

# 5G Broadcast for the Distribution of PSM Content and Services

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SWR



## AV Media User Trends

### Smartphones / Tablets:

- turned into personal electronic interfaces to the world
- are strategic targets for **ALL** our content and services
- must be served with high quality

## AV Media User Trends

### Top Level Future Use Case: Autonomously Driving Cars

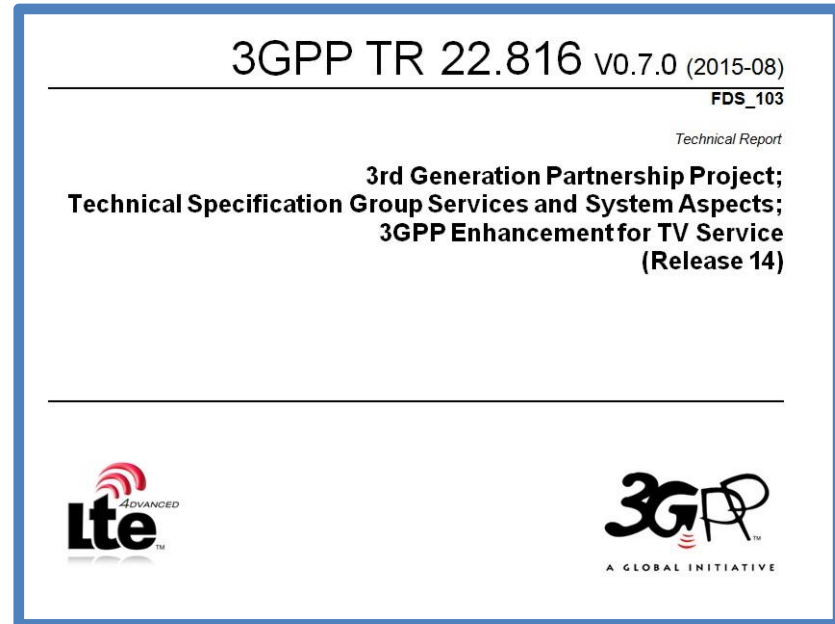
- spare time
- 360° head-up display
- geo-referenced  
recommenadations
- travel related services



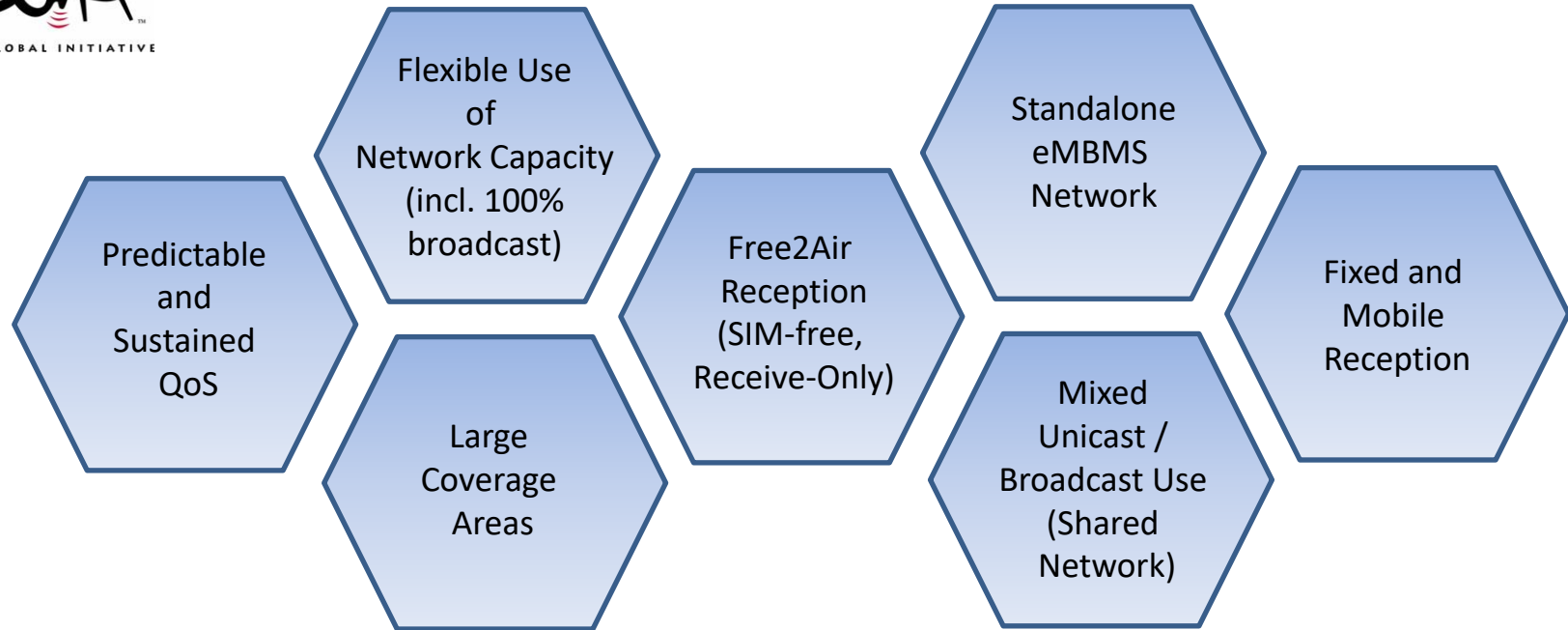
## Where the 5G Broadcast journey started ...

More than six years ago ...

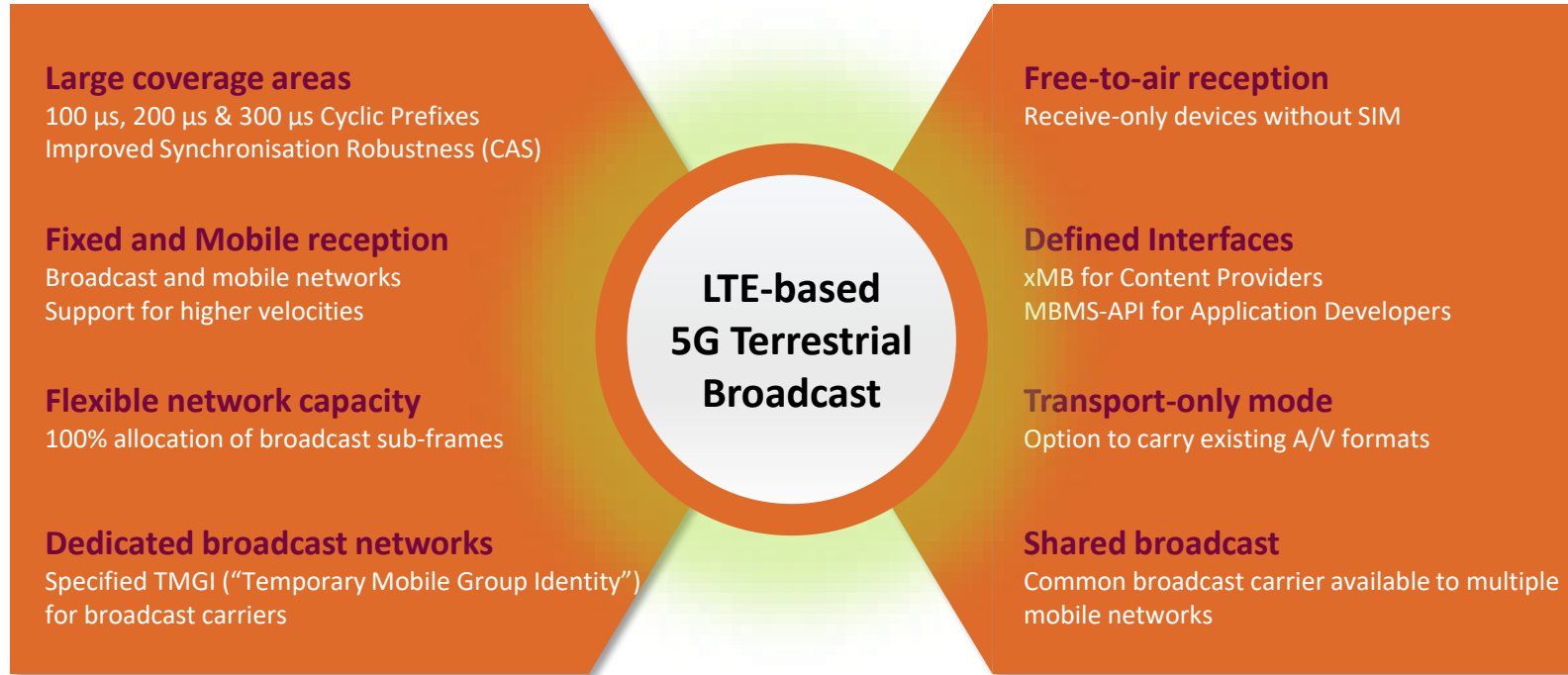
Enhancements for eMBMS



# PSM Requirements



## 3GPP Release 14 / 16



# 3GPP Release 17 / 18

3GPP TSG RAN Meeting #91-e  
Electronic Meeting, March 16 - 26, 2021

RP-210739  
(revision of RP-210127)

Source: EBU  
Title: New WID on new bands and bandwidth allocation for LTE based 5G terrestrial broadcast  
Document for: Approval  
Agenda Item: 10.1.4

## 3GPP™ Work Item Description

Information on Work Items can be found at <http://www.3gpp.org/Work-Items>  
See also the [3GPP Working Procedures](#), article 39 and the TSG Working Methods in [3GPP TR 21.900](#)

Title: WID on new bands and bandwidth allocation for LTE based 5G terrestrial broadcast

Acronym: LTE\_terr\_bcast\_bands

Unique identifier:

NOTE: For new WIs/SIs leave the Unique identifier empty and make a proposal for an Acronym.  
For a revised WI/SI: Take Unique identifier and acronym as shown in 3GPP workplan.  
If this is a RAN WID including Core and Perf. part, then Title, Acronym and Unique identifier refer to the feature WI.  
Please tick (X) the applicable box(es) in the table below:  
Either:

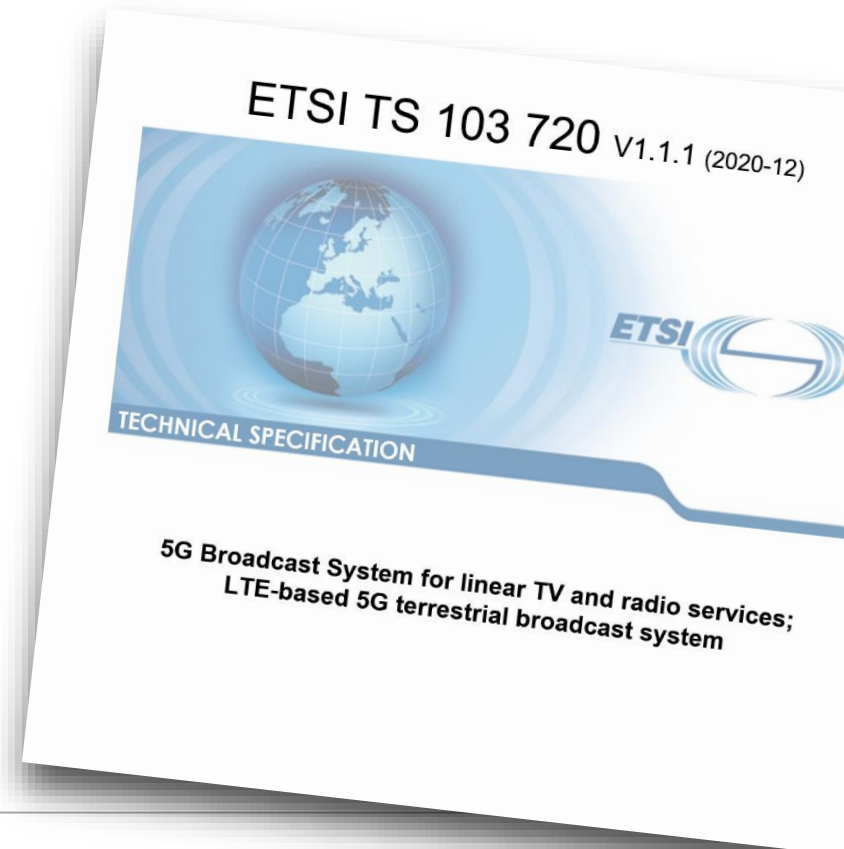
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## Supporting Individual Members

Supporting IM name
EBU
Qualcomm
NTT Docomo
ONE Media 3.0
Saankhya Labs
Cellnex
BNE
TDF
Rohde & Schwarz
Digital Catapult
IIT Bombay
LGE
ATEME
Dolby
ESA
SJTU
University of the Basque Country
Synch Techno Inc.
Fraunhofer IIS
Fraunhofer HHI
VIVO
Reliance Jio
TCL Communication Ltd.
Enensys
Panasonic
DTS/Xperi
FAU
Facebook

## ETSI TS 103 720

- Defines the concept of a **5G Broadcast System**
- More specifically, defines the **LTE-based 5G Terrestrial Broadcast System**
- Summarises the system as an implementation profile of a subset of 3GPP specifications
- **Published December 2020**





## Introduction of 5G Broadcast in ITU SG6 Documents

- Based on ETSI 103 720 wherever possible
  - Addition information from other public sources
- Initial update of **five** ITU documents
- Submission to March 2021 Meeting of ITU-R WP6A



## 5G Broadcast Key Take-Aways

- 5G Broadcast is no replacement of DVB-T2 for stationary reception
- 5G Broadcast targets smartphones, tablets and vehicles
- 5G Broadcast can carry both linear TV and radio programmes
- To be deployed globally in sub700 MHz by BNOs
- Information of the public in cases of emergency, crisis, ...
- Simultaneous usage of 5G and 5G Broadcast may unlock new, innovative use cases and business opportunities
- Information on 5G Broadcast trials at <https://www.5g-mag.com/trials>

**Thank you very much for your attention!**

**Questions?**

