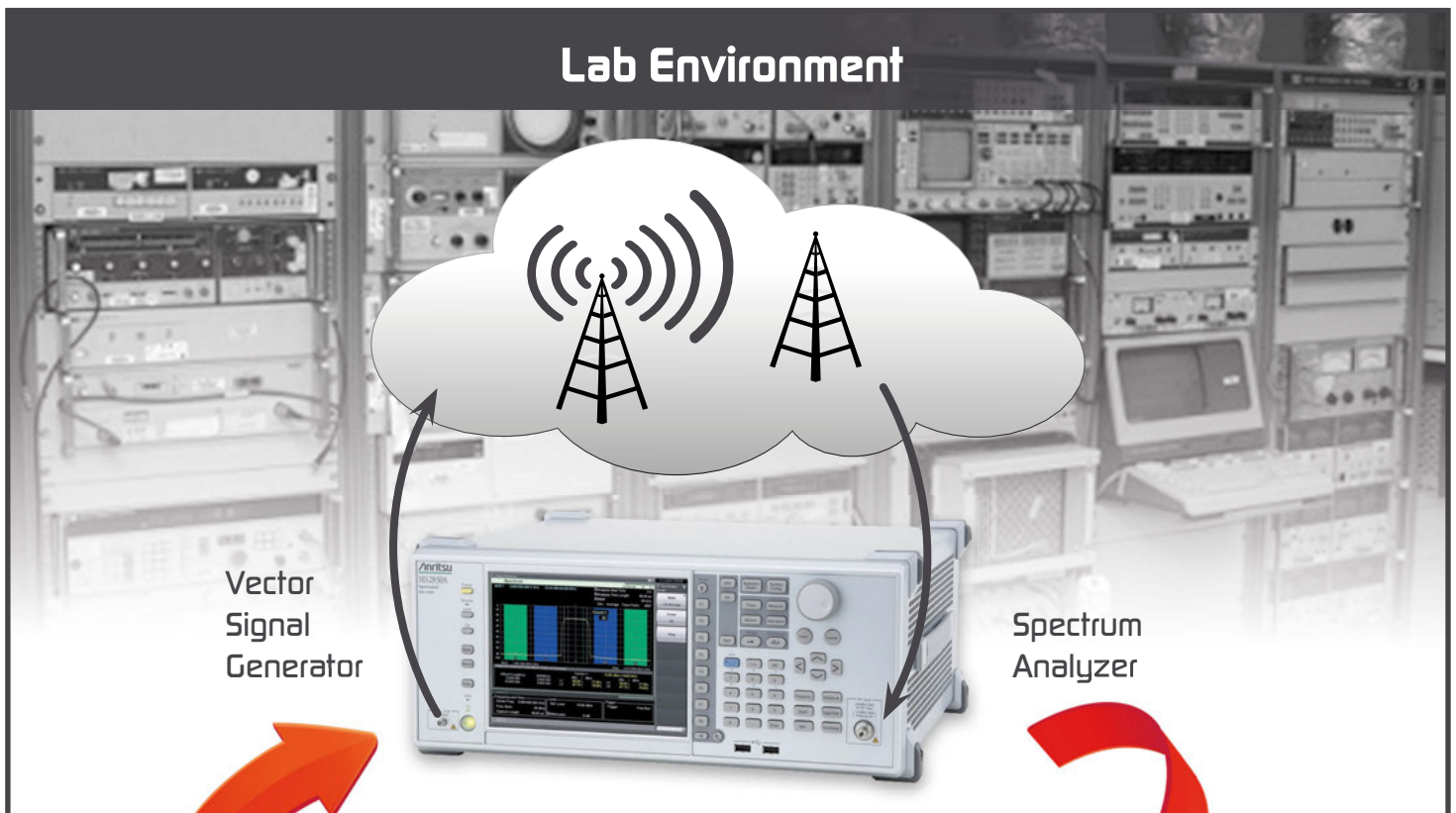# Advanced Signal Processing & Analysis Functions for the Lab

Radio-over-Fiber for Distribution of 5G Services

Lab Environment

Vector Signal Generator

Spectrum Analyzer

VPIlabExpert™

- ✓ Waveform generation (coding)
- ✓ Signal pre-distortion
- ✓ Emulation of component characteristics
- ✓ Emulation of transmission effects
- ✓ Automated signal synchronization
- ✓ Signal demodulation and DSP
- ✓ Performance analysis (BER, EVM,...)
- ✓ Iterative optimization