

Launch of DAB+ in Slovenia

General Assembly meeting of WorldDAB,

Bojan Ramšak, RTV Slovenija

Vienna, November 2016

About RTV Slovenija

Public service broadcaster

- 4 national radio programs,
- 3 national TV programs,
- 2 regional radio and TV programs,
- radio and TV programs for minorities,
- web-portal,
- network operator (225 transmitter sites):
 - FM radio,
 - shortwave radio,
 - DVB-T,
 - DVB-S and
 - T-DAB since oktober 2016



Short history

- first T-DAB pilot project,
- second attempt,
- increased activity from public broadcaster and commercial stations,
- questionnaire from the national regulator AKOS
- public tender for T-DAB network licence
- operational network

Public tender for T-DAB+ licence

- nationwide coverage
- SFN network on channel 10D 215,072 MHz
- at least 1100 kbit/s net transmission bandwidth
- encoding standard MPEG-4 HE-AAC version 2
- up to 20 radio stations
- required bitrate for min. quality:
 - stereo 48 kbit/s
 - mono 24 kbit/s
- predefined transmitter network with:
 - 7 mandatory sites
 - 7 optional sites
- typical ERP 5 kW
- maximum price of CU/month = 32,10 €

9 months to go

- purchase of equipment:
 - antennas,
 - transmitters,
 - head-end and
 - instruments
- installation of equipmnet

content?

public tender for content

setup of new services:

- dynamic label,
- slideshow,
- journaline
- EPG



Impressions from installation





19. september - launch of multiplex R1

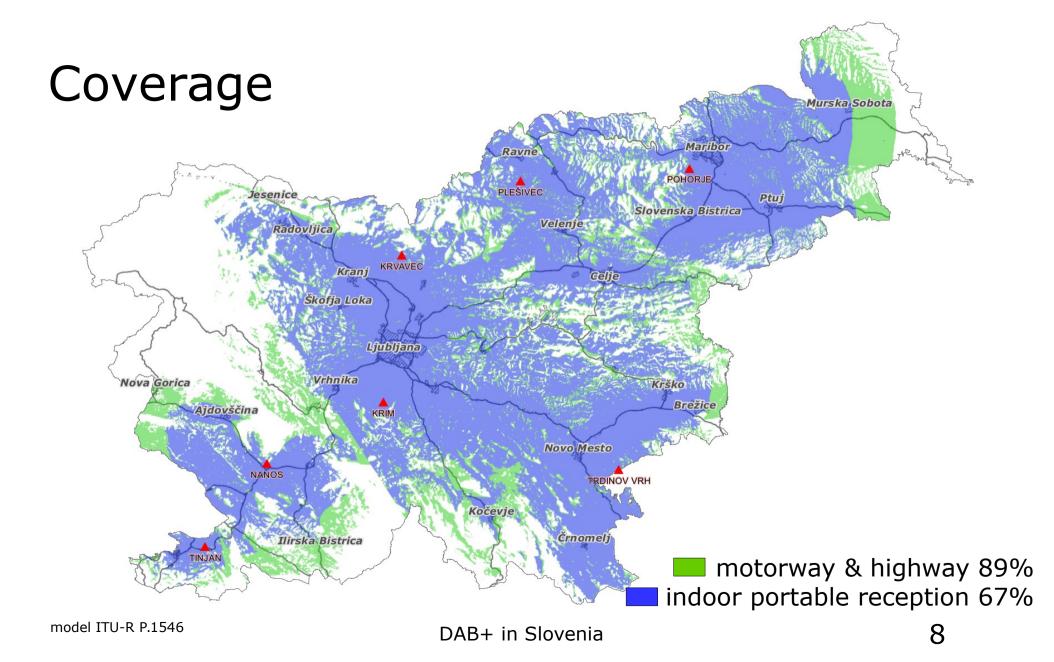
audio&data 32-80 kbit/s

- 4 public programs:
- Slo 1 Prvi
- Slo 2 Val 202
- Slo 3 ARS
- Slo Int Radio SI

audio 96-112 kbit/s + data

9 private programs:

- Rock Radio Slo
- Radio Ognjisce
- Radio Center Slo
- Radio BOB
- Radio Antena
- Radio 2
- Radio 1 DAB
- A-Radio
- Narodni radio



Experiences and challenges

- FM will not be switched off tomorrow!
- Quality in DAB+ What is it and what is it not?
- The interest of private stations
- CU vs. bitrate
- promotional activities
- extend coverage in tunnels and new transmitters
- new DAB+ only content

