

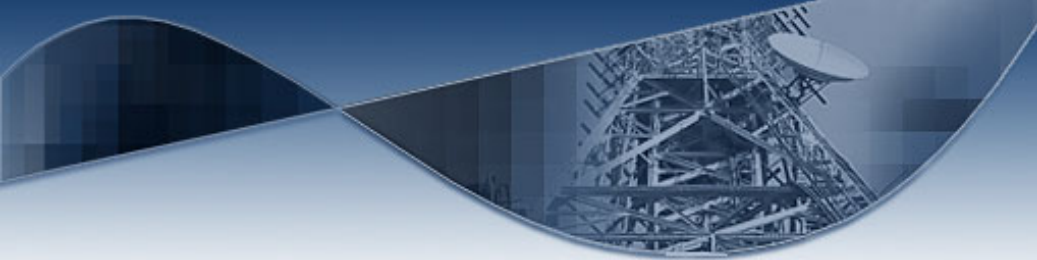


# Broadcast-Broadband Convergence and 5G

## The current status

- Mobile and Broadcast are completely separated worlds
- contentions on spectrum (800 MHz/WRC07; 700MHz/WRC12 tbc.)
- A lot of regulatory/high-level groups to clarify the „UHF-future“
- Consumer expectation (everything, everywhere, at any time on any device)
- Vague ideas to merge Broadcast and Broadband technologies (eMBMS is not sufficient)
- Possible benefits: better spectrum usage, attractive new business models

How to overcome this problem?



## Proposal

- Support and fund R&D projects on Broadcast/Broadband convergence
- Main research topics:
  - scalable, flexible RAN architecture  
(LPLT/HPHT; unicast/broadcast; mobile/stationary reception;  
linear/non-linear content; SD/UHDTV)
  - Operational models (Free-to-air vs SIM-card bounded)
  - Dynamic adaptation of unicast-/broadcast capacity
  - Handover mechanisms from any unicast to any broadcast network
  - Uncompromising cost cuttings

=> Include Broadcast/Broadband convergence into 5G PPP



# Thank you for your attention

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