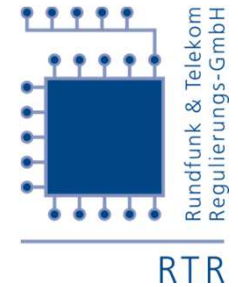


Wir stehen für **Wettbewerb** und **Medienvielfalt**.



# Mobilregulierungsdialog Update on Radio Spectrum

Dietmar Zlabinger

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2016-06-26



## Content

- 700 MHz
  - German auction final results
- Reshuffling 900/1800 MHz
- Follow-up to mobile communications in tunnels



## German auction - final results

Rundenergebnis der Runde 181				
Frequenzbereich	Block	Ausstattung	Höchstbieter	Höchstgebot ( € in Tsd. )
700 MHz (gepaart)	700 A	2x5 MHz konkret	TEF DE	166.397
	700 B	2x5 MHz abstrakt	Vodafone	165.509
	700 C	2x5 MHz abstrakt	TEF DE	166.847
	700 D	2x5 MHz abstrakt	Telekom	166.567
	700 E	2x5 MHz abstrakt	Telekom	171.649
	700 F	2x5 MHz abstrakt	Vodafone	163.476
900 MHz (gepaart)	900 A	2x5 MHz konkret	TEF DE	195.520
	900 B	2x5 MHz abstrakt	Vodafone	211.807
	900 C	2x5 MHz abstrakt	Vodafone	203.298
	900 D	2x5 MHz abstrakt	Telekom	183.671
	900 E	2x5 MHz abstrakt	Telekom	180.968
	900 F	2x5 MHz abstrakt	Telekom	180.465
	900 G	2x5 MHz abstrakt	TEF DE	189.958
1,8 GHz (gepaart)	1800 A	2x5 MHz abstrakt	Vodafone	237.494
	1800 B	2x5 MHz abstrakt	Telekom	248.054
	1800 C	2x5 MHz abstrakt	Vodafone	258.247
	1800 D	2x5 MHz abstrakt	Vodafone	249.133
	1800 E	2x5 MHz abstrakt	Telekom	248.101
	1800 F	2x5 MHz abstrakt	Vodafone	255.967
	1800 G	2x5 MHz abstrakt	TEF DE	239.228
	1800 H	2x5 MHz abstrakt	Telekom	248.784
	1800 I	2x5 MHz abstrakt	TEF DE	240.288
	1800 J	2x5 MHz konkret	Vodafone	180.153
1,5 GHz (ungepaart)	1500 A	1x5 MHz abstrakt	Vodafone	40.939
	1500 B	1x5 MHz abstrakt	Vodafone	40.939
	1500 C	1x5 MHz abstrakt	Vodafone	40.919
	1500 D	1x5 MHz abstrakt	Telekom	42.964
	1500 E	1x5 MHz abstrakt	Vodafone	42.961
	1500 F	1x5 MHz abstrakt	Telekom	39.011
	1500 G	1x5 MHz abstrakt	Telekom	40.961
	1500 H	1x5 MHz abstrakt	Telekom	40.961
Summe aller gehaltenen Höchstgebote (€ in Tsd.)				5.081.236



## Reshuffling 900/1800 MHz

- Expiration of existing usage rights by Dec 31, 2015
- New usage rights from Jan 1, 2016
- 900 MHz - major changes, impact on service
- 1800 MHz - minor changes, unproblematic
- Transition on New Year's Day - not a good idea



creative commons / Wei-te Wang

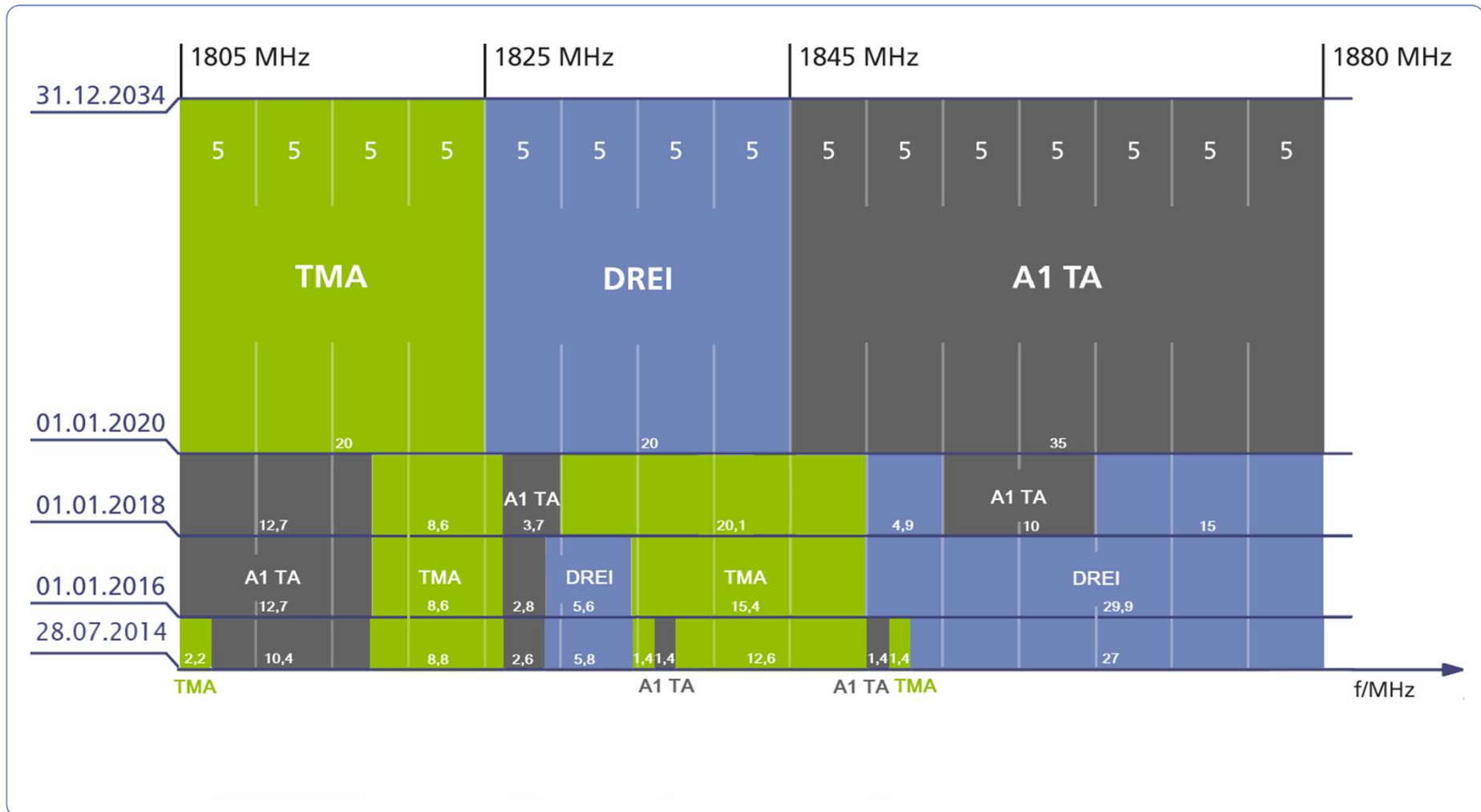


# Reshuffling 900 MHz





# Reshuffling 1800 MHz





## Follow-up to mobile communications in tunnels

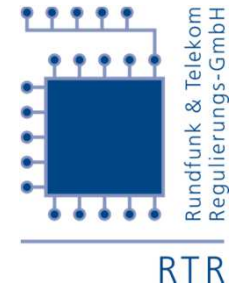
### Discussion:

- Best practice
- Challenges



Source: ASFINAG

Wir stehen für **Wettbewerb** und **Medienvielfalt**.



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