

Beginners:

# What Does 'Telecoms' Mean?

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*'Telecoms' is short for 'Telecommunications'*

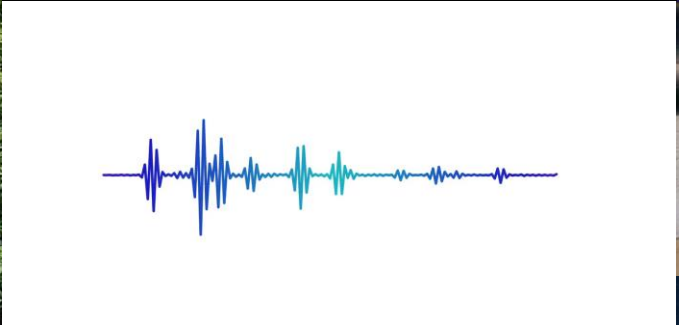


# Telecommunications = Tele + Communications

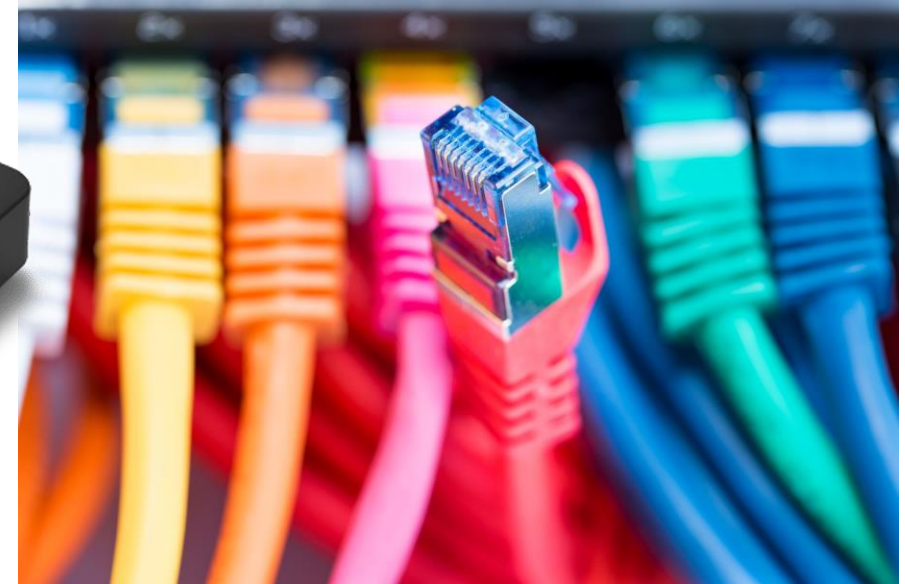
“Tele” means ‘far’,  
‘distant’, or ‘at a  
distance’

“Communications” means  
‘imparting’ or ‘exchanging of  
information’ by speaking, writing, or  
using some other medium

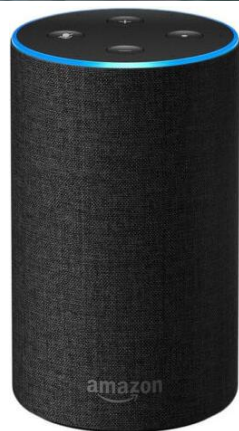
Telecommunications = Electronic transmission of information over a distance











Telecoms Engineer

British Telecom

Telecoms Service Provider

Developing Telecoms

Telecoms Services

Deutsche Telekom

Telecom Networks

Telkom

Batelco  
Telecoms Industry

Total Telecom

Telecoms Equipment

Telecoms Sales Manager

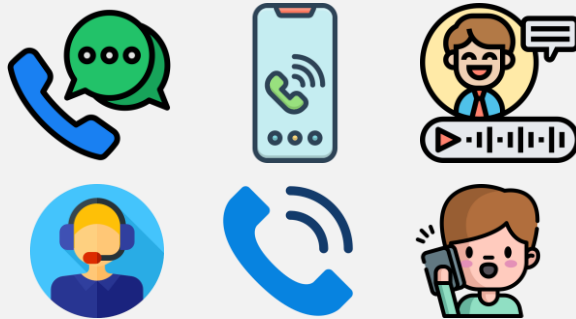
TelecomTV

Telekom Malaysia

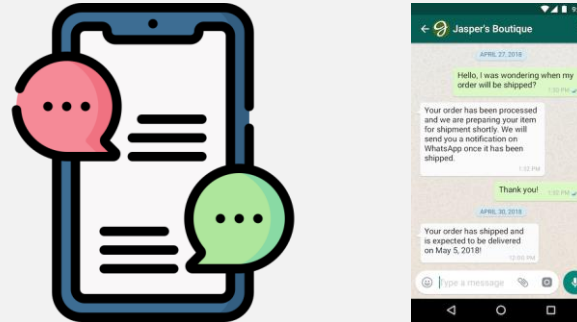
Telecoms Consultant

# Telecoms Services

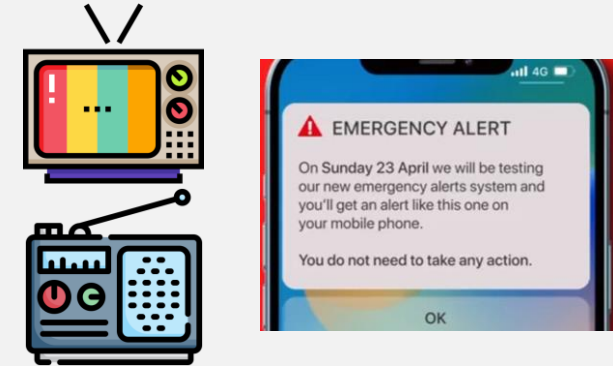
## Voice Services



## Messaging Services



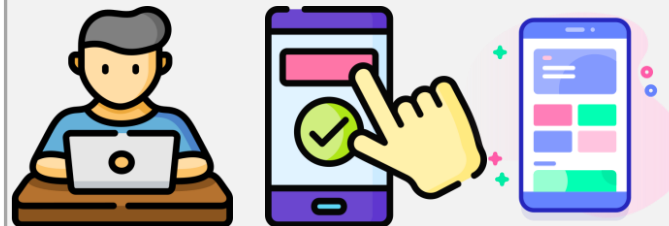
## Broadcasting Services



## Video Services



## Data Services



## Short Range Communications Services





# Communications Medium

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## Wired

- Copper Wire
  - Landline phones, (A)DSL
- Coaxial Cable
  - Cable TV, DOCSIS
- Fibre Optic Cable
  - High-speed Broadband

## Wireless

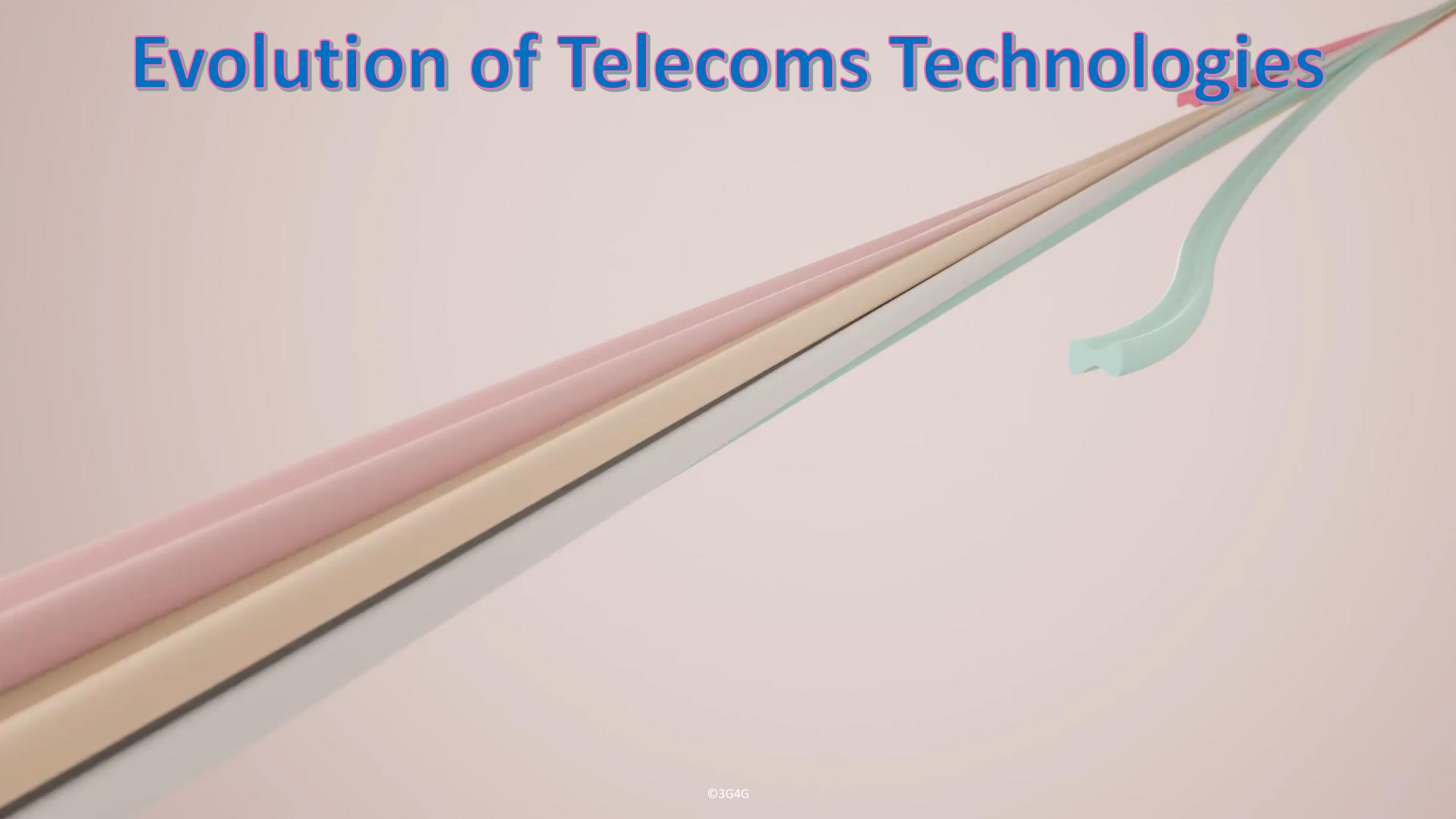
- Mobile Cellular Networks
  - Smartphones, MBB, etc.
- Satellite Networks
  - Phones, broadband, TV
- Wi-Fi
  - Internet services
- Bluetooth
  - Headsets, mouse, etc.
- NFC
  - Mobile Payments
- Zigbee, Z-Wave, Thread, etc.
  - Smart Homes

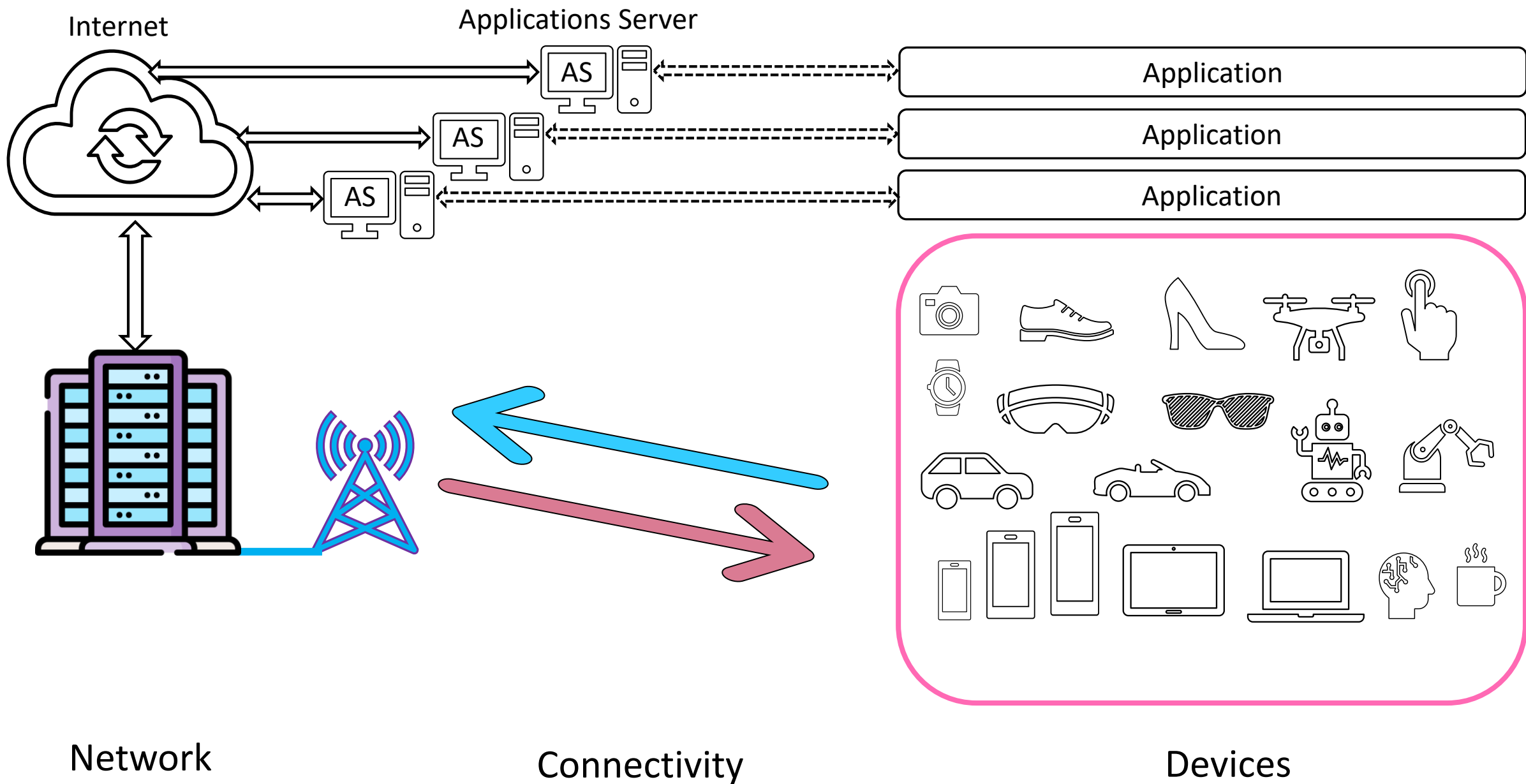
## Light Based Communications

- Infrared
  - Remote control, etc.
- Laser
  - Point-to-point links
- Visible Light Communication (VLC)
  - High Speed broadcast



# Evolution of Telecoms Technologies



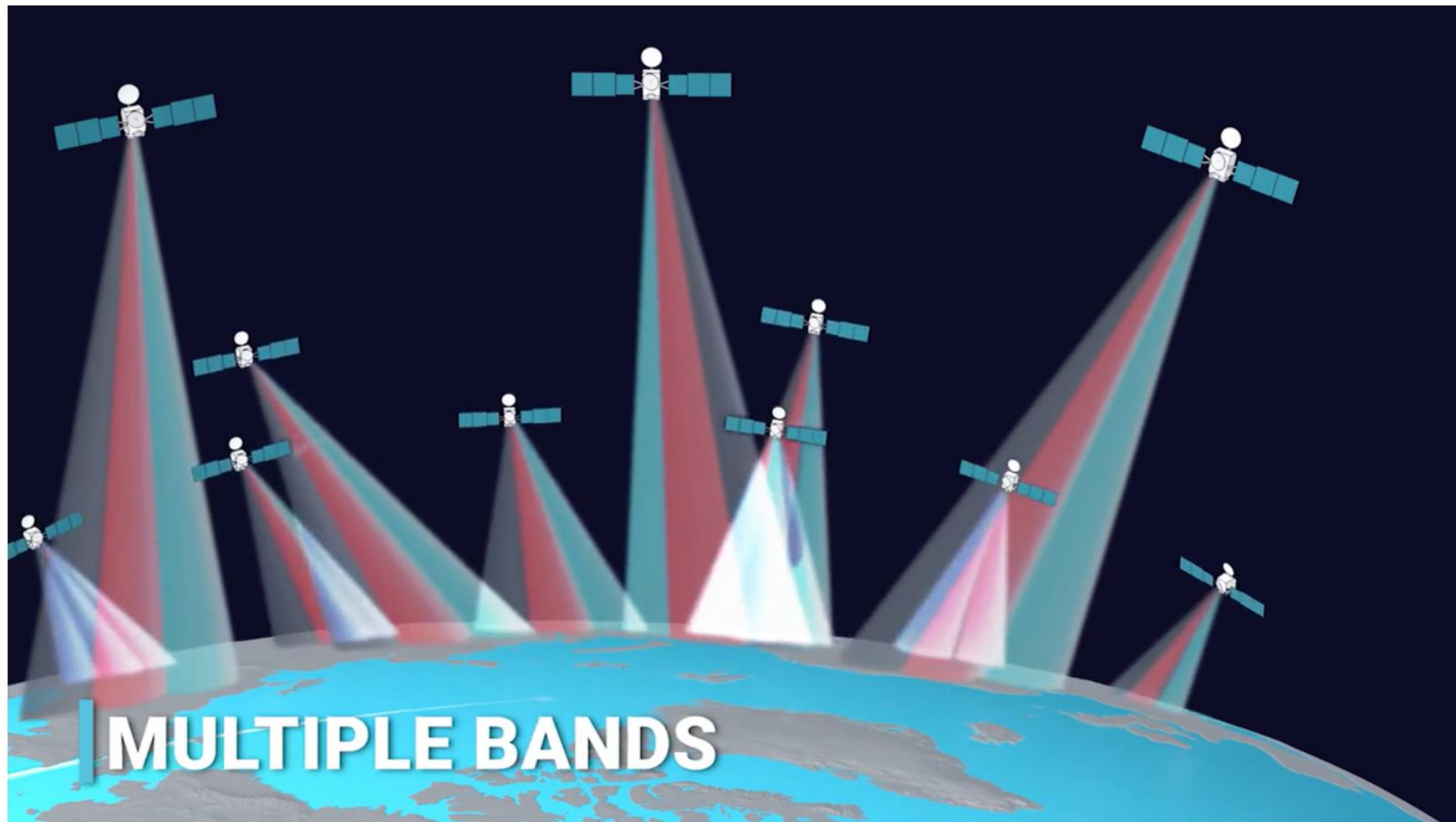


# Collaboration Over Immersive XR



Source: [Qualcomm](#)

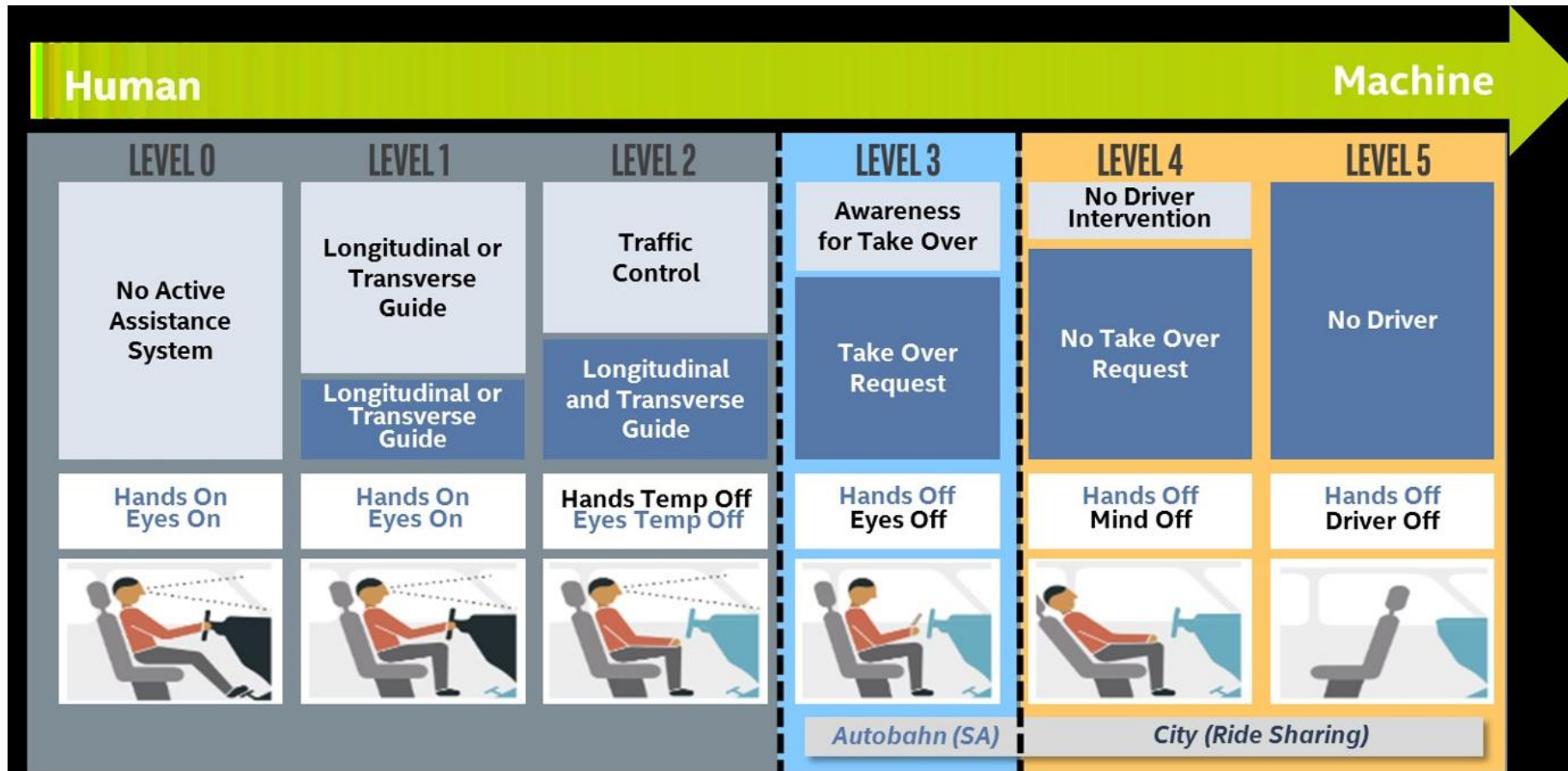




### Further Reading on Satellite Communications:

- TechKnowledge Technology Stories - Part 3: Satellites - Our Friends In The Sky... ([link](#))
- Non Terrestrial Networks (NTN) ([link](#))

# Autonomous Vehicles



## Further Reading on Autonomous Vehicles:

- Tutorial on Connected and Autonomous Vehicles (CAVs) ([link](#))
- Vehicle to Everything (V2X) Introduction ([link](#))

# Thank You

To learn more, visit:

3G4G Website – <https://www.3g4g.co.uk/>

3G4G Blog – <https://blog.3g4g.co.uk/>

Telecoms Infrastructure Blog – <https://www.telecomsinfrastructure.com/>

Operator Watch Blog – <https://www.operatorwatch.com/>

Connectivity Technology Blog – <https://www.connectivity.technology/>

Free 5G Training – <https://www.free5gtraining.com/>

Free 6G Training – <https://www.free6gtraining.com/>

Private Networks Technology Blog – <https://blog.privatenetworks.technology/>

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