



Digital dividend in Serbia

Milena Jocić Tanasković

Sector for Electronic Communications and Postal Services
Ministry of Trade, Tourism and Telecommunications, Republic of Serbia

Regional Seminar for Europe and CIS
on Spectrum Management and Transition to Digital Terrestrial Television Broadcasting
March 2016, Bucharest



Republic of Serbia
Ministry of
Trade, Tourism
and Telecommunications

Presentation overview

- Frequency channels used for broadcasting
- Digital dividend 1
- Digital dividend 2



Republic of Serbia
Ministry of
Trade, Tourism
and Telecommunications

Frequency channels for 3 MUXs

Allotment	MUX 1	MUX 2	MUX 3
Vršac	25	31	37
Subotica – Sombor	40	43	29-34
Kikinda	32	55	29
Čot – Venac	24	30	41
Avala	22	28	45
Rudnik – Crni Vrh	26	29	35
Tupižnica	22	25	28
Tornik – Ovčar	23	36	39
Deli Jovan	23	43	41
Besna Kobila	35	39	43
Jastrebac	27	38	42
Kopaonik	24	32	34
Cer – Maljen	32	34	37



Republic of Serbia
Ministry of
Trade, Tourism
and Telecommunications

Digital dividend 1

- Survey on Digital Dividend Exploitation Possibilities in the Republic of Serbia prepared by the Ministry in 2013
- The document consists of characteristics of Serbia in the field of electronic communications, review of the development of digital television and mobile broadband systems with special emphasis on the needs and interests of end users and providers of audiovisual and mobile electronic communications services
- Recommendations concerning the use of 800MHz band in Serbia are also part of this Survey



Republic of Serbia
Ministry of
Trade, Tourism
and Telecommunications

Digital dividend 1

- Two Rulebooks adopted by the Ministry:
 - Rulebook stipulating the Radio Frequency Allotment Plan for Operation in the Frequency Bands 791-821/832-862MHz, August 2014
 - Rulebook on Minimal Conditions for the Issuance of the Individual License for the use of Radio-Frequencies upon the Completion of the Public Bidding Procedure in the Frequency Bands 791-821/832-862 MHz, August 2015



Republic of Serbia
Ministry of
Trade, Tourism
and Telecommunications

Digital dividend 1

- Spectrum of the “digital dividend 1” has been offered to operators for further enhancement of the mobile broadband
- Public bidding procedure was carried out by RATEL, in November 2015
- All 3 mobile operators providing services in Serbia obtained 2x5MHz blocks
- Total price: 105.053.111 EUR



Republic of Serbia
Ministry of
Trade, Tourism
and Telecommunications

Digital dividend 2

- DD2 freed up, except one channel in Kikinda allotment in the north part of the country
- How?
 - Good choice of broadcasting and compression standard
 - SFN network type based on IP/MPLS technology
 - Regional insertion of programs (no local MUXs)



Thank you for your attention!

milena.jocic@mtt.gov.rs