



## Name & Organisation

*Dr Rob Rideout - ARKA*

## Presentation title

*Developments in the field of digital ground stations and their impact on satellite spectrum monitoring*

## Abstract

*Recent advancements in digital, software-defined ground station technologies can transform the landscape of satellite spectrum monitoring and usage. We discuss how traditional analog systems are being replaced or augmented by digital architectures that offer enhanced flexibility, scalability, and signal processing capabilities. New developments enable faster and more precise spectrum monitoring and trend analysis. We explore the evolution of digital ground stations, their impact on satellite communication infrastructures, and implications for spectrum monitoring.*

## Short bio

*Rob has 30 years of experience working in the SATCOM industry predominantly developing and implementing advanced techniques for satellite interference detection and geolocation. Rob is currently working as a Business and Technical consultant to ARKA who develop and produce software-defined digital ground station and signal monitoring products and capabilities.*