND IS NOT ACTIVATED
- ▶ Lack of basic infrastructure



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## EXAMPLE OF SERBIA: DIGITAL AGENDA FOR SERBIA

- ▶ Announce by Minister of Telecom and Information Society
  - Strategy for e-communications 2010–2020
  - Strategy for Information Society 2020
- ▶ Strategy for broadband 2009–2012 to achieve 20% of broadband penetration (today 9,2%)
- ▶ Supported by new e-communications law
- ▶ USO as broadband is not discussed



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## CONCLUSION:

### BROADBAND POLICY = US POLICY

- ▶ **PROPOSAL FOR US BROADBAND POLICY**
  - **US BROADBAND PROJECT**
  - Make a detailed overview of the situation of telecom infrastructure and telecom service provisioning in the whole territory of the country to defined sustainability and affordability
  - Create recommendations for US broadband implementation
    - Public Investment
    - Local initiatives on PPP
    - Development of skills and trainings
- ▶ Public discussion
- ▶ Designation of US Broadband Operator(s)
- ▶ Follow up of US Broadband implementation



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**THANK YOU FOR YOUR  
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