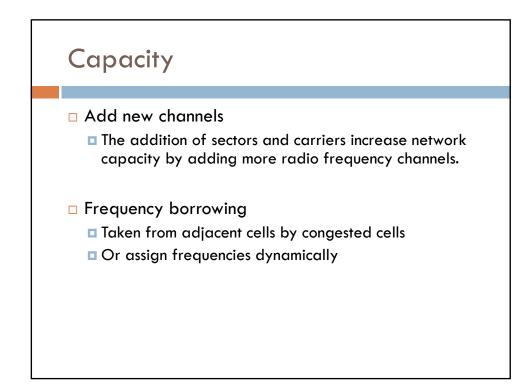
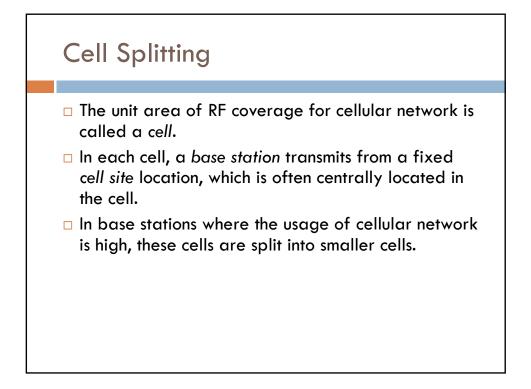


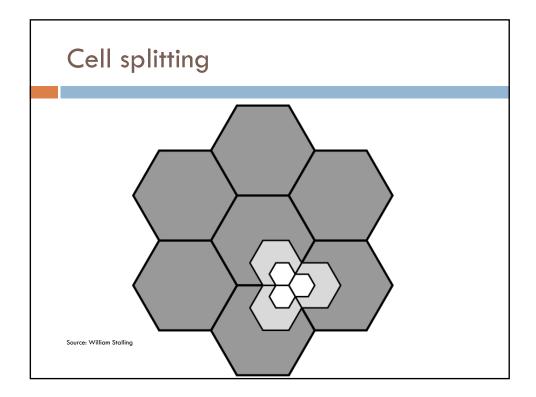
6

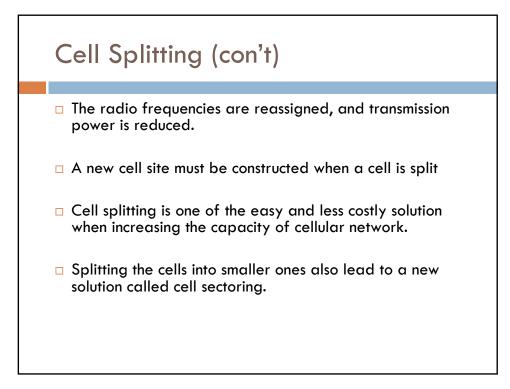
Is that it?

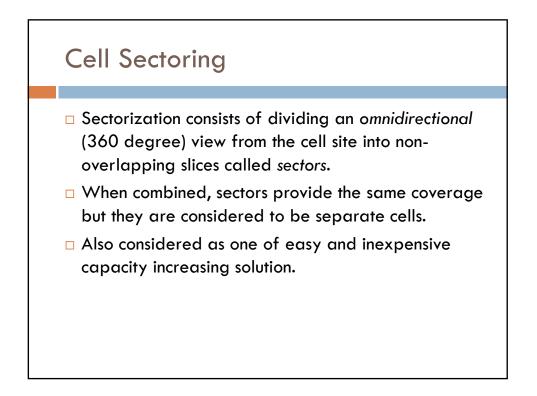
- □ What about the capacity !!!
- Bottom up calculation (coverage oriented) ■ $C_{ss} = B * N_s * Eff_s$ BANDWIDTH
- □ Top down calculation (demand oriented)











Cell Sectoring

- In basic form, antennas are omnidirectional
- Replacing a single omni-directional antenna at base station with several directional antennas, each radiating within a specified sector.
- □ achieves capacity improvement by essentially rescaling the system.
- less co-channel interference, number of cells in a cluster can be reduced
- □ Larger frequency reuse factor, larger capacity

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