

# 5G IMPLEMENTATION

# FREQUENCIES



# 5G – POTENTIAL BANDS

24,25-27,5 GHz	47,0-47,2 GHz
31,8-33,4 GHz	47,2-50,2 GHz
37,0-40,5 GHz	50,4-52,6 GHz
40,5-42,5 GHz	66-71 GHz
42,5-43,5 GHz	71-76 GHz
45,5-47,0 GHz	81-86 GHz



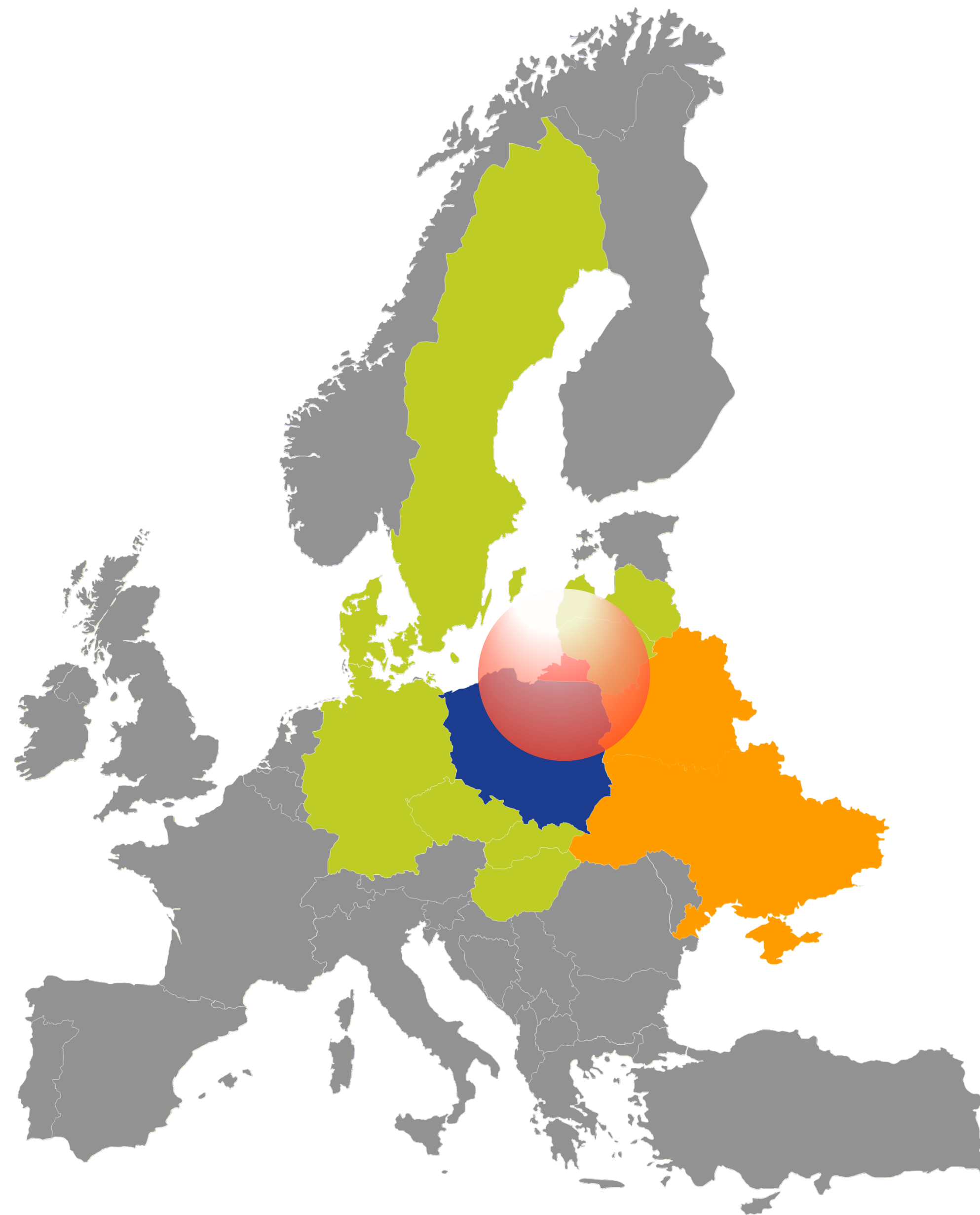
# 700 MHz - RELEASE IN EUROPE



SOURCE: UKE, SEPTEMBER 2019

# 700 MHz - COORDINATION BY PL

- SWEDEN
- DENMARK
- GERMANY
- CZECH REPUBLIC
- SLOVAKIA
- HUNGARY
- UKRAINE
- BELARUS
- LITHUANIA
- LATVIA
- RUSSIA



SOURCE: UKE, SEPTEMBER 2019



# 700 MHz - INTERFERENCE FROM TV SERVICE



UPLINK 703-708 MHz  
DOWNLINK 758-763 MHz



713-718 MHz  
768-773 MHz



723-728 MHz  
778-783 MHz



UPLINK 708-713 MHz  
DOWNLINK 763-768 MHz



718-723 MHz  
773-778 MHz

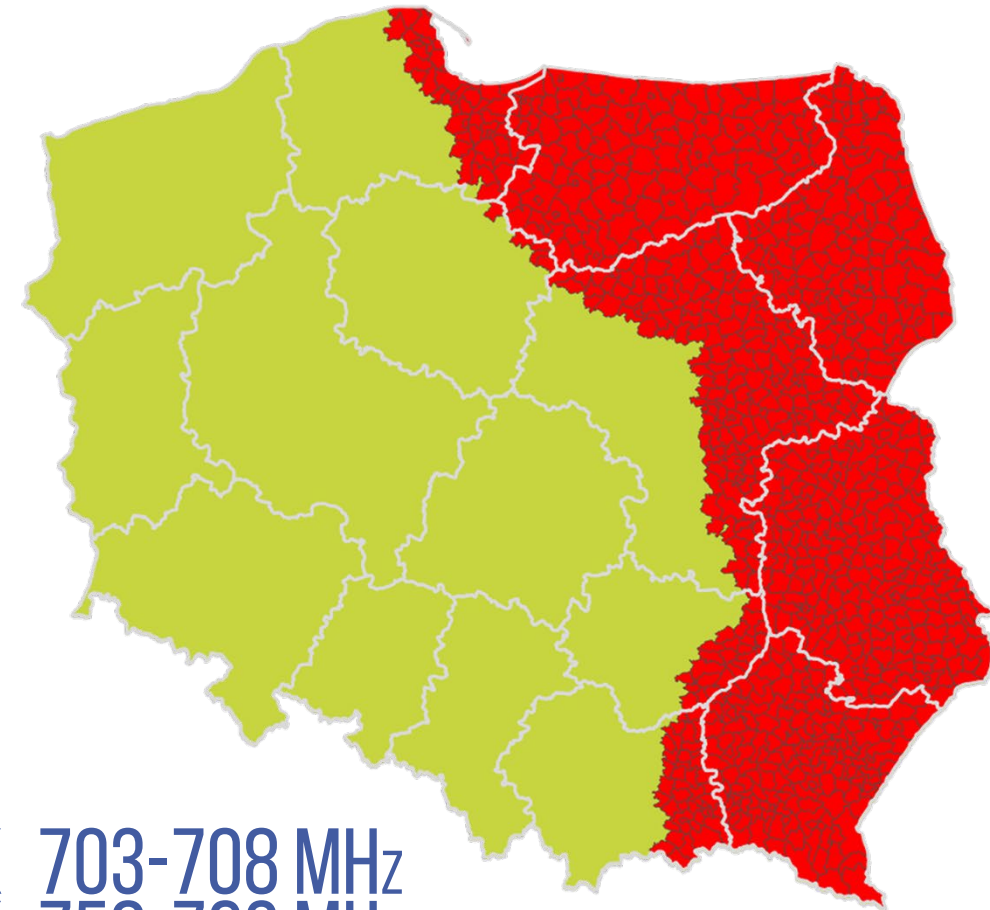


728-733 MHz  
783-788 MHz

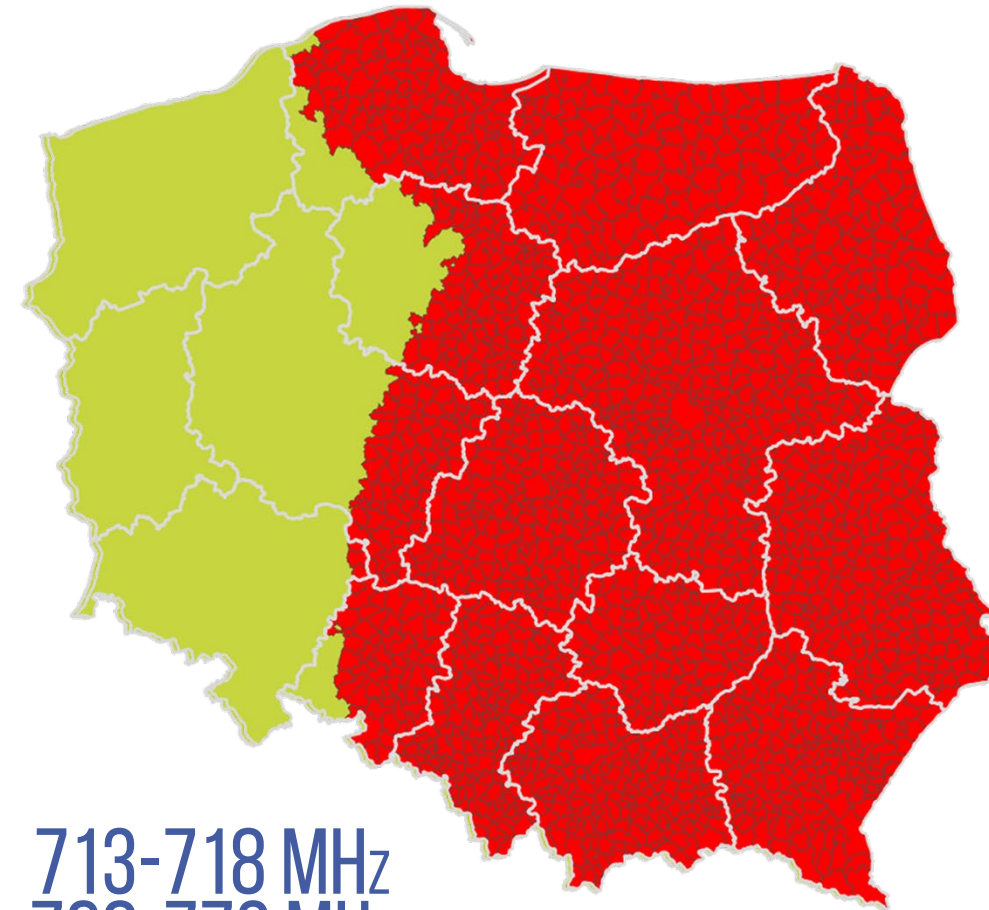
SOURCE: UKE, SEPTEMBER 2019



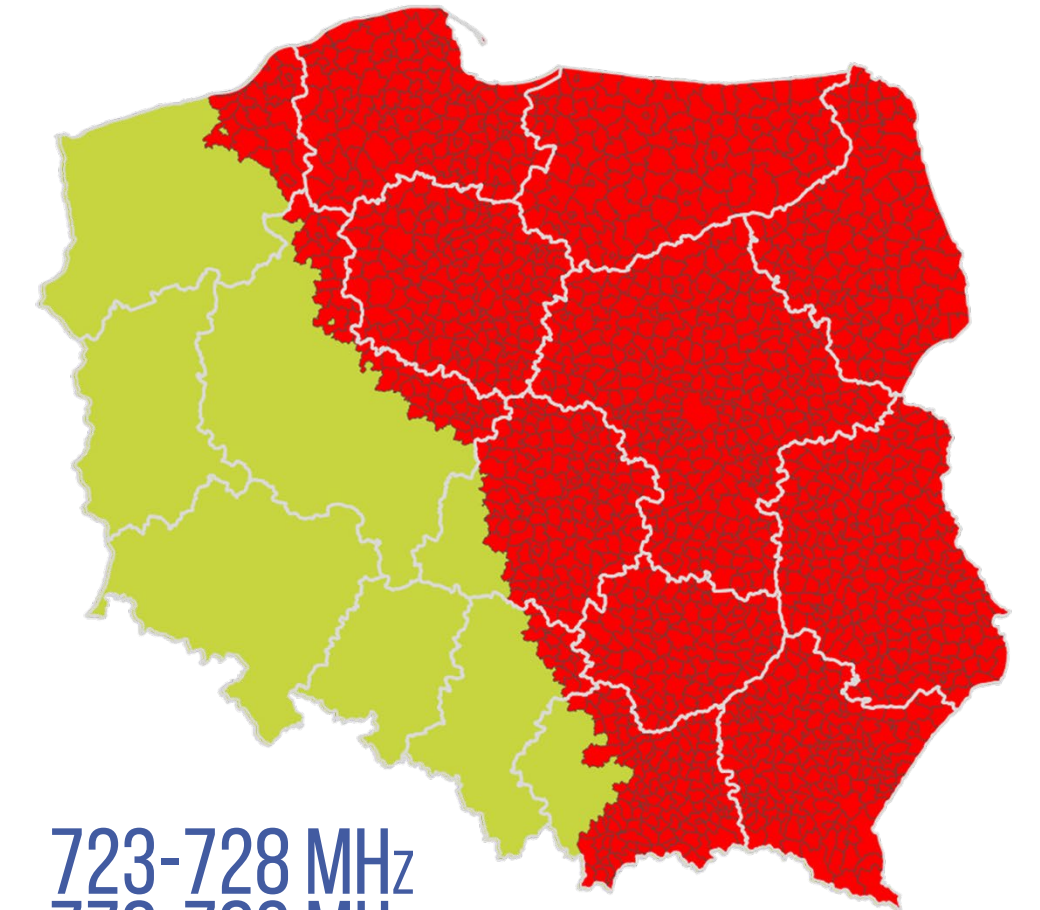
# 700 MHz - INTERFERENCE FROM TV SERVICE



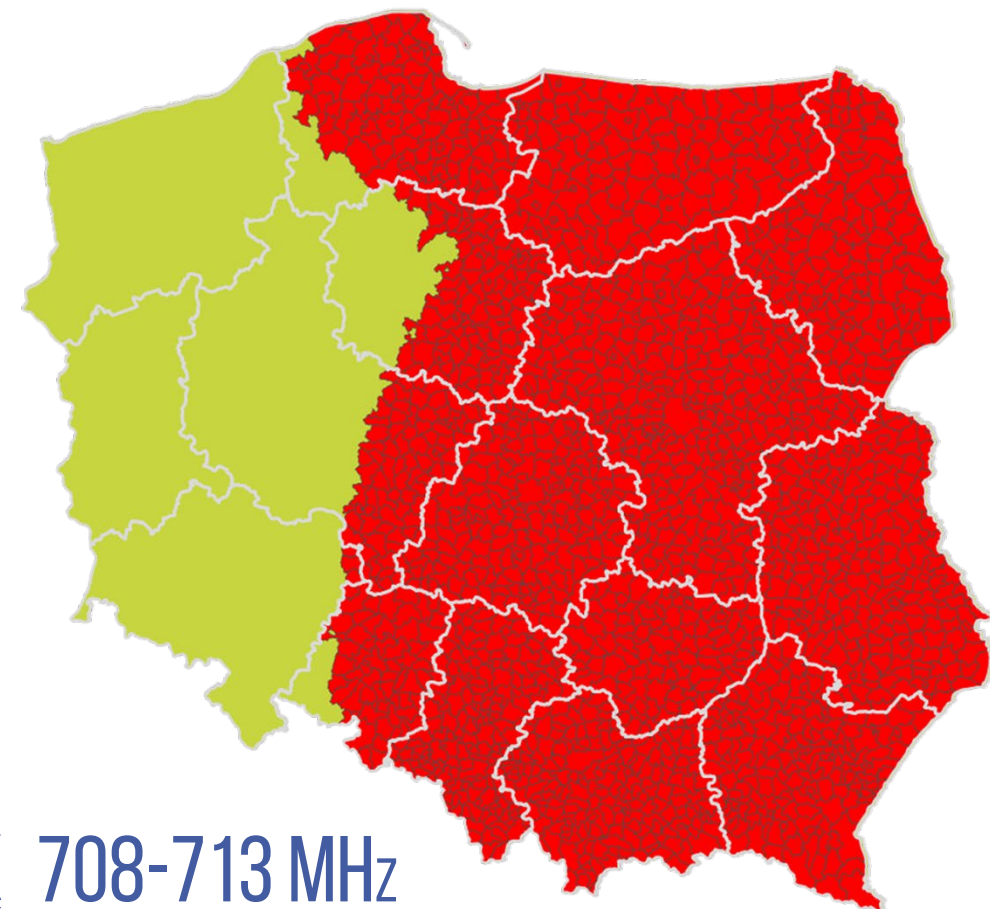
UPLINK 703-708 MHz  
DOWNLINK 758-763 MHz



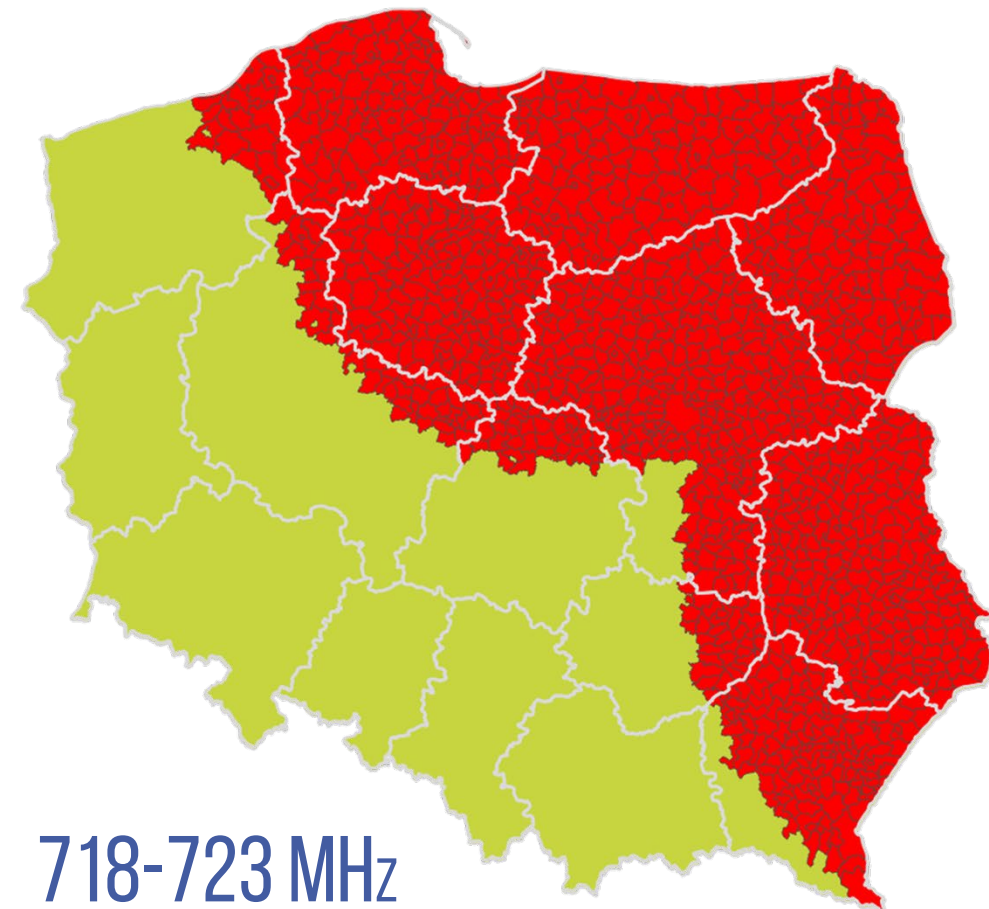
713-718 MHz  
768-773 MHz



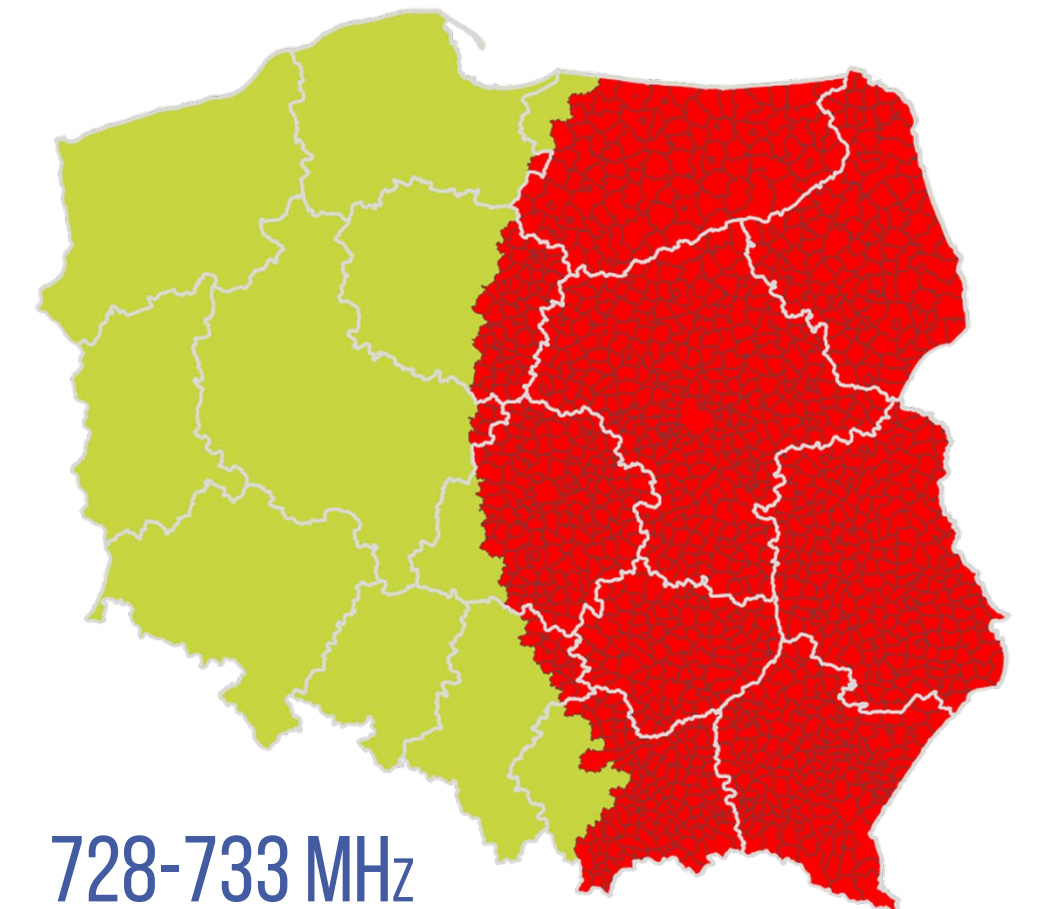
723-728 MHz  
778-783 MHz



UPLINK 708-713 MHz  
DOWNLINK 763-768 MHz



718-723 MHz  
773-778 MHz



728-733 MHz  
783-788 MHz

SOURCE: UKE, SEPTEMBER 2019

■ INTERFERENCE

■ NO INTERFERENCE

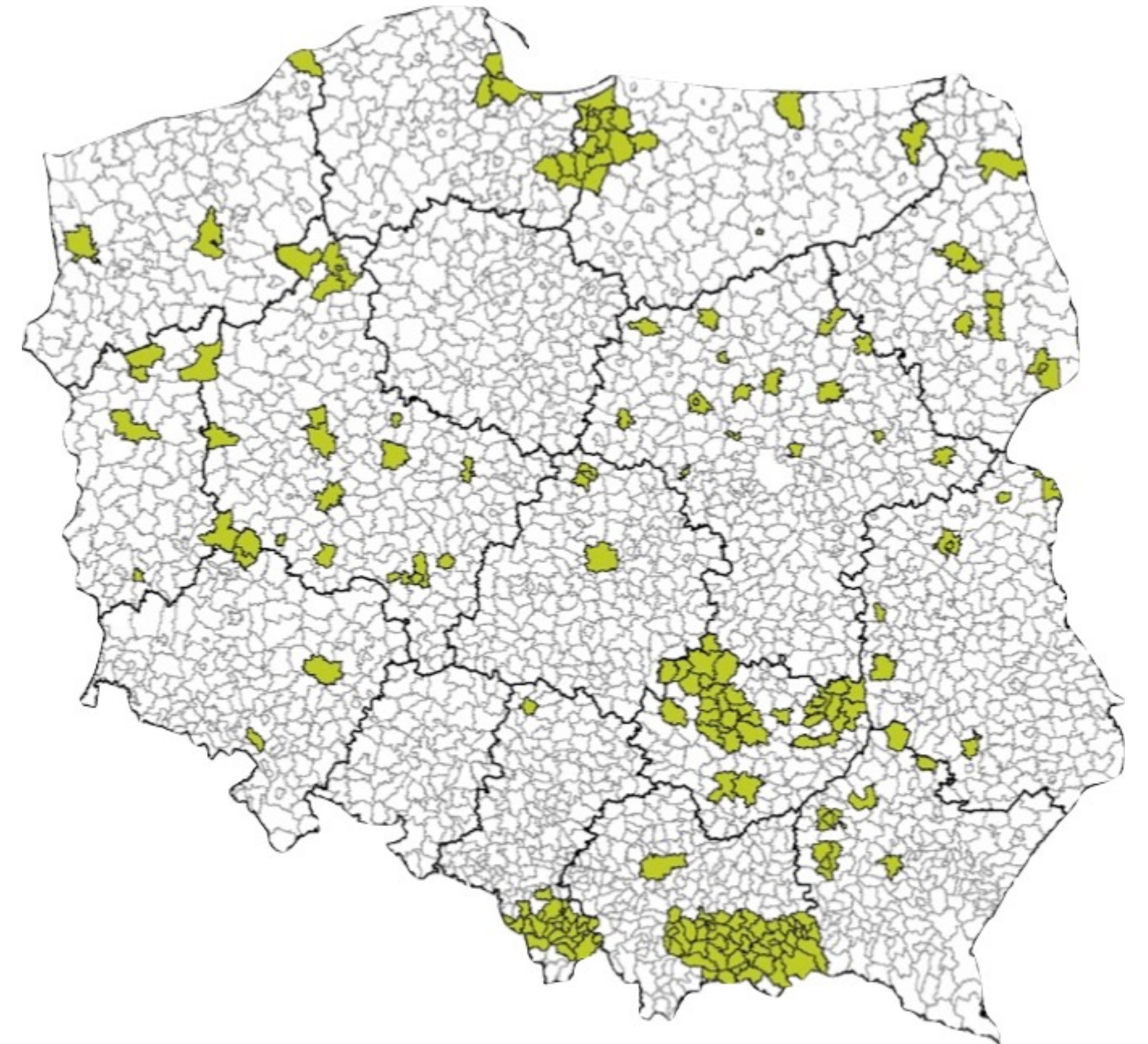
Office of Electronic  
Communications

UKE



# 3.4-3.6 GHz - REGIONAL FREQUENCY LICENSES

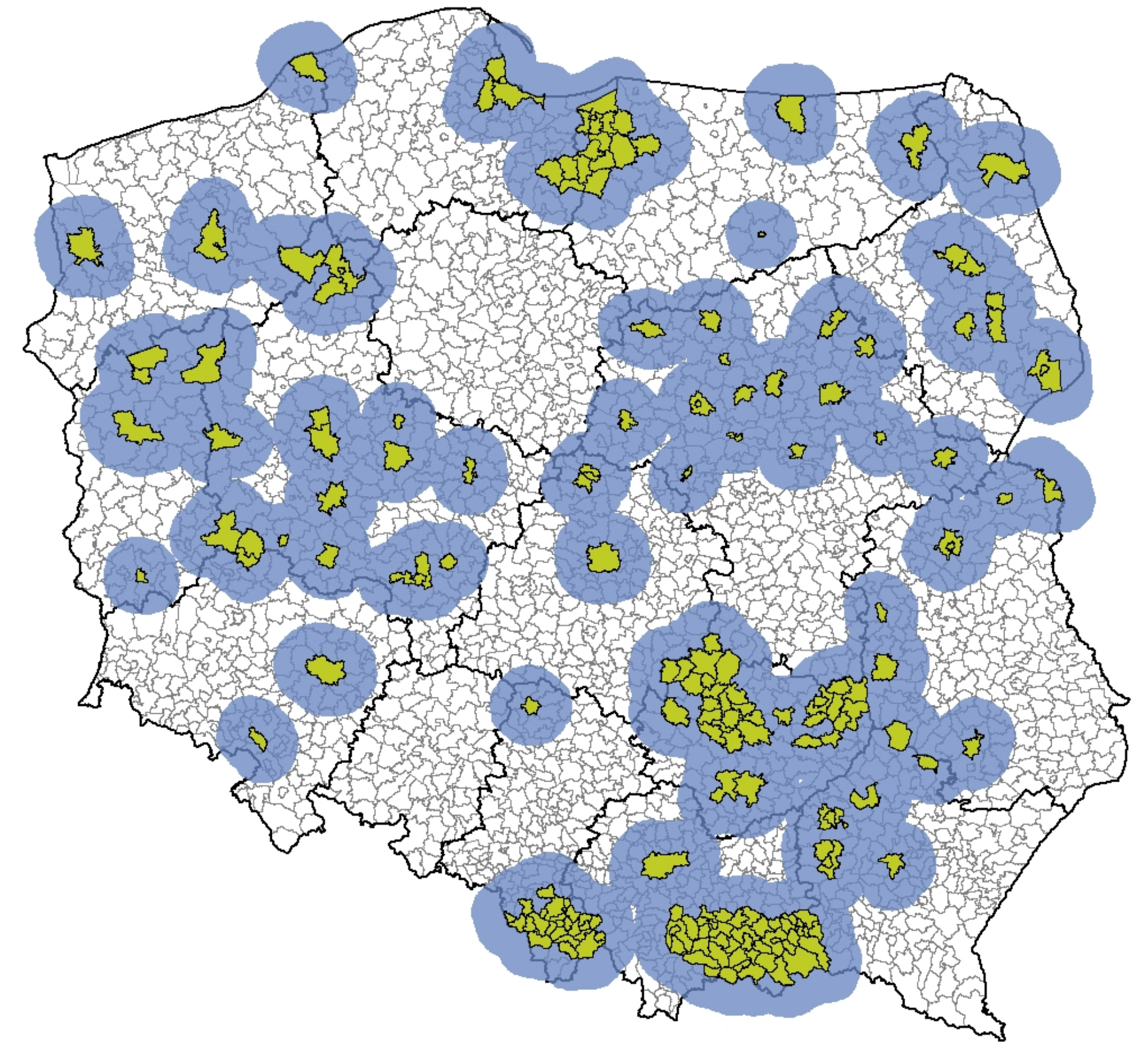
- 153 DECISIONS FOR 42 ENTITIES
- 20 SELF-GOVERNMENTAL ENTITIES
- LAST DECISIONS VALID TILL 2031-07-27





# 3.4-3.6 GHz - REGIONAL FREQUENCY LICENSES

● CA 65% OF THE COUNTRY AREA INTERFERED



SOURCE: UKE, SEPTEMBER 2019

■ OCCUPIED AREAS

□ FREE AREAS

■ INTERFERENCE RANGE

Office of Electronic  
Communications

UKE

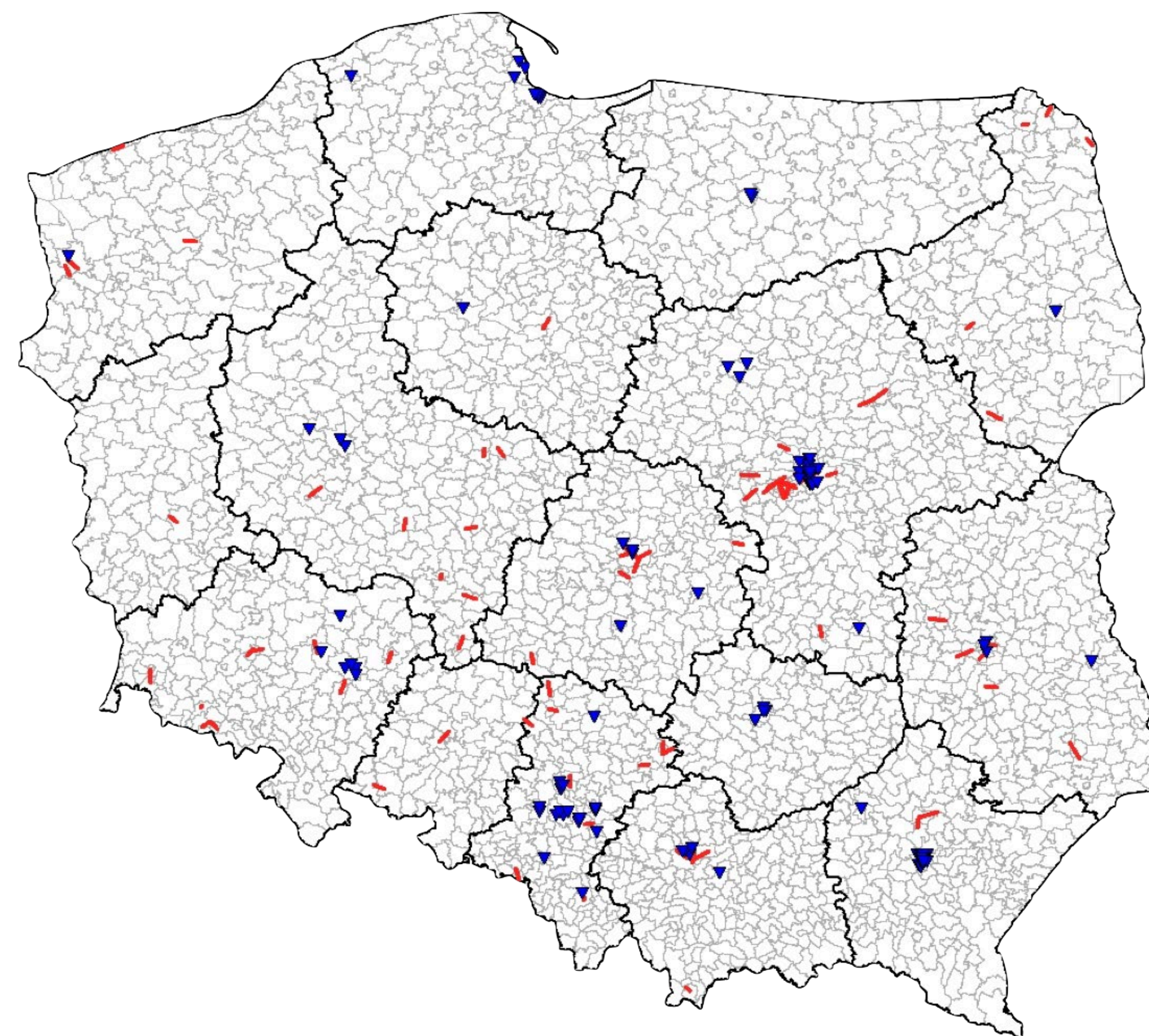


# 26 GHz - STATIONS

75  
PP LICENSES

174  
PMP LICENSES

9  
PMP RESERVATIONS





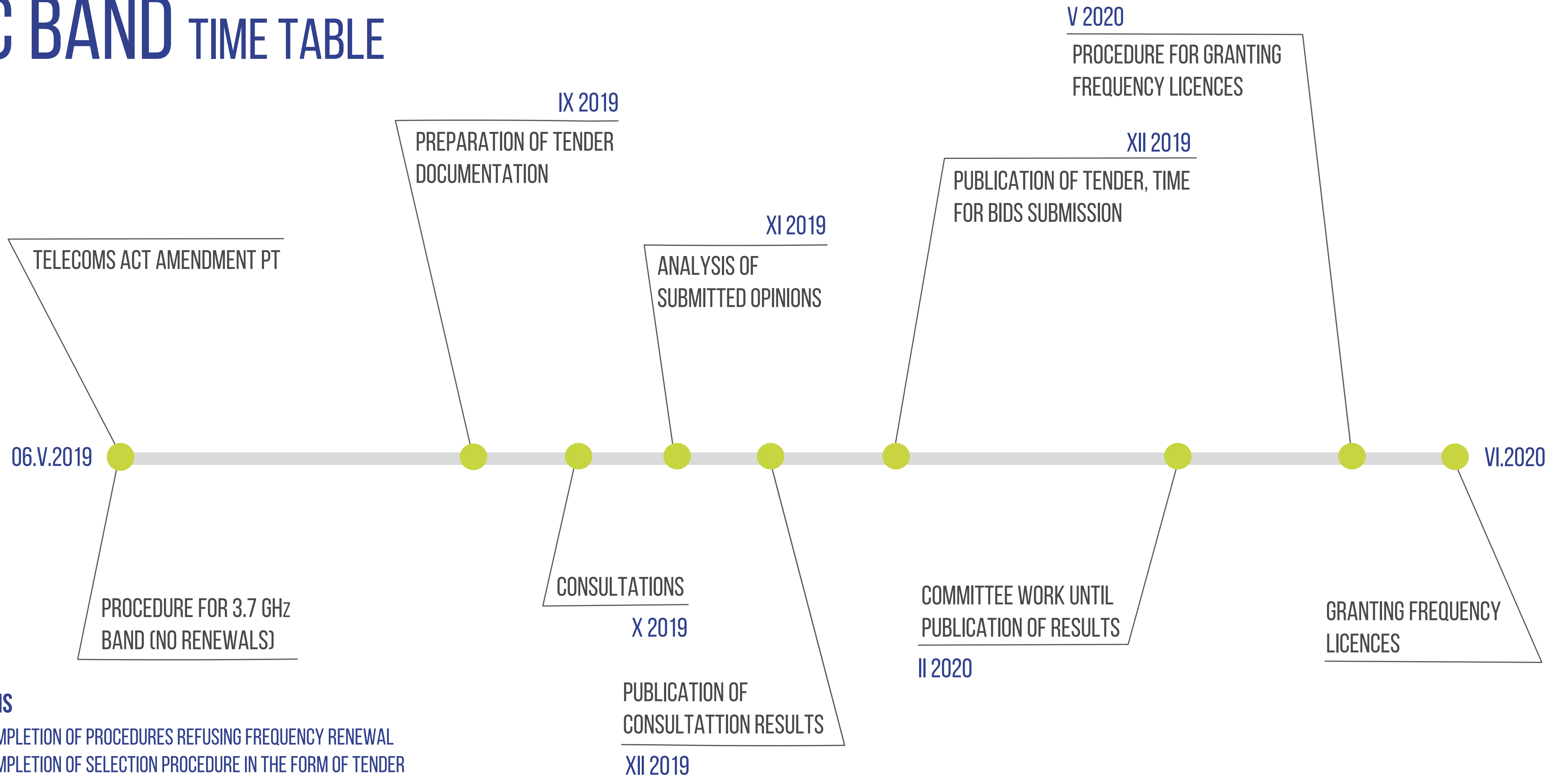
# 26 GHz - USAGE



■ CURRENT USAGE   ■ MILITARY/GOV USAGE   ■ 5G   ■ CIVIL-MILITARY USAGE

SOURCE: UKE

# C BAND TIME TABLE



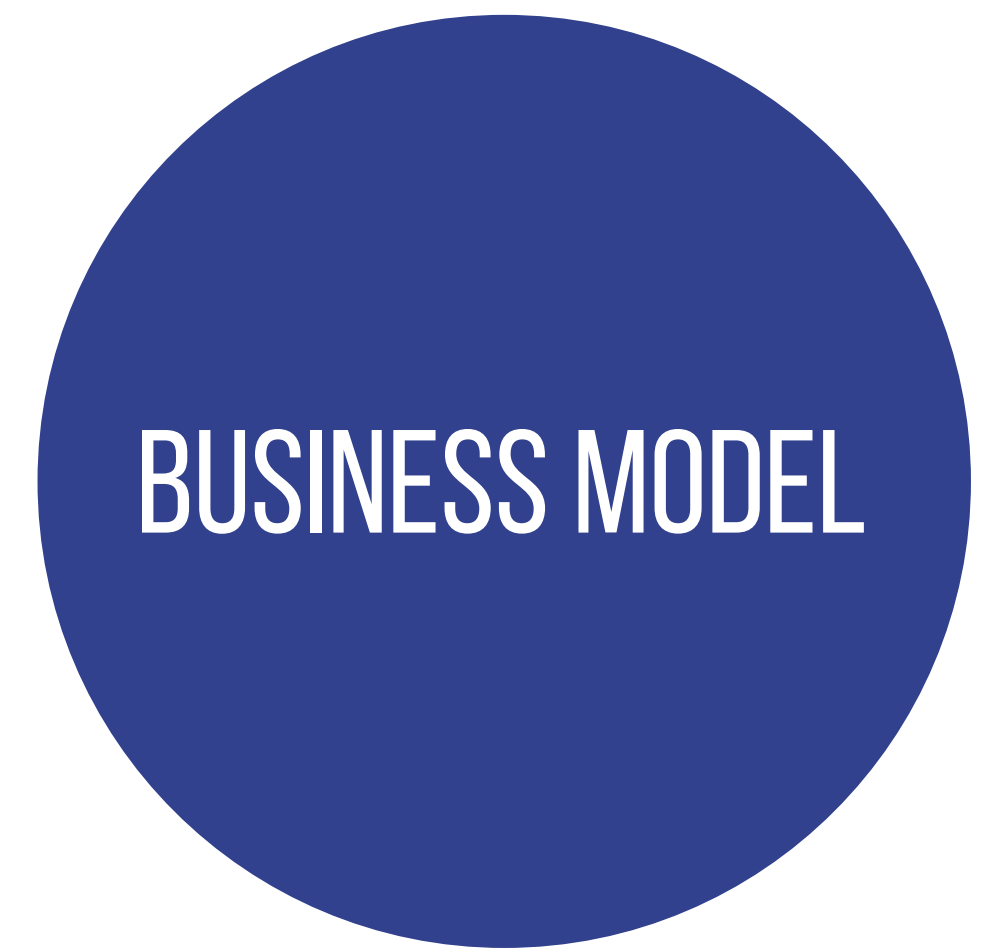
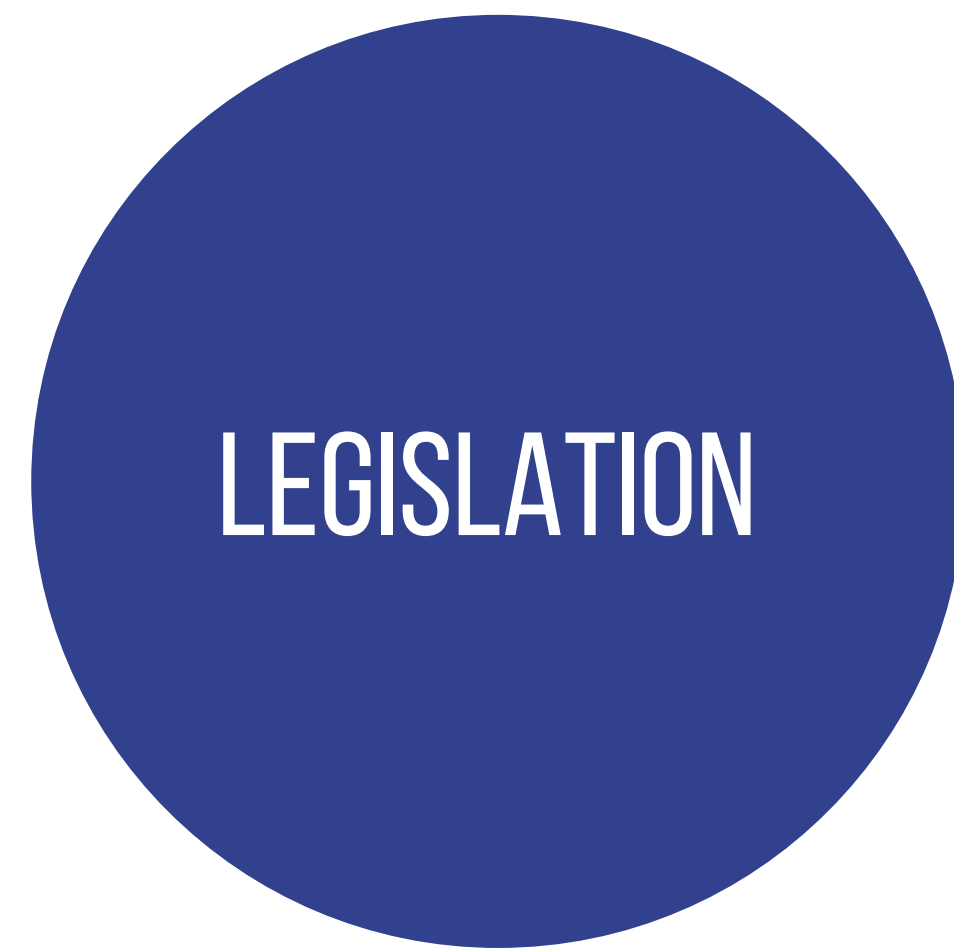
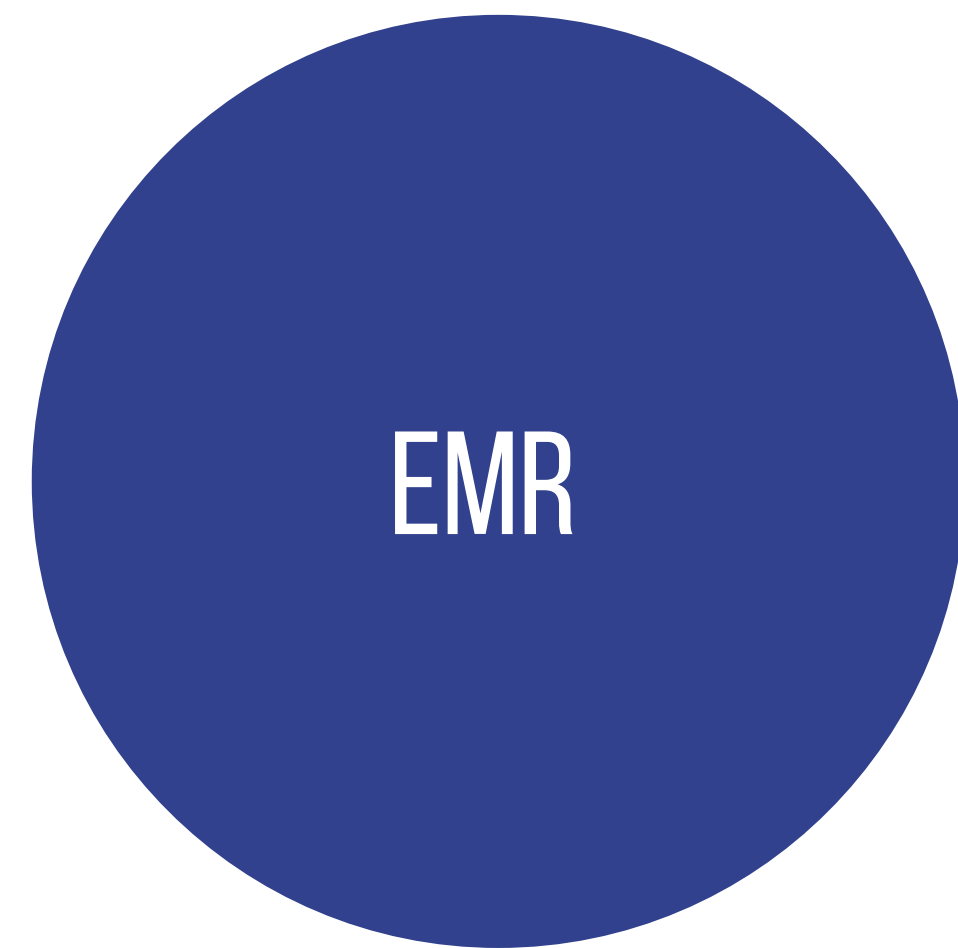
## ASSUMPTIONS

- 1) SMOOTH COMPLETION OF PROCEDURES REFUSING FREQUENCY RENEWAL
- 2) SMOOTH COMPLETION OF SELECTION PROCEDURE IN THE FORM OF TENDER
- 3) NO NEED TO REPEAT CONSULTATIONS ON THE SELECTION PROCEDURE

## RISKS

- 1) ANY DEVIATIONS FROM ADOPTED ASSUMPTIONS MAY CAUSE DELAY





[WWW.UKE.GOV.PL](http://WWW.UKE.GOV.PL)