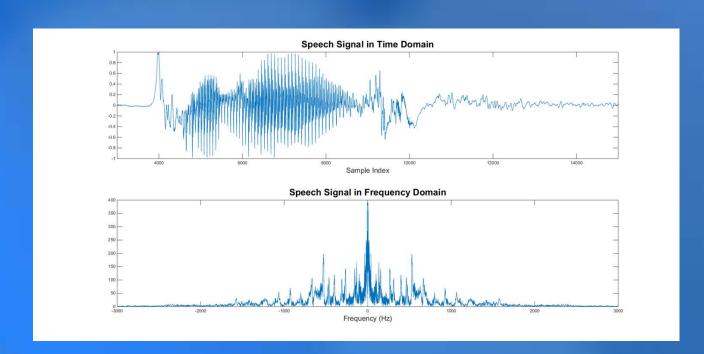
Signal Transmission





Can my voice be heard 2km away or even outside this room?

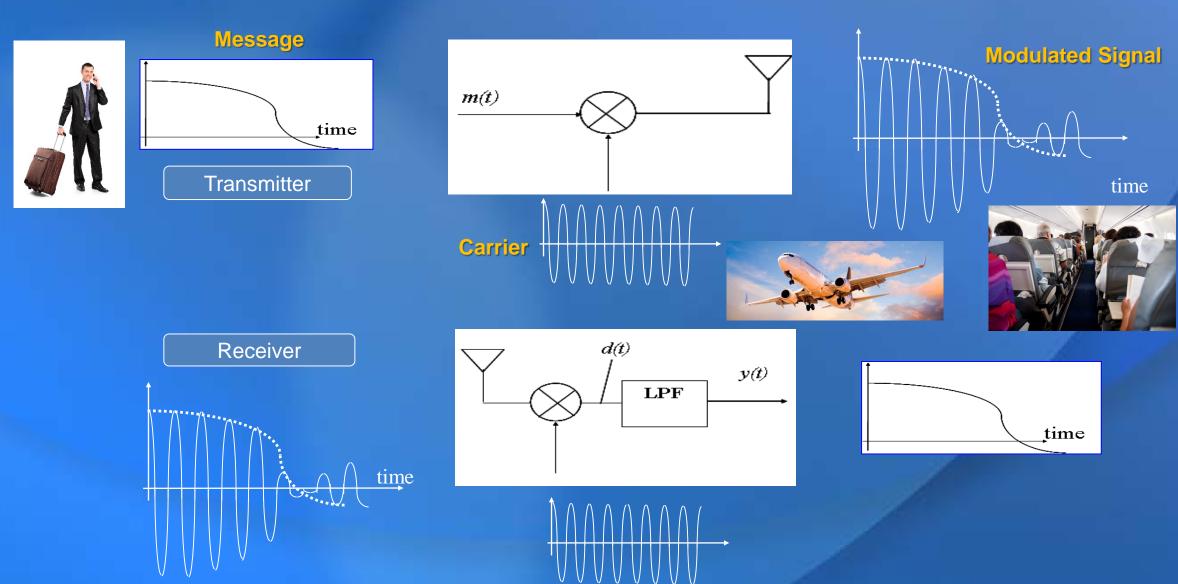
Why can I talk with my friend in NY through mobile phone?

Carrier and Modulation

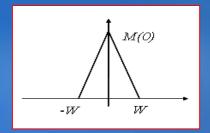
I need an airplane to carry me from Hong Kong to New York.



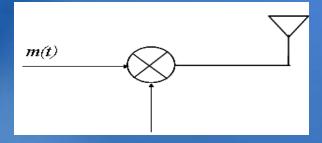
Amplitude Modulation: Time Domain

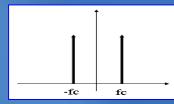


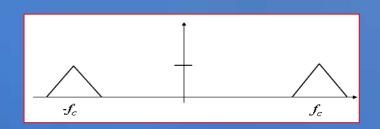
Amplitude Modulation: Frequency Domain



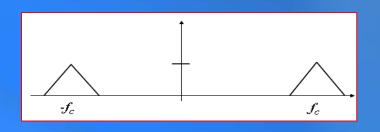
Transmitter

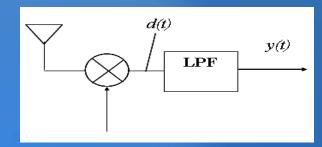


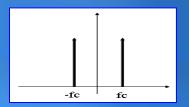


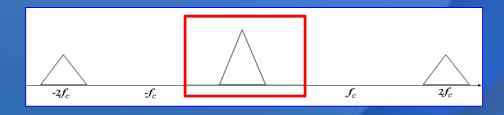


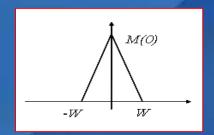
Receiver











Matlab Program