

## Survey

As part of my bachelor-thesis I analyse the **Impact of the European Digital Dividend 1 and 2 on the use of frequencies by wireless production tools (Audio-PMSE) in different countries of the European Union.**

With the following survey I want to determine realistic values. For this reason I ask you, to take some time. If you have any further questions, please contact me.

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\*DD1 = Digital Dividend 1

I would be very grateful, if you could introduce your organisation shortly and I could use these information in my bachelor-thesis.

**Name of the organisation:** \_\_\_\_\_

**Kind of organisation:** \_\_\_\_\_

**Please explain your field of activity a bit more precisely**

\_\_\_\_\_

During the Digital Dividend 1 the allocation of the 800 MHz frequency band was changed in favour of the mobile radio telephone service.

To get a general idea of the used technology in Europe, I am interested in the audio-equipment used by your company before the DD1.

**Which wireless devices for audio-transmission did you use and how many units did you have in stock?**

<b>Device</b>	<b>Number of units in stock</b>
Wireless microphones	_____
In Ear Monitoring Systems	_____
Others: _____	_____

**Are you focused on devices of just one manufacturer or do you use devices of different manufacturers?**

Manufacturer 1: \_\_\_\_\_

Manufacturer 2: \_\_\_\_\_

More: \_\_\_\_\_

The Digital Dividend 1 and with it the new allocation of the 800 MHz band affects all devices, which are licensed in this frequency band.

I am interested, which effort the new allocation did create for companies acting in the field of event technology.

**Were you able to still use devices bought before the 1st Digital Dividend after it? How many?**

*Note: More than one option can be chosen*

- No.
- Some devices are still usable without any modification.
- Yes, all devices are still usable without any modification.
- Some devices were modified and are usable.
- Some devices were modified and are not usable anymore.

**Which devices are still usable under certain conditions/not usable anymore?**

<b>Usable Type / Percentage</b>	<b>Not usable Type / Percentage</b>

Because of the new allocation of the 800MHz frequency band, some devices before acting in this band had to be modified. I am interested in which kind of and how much effort this created for companies, which operate in the field of event technology.

**Which kind of and how much effort (e.g. filling of applications or adjustment of devices) was created by the DD1 for your company?**

*Note: For different subject areas please use the following table more often.*

<b>Effort</b>	<b>Description</b>	<b>Level of efforts</b> 0 = no effort 1 = small effort 2 = okay effort 3 = high effort 4 = not acceptably high effort
Higher costs		
Send in of devices		
Self-contained adjustment of devices		
New devices had to be bought		
Filling of applications		

I kindly ask for information, which frequency bands or tuning ranges (doesn't matter which, 800 MHz or others) were used before and after the DD1 to find out, if there was a significant change. In addition I would like to know the effect of the DD1 on the use of PMSE.

**Which frequency range did you use prevalently before the DD1 (every frequency band you used)?**

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**I wonder if this was changed because of the DD1? If so, which frequencies/tuning ranges do you use now?**

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I would like to know, if there were any problems after the terminated allocation, which weren't known before. Did you have increased problems after DD1?

**How often did you recognize interferences at events after DD1 in the remaining spectrum?**

Interferences did not increase.

Increase of interferences, but still controllable, because we could switch to other channels.

Increased interferences caused serious problems, we have a limitation of our productions.

Others: \_\_\_\_\_

**In which frequency bands or on which frequencies did you recognize the interferences mostly?**

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**Which kind of interferences were there?**

Interferences probably produced by mobile radio devices.

Interferences occur from neighbouring events.

The mix of both.

Unknown source.

Other interferences: \_\_\_\_\_

**What do you usually do, when interferences occur in your tuning range?**

I changed the frequency/tuning range, antenna or location.

I informed the relevant administration.

The mix of both.

Others: \_\_\_\_\_