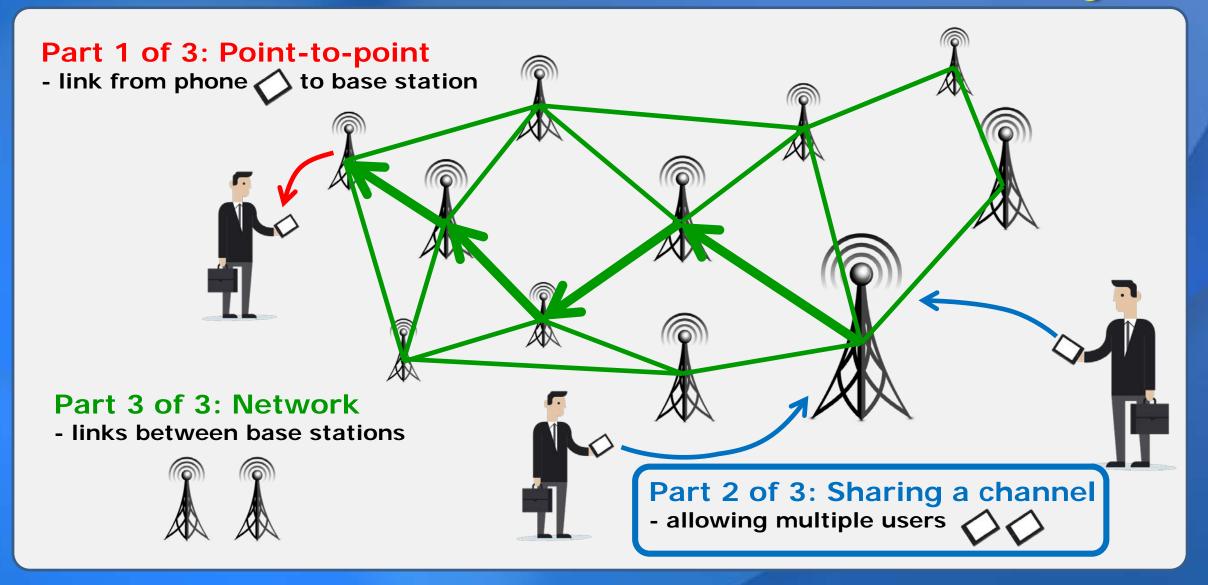
Course Overview

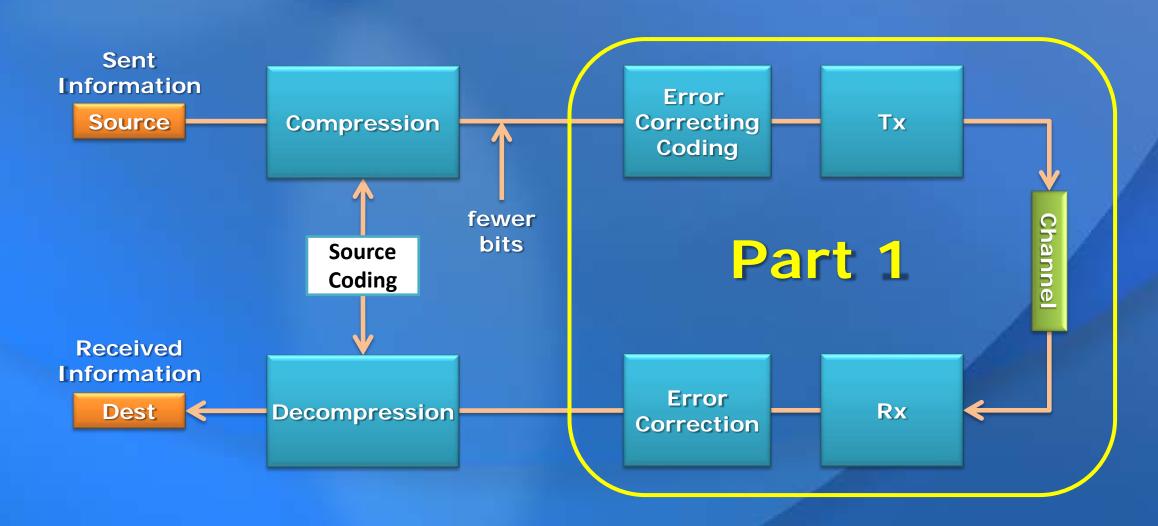
How to transmit information wirelessly?



How to transmit information wirelessly?



Source Coding



Types of Source Coding

Lossless Compression (Topic 2)

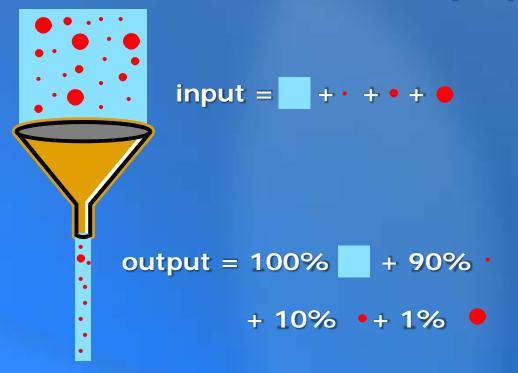
- Output exactly same as input.
- Usually used for digital content
- Key Concept: Entropy

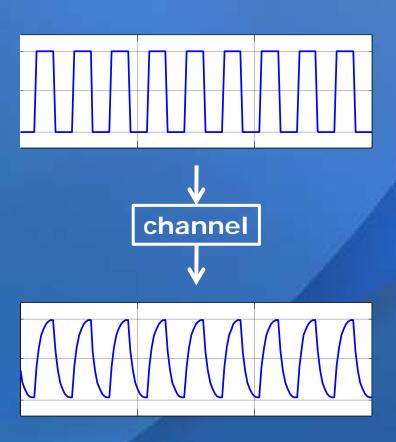
Lossy Compression (Topic 4)

- Output "similar" to input
- Often used for audio and video
- Key concept: Frequency domain analysis (Topics 3 & 6)

Filtering

(Topic 5)





Sharing a Channel

- Sharing a channel is known as multiplexing.
- Multiplexing methods
 - Space-division
 - Time-division
 - Code-division
 - Frequency-division
 - Topic 7: Modulation
 - Topic 8: Demodulation
 - Topic 9: IQ Modulation

