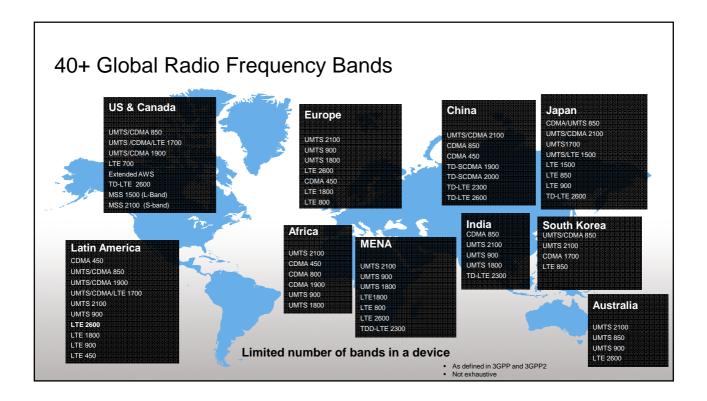
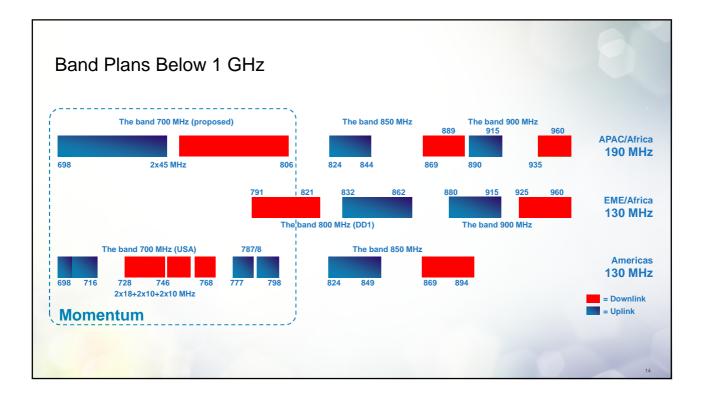
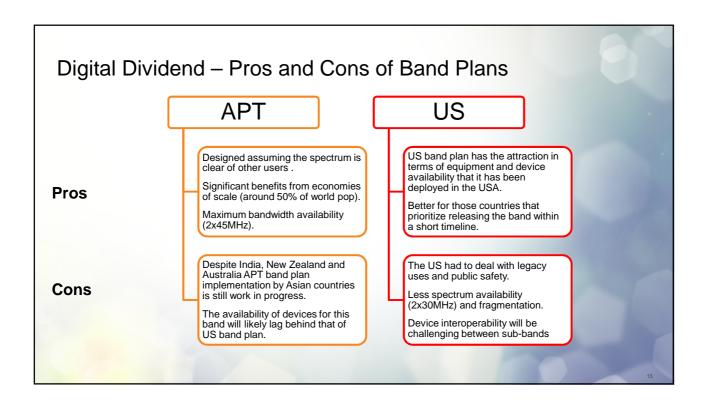


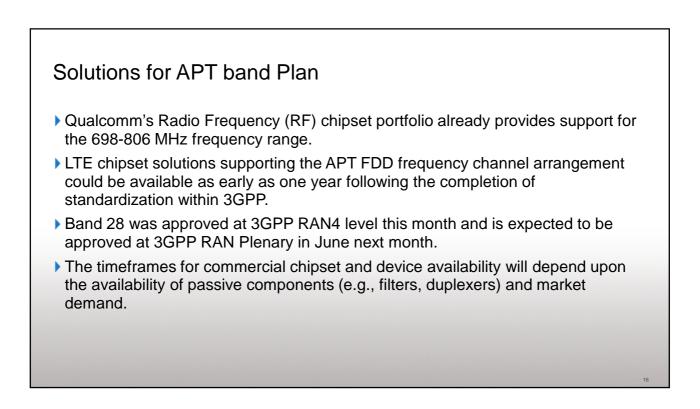
Frequency Band	Specific Band Pairing (MHz)	Common Names (not official names)	
450 MHz	450 - 470	450 MHz	
700 MHz	698 – 862 (varies)	Various	
800 MHz	824 - 849 / 869 - 894	800 MHz or cellular band	
900 MHz	890 - 915 / 935 - 960	900 MHz or GSM 900	
1700 MHz	1750 - 1780 / 1840 - 1870	Korean PCS band	
1800 MHz or 1.8 GHz	1710 - 1785 / 1805 - 1880	DCS 1800 band	
1900 MHz or 1.9 GHz	1850 - 1910 / 1930 - 1990	PCS band	
2.1 GHz	1920 - 1980 / 2110 - 2170	UMTS band	
1.7 GHz / 2.1 GHz	1710 - 1770 / 2110 - 2170	AWS Band	
2.3 GHz	2300 - 2400		
2.5 GHz	2500 - 2570 / 2620 - 2690	MMDS band	
3.4 GHz	3400 – 3700 (varies)	WiMAX band	



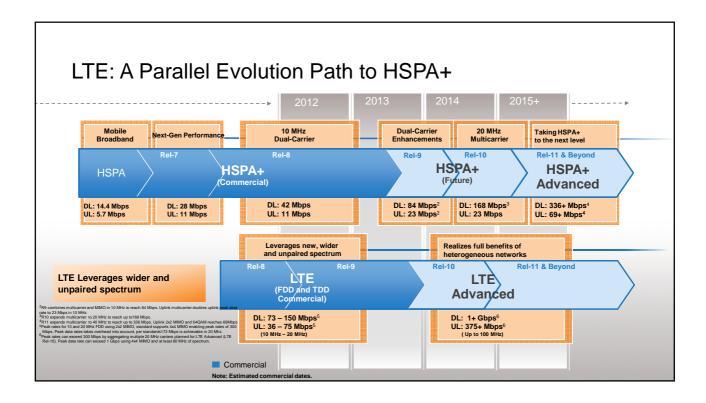


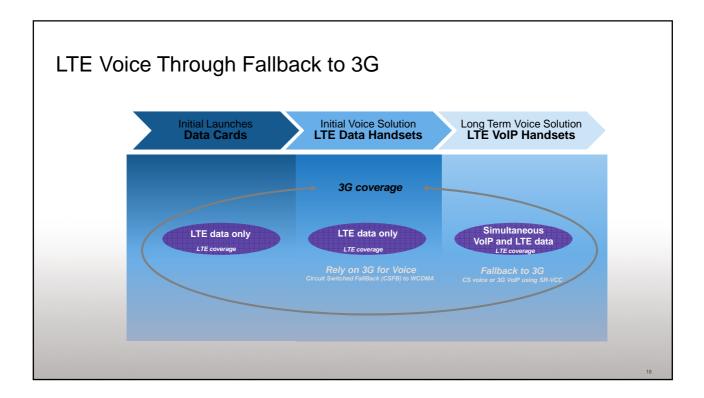




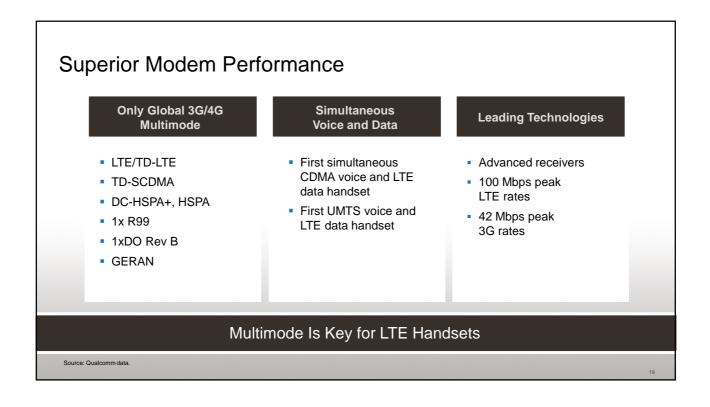


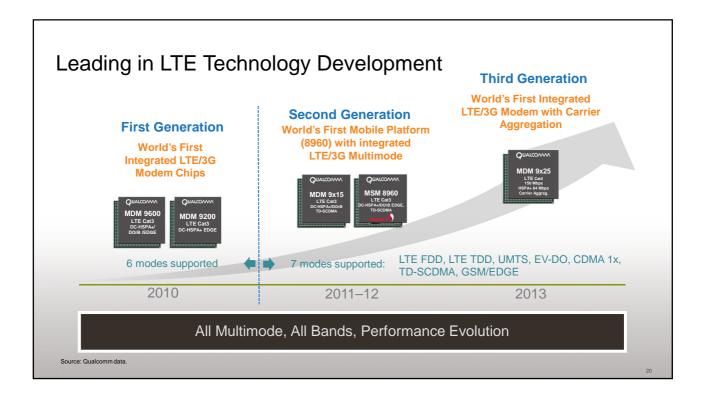






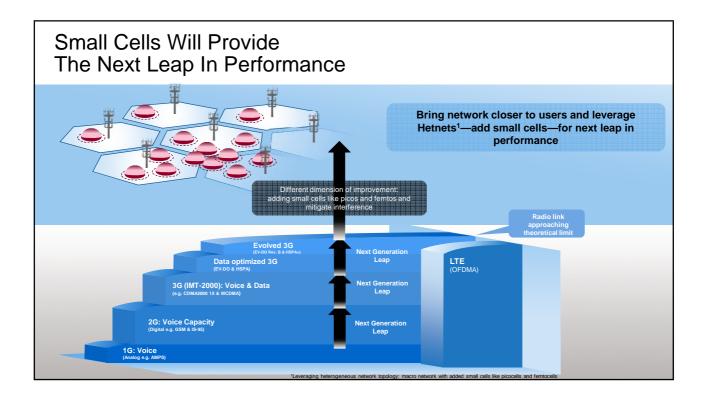








Snapshot on LTE Device Availability				
Snapshot from GSA's on LTE device availability on different bands				
	LTE FDD			
	700 MHz	170 devices		
	800 MHz Band 20	72 devices		
	1800 MHz Band 3	75 devices		
	2600 MHz Band 7	94 devices		
	800/1800/2600 MHz	57 devices		
	AWS Band 4	72 devices		
	LTE TDD			
	2300 MHz Band 40	43 devices		
	2600 MHz <i>Band</i> 38	45 devices		
	2600 MHz Band 41	5 devices		
			Source: GSA (www.gsacom.com), April 2012	





Conclusions

- Mobile Broadband needs more spectrum to address data demand growth
- Regional and global spectrum harmonization will continue to be important, only a limited number of frequency bands in devices
- Smartphone expansion into new mobile segments is accelerating data traffic growth
- Snapdragon family is enabling smarter connected devices
- The 2G to 3G migration is important for a more efficient use of spectrum
- With larger frequency blocks for LTE, it is possible to boost data capacity
- It is necessary to bring network closer to the user add femtocells

