

# frequency coordination meeting on the GE84 Plan Optimization for Africa

24 - 28 January 2022



AFRICAN TELECOMMUNICATIONS UNION  
UNION AFRICAINE DES TÉLÉCOMMUNICATIONS



## Overview of GE84 Plan Optimization for Africa

Radiocommunication Bureau



# *The Geneva 84 Agreement*



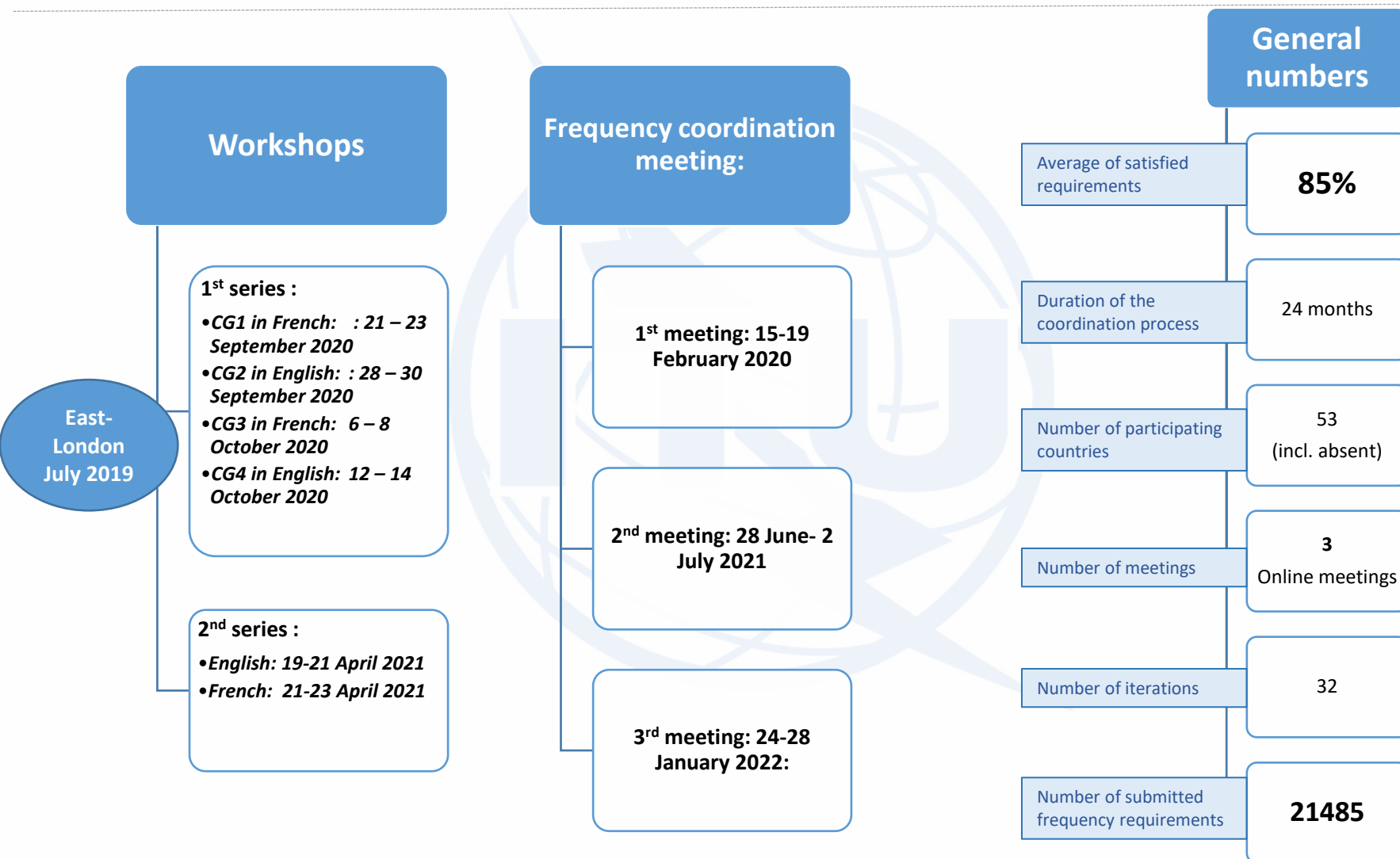
- Use of the Band 87.5 - 108 MHz for FM Sound Broadcasting (Region 1 and Part of Region 3)
  - 204 channels;
  - 100kHz channel spacing



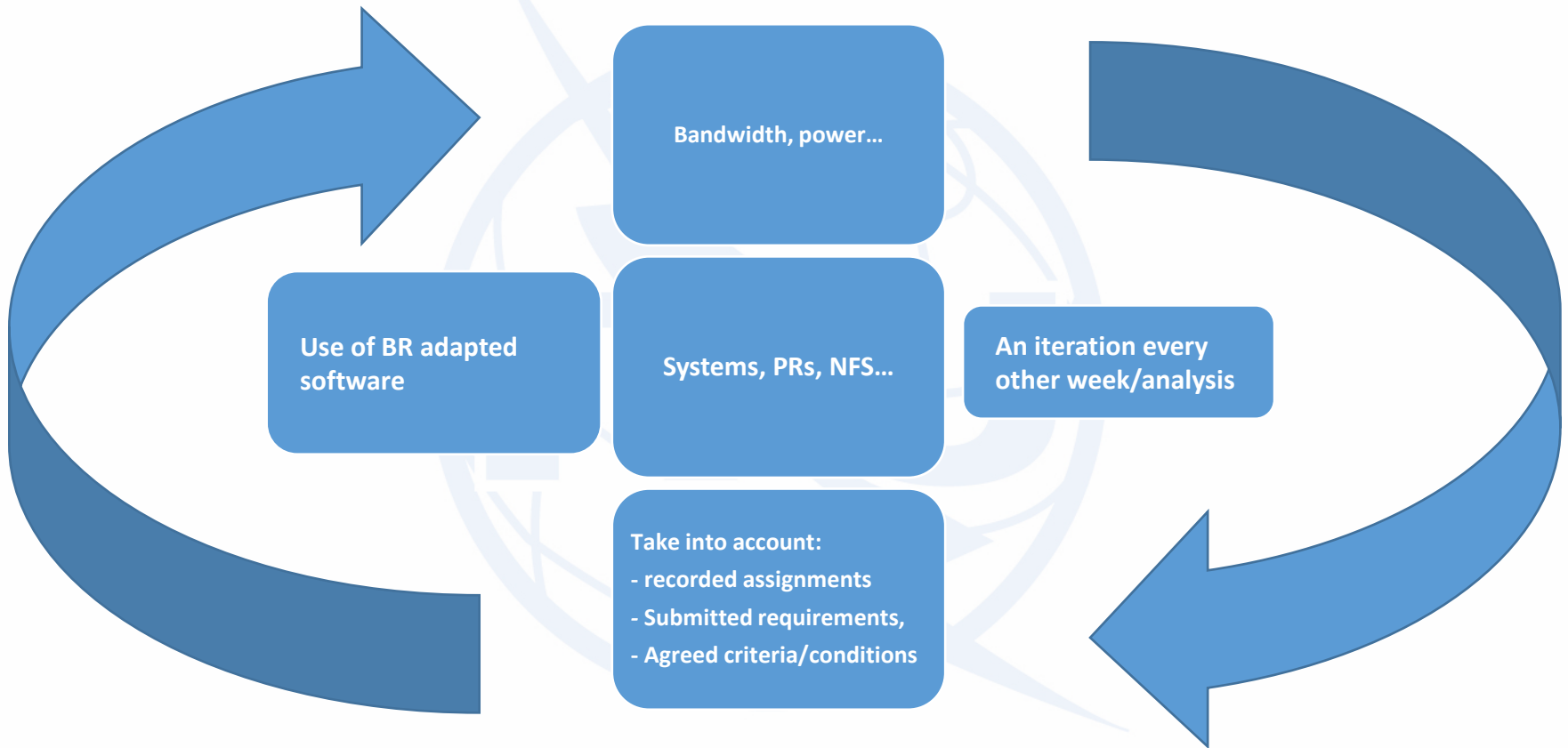
# Why optimize GE84 Plan for Africa?

- Address the **increasing demand** for new FM radio stations by enabling the assignment of new frequencies,
- GE84 Plan is **congested**, therefore, it is needed to:
  - Ensure an efficient use of the 87.5-108 MHz band for analogue sound broadcasting, by accurately reflecting the situation of the FM band in the Region, by reviewing the:
    - *GE84 Plan entries, and*
    - *corresponding entries in the MIFR.*
  - Ensure **compatibility** among the existing and new broadcasting frequency assignments,
  - Facilitate potential future introduction of digital sound broadcasting.

# Main steps of GE84 Plan Optimization for Africa



# BR support in the coordination process



***Capacity building (training on BR software, compatibility analysis, frequency assignments...) and assistance all along the process***

# Outcome of the frequency coordination meetings

## Multilateral agreement



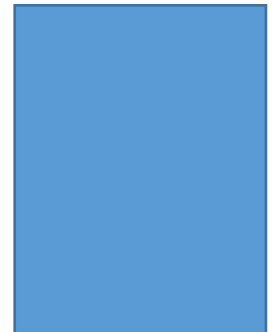
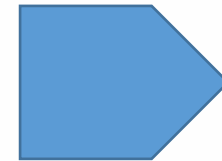
Toward a successful coordination process

- General agreed criteria and interference level
- Achieved frequency coordination for cases outside the agreed conditions on bi-lateral level

- Reasonable number of requirements, especially close to the borders;
- Suppress the Plan assignments that are not intended to be operated.



Assignments free of interference

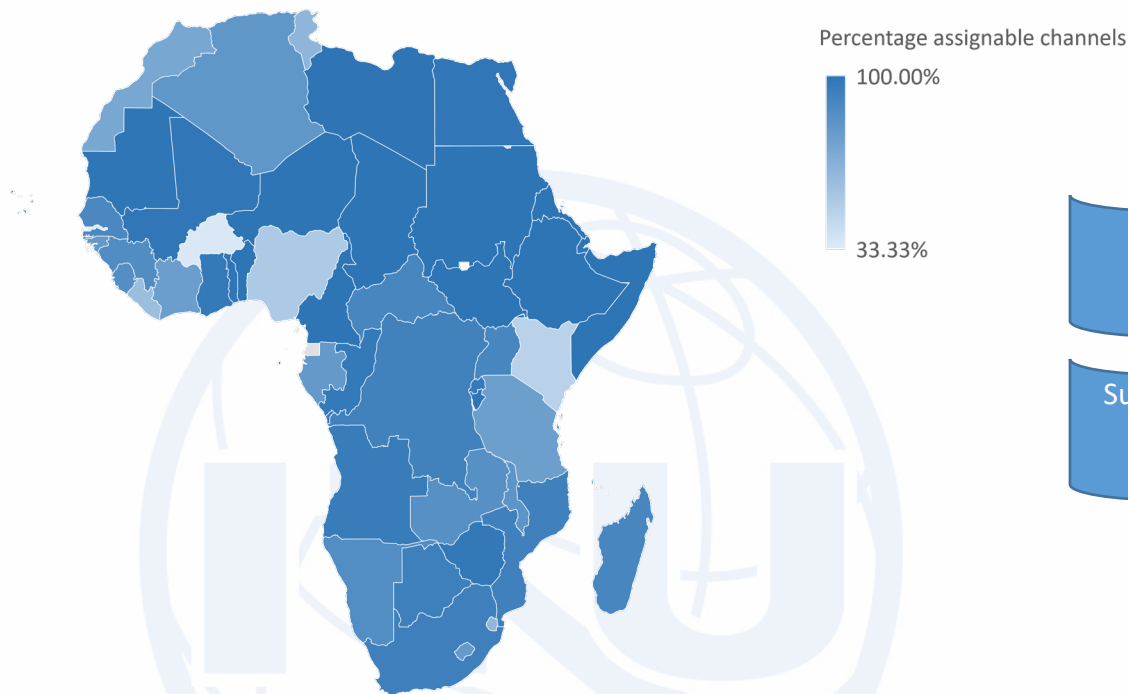




# GE84 Plan optimization for Africa-Few numbers



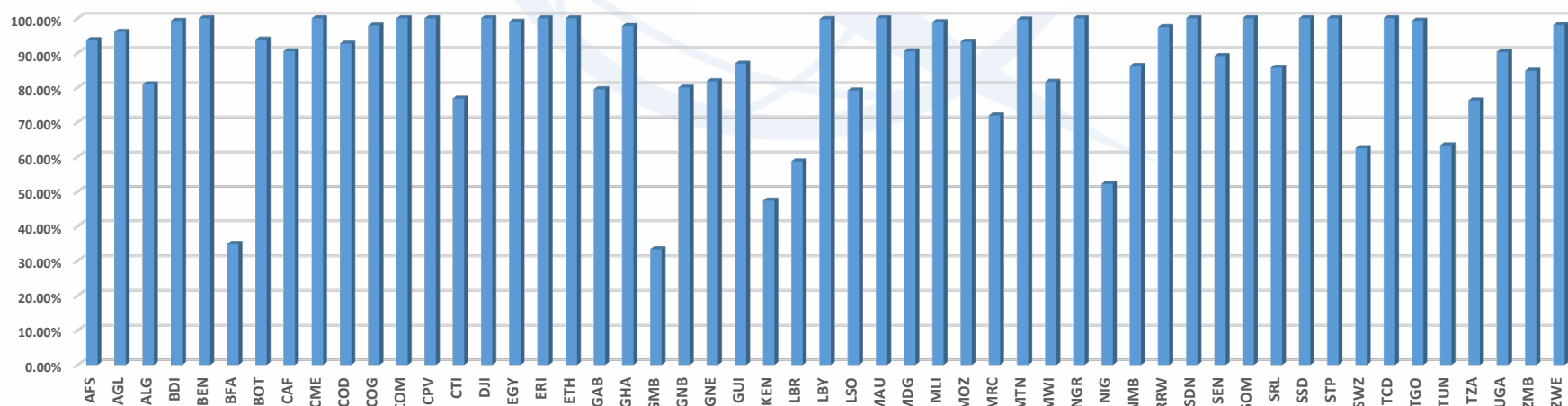
GE84 Plan optimization for Africa



Average assignable  
channels: **85%**

Successfully coordinated  
channels: **18326**

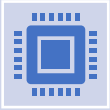
Percentage of assignable channels



# GE84 Plan optimization success



The success of GE84 optimization came as result of:



Intensive involvement by administrations in:

updating the GE84 Plan,  
updating the MIFR,  
providing the necessary data/requirements,  
mastering the software and tools provided by ITU,



Active and fruitful participation in  
the frequency coordination meetings

Engineers in charge of the GE84 Plan and/or frequency  
assignment for FM radio,  
Same participating experts from all administrations involved  
along the process,



Identification of mutually compatible assignments.



# Quick Links

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- Website for the GE84 Optimization Project:  
[www.itu.int/en/ITU-R/terrestrial/broadcast/africa/Pages/default.aspx](http://www.itu.int/en/ITU-R/terrestrial/broadcast/africa/Pages/default.aspx)
  - GE84 online workshops material:  
[www.itu.int/en/ITU-R/terrestrial/broadcast/africa/Pages/Workshop.aspx](http://www.itu.int/en/ITU-R/terrestrial/broadcast/africa/Pages/Workshop.aspx)
  - GE84 Software (on eBroadcasting portal):  
[www.itu.int/ITU-R/eTerrestrial/eBroadcasting](http://www.itu.int/ITU-R/eTerrestrial/eBroadcasting)
  - Final Acts of the GE84 Agreement:  
[www.itu.int/pub/R-ACT-RRC.5-1984/en](http://www.itu.int/pub/R-ACT-RRC.5-1984/en)
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Thank you!