



Georgian National
Communications Commission

Spectrum Expert Working Group Current status and Activities in 2016-2019.

Future plans for 2019 -2020



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SEWG: an overview

- Informal group
- Main goals: to consider and facilitate viable approaches for the UHF band 470-862 MHz, to exchange views and experiences
- **12 countries in total were present (SEWG meeting 8):**



- Specific challenge: direct impact onto neighbors
- Great benefits from collaboration
- SEWG to enable EaPeReg countries to be fully integrated in regional spectrum reorganisation



Achievements to April, 2019

- Reduction of the time and financial costs of each of the Eastern Partnership countries for network restructuring
- Awarding and implementation of mobile broadband in the 700 MHz band
- ARNS usage issues revised;
- re-channelling and/or re-planning of broadcasting allotments above ch 60 and above 48
- compatibility at the band edge, protection of and frequency coordination for digital broadcasting, rechanneling of PMSE use, out of band emission, etc.),
- issues related to the roll-out of mobile services 694-790 MHz achieving mutual compatibility of the spectrum revision and systematization done;
- Roadmap for future topics such as 5G, IoT etc.



Steps:

- Common future frequency plan
- Individual transition paths
- Minimum result: “least impact approach”

Targets:

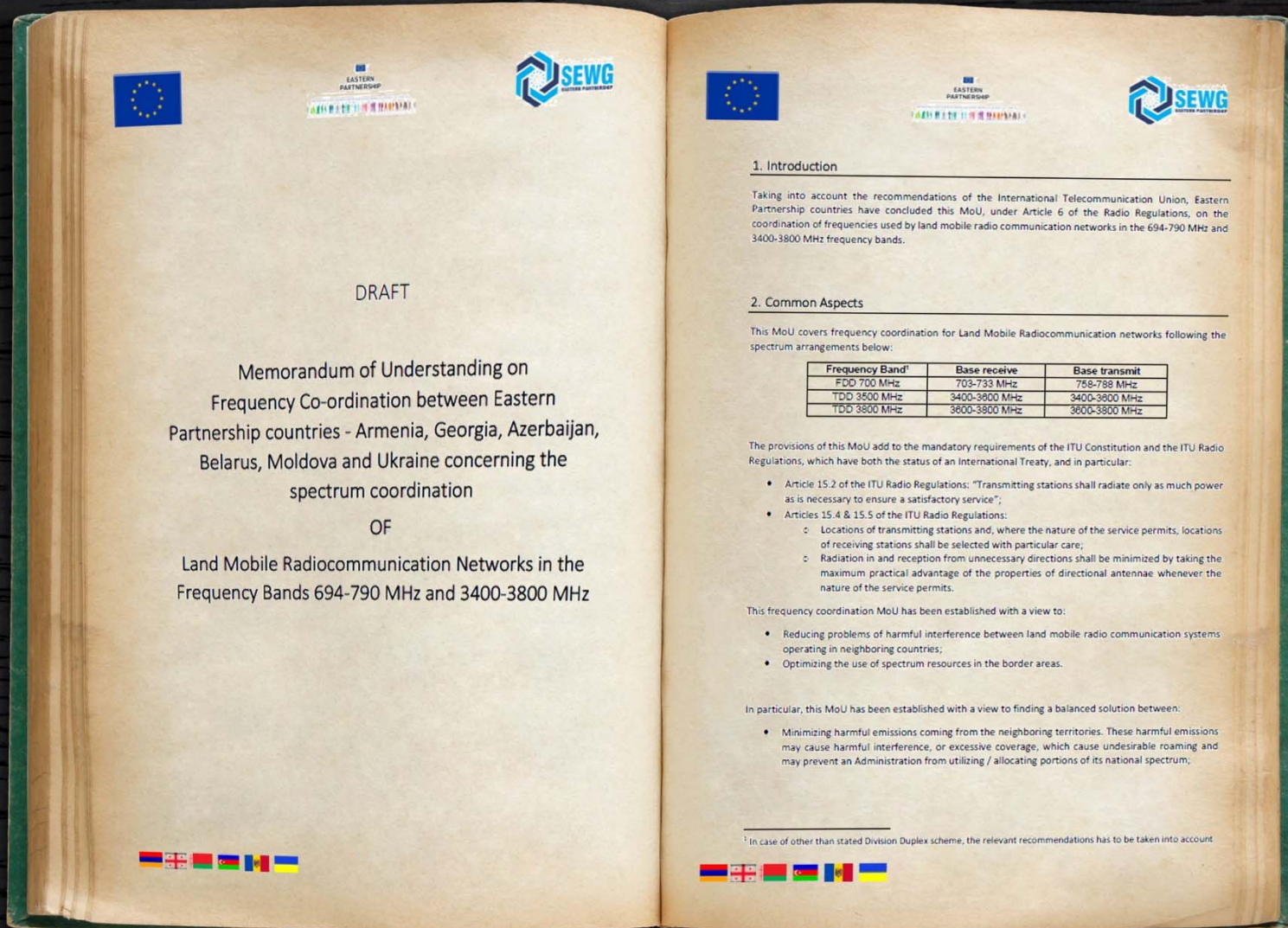
- ✓ 2017: Commitment by partners to coordinate on spectrum issues – **DONE!**
- ✓ 2020: Coordinated national spectrum strategies in the EaP



Scope of work for 2019-2020 and on....

- Roadmap preparation for all participant countries;
- facilitating any consequential modifications to the GE-06 Plan, while taking into account relevant future developments.
- Supplementary spectrum (DD2) usage and approaches;
- find solutions for more effective cross-border coordination to respect the principle of equitable access to spectrum resources for current and future mobile systems;
- preferable (and potential) radio frequency bands for the implementation of 5G systems;
- development of approaches for the harmonized use of frequencies for the implementation of 5G systems in the EaPeReg region;
- exchange of experience in the implementation of 5G systems, taking into account the issues of combining with other services





DRAFT

Memorandum of Understanding on Frequency Co-ordination between Eastern Partnership countries - Armenia, Georgia, Azerbaijan, Belarus, Moldova and Ukraine concerning the spectrum coordination

OF

Land Mobile Radiocommunication Networks in the Frequency Bands 694-790 MHz and 3400-3800 MHz



1. Introduction

Taking into account the recommendations of the International Telecommunication Union, Eastern Partnership countries have concluded this MoU, under Article 6 of the Radio Regulations, on the coordination of frequencies used by land mobile radio communication networks in the 694-790 MHz and 3400-3800 MHz frequency bands.

2. Common Aspects

This MoU covers frequency coordination for Land Mobile Radiocommunication networks following the spectrum arrangements below:

Frequency Band ¹	Base receive	Base transmit
FDD 700 MHz	703-733 MHz	758-788 MHz
TDD 3500 MHz	3400-3800 MHz	3400-3800 MHz
TDD 3800 MHz	3600-3800 MHz	3600-3800 MHz

The provisions of this MoU add to the mandatory requirements of the ITU Constitution and the ITU Radio Regulations, which have both the status of an International Treaty, and in particular:

- Article 15.2 of the ITU Radio Regulations: "Transmitting stations shall radiate only as much power as is necessary to ensure a satisfactory service";
- Articles 15.4 & 15.5 of the ITU Radio Regulations:
 - Locations of transmitting stations and, where the nature of the service permits, locations of receiving stations shall be selected with particular care;
 - Radiation in and reception from unnecessary directions shall be minimized by taking the maximum practical advantage of the properties of directional antennae whenever the nature of the service permits.

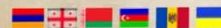
This frequency coordination MoU has been established with a view to:

- Reducing problems of harmful interference between land mobile radio communication systems operating in neighboring countries;
- Optimizing the use of spectrum resources in the border areas.

In particular, this MoU has been established with a view to finding a balanced solution between:

- Minimizing harmful emissions coming from the neighboring territories. These harmful emissions may cause harmful interference, or excessive coverage, which cause undesirable roaming and may prevent an Administration from utilizing / allocating portions of its national spectrum;

¹ In case of other than stated Division Duplex scheme, the relevant recommendations has to be taken into account





Integration of EaPeReg countries to regional coordination groups

- Work on draft report an acceptable future frequency distribution plan (e.g. after freeing up 700 MHz)
- Coordinate the future sets of technical characteristics of networks and transmitters (2017-2020)
- Describe and also coordinate the transitional steps towards the implementation of the future plan (2020), defining a common roadmap

.....Will be done by SEWG in December 2018



