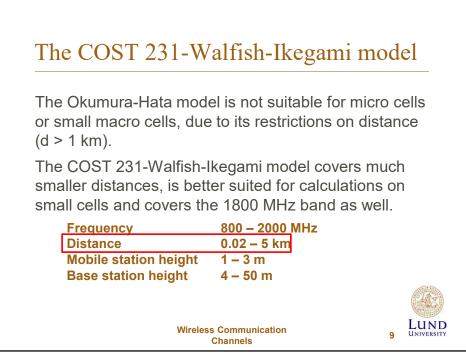
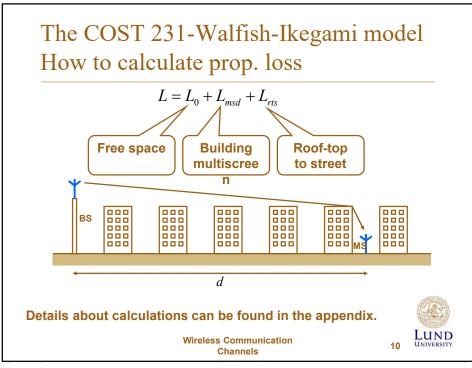
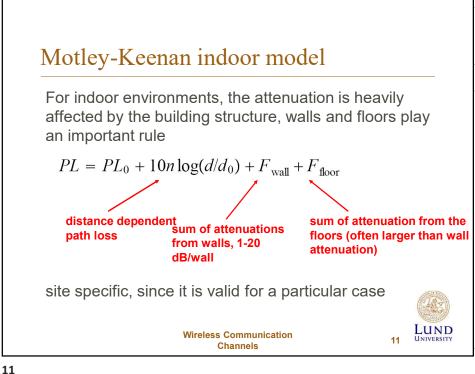


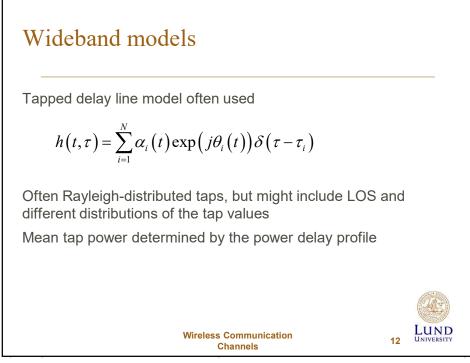
The Okumura-Hata model How to calculate prop. loss $L_{O-H} = A + B \log(d_{|km}) + C$ $h_{\rm b}$ and $h_{\rm m}$ $A = 69.55 + 26.16 \log(f_{0|MHz}) - 13.82 \log(h_b) - a(h_m)$ in meter $B = 44.9 - 6.55 \log(h_h)$ $a(h_m) =$ C = $8.29(\log(1.54h_m))^2 - 1.1$ for $f_0 \le 200$ MHz Metropolitan 0 areas $3.2(\log(11.75h_m))^2 - 4.97$ for $f_0 \ge 400$ MHz Small/mediu 0 m- $(1.1\log(f_{0|MHz}) - 0.7)h_m -$ Sizpunibian $-2\left[\log(f_{0|MHz}/28)\right]^2 - 5.4$ $(1.56 \log(f_{0|MHz}) - 0.8)$ environments $-4.78 \left[\log \left(f_{0|MH_{z}} \right) \right]^{2} + 18.33 \log \left(f_{0|MH_{z}} \right) - 40.94$ **Rural areas** LUND 8 Wireless Communication Channels

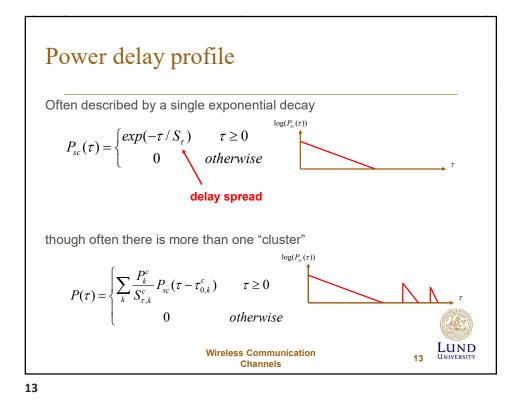


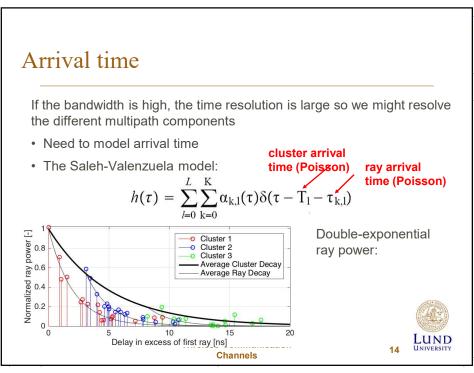


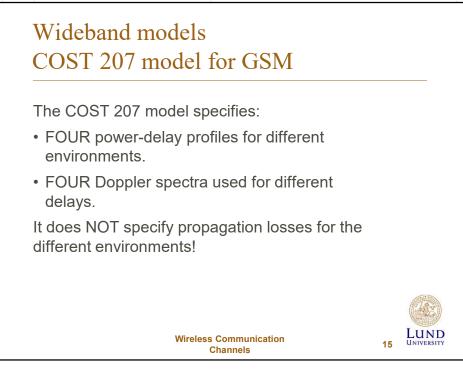


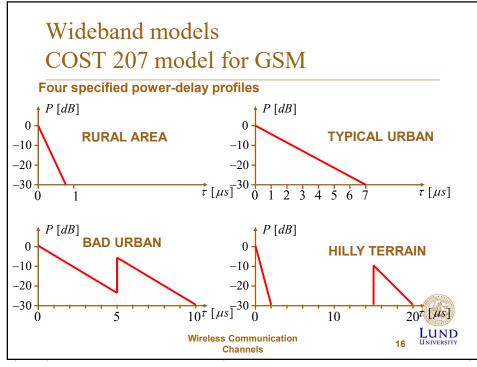


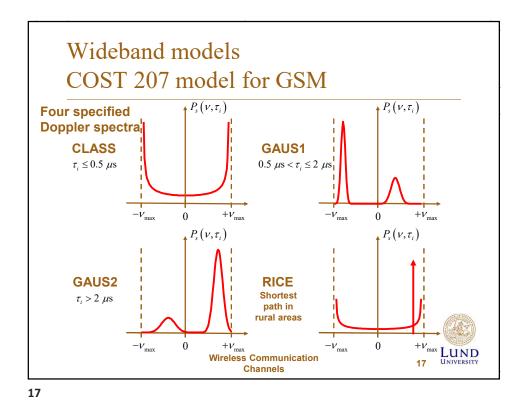


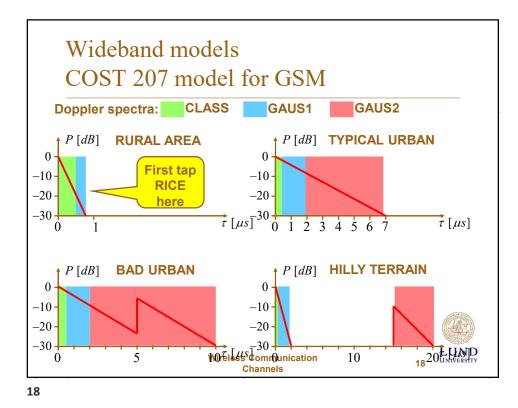


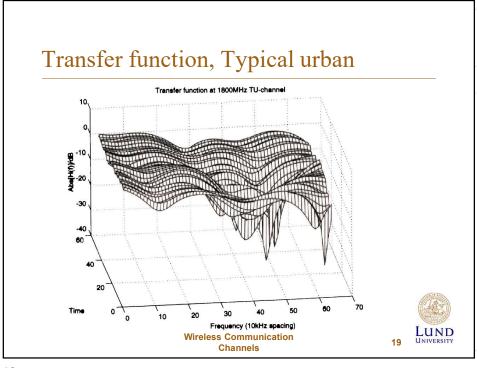




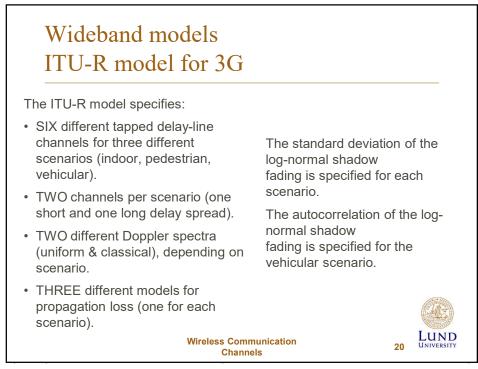












Wideband models					
ITU-R model for 3G					
Tap No.	delay/ns	power/dB	$delay/\mu s$	power/dB	
INDOOR	CHANNEL A (50%)	r	CHANNEL B (45%)	r / ab	
1	0	0	0	0	
2	50	-3	100	-3.6	
3	110	-10	200	-7.2	
4	170	-18	300	-10.8	
5	290	-26	500	-18.0	
6	310	-32	700	-25.2	
PEDESTRIAN	CHANNEL A (40%)		CHANNEL B (55%)		
1	0	0	0	0	
2	110	-9.7	200	-0.9	
3	190	-19.2	800	-4.9	
4	410	-22.8	1200	-8.0	
5			2300	-7.8	
6			3700	-23.9	
VEHICULAR	CHANNEL A (40%)		CHANNEL B (55%)		
1	0	0	0	-2.5	
2	310	-1	300	0	
3	710	-9	8900	-12.8	Statuvule)
4	1090	-10	12900	-10.0	(A A A A A A A A A A A A A A A A A A A
5	1730	-15	17100	-25.2	
6	2510	-20	20000	-16.0	LUND
HT2018	vvire	Channel		21	UNIVERSITY

