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SERIES K: PROTECTION AGAINST INTERFERENCE

Generation of radio-frequency electromagnetic field level maps

Recommendation ITU-T K.113



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Recommendation ITU-T K.113

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Summary

Recommendation ITU-T K.113 provides guidance on how to make radio-frequency electromagnetic field (RF-EMF) maps for assessing existing exposure levels over large areas of cities or territories and for an appropriate public disclosure of the results, in a simple and understandable way.

History

Edition	Recommendation	Approval	Study Group	Unique ID*
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* To access the Recommendation, type the URL <http://handle.itu.int/> in the address field of your web browser, followed by the Recommendation's unique ID. For example, <http://handle.itu.int/11.1002/1000/11830-en>.

FOREWORD

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The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

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Introduction

One of the problems for deployment of telecommunication infrastructure, with regard to public opinion, is the distrust generated by the general population's lack of knowledge of electromagnetic field emissions and their resulting exposure levels.

In some countries, this distrust inhibits the deployment of these critical infrastructures, causing unnecessary tensions among the parties involved: citizens, governments, telecommunication operators.

This Recommendation provides a practical tool for assessing exposure levels in large areas of cities or territories, which complements the simulations, specific measurements and continuous monitoring already being carried out in many countries. (Technical guidance can be found in [ITU-T K.52], [ITU-T K.61], [ITU-T K.70], [ITU-T K.83], [ITU-T K.91] and [ITU-T K.100].) This Recommendation describes methods and tools for the development of the radio-frequency electromagnetic field (RF-EMF) maps.

This Recommendation also describes methods for communicating RF-EMF exposure data in a visual manner, i.e., through exposure maps, that may be better understood by the general public.