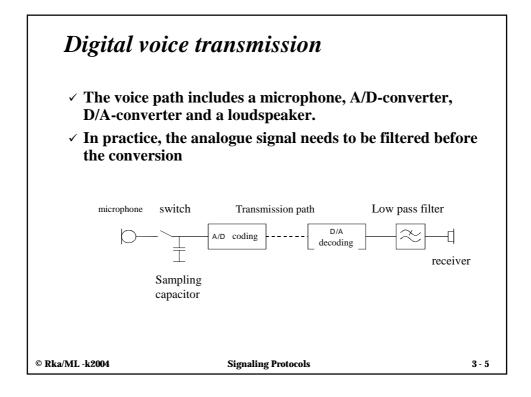
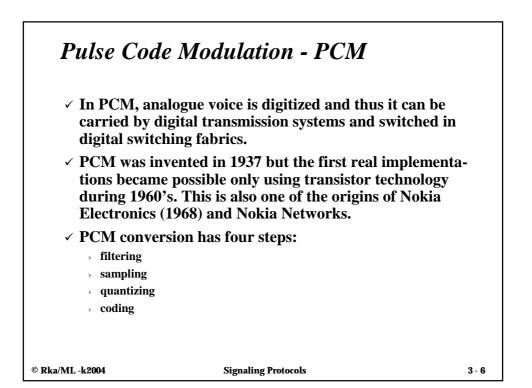
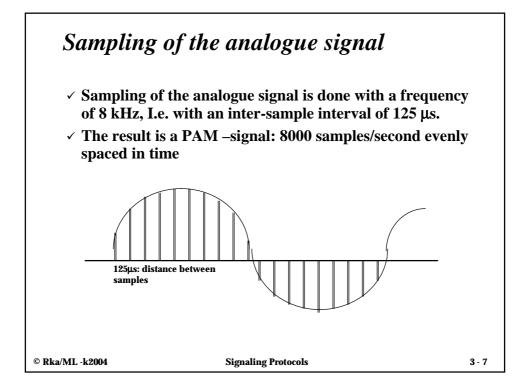
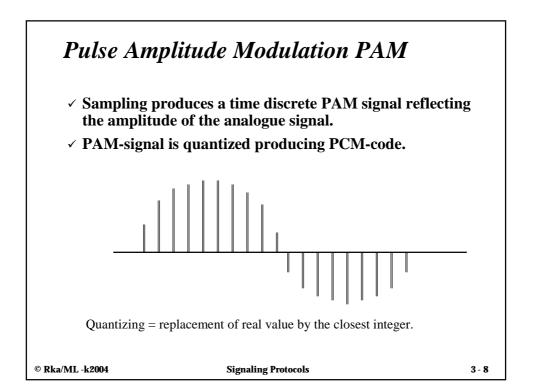


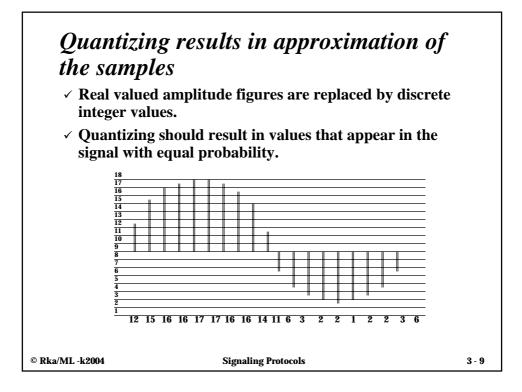
	Sampling				
	 Nyquist theorem If an analogue signal with limited spectrum is sampled regularly with a frequency of at least twice as high as the highest frequency component, the samples carry all the information in the original signal. The original signal can be reconstructed using a low pass filter. 				
Key assumptions in Circuit	✓ In voice transmission, the spectrum carried is specified to be 300 - 3400 Hz, resulting in a minimum sampling rate of 6,8 kHz.				
telephony: PSTN, ISDN	✓ In practice, since the width of the transmission channel in an analogue system is 4kHz, in a digital system a sampling rate of 8 kHz (8000 samples/s) is used.	l			
Wideband codecs, such as WB-AMR and WB-GIPS use a sampling rate of 16 kHz					
© Rka/ML -k2004	Signaling Protocols	3 - 4			

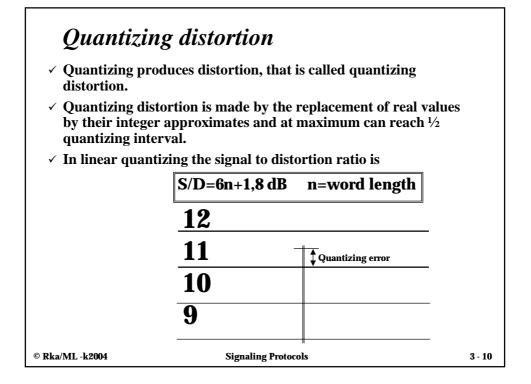


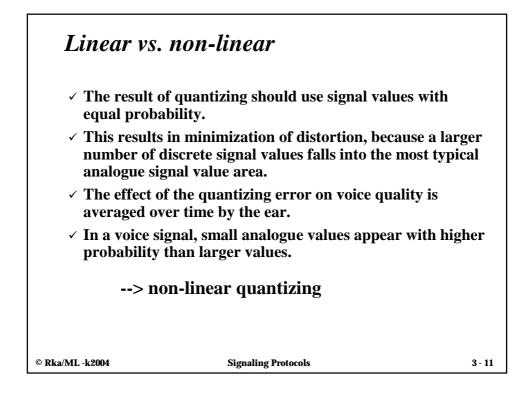


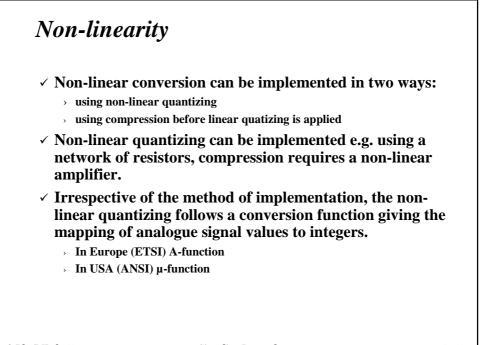


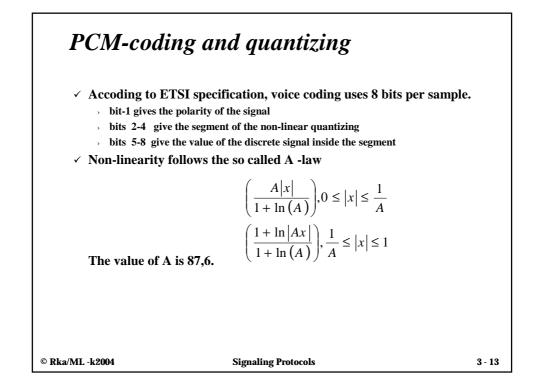


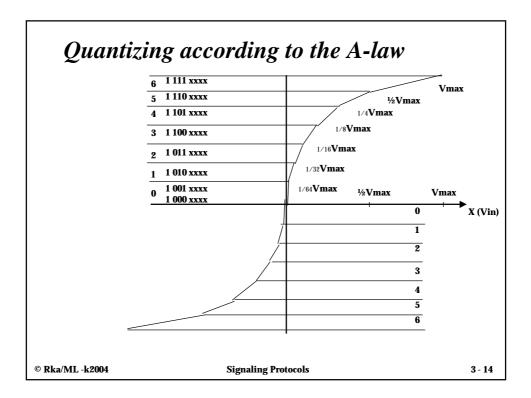


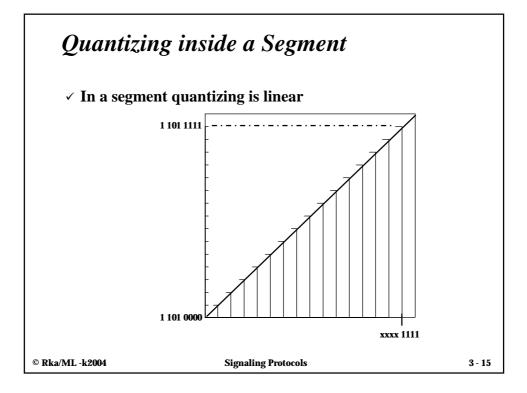


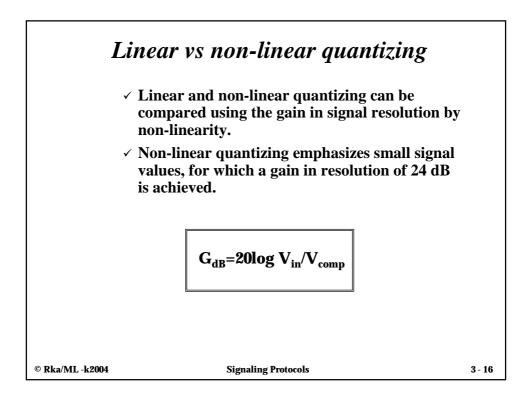


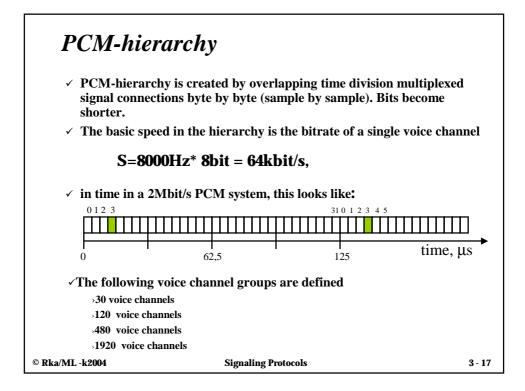


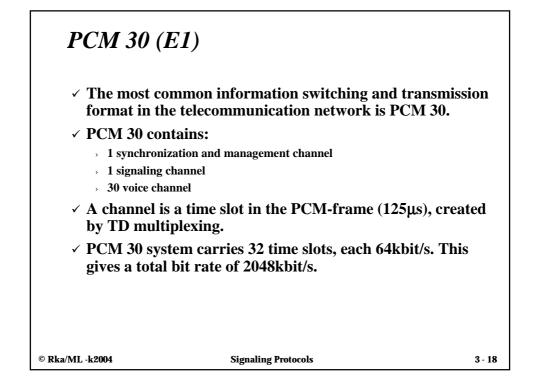


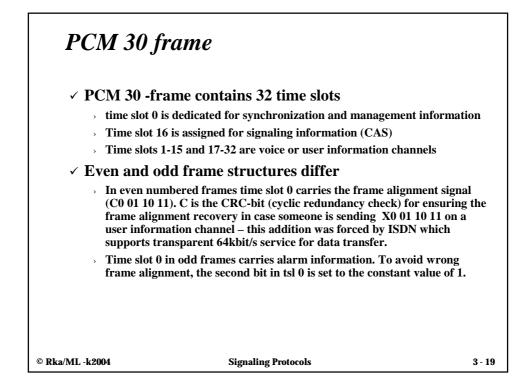


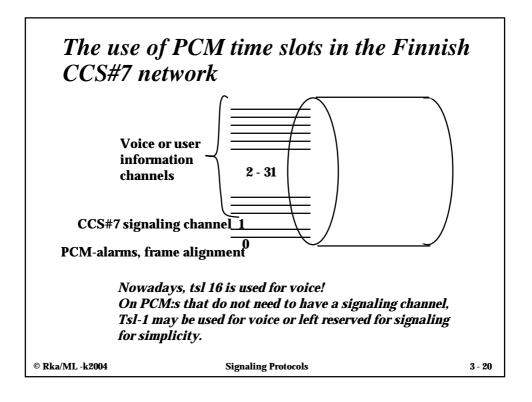


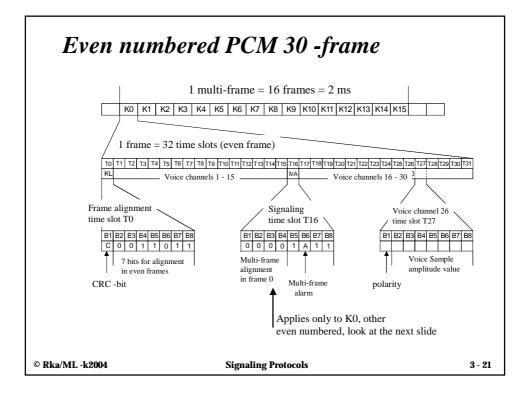


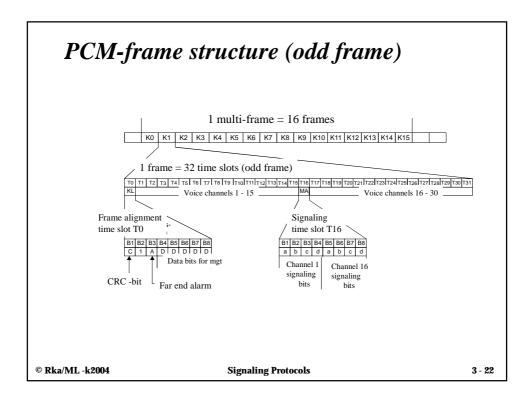


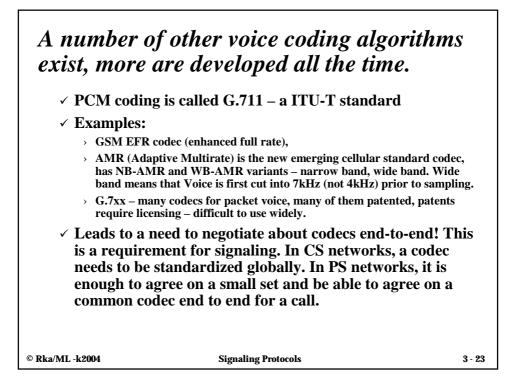












Coding	Algorithm	Sample	Rate	Mean	Year
Standard		Size	Kbit/s	Opinion	
		(msec)			
				Score	
G.711	PCM	0.125	64	4.10	1972
GSM 06.10	RPE-LTP	20.000	13	3.50	1987
G.726,G727	ADPCM	0.125	16, 24, 32, 40	3.85	1990
G.728	LDCELP	0.625	16	3.61	1992, 1994
IS-96	VSELP	20.000	8.5, 4, 2, 0.8		1993
G.729, G.729a	CS-ACELP	10.000	8	3.92, 3.70	1995
G.723.1	MPC-MLQ	10.200	6.3, 5.3	3.90	1995
PDC	PSI-CELP	40.000	3.45		1996
FS-1015	LPC	25.700		2.40	-
AMR-NB					
AMR-WB				>PCM	

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