

# Digitizing healthcare using 5G

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## Abstract

The e-Health sector is identified as a priority in the European Digital Agenda and subsequently in many national digital agendas because of the amount of spending as well as the worrying rise in healthcare costs. On this background, digitization and virtualization of care have been considered a major driver for both improvement of health services and reducing costs. 5G has the potential to be a major enabler for a vision where monitoring, diagnosing and treating patients can take place, anyplace, anywhere, and anytime, essentially removing the walls of the hospital. The best medical experts can be involved instantly for fast diagnostics & treatment, for example acting remotely from an emergency department in a hospital, right into the back of an ambulance. In this talk, the motivation for digitizing healthcare will be presented, along with a number of use cases where 5G based trials and pilots are ongoing. Insights found from technical as well as business aspects will be presented.

## Bio



Per Hjalmar Lehne is Senior Researcher in Telenor. He received his MSc from the Norwegian Institute of Science and Technology in 1988 and has since been with Telenor working with different terrestrial mobile communications technologies. His work has especially been in the area of radio propagation and radio access technologies, especially on multiple antenna systems and radio access technologies for mobile and wireless. He has also been engaged in spectrum management techniques and cognitive radio research. He is participating in several international research projects in the EU framework leading trials with 5G verticals. His current scientific interests are on 5G radio access and massive MIMO systems, as well as 5G evolution towards 6G.