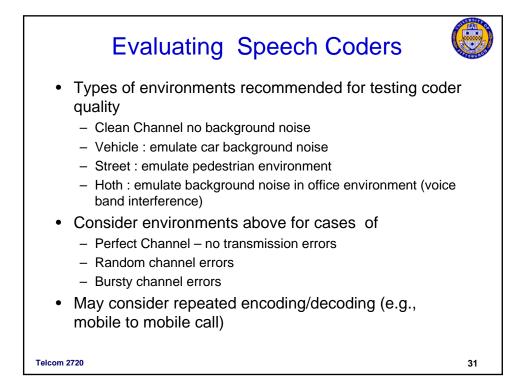
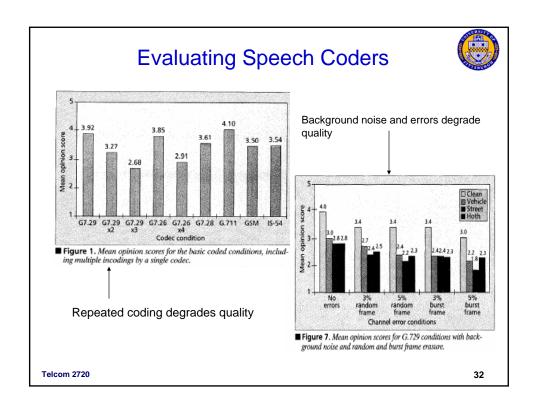


Evaluating Speech Coders							
MOS for clear channel environment – no errors							
Result vary a little with language and speaker gender							
Standard	Speech coder	Bit rate	MOS				
PCM	Waveform	64 Kbps	4.3				
CT2	ADPCM	32 Kbps	4.1				
DECT	ADPCM	32 Kbps	4.1				
NA-TDMA	Hybrid VSELPC	8Kbps	3.0				
GSM	Hybrid RELPC	13 kbps	3.54				
QCELP	Hybrid CELP	14.4 Kbps	3.4 - 4.0				
QCELP	Hybrid CELP	9.6 Kbps	3.4				
LPC	Vocoder	2.4 Kbps	2.5				
ITU G.729	Hybrid CELP	8.Kbps	3.9				
Telcom 2720				30			





Codec Selection						
 For cellular need to consider Quality, Complexity, Delay, Compression Rate 						
ITU Coder	Bit Rate	Coding Delay	Decoding Delay	Complexity		
G.711	64 Kbps	0	0	Low		
G.729	8 Kbps	15 ms	7.5 ms	Medium		
G.723.a,b	6.4/5.3 Kbps	35.5 ms	18.75 ms	High		
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