

## Serbia Broadband - Srpske Kablovske Mreže

Presentation for the Belgrade Business Breakfast Predrag Djurdjevic, CTO

November 2008

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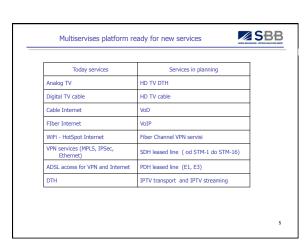
SBB



- SEEF I (South East Equity Fund), investment in 2002
- Mid-Europe Partners (equity fund) is new major owner of SBB.
- SBB has 700 employees and are placed in 26 towns with Cable-TV network.
- In February 2007 RATEL stated that SBB is Significant Market Player in distribution of CATV broadcasting.
- Broadband Internet from the end of 2002.
- DTH service from the May 2006.
- In Mid October 2007 SBB started to deliver Digital TV on Cable D3 service.

## SBB growth 2000 - 2007 2000 - foundation of the company KDS Kragujevac 2001 - 2 business units, 109 employers 2003 - 20 business units, 198 employers 2004 - 22 business units, 452 employers 2005 - 24 business units, 573 employers 2005 - 25 business units, 661 employers 2007 - 26 business units, 614 employers 3006 - 25 business units, 614 employers 3007 - 26 business units, 614 employers 3007 - 26 business units, 614 employers 3007 - 30 business units,

## Increase number of Subscribers. May 2002 – 2000 subs. Build-up small Head-ends. Build-up small Head-ends. Instalation of the coaxial last-mile connections. Build the Network: Technical objectives – Year 2002 Fully thwo-way Broadband networks HFC - Hybrid Fiber-optic Coaxial design Large deployment of optical cables Optical HUB-s replace smal Head-ends Fiber Nodes serves up to 1200 HP subs, radius max 2km Up to four line amplifiers in cascade EuroDOCSIS 1.1 standard for Cable Internet Two networks in one physical network Green - HFC for Video services and Cable internet Blue - Optical Metro ETHERNET Build the Network: Technical objectives - Today Deep Fiber Nodes - 400 subs per node FFTIX, curt, building, business 100 Cable Moderns per Node, more BW in the DS EURODOCSIS 3.0 Disconsider CVDM in Backbone and Metro applications MDLS Multi-service platform ready for new services

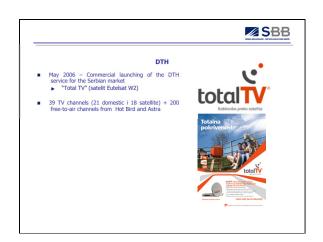


Content creation
Market was under-developed
Content was unlegally distributed
Billing and charging from the subscribers was veru difficult
First contacts with content owners
S8B become leader of innovation in content delivery and content creation
S8B maximise its positioning of services, on the basis of good content and QoS

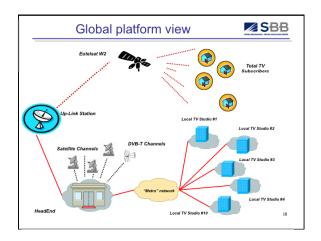
Service creation, service agility and accelerated service Innovation
Analog TV, Pay Tv, IPTV transport, IP DOCSIS services, L2, VPN, ADSL, Digital TV services, DTH services.

Future drivers
Delivering Video services over broadband as a killer application
Video content explosion,
HDTV
"My services" on "My time" (VoD, set-top +DVR. Shifted TV),
Personalized advertising
Blended services: for Millennial Generation, Social TV, Sport, Film, Entertainment, etc.

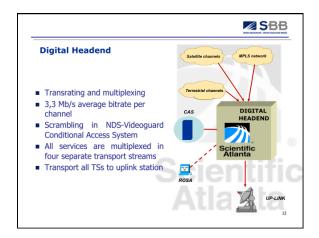


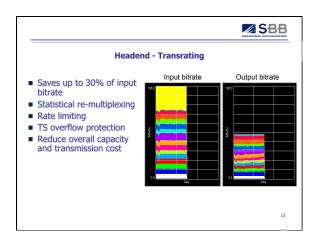


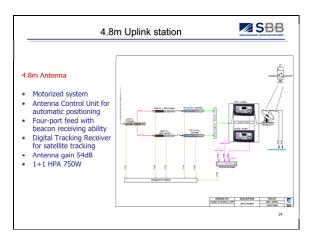


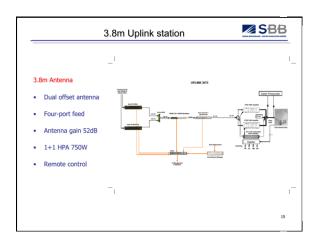


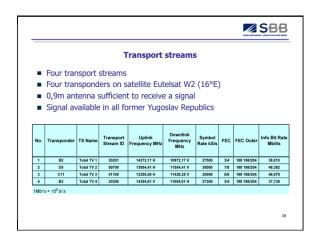


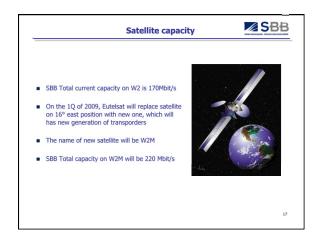


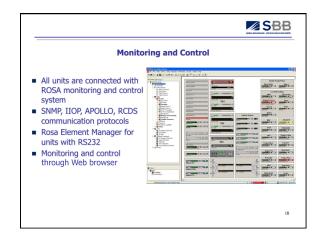






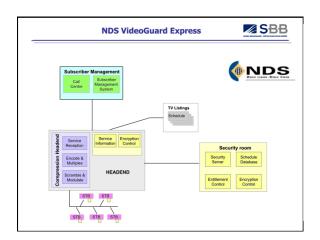


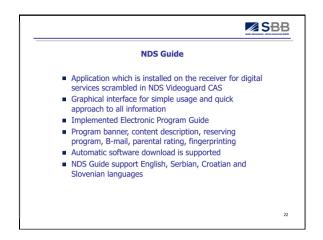




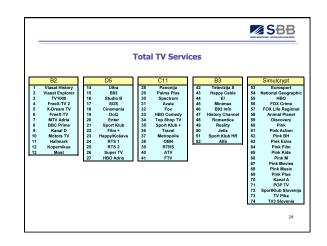


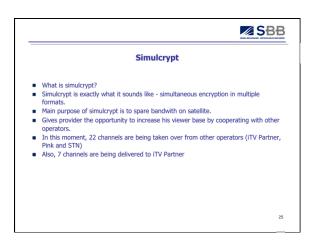


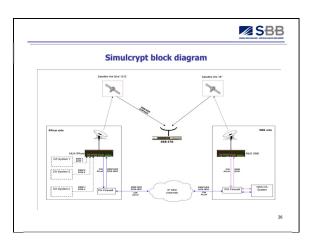












SBB – Regional DTH Operator

Total TV - BiH

SBB has installed equipment in Banjaluka and Sarajevo in order to contribute signal of Bosnian TV cannels to Belgrade headend.

Multiplexing equipment is placed in ATV master studio in Banja Luka from where is sent over 20 Mb/s L2 VPN link to Belgrade headend.

Fiber optical link from RTRS studio to ATV master (iLynx BB encoder/decoder).

FTV and Alfa TV signals are encoded at studios and sent over IP from Sarajevo to ATV master in Banja Luka

All equipments in Banjaluka and Sarajevo are remotely controlled and monitored from Belgrade

Existing satellite contribution over Express A3 will be terminated soon.

