

5G for Media Distribution: Walking the path towards deployments

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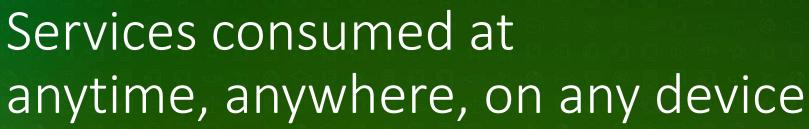




5G is coming...

- Technology under standardisation
- Networks under deployment
- Being shaped to on-board «verticals»









• News, sports, live events,...

Non-Linear

• Catch-up, on-demand, personalisation, podcast, targeted advertising,...

Enhanced Media Services

Linear + Non-Linear

 All widely offered by public service and commercial media organisations













Why 5G for media distribution?

- 5G offers genuine support for wireless IP distribution
 - Both distribution of linear and non-linear contents are supported by 5G standards
- 5G is a global standard with world-wide market reach



- Only way to address smartphones, tablets and mobile devices
 - Penetration into automotive market (media to vehicles, infotainment systems)
 - Prospects into the residential market to enable indoor reception (fixed-wireless convergence)



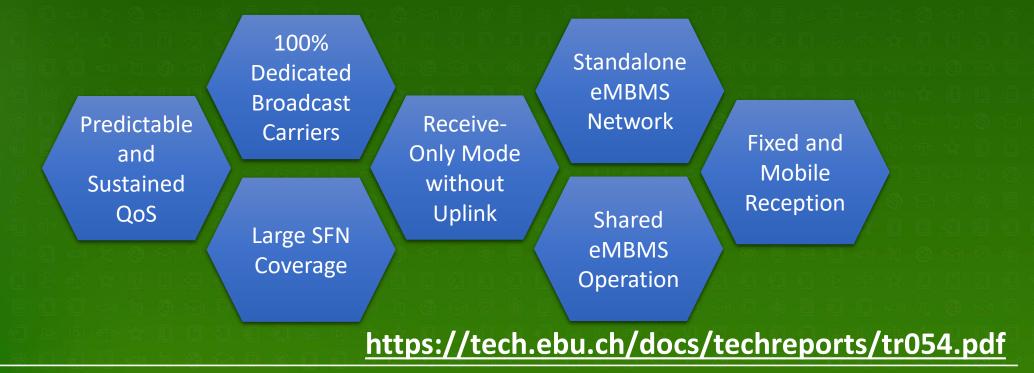
Why 5G for media distribution?

- But... Can 5G meet the requirements for Public Service Media distribution?
 - Scalability to reach large audiences
 - Universal access and coverage
 - Free-to-air reception
 - Guaranteed Quality of Service
 - Service Integrity
 - Sustainable distribution cost
 - Control and low degree of gatekeeping
- Most of these requirements are common both to PSM and commercial media providers



5G Broadcast

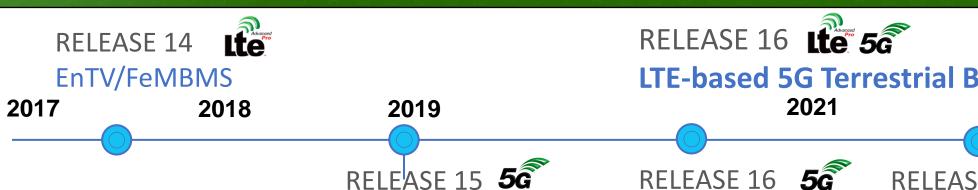
- 5G Broadcast (Release 16) is a technology that could enable some of the requirements
- Major improvements in Rel 14 and 16 in response to proposals by PSM





More 3GPP technical enablers

- Opportunities for cellular, terrestrial and satellite distribution to optimize investments and maximise coverage
- Leveraging of additional technologies for media distribution, e.g. edge caching and edge computing, content replacement, targeted advertising and personalization, AI, cross-device content consumption







RELEASE 17 56 **5GC and NR Multicast/Broadcast 5G Media Streaming Architecture**



The 5G Media Action Group (5G-MAG)

 Involvement in 3GPP largely led by the EBU and its members (e.g BBC, IRT, RAI) in collaboration with the industry

 5G-MAG brings the global framework towards actual deployments and implementation









C≘ateme

france-tv

















cellnex



plus





















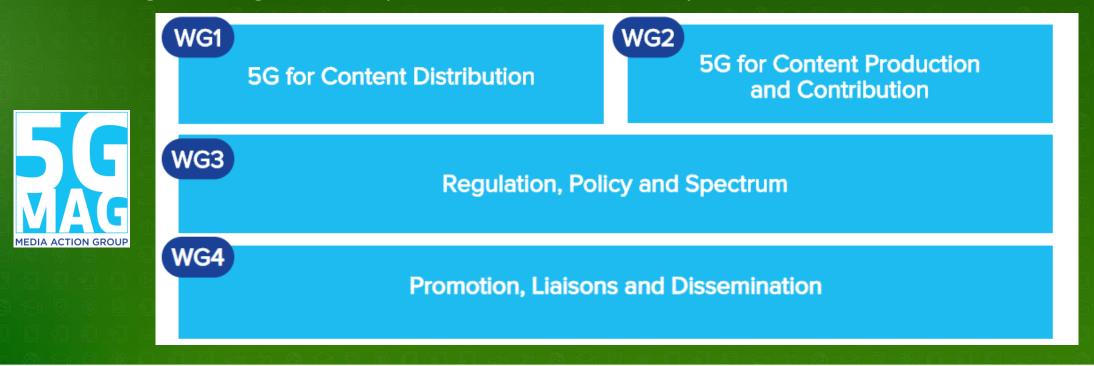






The 5G Media Action Group (5G-MAG)

- 5G also being shaped to meet the requirements for media production and contribution
 - Newsgathering, remote production, media campus networks,...





5G standards are not enough

What is needed for 5G to become reality in the media setor?

Market certainty for successful implementation

• Identify the **business models** and **commercial arrangements** required among stakeholders and associated **economic** and **regulatory implications**

Equipment availability and market size

 Analyse the requirements in terms of network equipment, terminals and infrastructure that could foster global deployments

The role of policy makers

- Supporting a long term vision for the media sector as one of the important verticals
- Providing certainty to stimulate investment on equipment, networks and services



Thank you!

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