



EUROPEAN COMMISSION  
DIRECTORATE-GENERAL FOR COMMUNICATIONS NETWORKS, CONTENT AND  
TECHNOLOGY

Connectivity  
**Radio Spectrum Policy Group**  
**RSPG Secretariat**

Brussels, 24 November 2021

**RSPG21-038 FINAL**

## **RADIO SPECTRUM POLICY GROUP**

### **State of play regarding award of 5G pioneer bands**

*The attached table represents information as of 19/11/2021 The information has been provided by the RSPG Members.*

Country	700 MHz			3.4-3-8 GHz			24.25-27.5 GHz		
	Public consultation	Peer review	Award	Public consultation	Peer review	Award	Public consultation	Peer review	Award
<b>Austria</b>	September 2019	May 2019	September 2020	February 2018	April 2019	March 2019	Aug 2019	May 2019	<i>Expected by Q3 2022</i>
<b>Belgium</b>	July 2017		<i>Expected June 2022</i>	June 2017		Provisional rights have been awarded for the band 3600-3800 MHz in July 2020, <i>Expected June 2022</i>	June 2019		No award planned
<b>Bulgaria</b>	<i>August 2020</i>		<i>In 2022, a new public consultation is planned.</i>	December 2020 – January 2021		May 2021	January – February 2021		<i>In 2022, a new public consultation is planned</i>
<b>Croatia</b>	April 2021	10 <sup>th</sup> May 2021*	12 August 2021	April 2021	10 May 2021*	12 August 2021	April 2021	10 <sup>th</sup> May 2021*	12 August 2021
<b>Cyprus</b>	September 2019		<i>December 2020</i>	September 2019		<i>December 2020</i>	September 2019		<i>Not expected in 2020 (subject to clear market)</i>

Country	700 MHz			3.4-3.8 GHz			24.25-27.5 GHz		
	Public consultation	Peer review	Award	Public consultation	Peer review	Award	Public consultation	Peer review	Award
									<i>demand)</i>
<b>Czechia</b>	June 2019 March 2020 June 2020		January 2021	3.6-3.8 GHz 2017 3.4-3.6 GHz June 2019 March 2020 June 2020	2017	August 2017  January 2021	December 2019 August 2020		No award planned 26.5-27.5 GHz open for non-commercial experiments in October 2020
<b>Denmark</b>	March 2018		March 2019	December 2020		April 2021	August 2018 and December 2020		April 2021
<b>Estonia</b>	July 2014 and November 2019		<i>Expected in June 2022 (depends on the adoption of 5G network equipment security measures)</i>	April 2018		<i>Expected in June 2022 (depends on the adoption of 5G network equipment security measures)</i>	<i>November 2019</i>		<i>Expected by the end of 2022 (depends on the adoption of 5G network equipment security measures)</i>
<b>Finland</b>			November 2016	May 2018	April 2019	October 2018	February 2020		June 2020
<b>France</b>			November 2015	July 2019	September 2019	October 2020	Jun 2018		<i>On-going process to encourage trials in various sectors</i>

Country	700 MHz			3.4-3.8 GHz			24.25-27.5 GHz		
	Public consultation	Peer review	Award	Public consultation	Peer review	Award	Public consultation	Peer review	Award
<b>Germany</b>			June 2015			June 2019	October 2018 February 2020 August 2020	n.a.	(Individual frequency assignments: - on application - for 15 years with the possibility of extension - since end of 2020)
<b>Greece</b> (Individual frequency rights of use assigned for the three 5G bands for 15 years with the possibility of 5 years extension, starting on the 16 <sup>th</sup> December 2020)	August – September 2020	May 2021	Completed December 2020	August – September 2020	May 2021	Completed December 2020	August – September 2020	May 2021	Completed December 2020
<b>Hungary</b>	June 2019	December 2018	April 2020	June 2019	December 2018	April 2020	July 2017 and December 2019		
<b>Ireland</b>	Completed Dec 2020: ComReg doc:	Completed- 30 June 2020	<i>Underway: April 2021 ComReg</i>	Completed: December 2015	Completed: January 2018	Completed: May 2017	Study determined there is no	NA	NA

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	Public consultation	Peer review	Award	Public consultation	Peer review	Award	Public consultation	Peer review	Award
	20/122		<i>Doc:21/40</i>  <i>Legal Appeal pending:</i> <i>ComReg doc: 21/04R</i>				current demand – ComReg doc: 21/07		
<b>Italy</b>	March 2018	December 2018	October 2018 Spectrum usable nationally from 1 July 2022	3.4-3.6 GHz January 2018 (for 5G use)  3.6-3.8 GHz March 2018	December 2018	3.4-3.6 GHz Extended licenses for 5G use November 2018  3.6-3.8 GHz October 2018	March 2018	December 2018	October 2018
<b>Latvia</b>	It is expected to conclude public consultation in the first half of 2021. (due to diverging views on licence conditions, several consultation rounds with market players were carried out during		Second half of 2021	March 2018		September 2018	<i>At the moment no clear market demand. 1 GHz band is made available for operators to carry out pilot projects, testbeds, cooperation initiatives etc. Replanning of the band starting from 2024 is foreseen.</i>		Before 2024 (depending on results of public consultation)

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	Public consultation	Peer review	Award	Public consultation	Peer review	Award	Public consultation	Peer review	Award
	2020. )						<i>During 2021 a consolation on most optimal use of the band is planned</i>		
<b>Lithuania</b>	May 2018 June 2021 October 2021 (RRT director's order 1V-957)	22 June 2021	<i>March 2022 (The auction was announced on 25 of October. RRT director's order 1V-968)</i>	May 2018 March 2019 February 2021		<i>Expected Q4 2022</i>	April 2020		1.2 GHz is available. Waiting for requirements from MNO.
<b>Luxembourg</b>	May 2019		August 2020	May 2019		August 2020	October 2020		Public consultation in Q4-2020 showed no immediate demand from stakeholders; award postponed until demand apparent; possibility to request temporarily licences.
<b>Malta</b>	5 February 2021	23 March 2021*	Subject to market	5 February 2021	23 March 2021*	<i>3.5-3.6 GHz: Aug. 2021</i>	5 February 2021	23 March 2021*	Subject to market

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	Public consultation	Peer review	Award	Public consultation	Peer review	Award	Public consultation	Peer review	Award
			demand (part of the band is used for 5G trials)			<p>3.6-3.7 GHz: May 2021</p> <p>3.7-3.8 GHz: Oct. 2021</p> <p>The band 3.4-3.5 GHz remains unassigned due to a lack of market interest.</p>			demand
<b>Netherlands</b>	December 2019 – February 2020		<i>July 2020</i>	May/June 2021	24 June 2021*	To be rescheduled following the outcome of a court procedure	<i>Public consultation of award policy expected Q1/Q2 2022</i>		TBD, depending on outcome public consultation
<b>Poland</b>	Preconsultation August 2018 and 2019 <i>Expected Q1 2022</i>		<i>Before 30 June 2022</i>	Preconsultation August 2018 Consultation <i>December 2019/January 2020</i>		<i>Expected Q2 2022</i>	August 2018 Q3 2020		<i>Expected 2023 (subject of market demand)</i>
<b>Portugal</b>	April 2018 & Oct.2019 (RoU and award procedure)		Initially planned for Q2 2020, due to the	April 2018 & Oct.2019 (RoU and award procedure)		Initially planned for Q2 2020, due to the	April 2018 <i>A second consultation will be launched</i>		TBD according to market demand.

Country	700 MHz			3.4-3.8 GHz			24.25-27.5 GHz		
	Public consultation	Peer review	Award	Public consultation	Peer review	Award	Public consultation	Peer review	Award
	Consultation on the auction rules was launched Q1 2020, it was suspended due to pandemic and ended in July 2020.		suspension of the public consultation, it started on the Q4 2020. The bidding stage has ended and licences will be awarded shortly.	Consultation on the auction rules was launched Q1 2020, it was suspended due to pandemic and ended in July 2020.		suspension of the public consultation, it started on the Q4 2020 . The bidding stage has ended and licences will be awarded shortly.  100 MHz (3.4-3.5 GHz) can already be use in accordance with the new technical conditions (decision from Dec.2019)	<i>very soon.</i>		
<b>Romania</b>	First public consultation - August 2019 Second public consultation expected – Q2 2022 (after the		<i>Expected 2022</i>	First public consultation - August 2019 Second public consultation expected – Q2 2022 (after the		<i>255 MHz have already been allotted since 2015 (valid during 2016-2025) Additional 90</i>	Strategy for multi-band auction publicly consulted in the first half of 2019, where this band was		<i>Possibly before the end of 2024 (subject to clear market demand)</i>



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	Public consultation	Peer review	Award	Public consultation	Peer review	Award	Public consultation	Peer review	Award
	<i>transposition of EECC in the national legislation)</i>			<i>transposition of EECC in the national legislation)</i>		<i>MHz - expected in 2021 (valid until 2025)</i>  <i>All 400 MHz - expected in 2022 (the rights of use will start in 2026)</i>	postponed; dedicated questionnaire on market demand in 2021		
<b>Slovakia</b>	December 2019		December 2020	3.4-3.6 GHz: October 2014  3.6-3.8 GHz: November 2013		3.4-3.6 GHz: May 2016  3.6-3.8 GHz: July 2017	Public discussion was held in November 2020.		Public discussion result - no interest in the market at a present time. Not expected to take place before 2023 (subject of negotiation with military).
<b>Slovenia</b>	<i>Q3 2020</i>	December 2018 October 2020	<i>June 2021</i>	Q3 2020	October 2020	<i>June 2021</i>	Q3 2020	October 2020	<i>June 2021</i>
<b>Spain</b>	2017 and 2019	December	July 2021	2017		July 2018	2017, 2019 and		2022

Country	700 MHz			3.4-3.8 GHz			24.25-27.5 GHz		
	Public consultation	Peer review	Award	Public consultation	Peer review	Award	Public consultation	Peer review	Award
		2020				20 MHz awarded in April 2021	2021		
<b>Sweden</b>	July 2018	May 2018 February 2019	December 2018	July 2019	April 2019	January 2021	December 2019		<i>Possibly local licences in 24,25 – 25,1 GHz 2021. No award for the remaining parts before 2023</i>
<b>Norway</b>	2018		June 2019	August 2019		3.4-3.8 GHz assigned in an auction conducted 27-30 September 2021. A total of 400 MHz of spectrum was awarded to four different licence holders.	August 2019  Possible new consultation in 2022		Test licences awarded in 2019.  No clear market demand, award is not expected to take place in 2021
<b>Iceland</b>	2015		2017, except the lowest	2015		3.5-3.8 GHz already			No clear market

Country	700 MHz			3.4-3.8 GHz			24.25-27.5 GHz		
	Public consultation	Peer review	Award	Public consultation	Peer review	Award	Public consultation	Peer review	Award
			2x10 part which is planned to be assigned 2021/2022			assigned for 5G  3.4 GHz planned for auction in 2021/2022			demand.  Not expected to be awarded in the upcoming award process in 2021/2022

\*Peer Review Forum held in line with the provisions of Article 35 of the [European Electronic Communications Code](#).