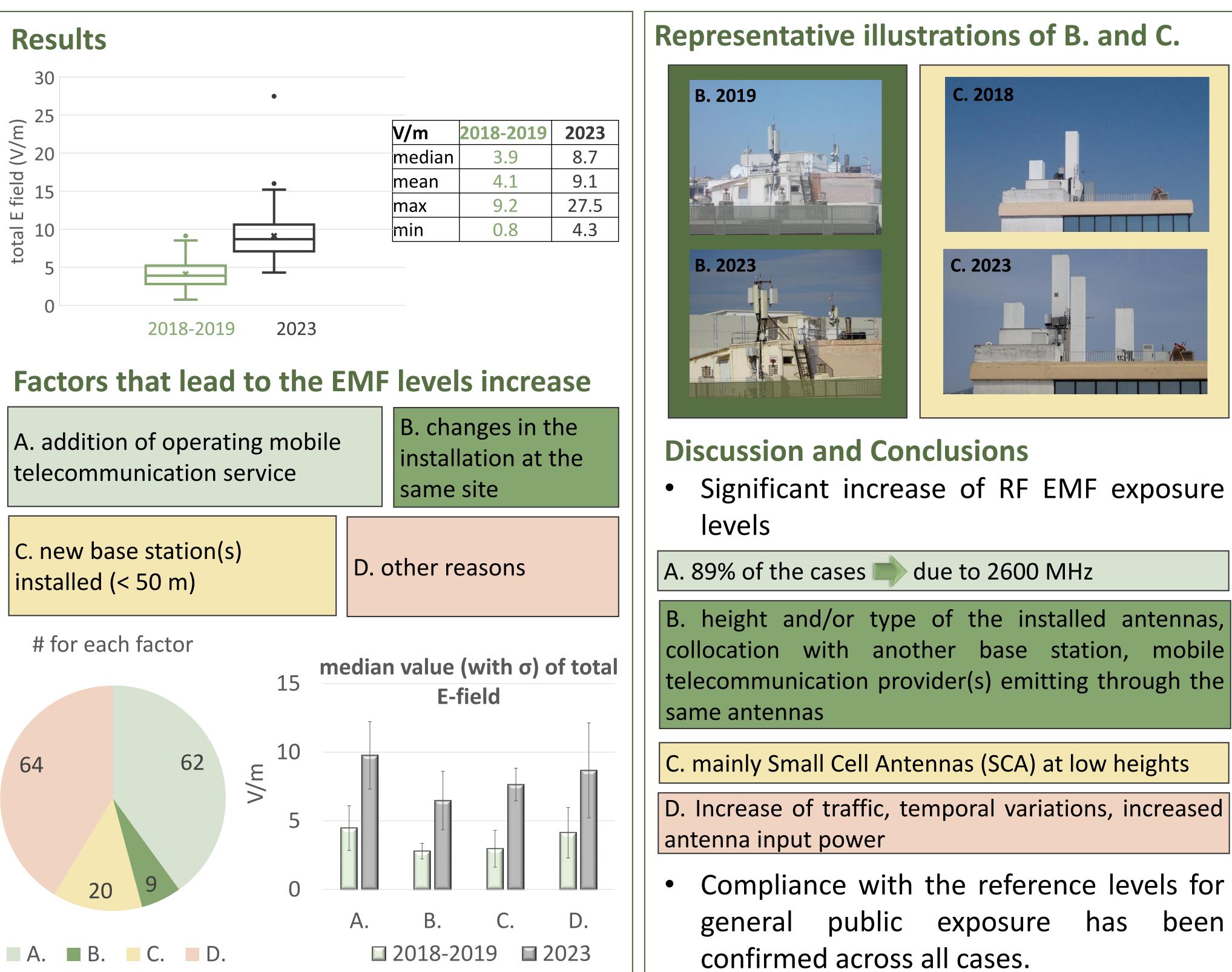
PANHELLENIC CONGRESS OF MEDICAL PHYSICS **4-6** OCTOBER 2024 | EUGENIDES FOUNDATION

Increase of RF EMF exposure levels at 27 - 3 GHz in the last five years: Case studies in Attica region in Greece Theodora Kyritsi¹, Arsenoi Ladia¹, <u>Maria Christopoulou¹</u>, Nikos Papanikolaou², Dimitris Papanikolaou², Efthymios Karabetsos¹, Dimitris Koutounidis¹ ¹Greek Atomic Energy Commission, ²Sine technologies GP

Background Greek Atomic Commission Energy (EEAE) 30 conducts annual in situ measurements in the (E 25 (E/) 20 vicinity of at least 20% of licenced base stations, with certain locations revisited every 4-5 years field 12 *Objective:* investigate the factors contributing to total E the potential increase of the EMF exposure levels through the years perform potential regulatory adjustments or mitigation strategies Materials & Methods ✓ SRM-3006, E-field antenna [27 MHz – 3 GHz] ✓ DL measurements at adjacent rooftops ✓ Frequency selective measurements at three successive heights: 110, 150, 170 cm, where the averaged E-field value over 6 minutes duration is saved $\sum_{i=1}^{3} E_{i,f}^2$ Attica region $E_f =$ 64 2018-2019 2023 ✓ 155 inspections ✓ same points **RF EMF exposure levels**





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