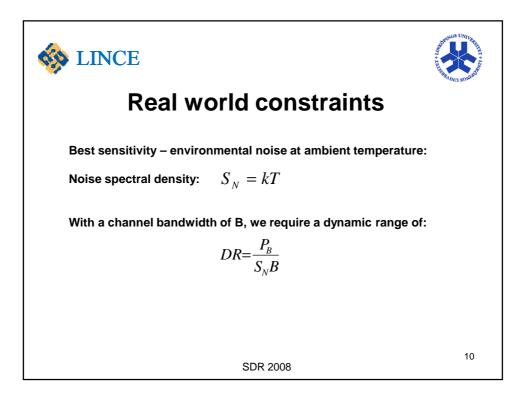
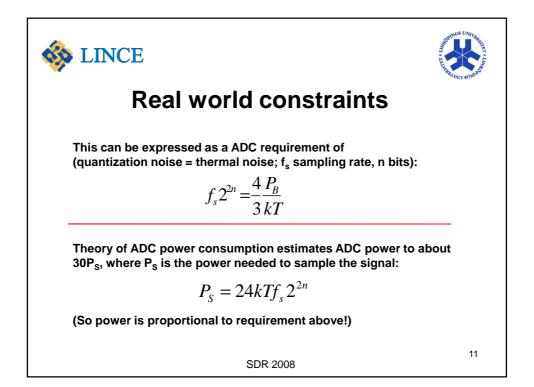
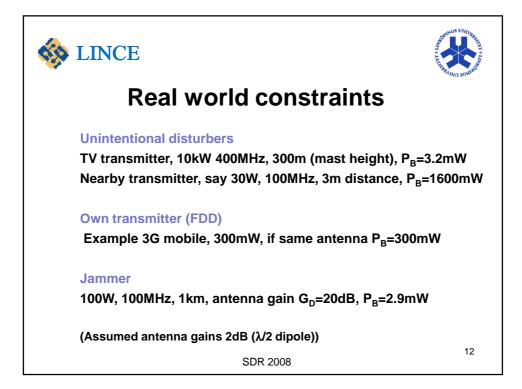


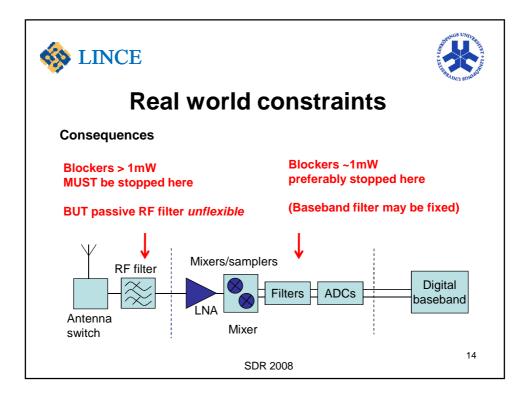
N 2000

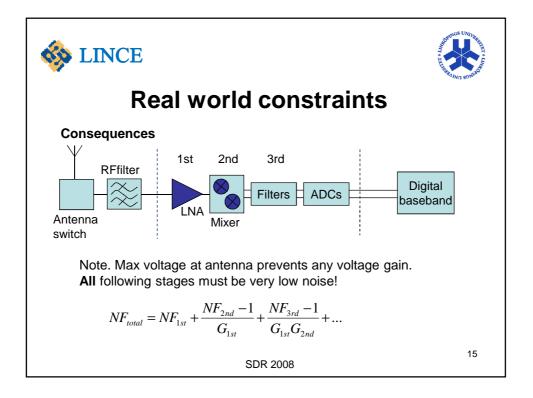


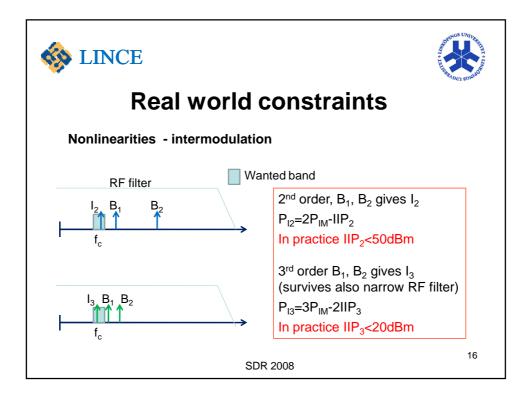




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Real world constraints								
Some examples								
	Blocker	Voltage p-p	ADC power					
	10µW (-20dBm)	60mV	9.6mW					
	1mW (0dBm)	0.6V	0.96W					
	300mW (25dBm)	11V	290W					
We can hardly accept more than ~1mW at ADC (ADC power) (10μW preferred) We can hardly manage ~300mW by receiver electronics (voltage)								
	13							







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Real world constraints							
No	Nonlinearities - intermodulation						
Set P _{IM2} =P _{IM3} =P _N , P _N =kTB, IIP ₂ =50dBm, IIP ₃ =20dBm Estimate maximum intermodulation disturbers							
	Bandwidth, B	P _{IM} (IM2)	Р _{ім} (IM3)				
	10kHz	-57dBm	-42dBm				
	1MHz	-47dBm	-35dBm				
	10MHz	-42dBm	-32dBm				
Note that All P _B << 0dBm. Worse at narrow bandwidths. Intermodulation at certain frequencies – Blockers are general							
	SDR 2008						

