



THE UNITED REPUBLIC OF TANZANIA
TANZANIA COMMUNICATIONS REGULATORY AUTHORITY



EMF considerations for a sustainable digital transformation:

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EMF considerations for a sustainable digital transformation:

Addressing public concerns on health and safety around telecommunications installations



✓ **Communication everywhere**



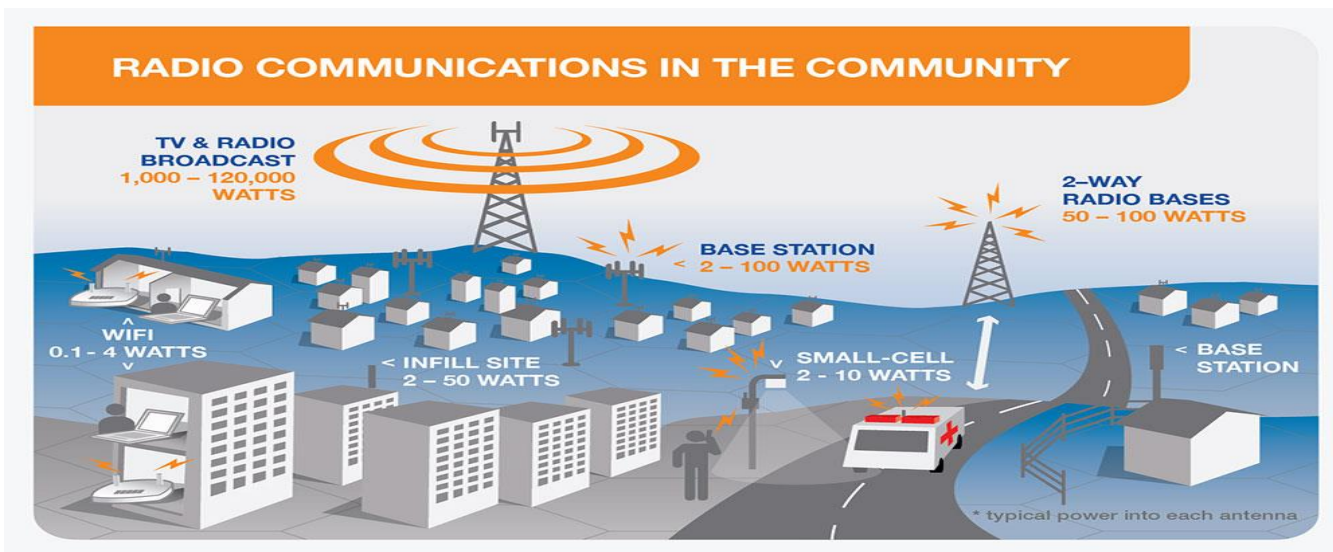
✓ **Are we aware?**



- ✓ **ICTs and EMF**
- ✓ **EMF and health**
- ✓ **EMF exposure limits**
- ✓ **EMF health and safety information**
- ✓ **Community information consultation and engagement**



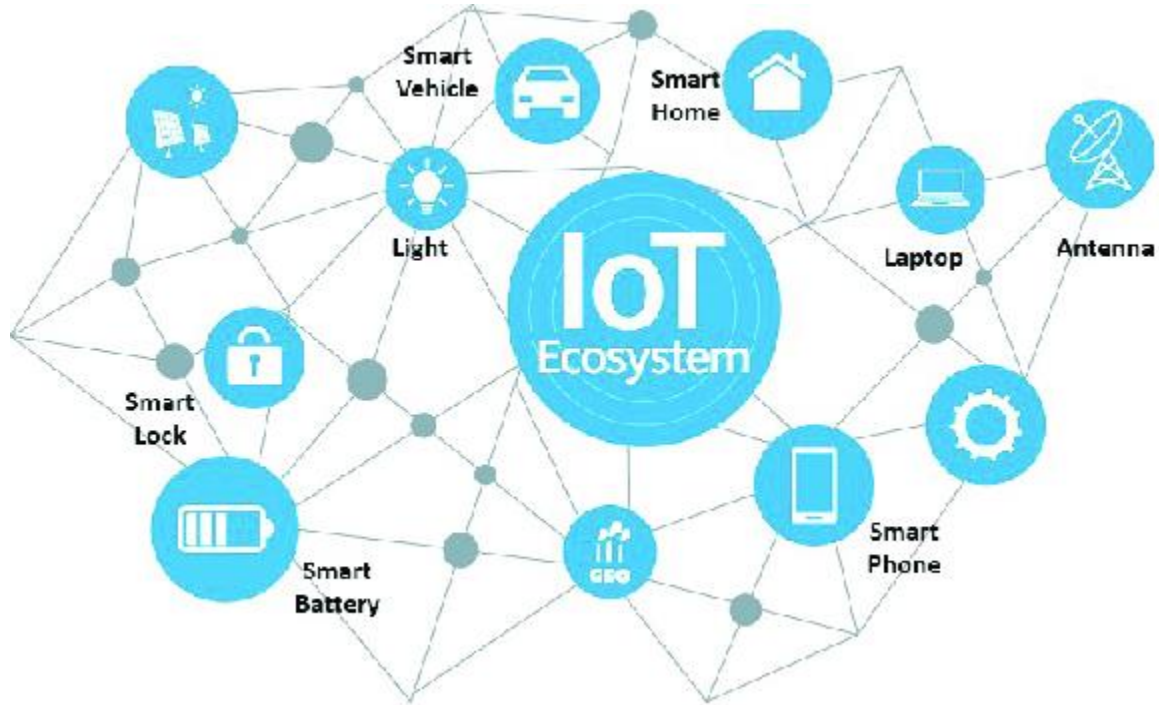
ICTs and EMF



- Source: https://www.itu.int/en/ITU-T/focusgroups/ssc/Documents/Approved_Deliverables/TR-EMF.docx

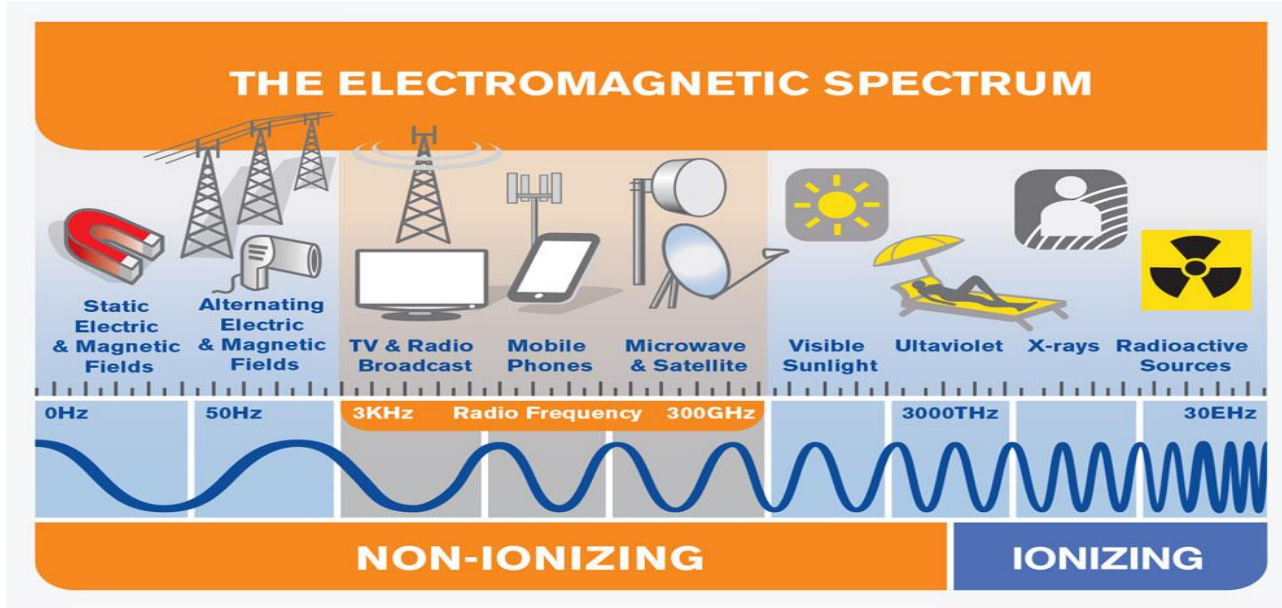


ICTs and EMF





ICTs and EMF..... cont



- Source: ITU-T, Supplement 1 to Recommendation ITU-T K.91 - Guide on Electromagnetic Fields and Health, 2014



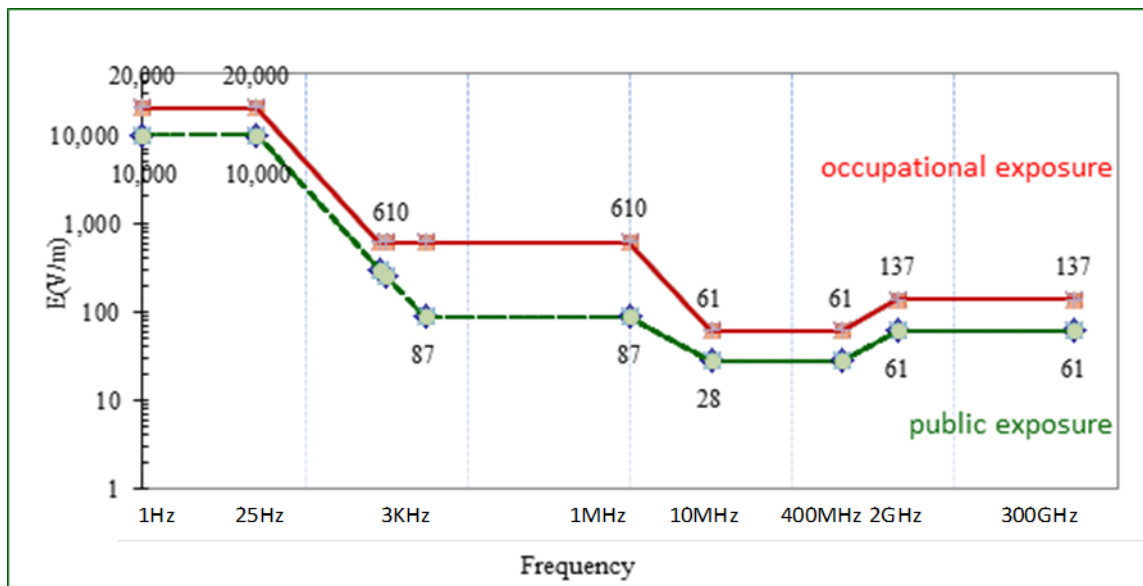
EMF exposure limits



- ✓ Internationally the exposure Limits are set by The International Commission on Non-Ionizing Radiation Protection (ICNIRP). It is a non-governmental organization which has official relations with the WHO. The ICNIRP guidelines form the basis of WHO and ITU Recommendations to governments and have been widely adopted around the world.
- ✓ These guidelines covers exposure to frequency ranges between 0 – 300GHz of which frequencies for ICT services are included



Exposure Limits.....



- Source: https://www.itu.int/en/ITU-T/focusgroups/ssc/Documents/Approved_Deliverables/TR-EMF.docx



Regulators.....

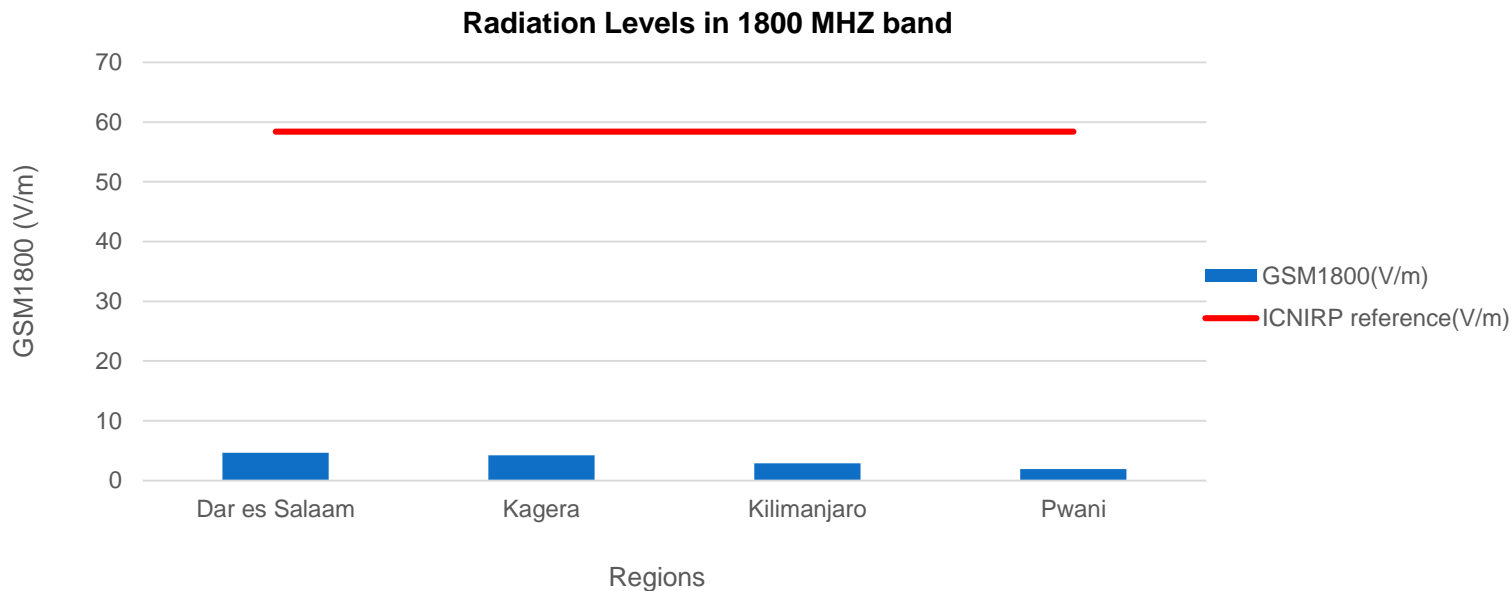


- Conduct measurements on EMF radiation
- Incorporate other interested parties (TAEC)
- Publish the measurement report for public consumption





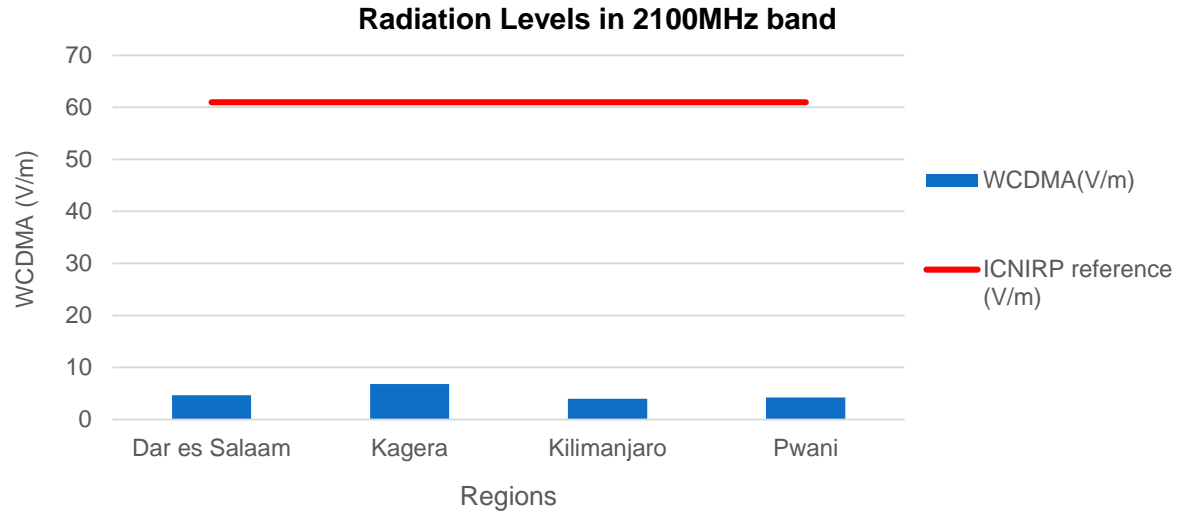
Exposure Limits.....



- source: www.tcra.go.tz EMF exposure measurements, Q1 2022/23



Exposure Limits.....



- source: www.tcra.go.tz EMF exposure measurements, Q1 2022/23



EMF health and safety information



- ✓ Most information available to the general public is from unreliable sources
- ✓ This creates fear, unrest and unnecessary worries to the general public
- ✓ The recommended source of information regarding EMF health and safety is from WHO
- ✓ EMF information for consumers should be prepared in a format that is concise and easy to read by the general public.



Selected sources for information on EMF topics



Information	Source
EMF and health	WHO EMF Project - http://www.who.int/peh-emf/en/ ICNIRP EMF documents - http://www.icnirp.org/PubEMF.htm
ITU-T EMF information	ITU-T EMF - http://www.itu.int/en/ITU-T/emf/Pages/default.aspx
ICT industry information	EMF Explained - www.emfexplained.info SAR Tick - www.sar-tick.com



EMF and health



✓WHO:

‘Extensive research has been conducted into possible health effects of exposure to many parts of the frequency spectrum including mobile phones and base stations. All reviews conducted so far have indicated that exposures below the limits recommended in the ICNIRP (1998) EMF guidelines, covering the full frequency range from 0-300 GHz, do not produce any known adverse health effect.

However, there are gaps in knowledge still needing to be filled before better health risk assessments can be made.’



Community information consultation and engagement



- ✓ public participation and consultation

risk communication is not only about presentation of scientific information about a given risk, but it also provides a forum for discussion on broader issues of ethical and social concern. With proper answers provided, the community feels safe

When a new development or technology appears in a town or local neighbourhood unexpectedly, local stakeholders can oppose it because they may feel offended or threatened by its appearance, or simply excluded from the process that led to its implementation.



Community information.....



- ✓ To avoid that.....
 - Build a working relationship with local stakeholders as a trustworthy and reliable party.
 - Provide stakeholders with trusted sources of information, and/or foster a dialogue between the parties involved.
 - Emphasize the community's benefits associated with improved mobile communications.

- Awareness..... Awareness..... Awareness.....



Thank you.



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