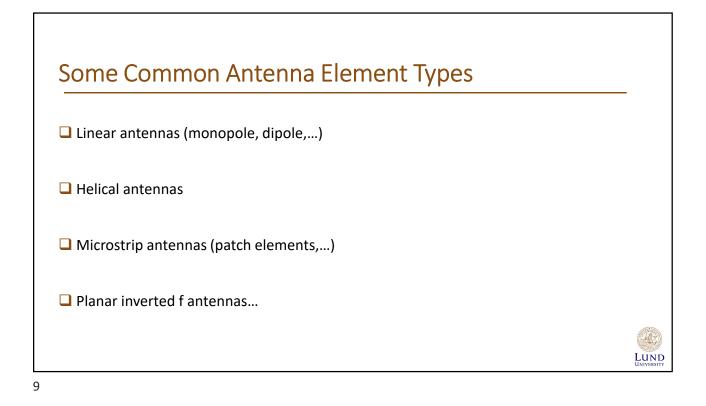
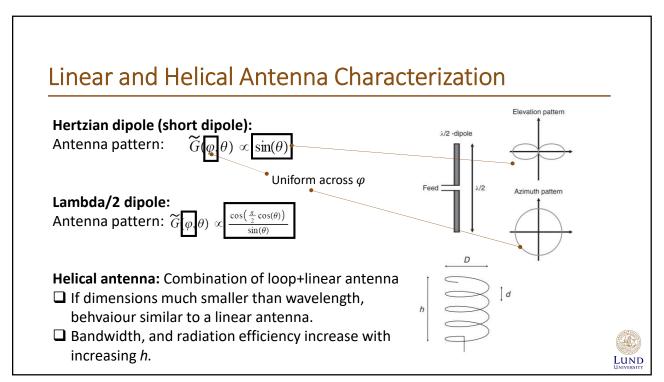


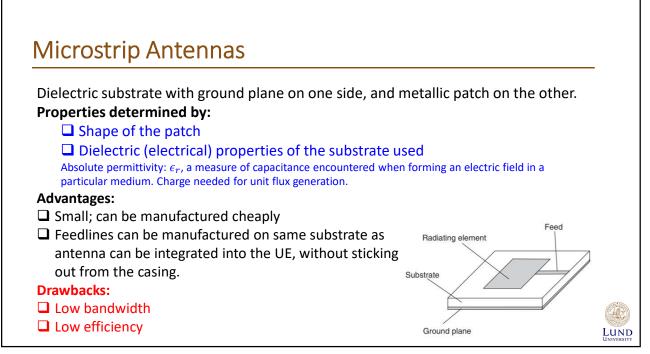
Influence of a User: Continuation

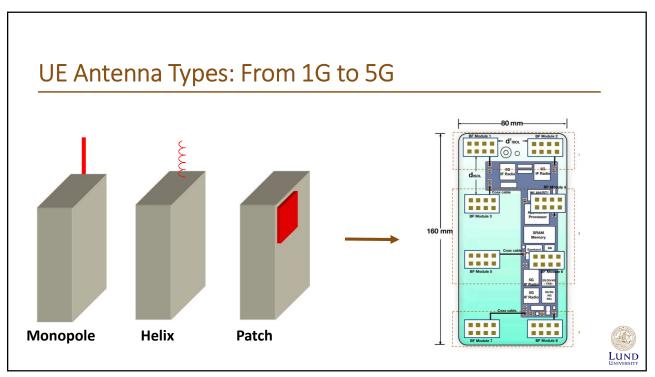
Is GHz
28 GHz

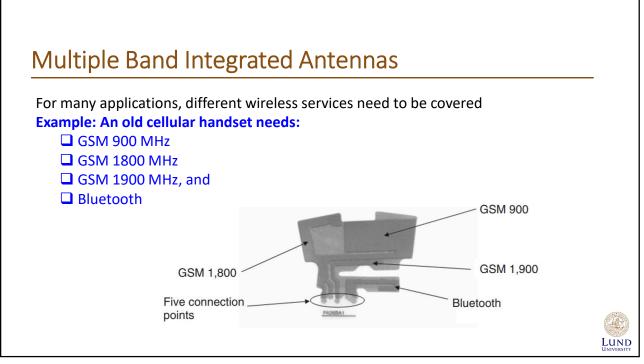
Free space
Image: Im

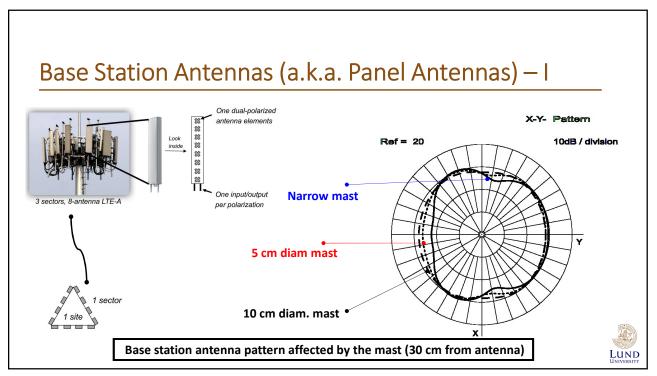


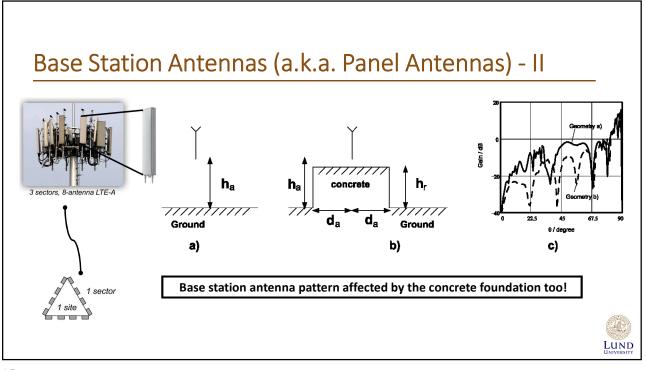


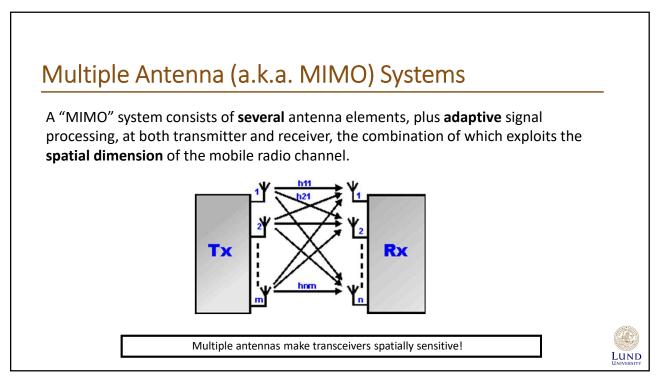


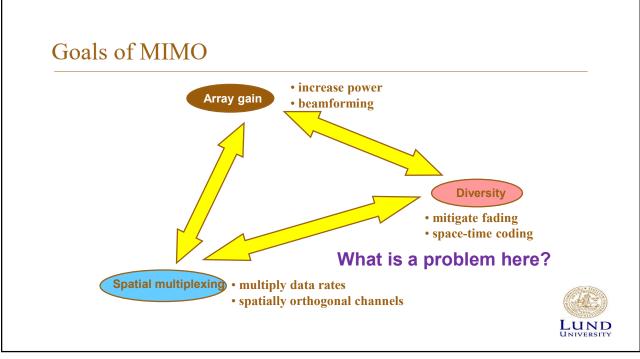


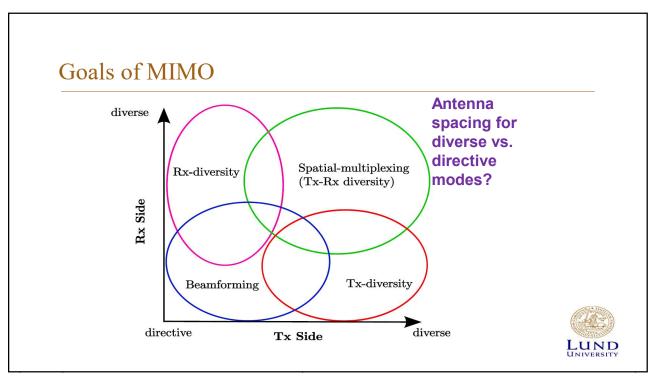


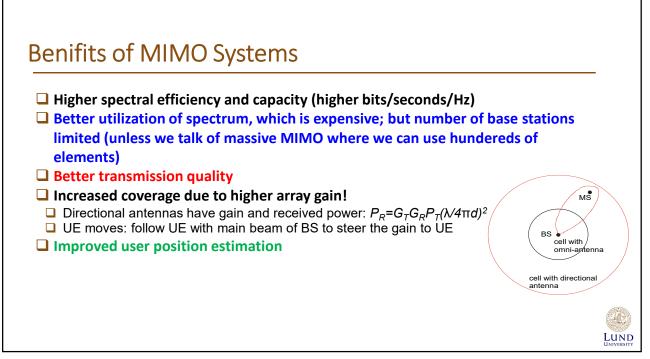


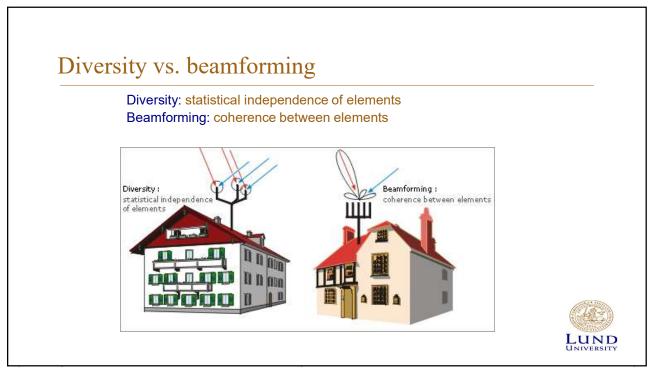


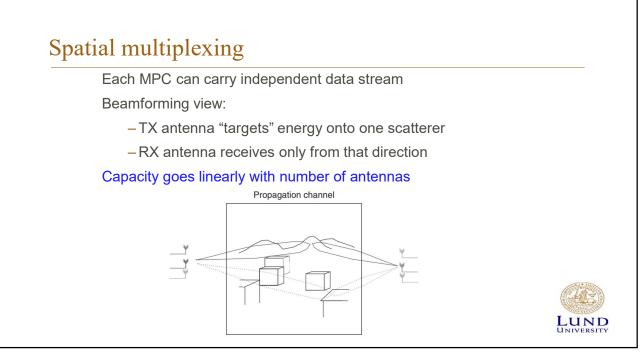


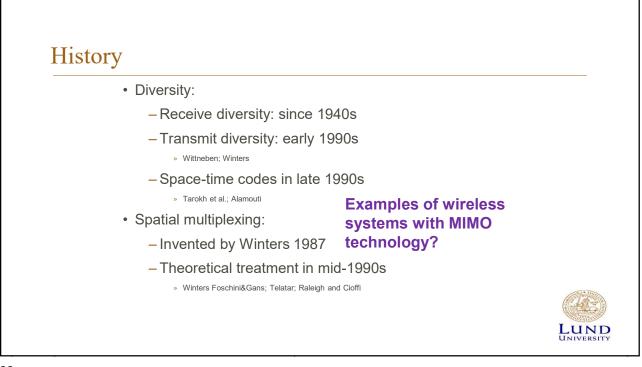


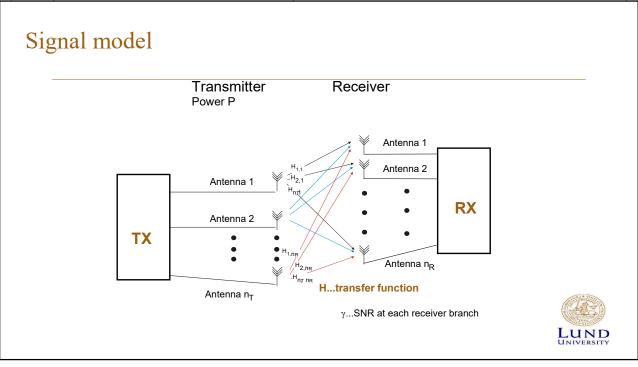


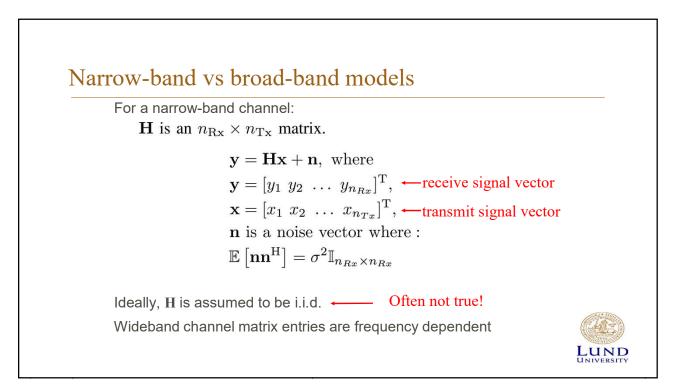












Capacity formula

Instantaneous channel characterized by matrix H

• Shannon's formula (for two-dimensional symbols):

$$C = \log_2(1 + \gamma |H|^2) bits / s / Hz$$

• Foschini's formula:

$$C = \log_2 \left(\det \left[I_{n_R} + \frac{\gamma}{n_T} H H^H \right] \right) bits / s / Hz$$



25

<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><list-item><list-item><list-item>

