



EMF Workshop: How Best to Promote Science Based EMF Limits

EMF, The MCA's Multiple Roles



Spectrum Agency, NRA, Agency Responsible for Non-ionising Radiation



Give Peace of Mind to End Users





Regulating EMF

The MCA - EMF Work in Numbers



More Than

1000

Radio Base Stations Installed Across the Maltese Islands More Than

150

Fixed points to carry out EMF audits on a yearly basis

More Than

100

On-demand, on-site audits per year

More Than

2500km

Of drive tests to ensure nationwide EMF compliance along the Maltese roads



The Nationwide Carriageway Drive Test (1/2)

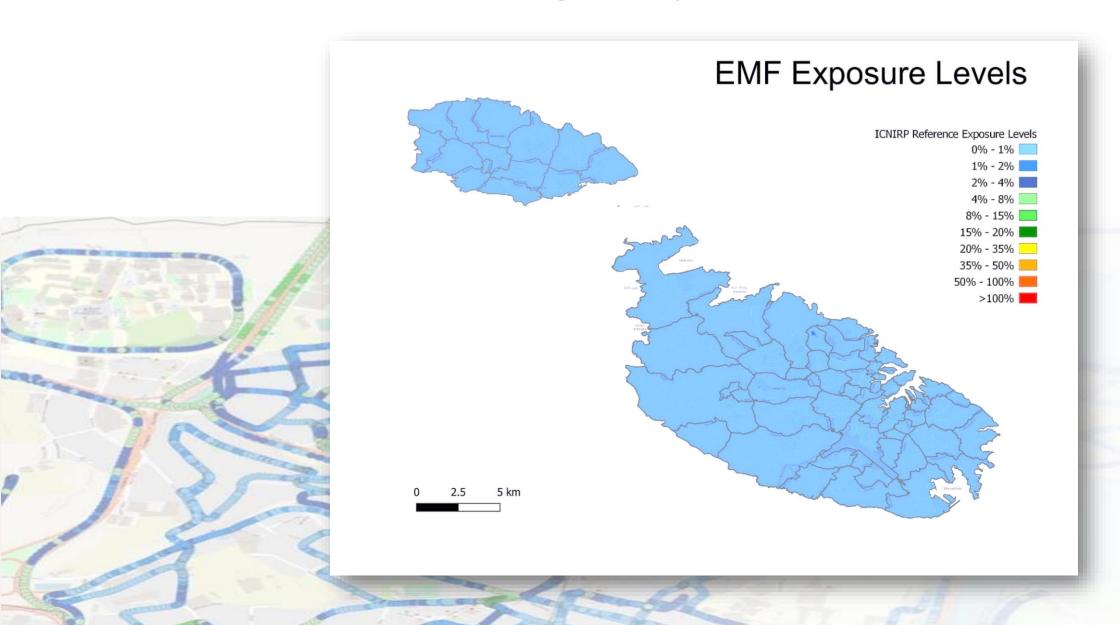




Overview of the nationwide EMF measurement Campaign 2020	Malta	Gozo
Total number of real-time measurements	358106	56109
Distance covered in km	2220 Km	350 Km
Duration of drive test in days	56 days	5 days
Mean EMF exposure level as a % of ICNIRP Guidelines	0.076%	0.03%
Median EMF exposure level as a % of ICNIRP Guidelines	0.017%	0.004%
Maximum EMF exposure level as a % of ICNIRP Guidelines	19.9%	3.64%

The Nationwide Carriageway Drive Test (2/2)





EMF and 5G

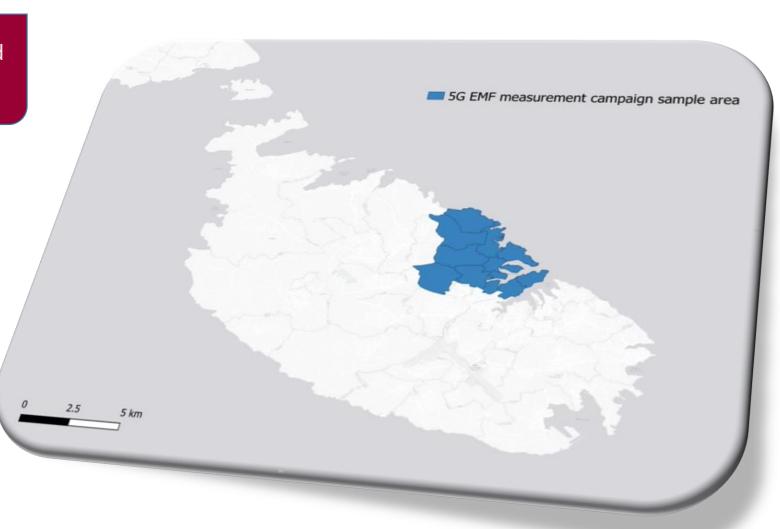


5G base stations artificially loaded to 100% capacity

16,618 EMF measurements taken over 95km

In-situ EMF audits

All street-level readings < 1% of ICNIRP



EMF 5G measurements (1/2)

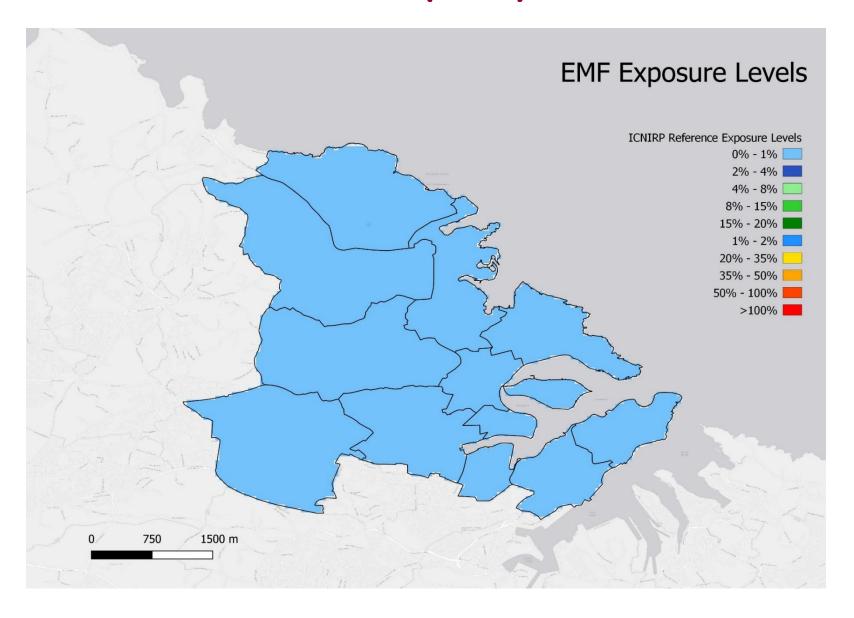


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EMF real-time measurement in the area of investigation	With 5G	Without 5G
Total number of real-time measurements	16618	101710
Mean EMF exposure level as a % of ICNIRP Guidelines	0.123%	0.069%
Median EMF exposure level as a % of ICNIRP Guidelines	0.047%	0.018%
Maximum EMF exposure level as a % of ICNIRP Guidelines	5.35%	7.62%

EMF 5G measurements (2/2)





EMF guidelines



14-day timeframe to notify MCA following installation or modification of base station

Three initial reports to be submitted plus yearly reports

Requirements set in line with the IEC 62232 standard

Coordination between MCA and network providers on the use and purchase of EMF simulation software



Consumer Focused Information

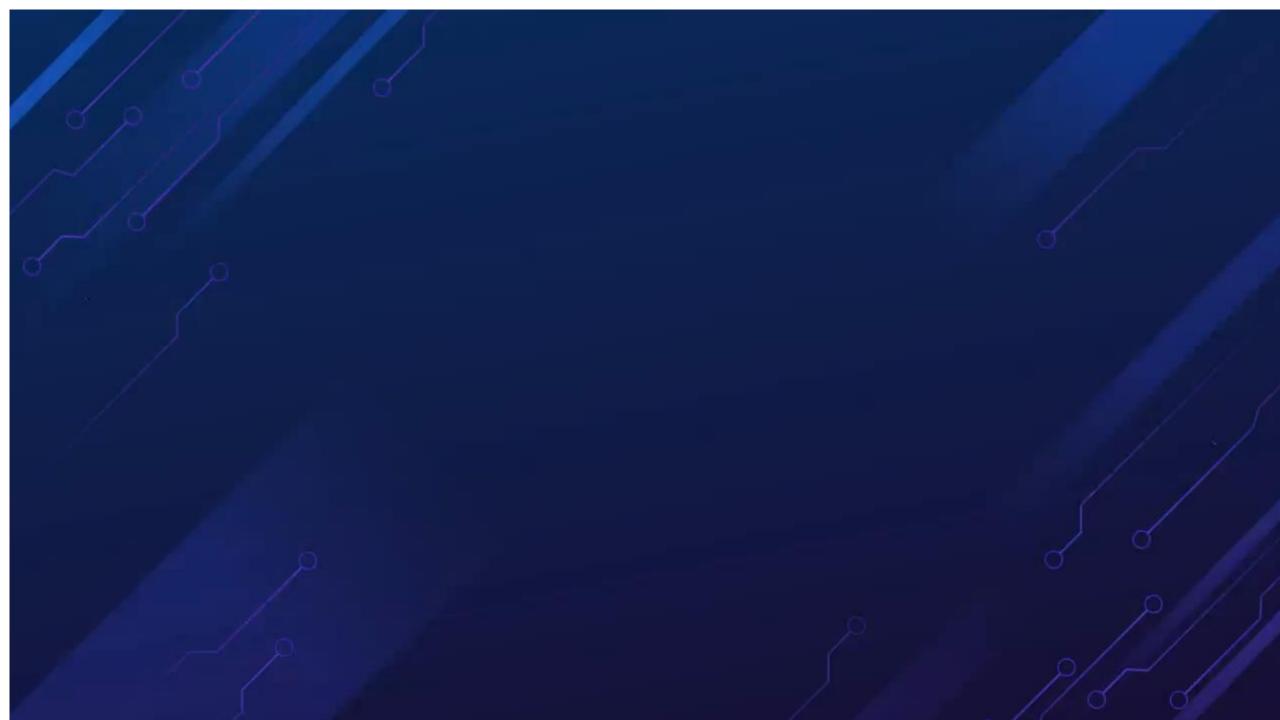
EMF campaigns





Faster Speeds, and more data

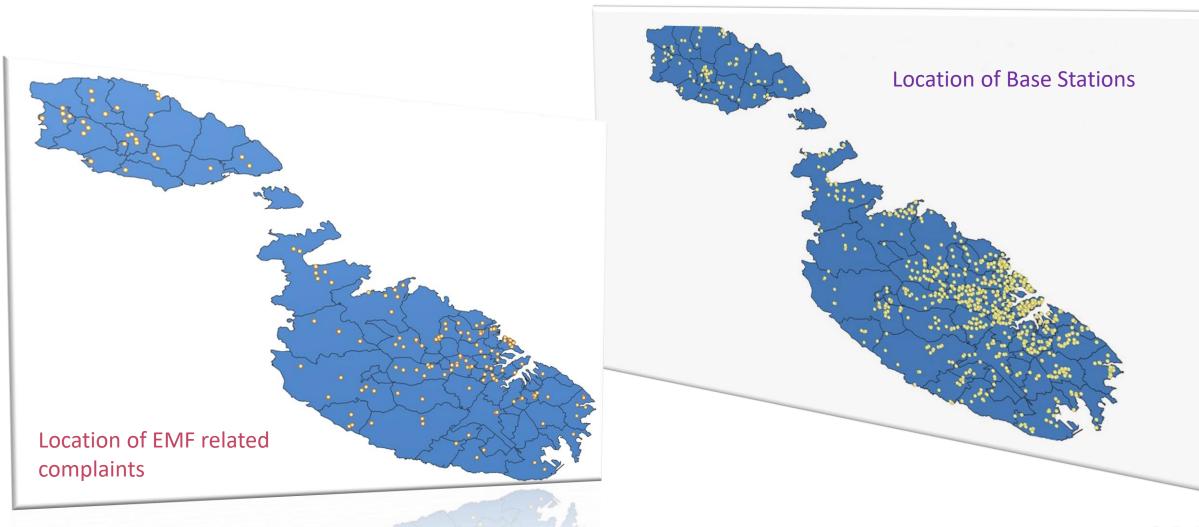






Data Driven Decision Making

Mapping of complaints vs Location of base stations



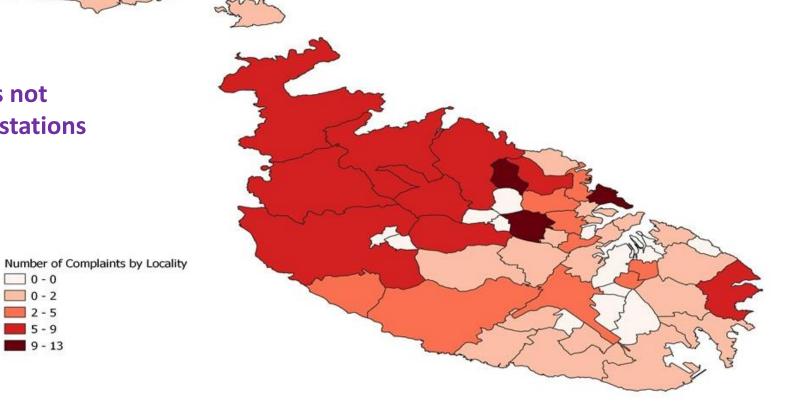


Demographic Mapping of EMF complaints



Analysing Complaints by Region







Thank you