

# Press Information

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Mobile World Congress 2012  
27 February to 1 March, Barcelona  
Hall 2, Booth E41

The Fraunhofer Heinrich Hertz Institute at the Mobile World Congress 2012

## LTE-Advanced – Advanced Resource Management for LTE

At this year's Mobile World Congress the Fraunhofer Heinrich Hertz Institute HHI presents MWC solutions for cost-efficient, application-oriented resource management for LTE.

### Fraunhofer HHI exhibits at a glance

#### LTE-Spectrum Sharing – joint usage of LTE networks

A technology developed by Fraunhofer HHI enables load and channel-agnostic distribution of the mobile wireless spectrum between two or more network providers. Joint usage of their networks – i.e. their frequencies and infrastructures – allows providers to deal more quickly with capacity bottlenecks and close white spots in network coverage in rural areas. At the same time it also enables mutual offsetting of short peak loads and higher data rates to be supplied to more users. At GSMA 2012 Fraunhofer HHI gives a live demonstration of Spectrum-Sharing over LTE.

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#### DASH over LTE – for reliable and flexible video transmission

At MWC researchers from Fraunhofer HHI demonstrate interference-free transmission of Web videos to mobile receiver devices. In this novel approach they have combined the new mobile communications standard LTE with DASH – a Dynamic Adaptive Streaming over http Web-streaming format. DASH enables delivery of videos in various data sizes and qualities – both 2D and 3D. Transmission switches seamlessly between the various formats depending on available network capacity and signal strength. The advantages for users are uninterrupted video transmission and a superb viewing experience. At MVC 2012 HHI researchers will premiere their Cross-Layer approach in a simulation.

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