

# Lecture 3

# E-business network technology

Lecturer: Professor Rasulev D.M.

# E-business technology is e-technology



# Network technology



# Network nodes



Network interface controller



Repeaters and hubs



Modems



Switches



Bridges



Firewalls



Routers

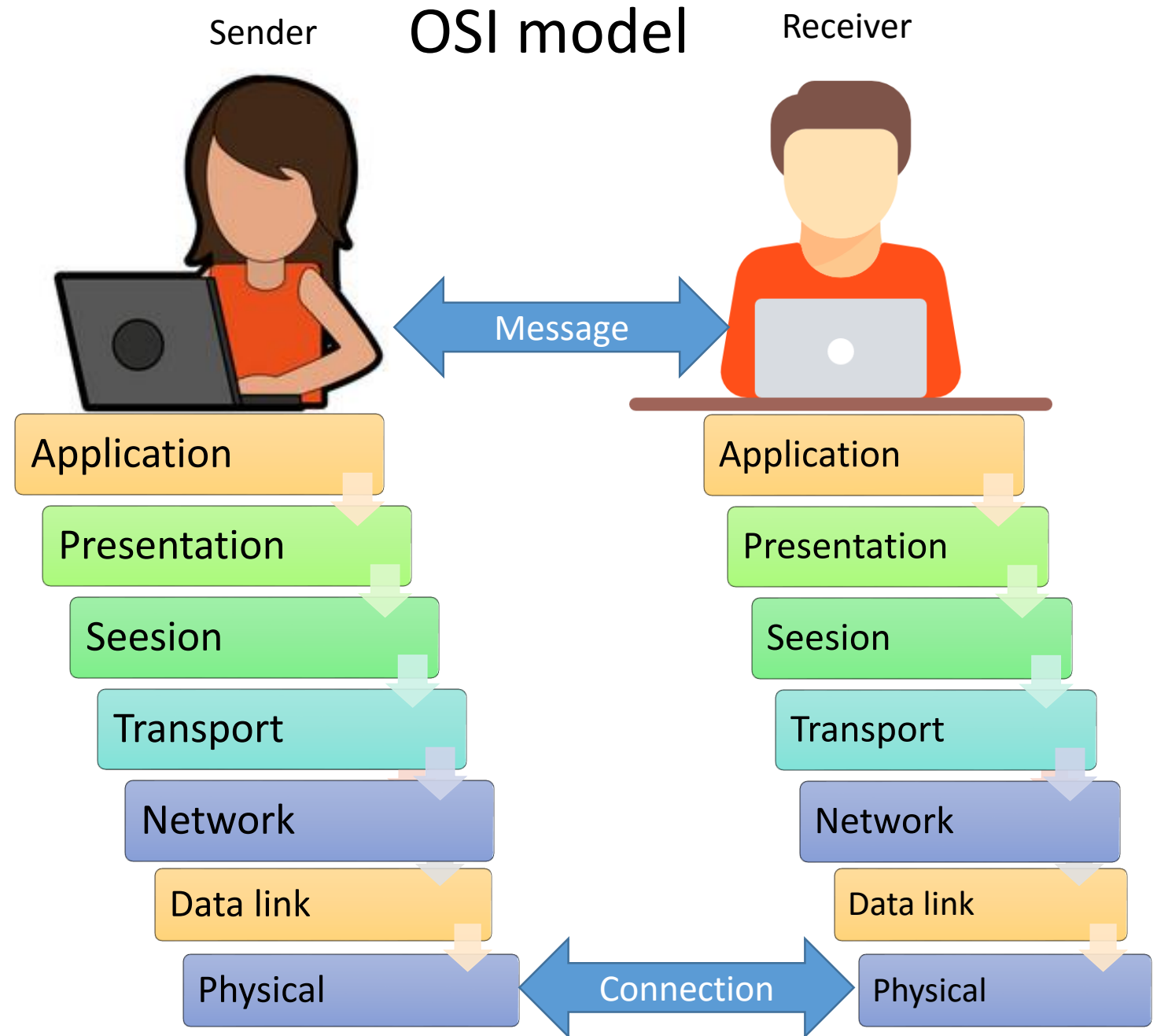
# Networking



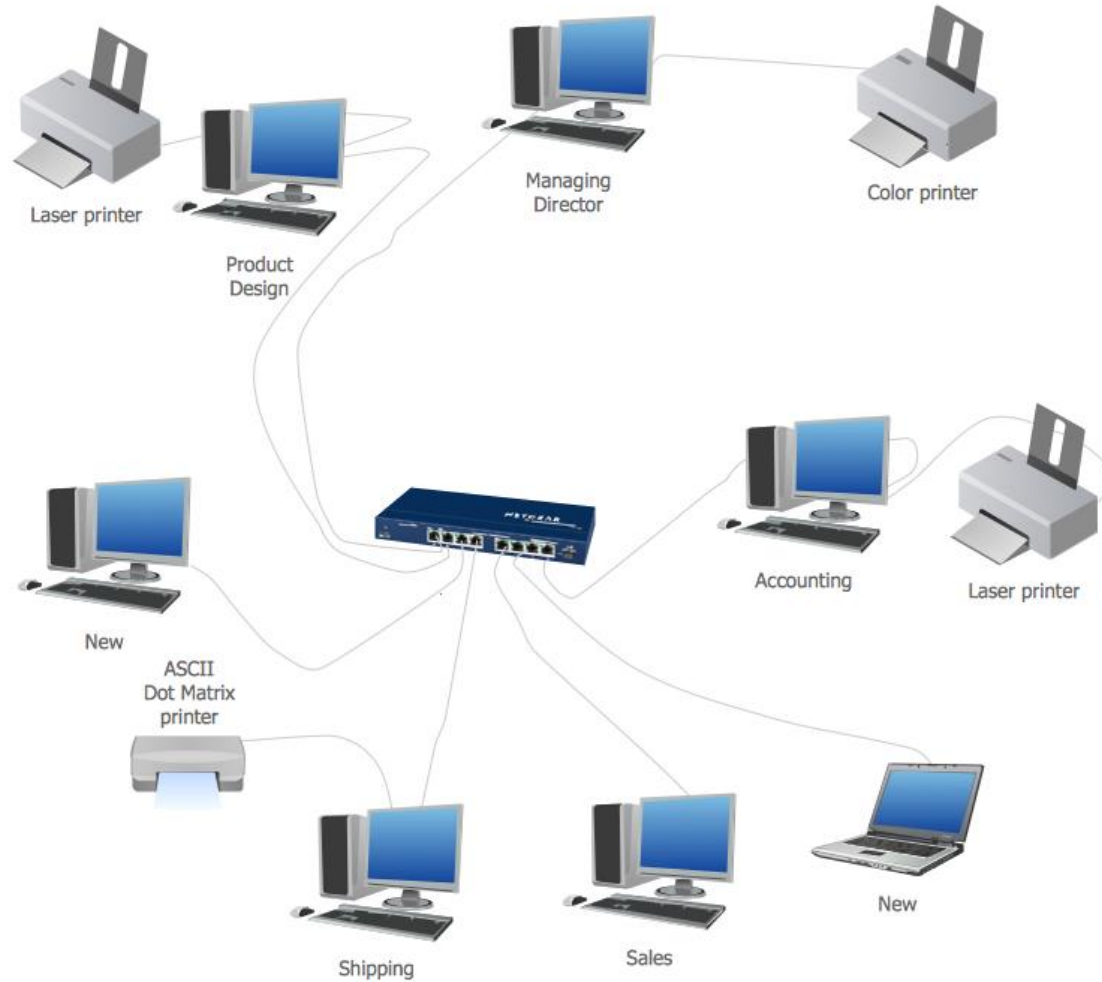
Source <https://www.youtube.com/watch?v=ObNYIm7HJs8>

# Communication protocols

- IEEE 802
- Ethernet
- Wireless LAN
- Internet protocol Suite
- SONET/SDH
- Asynchronous Transfer Mode
- Cellular standards



# Network technology



- Nanoscale
- Personal (PAN)
- Local (LAN)
- Campus (CAN)
- Metropolitan (MAN)
- Wide (WAN)
- Cloud (IAN)
- Internet
- Interplanetary Internet

# Organizational network technologies



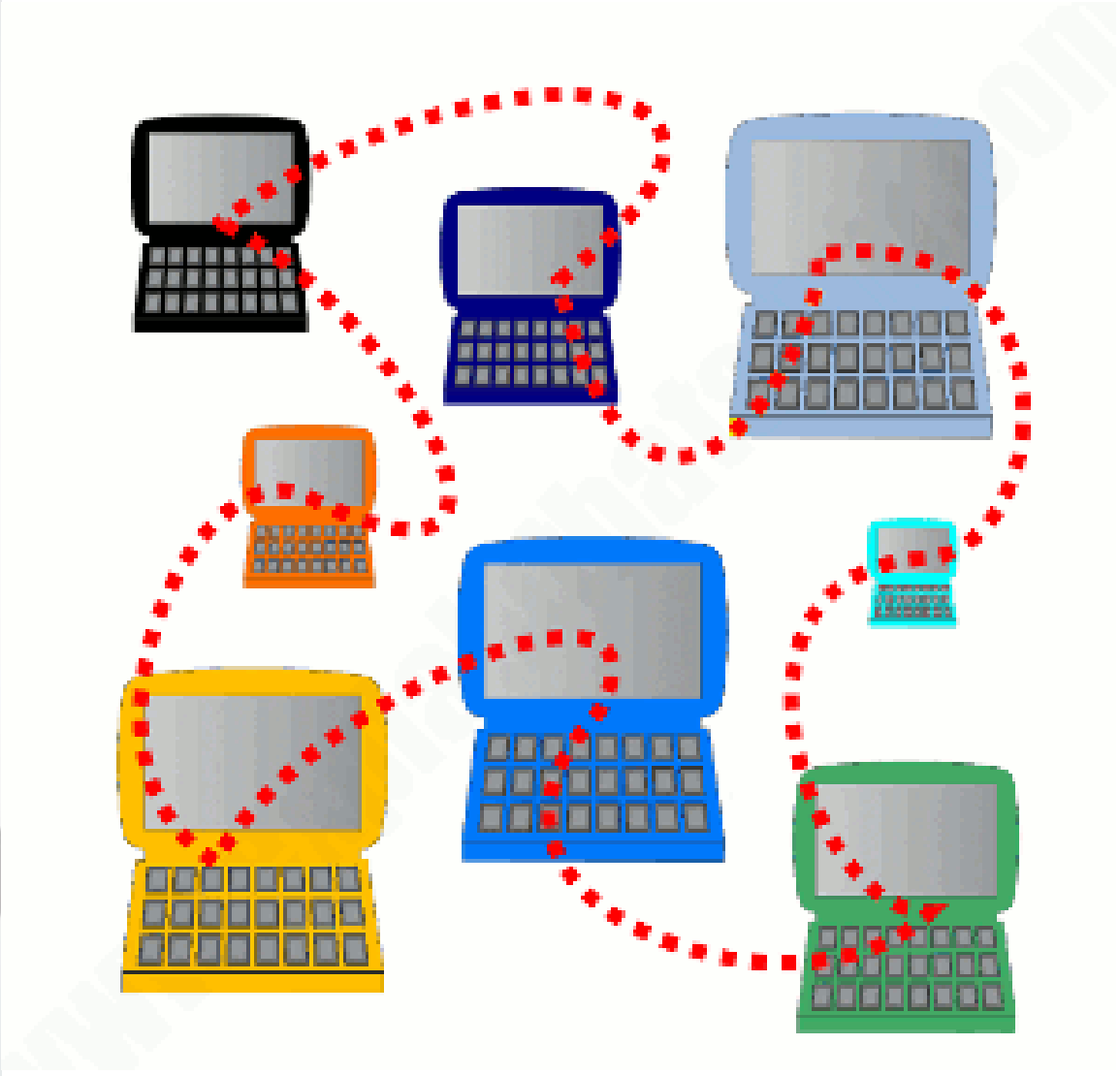
Intranet

Extranet

Internet

Darknet

# Intranet



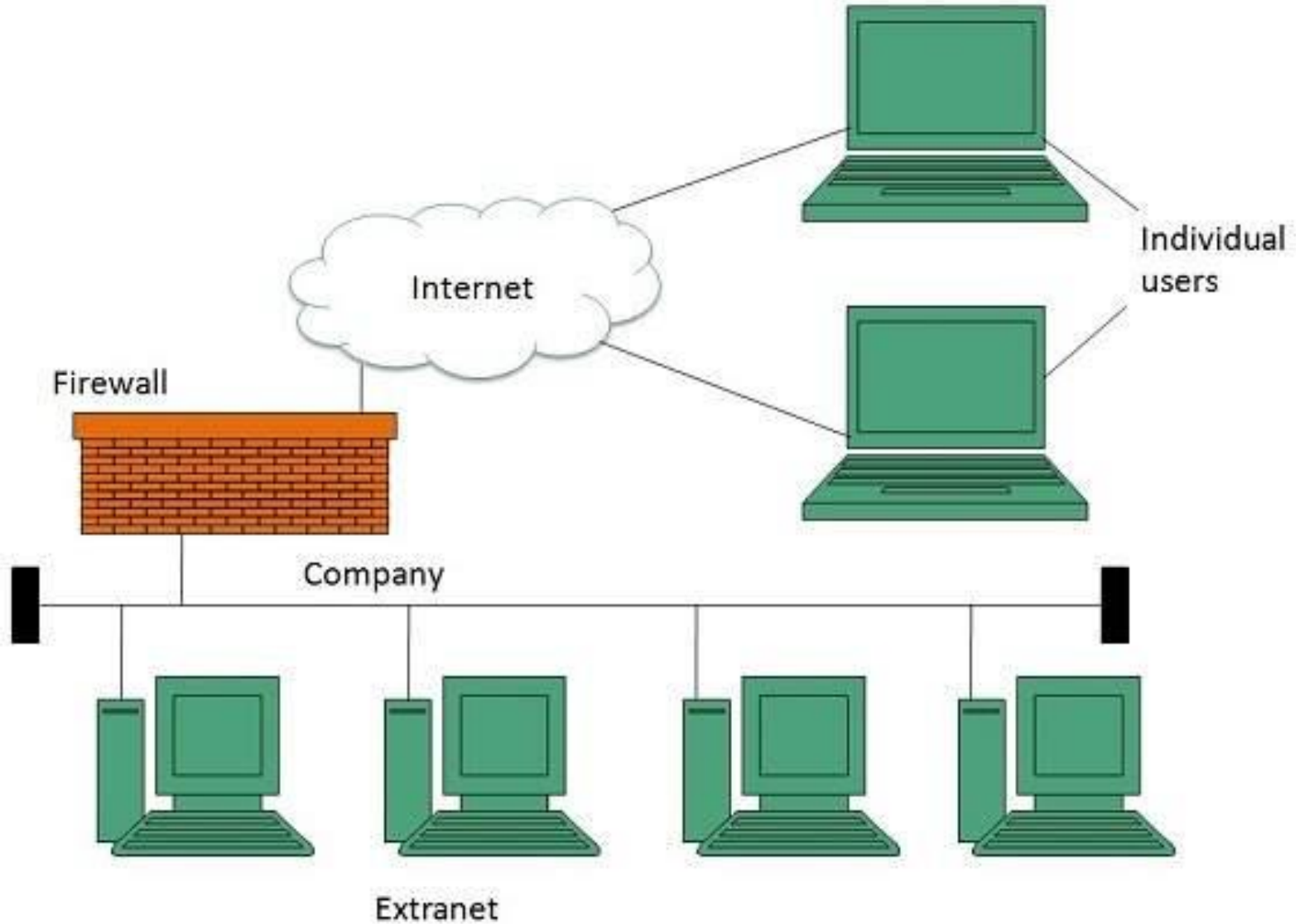
# Intranet application



# Managing Intranet



# Extranet



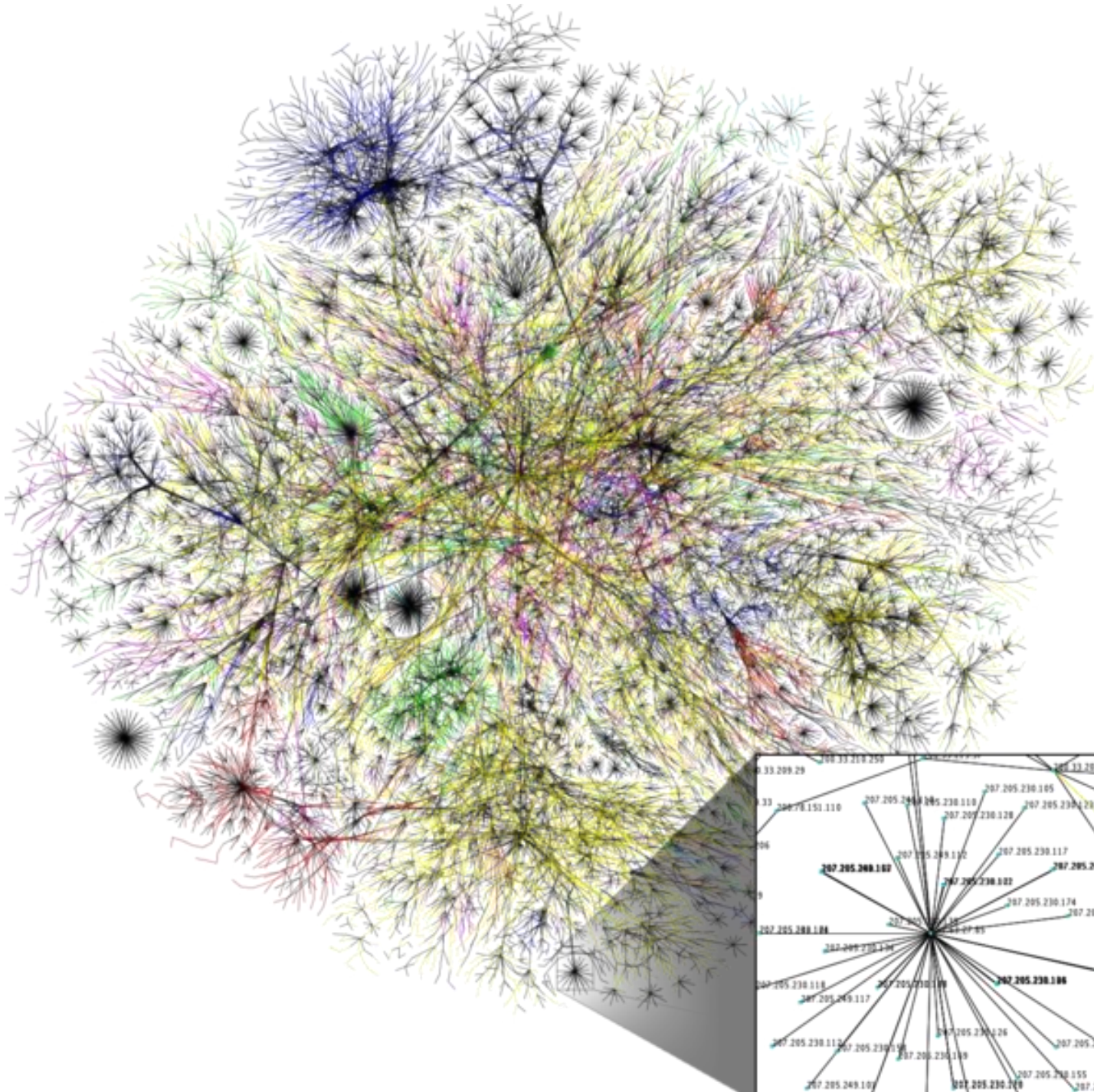
# Benefits Extranet



# Intranet Vs. Extranet



# Internet



- Internet protocol suite (TCP/IP)
- World Wide Web (WWW)
- Domain Name System (DNS)
- Internet

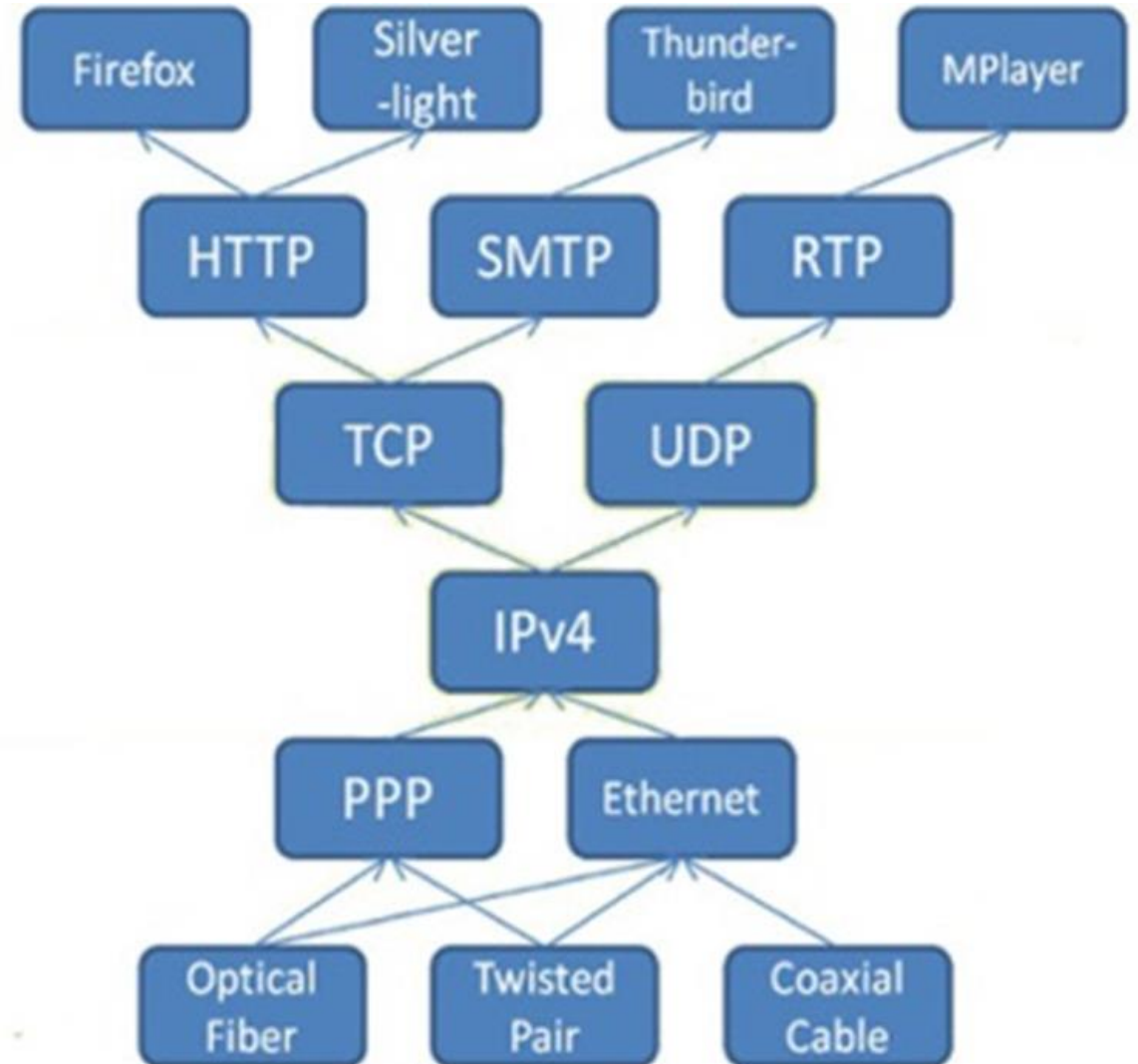
# Internet technologies



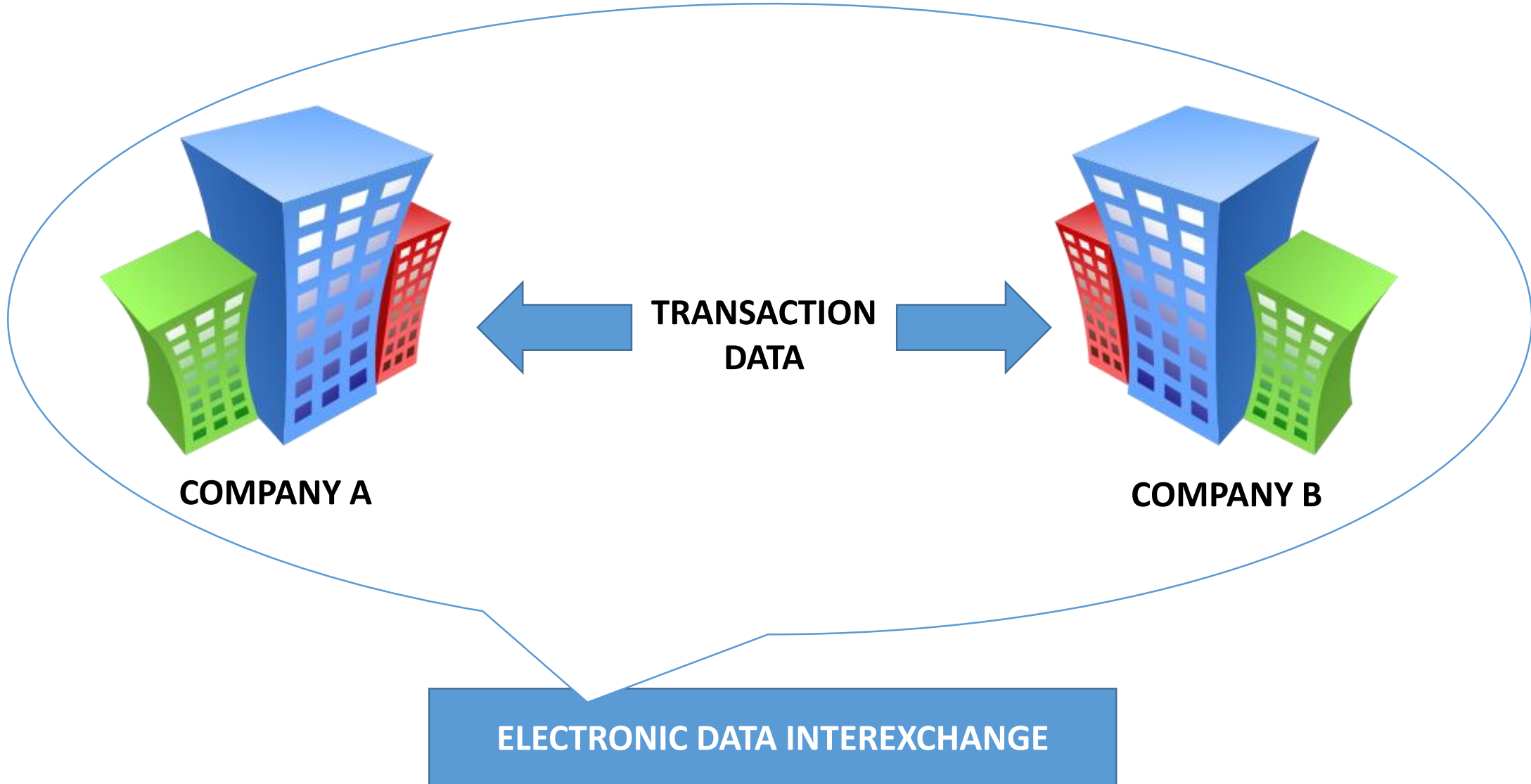
Routing and  
service tiers

Access

# Internet protocols



# Data transfer



**COMPANY A**

**TRANSACTION  
DATA**

**COMPANY B**

**ELECTRONIC DATA INTEREXCHANGE**



Thank you!

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