

(x) MINO ( Multiple Light, Mentiple output). -> Multiple autennou are used both at the source & destination - Uses hultipath. hultipath means when the readin waves information bounces off buildings or other objects before reacting the received. - Saelier, multiparth of cused to create interference, and more, with mutipath, pino uses multiple smart transmitters & receivers, improving the performance & range. It increases the vective signal-capturing power by enabling antennas to combine the data streams arriving from different - It has provided scalability. - used for simultaneously transmitting and soccowing multiple (4) How thudouse: Used when those are mobile devices is a wireless Now. a Types: O Horsontal Handoues: when a device moves blue one type of network technology under one operator. Eg. Switching cellular tours on moving out of range. @ Vertical Mandover: when a device must switch technologies or operators: Eg. a deverce switching from wifi to 46 cellulas coverage Ullustrates a postch blu technologies. (+) Cell Breathing: - Allows overloaded celle to offload suscriber traffic to reighbouring cells by changing their geographical size (area). - Heavily loaded tells decrease in size while neighbouring cells increase in size to compensate. - This way, some traffic is handed off from the overloaded cell

to the neighbouring cells, resulting is load balancing

(x) Swell time: I Time over which a call is maintained within a cell wolchardoff. - Stationary were has a finite dwell time. - varies on the speed of wer + Sepends on factors like propagation, interference, distance blue ausscriber & base station, etc. (x) Cell dragging: I occur when Even when the user has travelled beyond the designed range of cell & Boothil handoff is now not done -) This problem can be solved by adjusting the handoff threshold. (x) beag Beanforming! - Technique used to improve signal to noise ratio of received signals. - Eliminate interference & focus to animitted signals to specific - MIMO beamforming can be used to increase capacity of detarteam - Widely used is RADAR, SONAR, Medical Imaging, etc. - used to focus transmitted signals is a particular direction. -> Routher thour sending a signal from a broadcast antenna to be spread in all directions, beamforming work directs the same signal towards a single receiving device. (x) Circuit switched Packet switched - Relias on physical connection - hanages data transfer in the form blu two nodes. of small & opinized backets. - line set up before the nodes commun -) The circuit remains dedicated to the communication for session delocation - High Cost ylow cost

		Page: Nothbook
7	Inethicient use of Bandwidth	, efficient use
٦	Limited scalability	- scalable.
7	low lateray	- High Latency.
1	Real time communication	-) No real time communication
7	Each data un't knows entire	-) each data cenit knows just the
	path address .	final destination address.
	More reliable	des reliable
	woustage of Resources	1 less wastage.
-1	Cannot randle bilateral	+ can handle bilotteral traffic.
	traffic	
7	Physical path she source &	" No physical path blue source & dest.
	Destination.	•
7	Sach picket tollows	I Packets can follow any route.
	same route.	
-	Simple protocols	-> lem plex protocols -
(1		
	- Richs to Wireless NIWS:	
0	If you fail to secure, augue can use your who connection.	
0	· Broadcast range of whome wireless Access Points can make internet	
	connection available outside you home.	
	Evil twin attack: Hackers impersonate the new & you logan to it.	
	3 wireless builting: Not securing & encrypting your wireless AP.	
	2 company could look earwoord as you tupe	
	De That of mobile devices.	
(10)	Restrict access, Encrypt data on your new, hustall a frewall	
	Maintain autivirus software, Share files with cartion, Connect using	
	a VPN, Keep your access point upto doto, otc.	
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