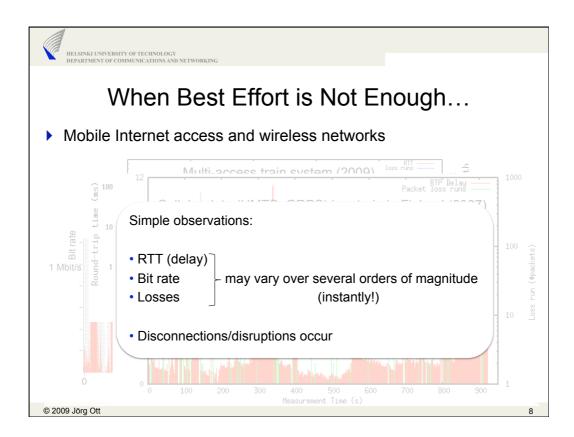
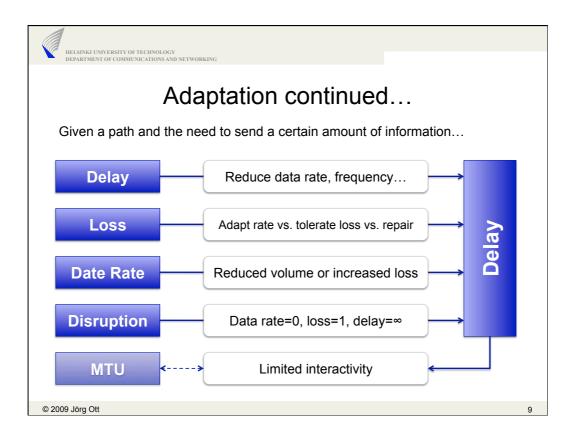
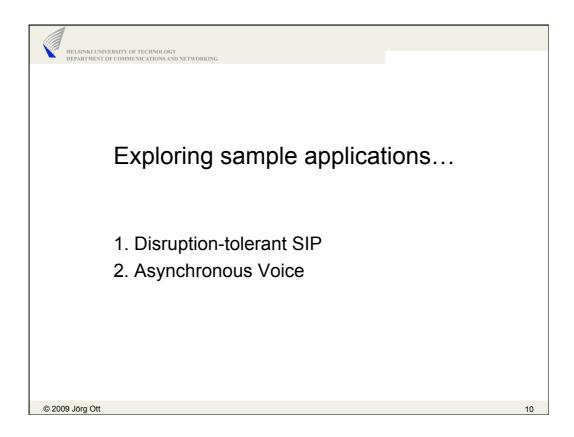
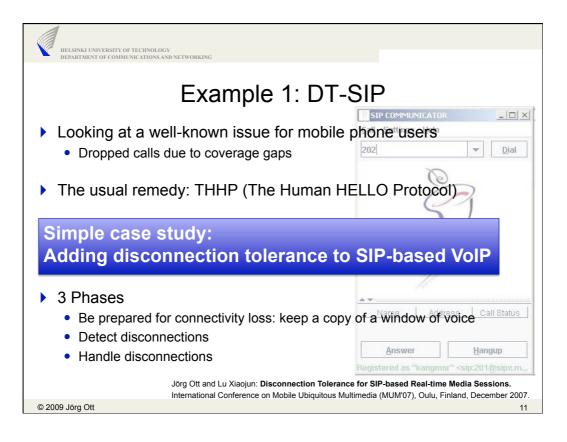


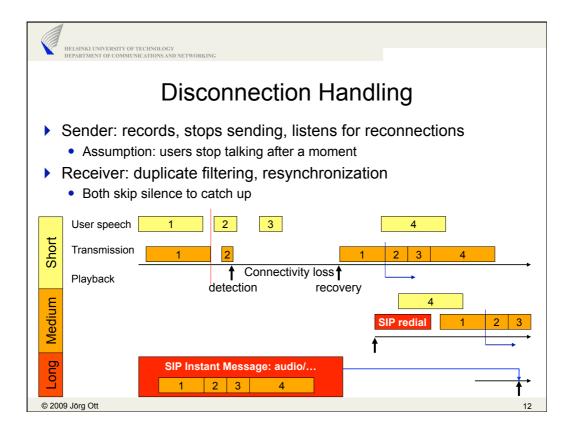
Some Examples				
	Delay	Loss	Data rate	МТО
Bulk data	Don't care as	long as TCP doe (P2P even		connect
Interactive web	RTT<300ms Interactivity = f(Low loss, delay) needs	100 kbit/s – 1 Mbit/s to be sufficient	1500 bytes ok
Streaming	seconds Data rate = f(l	low oss, delay) needs t	100 kbit/s – 100 Mbit/s to be sufficient	1500 bytes ok (could be larger)
VoIP	< 200ms	< 5%	4 kbits – 100+ kbit/s	< 100s bytes

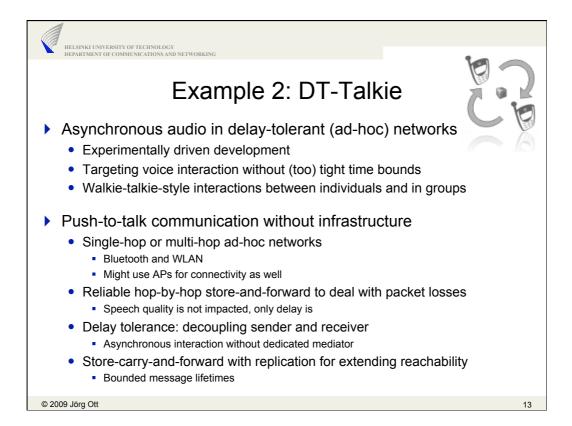












HELSINKI UNIVERSITY OF TECHNOLOGY
DEPARTMENT OF COMMUNICATIONS AND NETWORKING
DTN-based Voice
 Plain and simple: record – send – forward – receive – playback Based upon user-indicated (button press) statements
User speech 1 2 3
Transmission 1 23
 Subtleties: message size?
 Semantic fragmentation (Application Layer Framing)
 Keep talkspurts together ("MTU")
 Good connectivity and short messages: interactive communication workable
User speech 1 2 3
Transmission 1 2 3
Subtleties: codec interoperability (no negotiation signaling)
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