

Slide 1:

Title - Self-Explanatory

Slide 2:

How Old when you get ur 1st Phone?

The pace of technological change in our world never stops amaze me.

Anak SD punya HP sendiri-sendiri (btw saat kalian jadi orang tua nanti, apakah anak kalian akan kalian beri HP sejak kecil?)

Cerita tentang main game jaman dahulu harus ngowoh didepan TV dengan jarak dekat, karena stik masih pakai kabel versus, sekarang bisa main game even dari dapur.

Aktifkan Lampu, speaker, TV, Ricecooker, vacuum cleaner semua dari HP

Saya ingat tahun 2012 saya masih kesulitan kalau mau Vidcall harus pakai Skype.. But now, mau Vidcall kapan saja dimana saja jadi

Slide 3:

SO lets breakdown to know how connected is our world started from the smaller size of area

LAN: Warnet Point Blank (if you want to play with friends for other part of the world, pay internet, but if not, you can just play with your friend beside you using LAN) – 1 Printer in the office, many PC can use.

However, However, this is a BIG However, please remember all this 3 network is still wired, so it needs some complex cable infrastructure buried somewhere under us. If you guys heard Optical Fiber, (Biznet) though many people Optical Fiber is suuper fast, it is still Wired Network not a Wireless network.

Tapi bukan berarti Wired Network jelek atau tidak penting atau tidak popular lagi ya, It is essential for Wireless network. You cannot have WiFi if you dont have BTS (Base Transceiver Station), You cant built BTS alone withouthaving Cable connecting each other

Slide 4:

Now, since we are talking about wireless.. Do you know what is this?

Who was active scout in your highschool? What code is this?

Now, do you guys know what device that help us to communicate to other using this codes? Of course this is long time ago.

Its telegraph.

Any Guess for this code? What does it says?

Slide 5:

Do you stil rememb this Wifi system, the IR?

We do still have somekind of wifi before infra red. WRILESS TELEGRAPH. Using Radiowave transmission.

The predecessor Telegraph is still using cable, transmitting electrical current via morse code.

Howver the Wireless telegraph gives the world and Idea/concept of communication without cable.

Marconi is the cikal bakal dari Radio

And this Wireless Technology is a game changing. Save 700 lives even though 1,504 lost.

Slide 6-8:

Student Activity – Games. Prep Snack

Slide 9:

Nah sebelum masuk lebih jauh, Kita mau cari tahu, cari mengerti (Bahasa Manado “cari Mangarti”)

dahulu istilah Mobile dan Wireless. Menurut kalian sama atau beda? Atau mirip?

Whats the difference? Very very easy!

Mobil Example: I want to mention Mobile phone and Laptop, u guys mustve known it exactly. So I

mention Walkman, Discman, (Portable Cinema) VR because big chance you wouldn't know

Kalian pernah bertanya ga sih knp ya Namanya Mobile? Apa hubungan dengan mobil?

Slide 10-11:

Based on Baltzan, 2020, these are the category of Wireless Network. We just need to put “W” stands for wireless in the front. For the rest of it is the same with WIRED Network, just get rid the cable.

Except PAN (Personal Area Network) which we will see the example in a minute.

Slide 12:

Perbanding NY to JKT

NY 783,8 km² - 8 Juta jiwa Populasi (dari ratusan Access Point bisa jadi 1-2 Wimax saja)

JKT 661,5 km² - 10 Juta jiwa Populasi Hampir sama dengan Jakarta

Slide 13:

BTS = Base Transceiver Station (Inget tadi diawal kita bahas, tanpa Cable ngga bakal ada Wifi “Celular”
one

UNTILL.. We have Satellite Comm System.

Slide 14:

Pervasive computing.. In easy way, making all things IoT.

Now this brings a problem.

However, this also created a serious problem as a high number of the corporate security breaches are the result of the loss or security breach of mobile device.

Increasing Security Breach

Slide 15:

HOW MIS DEPARTEMENT ENSURE THE SECURITY OF THE COMPANY'S WIRELESS NETWORKS ? If most of the employee using their own devices for working?

How MIS dept make sure employee is using appropriate Antivirus software? Or even not using Antivirus?

Slide 16:

Nah MDM ini adalah Strategi Keamanan. Bisa dibilang Policy juga, kebijakan perusahaan.

Eventhoug this can be a bit rigid if implemented, but we have to.

Example:

Kalau HP ilang, foto pribadi kita yg kita sispam di cloud juga pada ilang, karena Kebijakan MDM perusahaan kita akan menghapus semua file yg ada pada device yg berhubungan dgn kantor saat dicuri atau hilang. Atau akan terganggu karena harus tetap input paswaord saat buka aplikasi kantor di HP sendiri.

Slide 17:

Self- Explanatory

Slide 18:

GPS and GIS mengapa disebut Application of Wirelss Tech? Karean kedua bekerja dengan bantuan Satelite, ingat WWAN kita mwnggunakan Satelite

Boston Digital Bridge: which concentrates on local schoolchildren and their parents, helping to make them knowledgeable about computers, programs, and the Internet. Also other organization provide inexpensive laptop.

RFID:

- Animal Ear tag menggunakan gelombang radio untuk tracking aktivitas ternak
-

So not only Business tapi NGO (non-governmental organization) juga non-profit

Slide 19-20:

Self-Explanatory

Slide 21:

Infrared technology around 5 mins just for tranfering 3 mb

Tell my story, first time using internet via Infrared,

Slide 22-23:

Self-Explanatory

Slide 24-25:

Just as your home has a unique address, so does your computer. Instead of street names and zip codes, your computer has an Internet protocol (IP) address. No IP Address will be the same each other, Never

Slide 26:

Your computer connects to the Internet through your modem and an Internet service provider (ISP). When you turn on your

browser, your computer sends a request to your ISP to open an Internet connection through your Wifi, or Internet credits. Wifi connects your computer to the Internet. Computers talk to each other through electronic signals that follow the same rules and language called protocols.

Slide 27:

Self-Explanatory

Slide 28-30:

Now when you already find the IP Address mean you already found your destination Address (your GF address).

Now your browse usually shows a Web page right and you will have many choices, Interface points. (links, picture, video etc,) it is actually a link to escort you to web page. This procedure are accomplished through HTTP(S) ((hypertext transport

Protocol Secure). If the Web page existed, it will show you what you clicked, but if it is not, this HTTP 404 message will popped out, typically said "page not found"

So Finding the IP address alone but no web page existed, means the same like you don't find anything.

Slide 31:

So if I asked you Which came first Internet or WWW ? Internet First 1969 (and then email 1971) then WWW 1989

What about Chicken and Egg?

Slide 32:

1 Ray Tomlinson He forgot the content but he suggest QWERTYUIOP – he did not invent the name "Email"

2 It was sent from one computer to another computer sitting right beside it in Cambridge, Massachusetts, but it traveled via ARPANET

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End of Note