



HAKOM

EUROPEAN DIGITAL AGENDA: A CROATIAN PERSPECTIVE

CROATIAN POST AND
ELECTRONIC COMMUNICATIONS AGENCY
- HAKOM -

Brussels, 13th of December, 2011



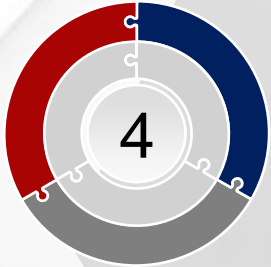
CROATIAN MARKET



- ❖ Market in Croatia is still growing with many opportunities,
- ❖ Fast acceptance of the new technologies in mobile networks,
- ❖ Regulatory environment encourage convergence,
- ❖ Many ported numbers in both wireline and wireless networks,
- ❖ Fixed broadband access density still below EU average,
- ❖ Mobile broadband in Croatia is above EU average,
- ❖ Analogue television switchover performed in October, 2010.,
- ❖ Digital dividend creates many new opportunities,
- ❖ High potential for multi-media services,
- ❖ Lack on operators' investment in new infrastructure,
- ❖ Several projects and subvention programs have been started.



HAKOM's STRATEGIC GOAL #4 (2012-2016)



Digital Agenda

Support broadband ecosystem implementation;

Support broadband access growth;

Support universal access (30Mbit/s);

Promote e-sign and e-business;

Promote e-commerce;

Promote Pan-European contents and services;

Prepare for EU roaming;

Harmonize numbering and addressing.

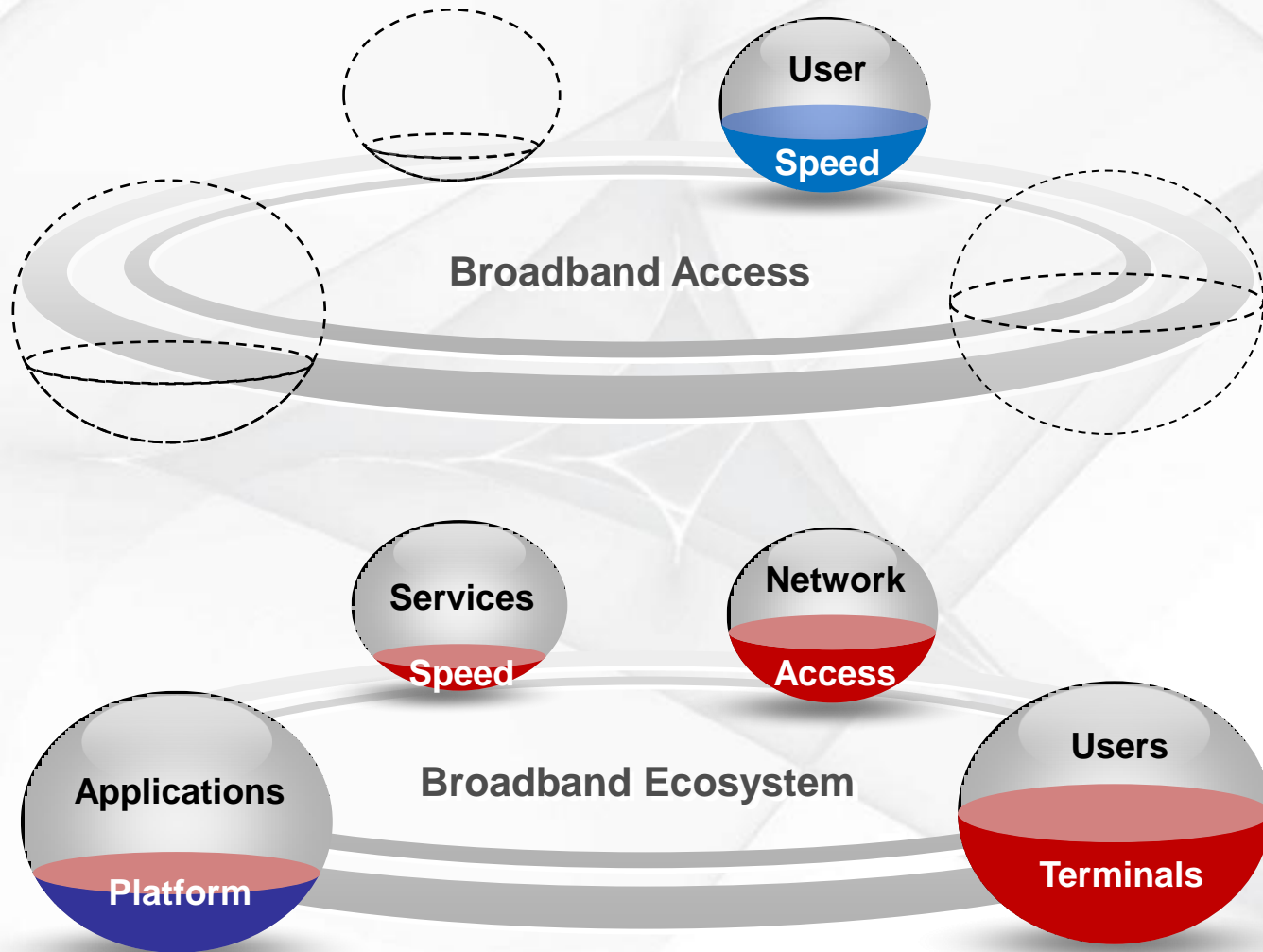


BROADBAND ECOSYSTEM



- Further growth of broadband access density, especially in rural areas and on the islands,
- HAKOM's aid program over 5 years and with more than 100 000 000 kuna for rural broadband ecosystem development,
- Close cooperation with local authorities, municipalities, schools and institutions for primary health,
- Technology neutrality – LTE, HSDPA, WiMax, FttH, xDSL, CaTV,...
- IPv.4-2-IPv.6 project in cooperation with e-Croatia and CARNet.

BROADBAND ECOSYSTEM—HAKOM'S AID PROGRAM

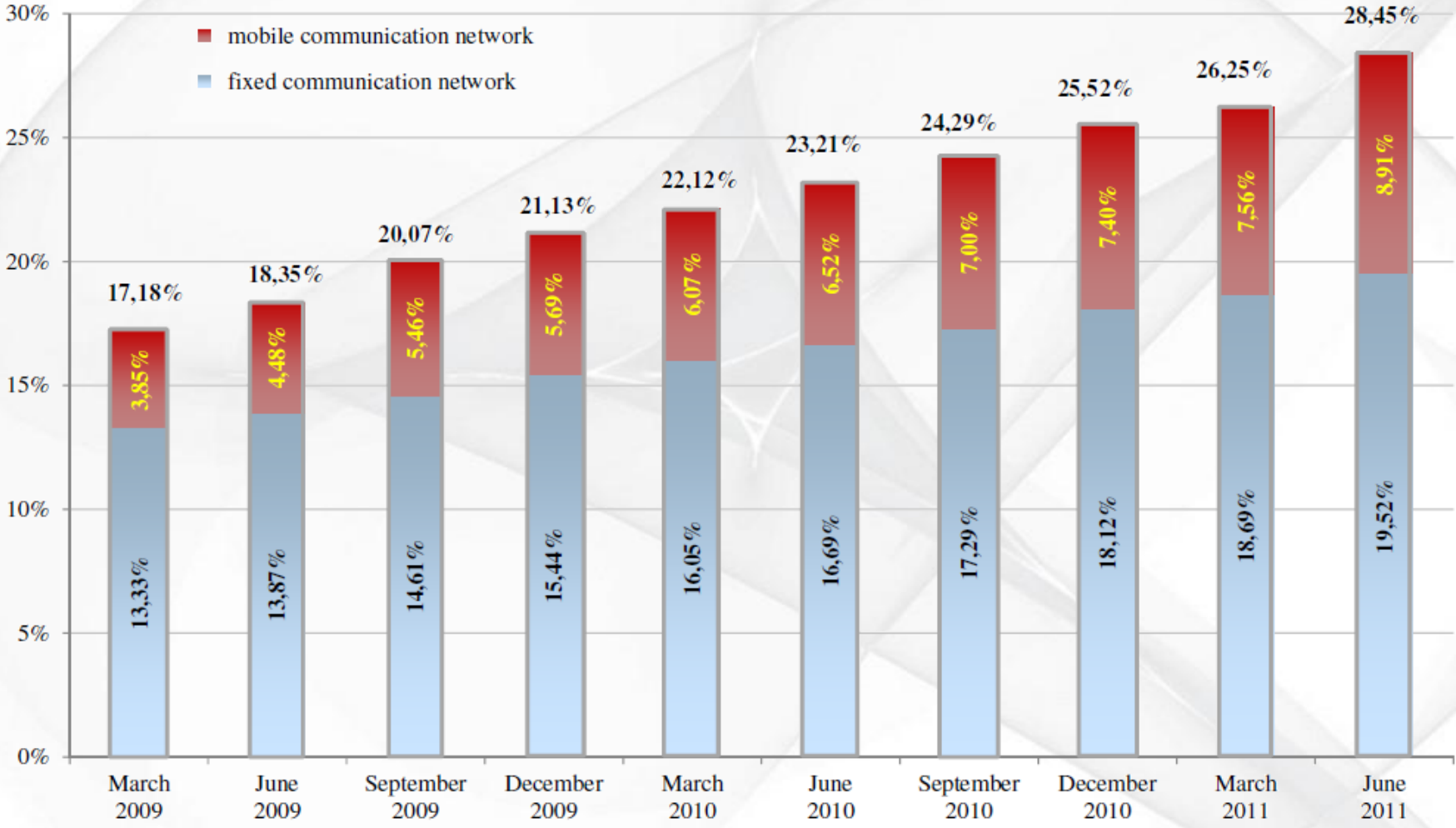




DENSITY OF INTERNET BROADBAND ACCESS – Q2 2011




ABOVE EU AVERAGE IN MOBILE NETWORKS, BUT BELOW IN WIRELINE






HAKOM's e-AGENCY






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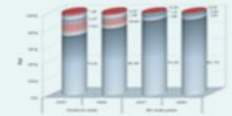
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Market survey



Users:

Username:

Password:


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PHARE CARDS IPA


Highlight:

Većernji list issue of 1st July - HAKOM publishes leaflet: Instructions and advice for users of electronic communication services

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Recommendation on minimum receiver technical requirements for the reception of DVB-T and DVB-T2 signal in the Republic of Croatia. 13.9.2011.

- [Workshop on Electronic Communications for Administrative and Misdemeanour Court Judges, 2.9.2011.](#)
- [Assignment of additional radiofrequency spectrum to Vipnet d.o.o., 30.6.2011.](#)
- [Monthly limits – another cost-control option for public communications service users, 16.6.2011.](#)
- [HAKOM introduces new web service "e-Vessels", 13.6.2011.](#)


Contact us:



We will try to provide an answer to your question within our competence as soon as possible. We ask for your patience as some of your questions might require information gathering and longer analysis by our experts.


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DIGITAL DIVIDEND



- ✚ Croatia is one of the first 15 countries in the world and the first one in the region who successfully performed digital television switchover,
- ✚ Frequency band 790 – 862 MHz is free for use thus setting a solid base for introduction of LTE based multi-media services in the rural areas,
- ✚ Use of digital dividend in Croatia for mobile telecommunication services is one of the engines to take national economy from recession,
- ✚ Italy illegally uses Croatian frequencies, including some in the frequency range of 790 – 862 MHz (digital dividend),
- ✚ „Frequency pollution” from Italy blocks use of digital dividend in Croatia, especially on the coast, thus blocking mobile operators to invest,
- ✚ Digital dividend can't be used on all Croatian territory, as our neighbors still broadcast analogue tv-signal in the frequency range of digital dividend.



CONCLUSION



- ❖ Electronic communications are one of the most vital branches of Croatian economy,
- ❖ There is still a high growth potential, especially in broadband ecosystem: network, access, applications and services,
- ❖ Broadband ecosystem is prerequisite for economical growth and quality of life,
- ❖ Digital agenda is one of the main HAKOM's strategic and operational goals,
- ❖ Italy's dishonest behaviour can jeopardize progress of digital agenda in whole region,
- ❖ Plan and activities in whole region have to be harmonized and synchronized,
- ❖ Both governments and NRA should find the ways to accelerate investment in broadband ecosystem and digital dividend



HAKOM



**THANK YOU
FOR YOUR ATTENTION !**

**Dražen Lučić, Ph.D.
Executive Director**



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