

Case Study: BiH

Present Situation in BiH broadband market

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BiH Telecommunications Market

☐ Institutional framework

- ➤ Council of Ministers BiH
- Law on Communications
- ➤ Telecommunications Policy Sector Framework

☐ Telecommunication Licences

- ✓ GSM, UMTS operators
- ✓ Fixed telephony, Fixed telephone servises
- **✓** ISP
- ✓ Network opetarors





BiH Market Overview/ Mobile

- Mobile telephony
- ✓ Three operators



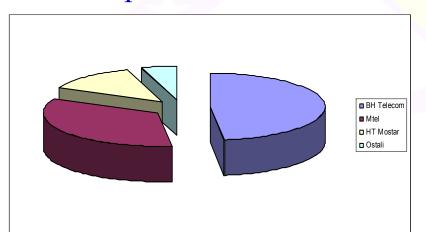
- ✓ Number of subscribers in 2014- 3,5 Million
- ✓ Penetration in 2014- 90,87%

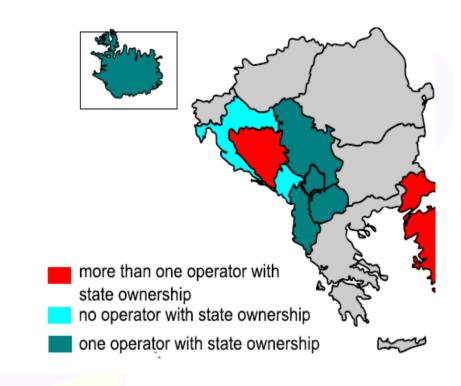




BiH Market Overview/Fixed

- Fixed telephony
- ➤ 3 SMP operators
- ➤ 13 ops with Licence for fixed phone services









BiH Market Overview/Decision Making

	HR	IS	MK	ME	RS	TR	AL	ВА	XK
Carrier selection/ pre-selection	✓	1	1	✓	X	✓	✓	✓	X
Fixed number portability	✓	1	1	✓	X	✓	1	✓	X
Mobile number portability	1	✓	1	✓	1	1	1	1	X
Fixed Reference Interconnection Offer	✓	1	1	✓	✓	✓	✓	1	✓
Reference Unbundling Offer	✓	✓	✓	✓	✓	✓	✓	✓	X
Wholesale broadband access	✓	1	1	1	1	1	1	X	X
Wholesale line rental	✓	✓	1	1	X	✓	X	X	X
Mobile Reference Interconnection Offer	1	1	1	✓	✓	1	✓	✓	x
National roaming	✓	✓	1	✓	✓	X	✓	✓	X
MVNO/SP access	1	✓	1	✓	1	✓	1	X	✓

Legend: √- available/regulated X - not available

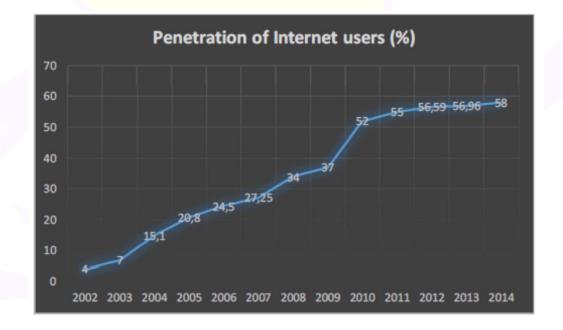
Source: 2014 Cullen International Competitive Report





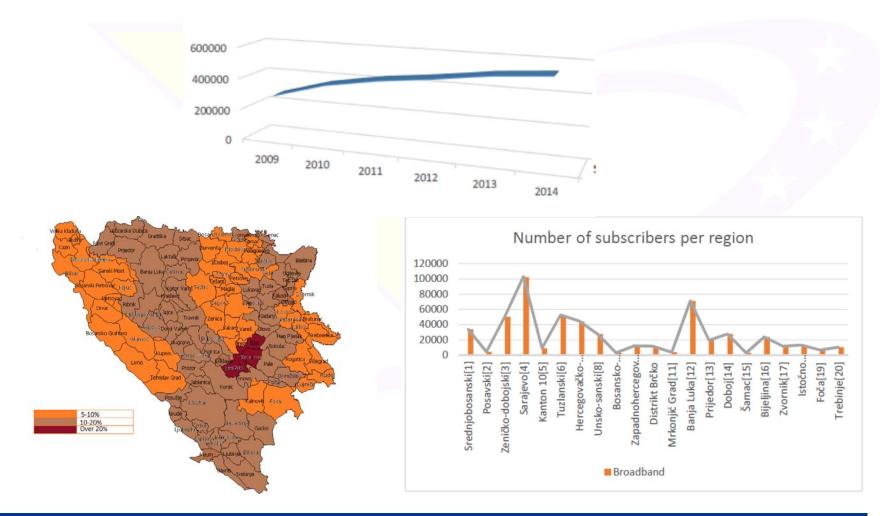
Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Number of ISP										
operators	42	52	60	66	77	75	80	75	69	70

Table: Number of ISP licences (2005-2014)





Number od broadband subscriptions

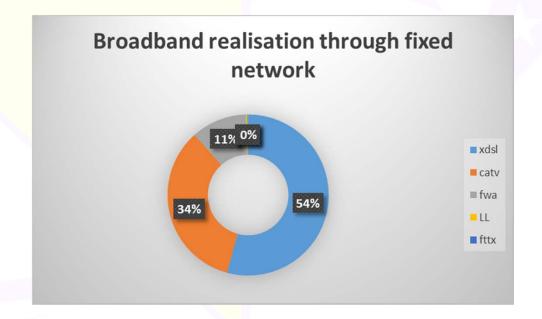






Broadband realisation through fixed network:

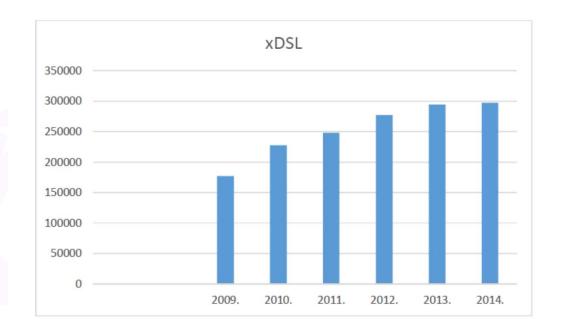
- xDSL 54,20%
- Leased Lines 0,23%
- CaTV 34,20%
- FWA 11,20%
- FTTX 0,08%







	2009.	2010.	2011.	2012.	2013.	2014.
Broj xDSL priključaka	177.554	227.261	248.006	277.295	294.505	297.245

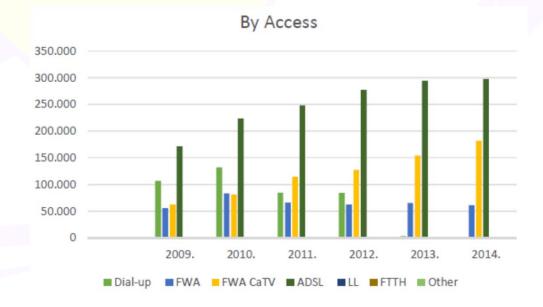






• Subscription rate by access type in BiH (2009-2014)

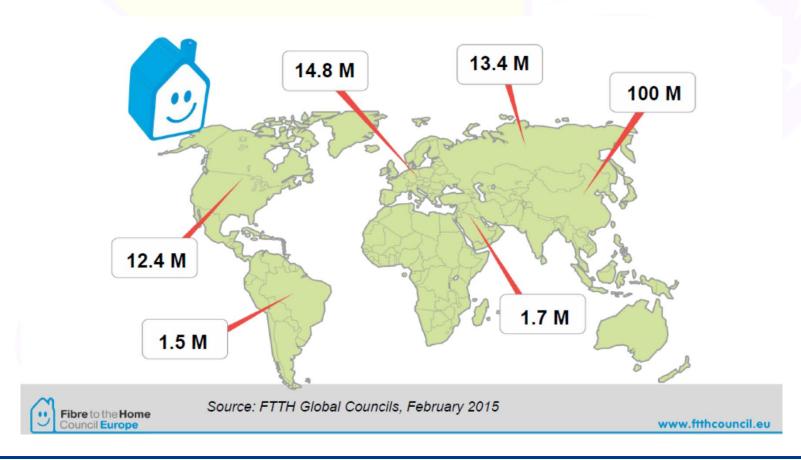
Source: operators reports







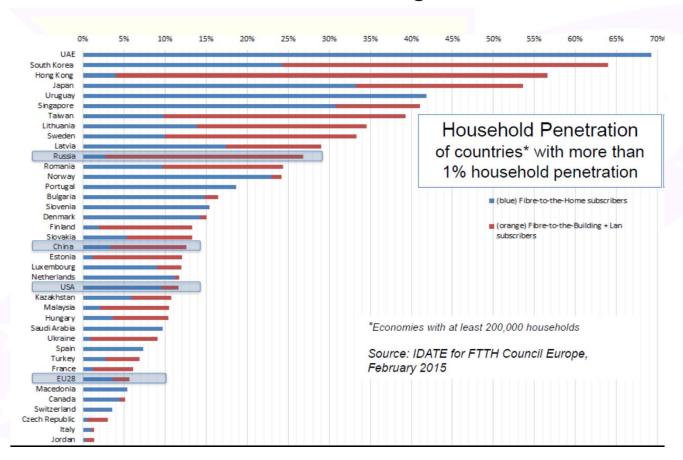
FTTH Global Panorama end 2014-total subscribers







FTTH Global Ranking- end 2014







BiH Market Overview/Network Upgrade

- Technology upgrade concerning
- Optimal solutions
- > Minimal investments
- > Exploatation of existing network





BiH Market Overview/Network Upgrade

Operator's choice:





- Parameters: population density, urban or suburban, residental or business
- 30% of internet subscribers go for new services





Conclusion

It is undeniable that implementation of new technologies are taking big steps forward in Bosnia and Herzegovina. There is no doubt that BiH operators will follow the technology progress but market size, economy situation and policy making structure will certainly influence investments in new technologies as well as the speed of implementation of new services.

The Agency is ready for implementation of Telecommunications Policy Framework.





Thank you

