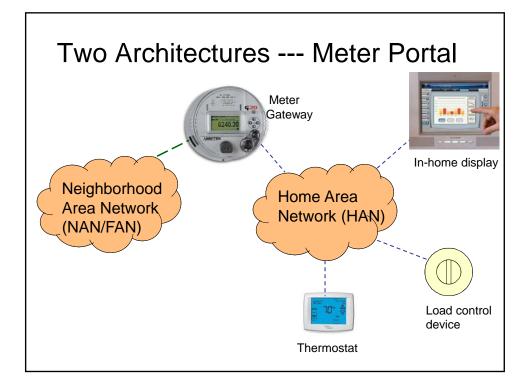
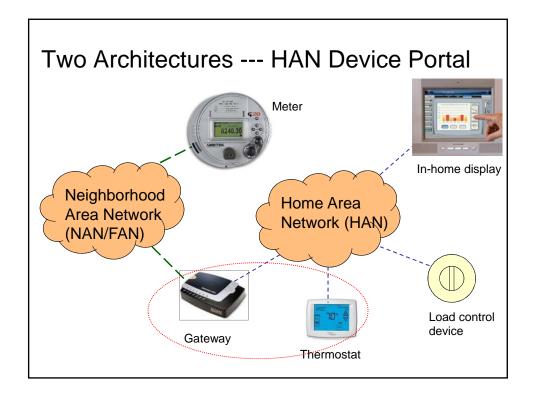


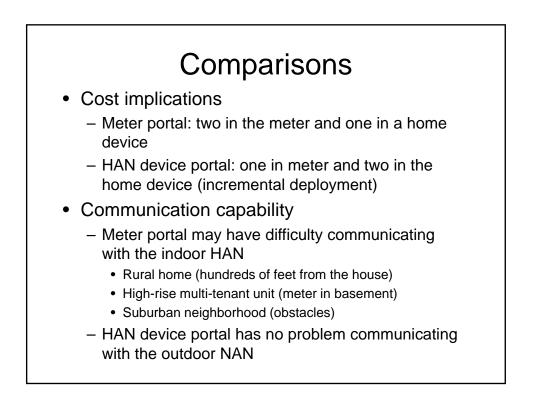
Home Area Network Architecture for Smart Grid Demand-side management Energy efficiency Demand response Direct load control HAN architecture in existing standards Zigbee Smart Energy Profile Utility AMI OpenHAN Energy Services Interface

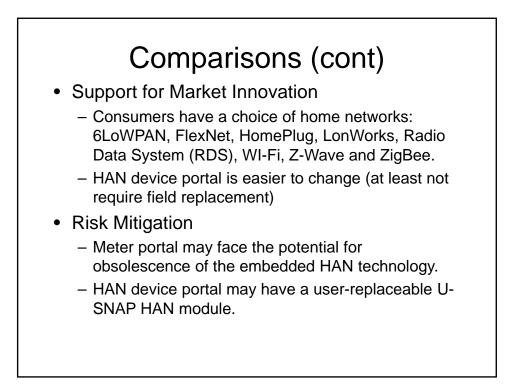
Design Considerations

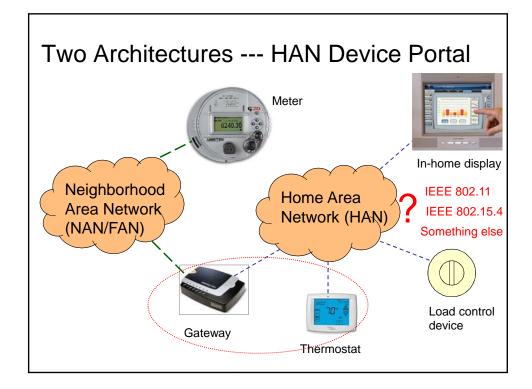
- Pace of technology innovation
- Upgradability
- Consumer choice
- Device ownership
- Market diversity
- Interoperability
- Total cost
- Performance

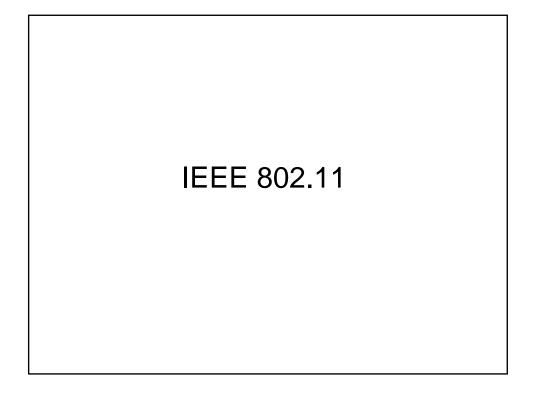


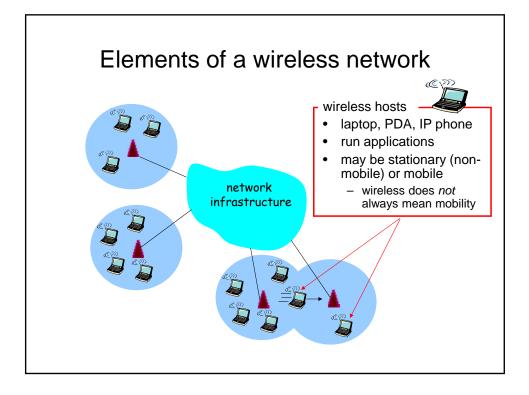


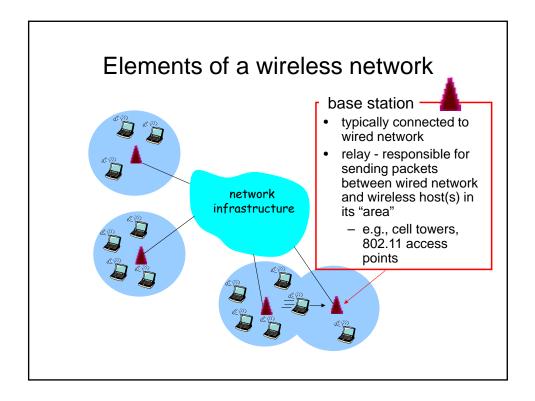


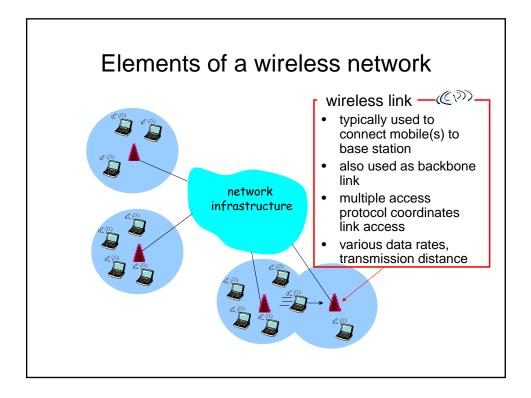


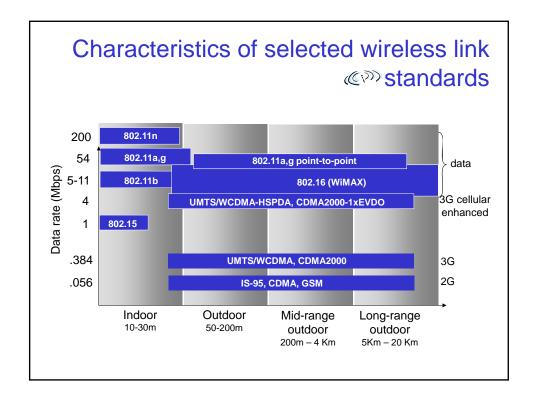


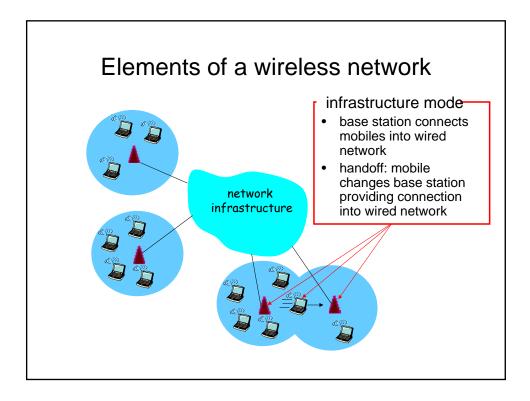


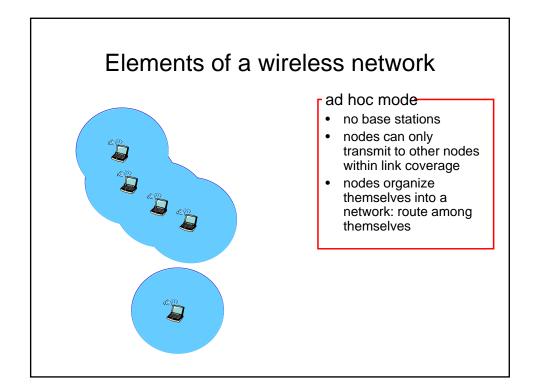












		1
	single hop	multiple hops
infrastructure (e.g., APs)	host connects to base station (WiFi, WiMAX, cellular) which connects to larger Internet	host may have to relay through several wireless nodes to connect to larger Internet: <i>mesh net</i>
no infrastructure	no base station, no connection to larger Internet (Bluetooth, ad hoc nets)	no base station, no connection to larger Internet. May have to relay to reach other a given wireless node MANET, VANET

