

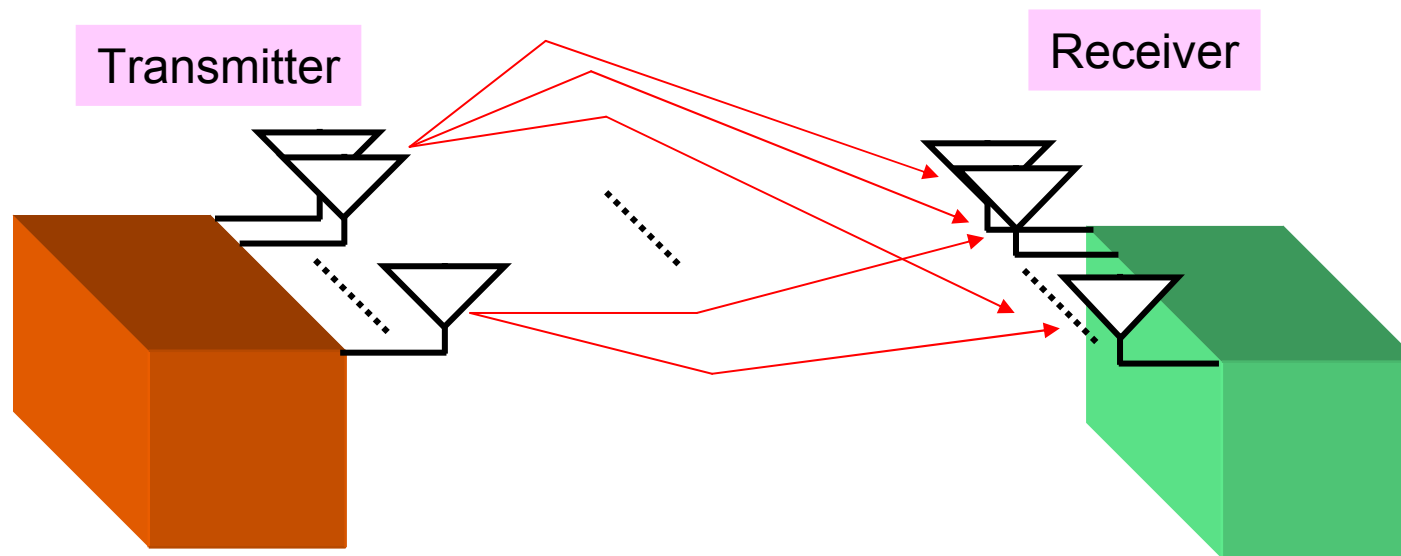


# Introduction of MIMO



# What's MIMO ?

- Multiple Input Multiple Output (MIMO) is a technique for high data-rate communications which is achieved by transmitting multiple data streams by using several antennas at both the transmitter and the receiver.



# Where is MIMO employed ?

- Wireless LAN (IEEE 802.11b/g/n )
  - MIMO-OFDM is employed.
- LTE (Long Term Evolution)/ LTE-Advanced
- WiMAX (IEEE 802.16m)
  - IEEE 802.16m and 3GPP LTE-Advanced are the two evolving standards targeting 4G wireless systems[1].

[1] Qinghua Li; *et al* , "MIMO techniques in WiMAX and LTE: a feature overview," *Communications Magazine, IEEE* , vol.48, no.5, pp.86-92, May 2010

