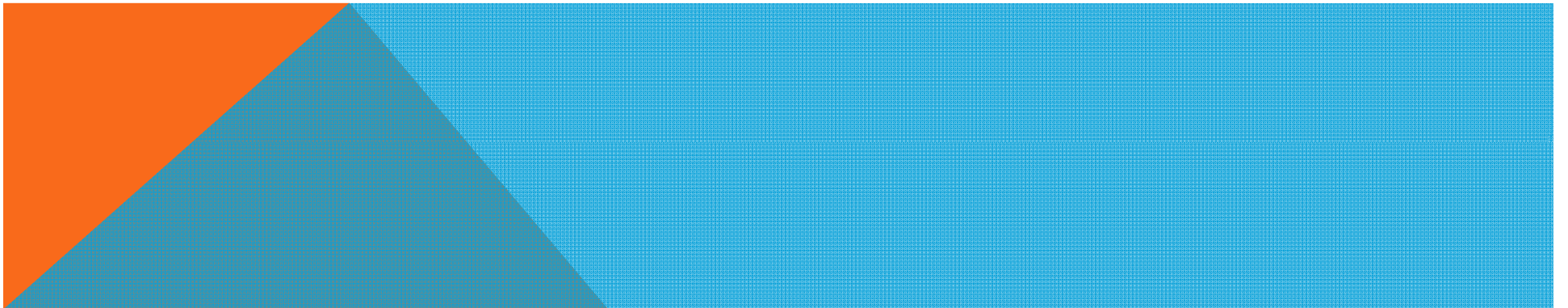
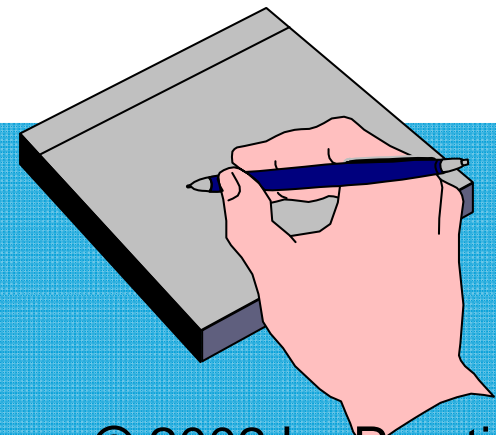


TELECOMMUNICATIONS AND NETWORKS

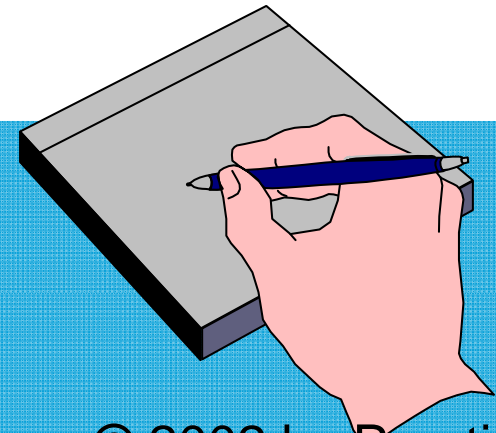


LEARNING OBJECTIVES



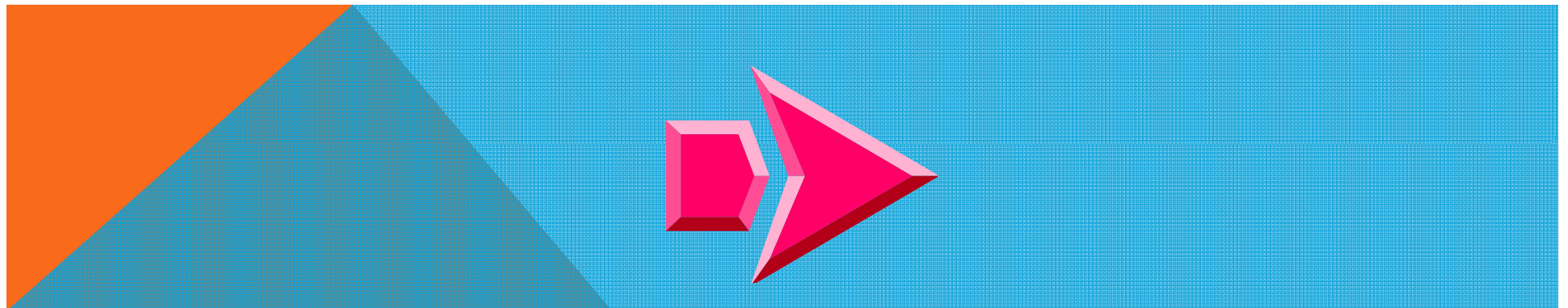
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LEARNING OBJECTIVES

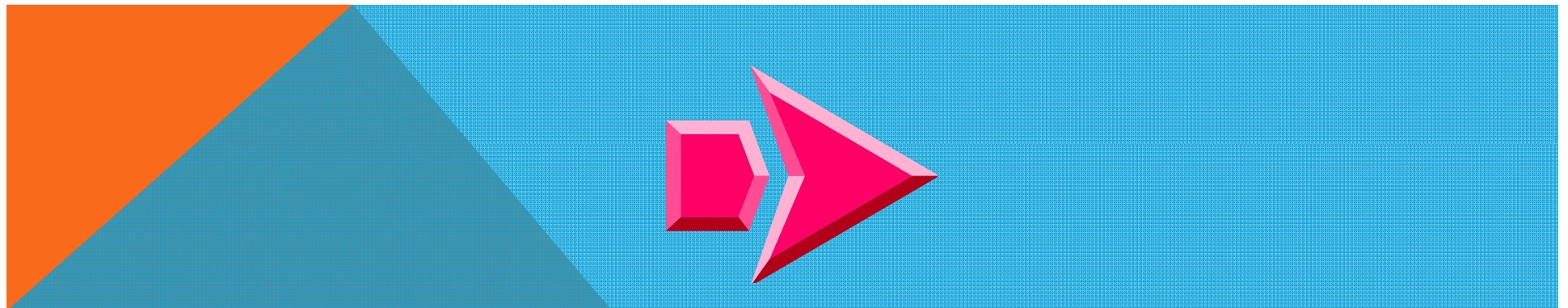


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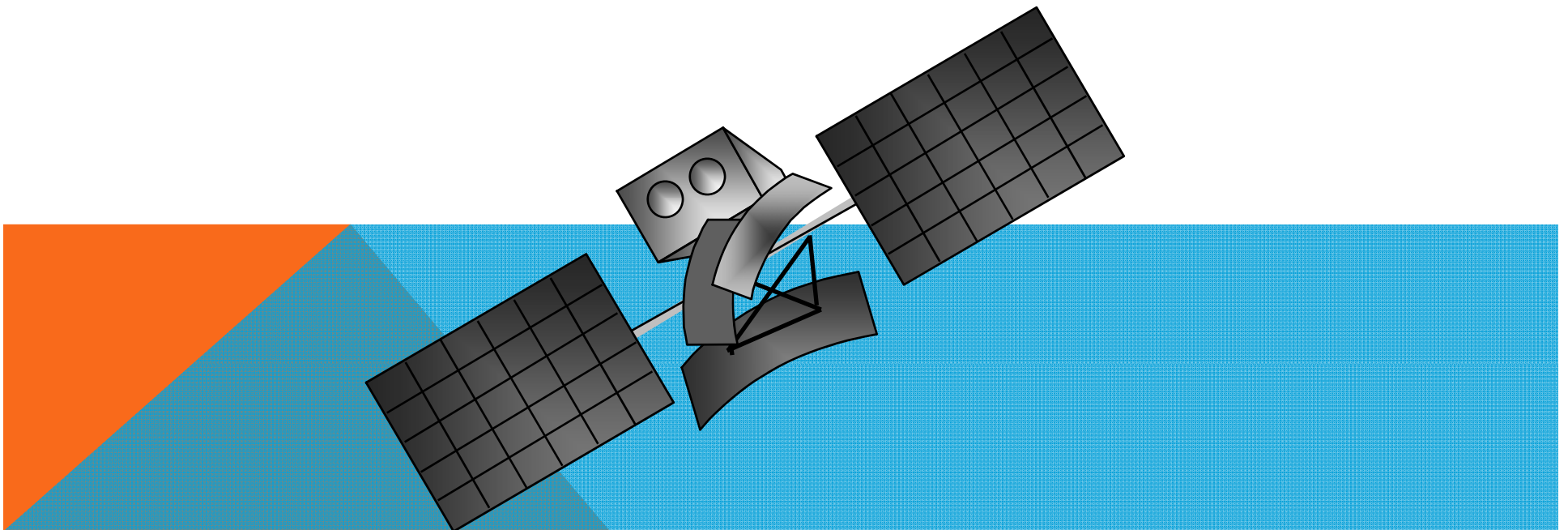
MANAGEMENT CHALLENGES



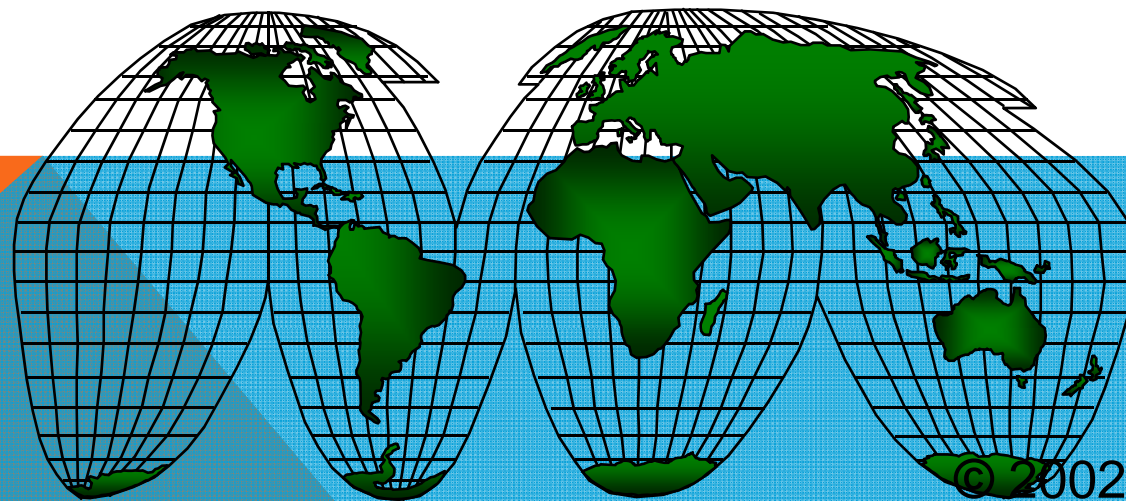
MANAGEMENT CHALLENGES



TELECOMMUNICATIONS

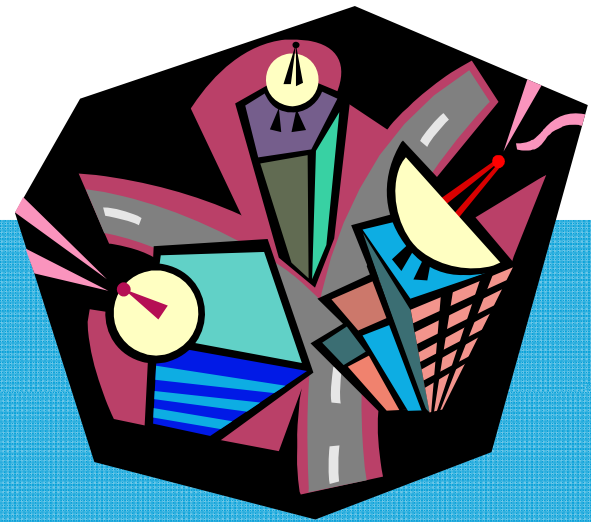


INFORMATION SUPERHIGHWAY

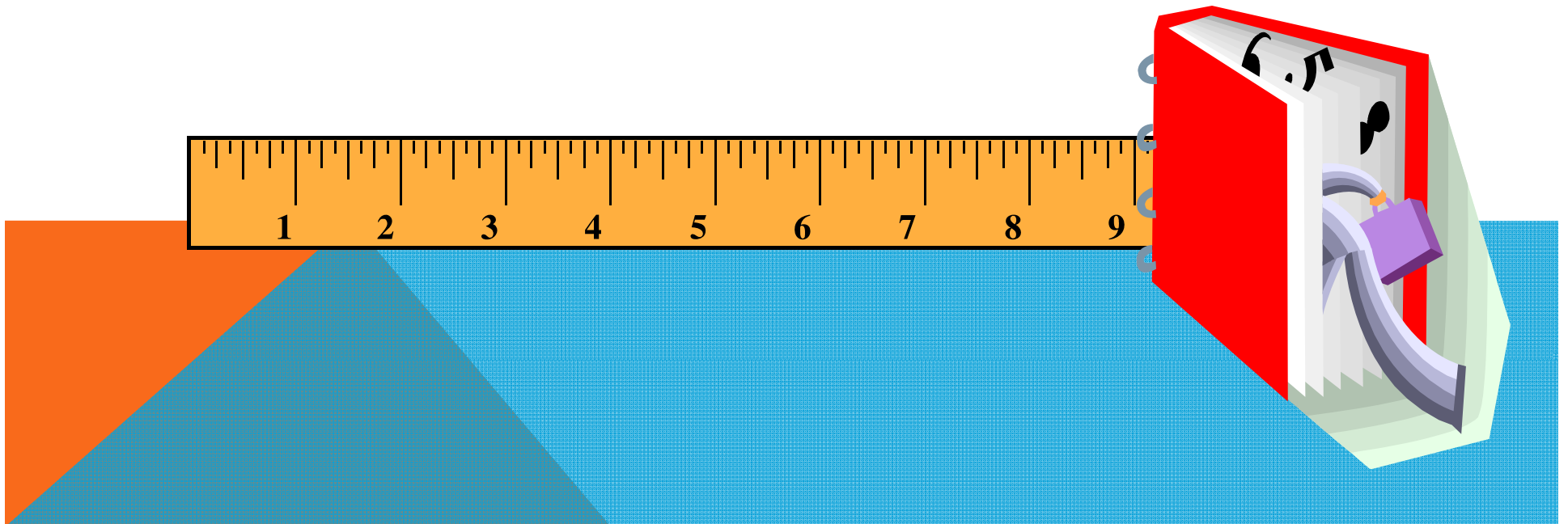


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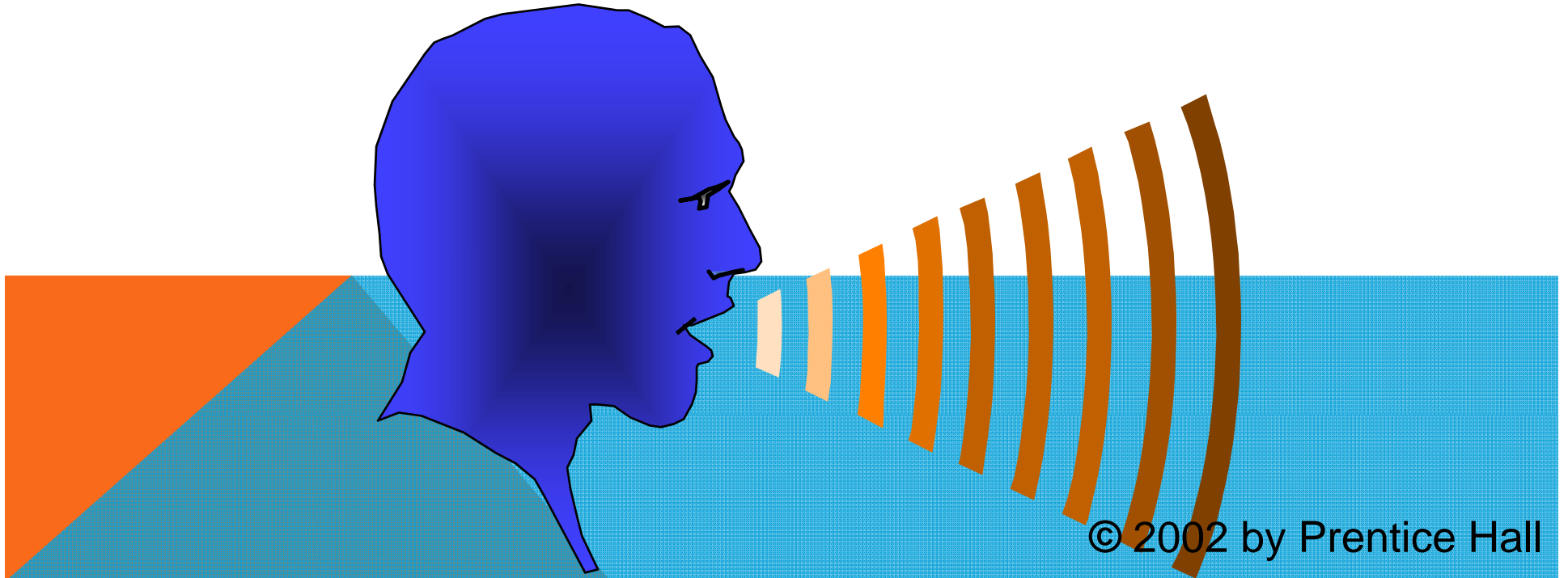
SYSTEM COMPONENTS



PROTOCOL



ANALOG SIGNAL

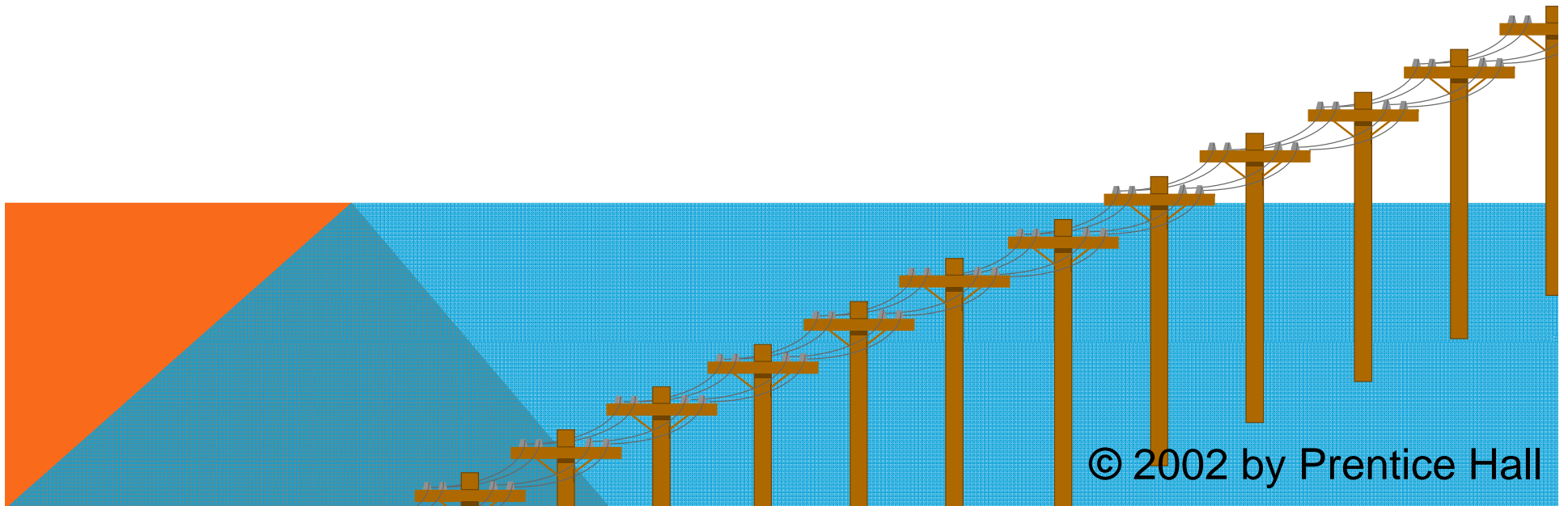


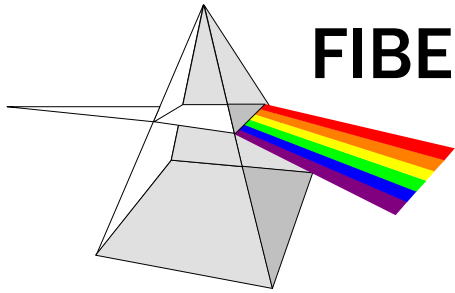
DIGITAL SIGNAL

-
-

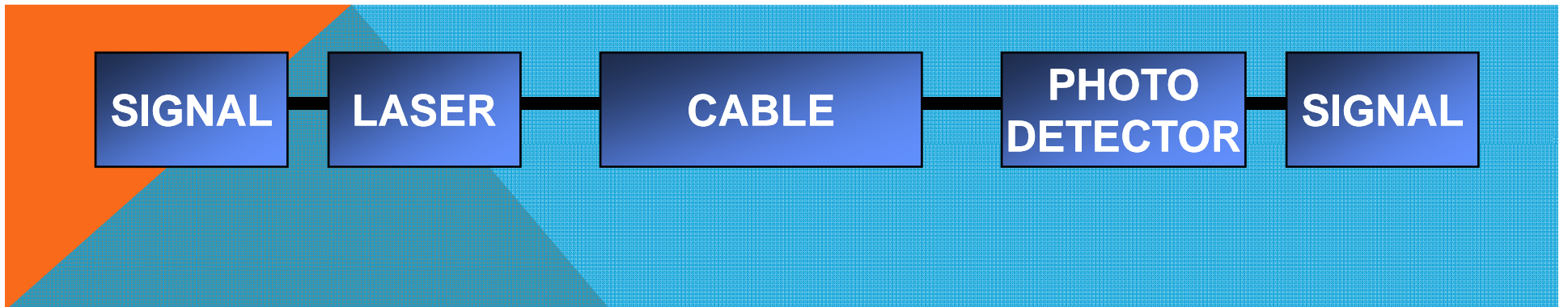
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COMMUNICATION CHANNELS

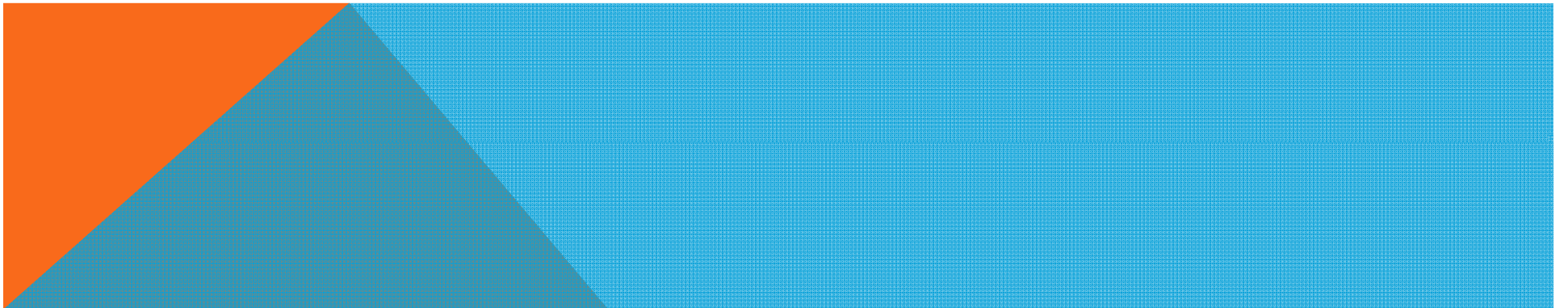
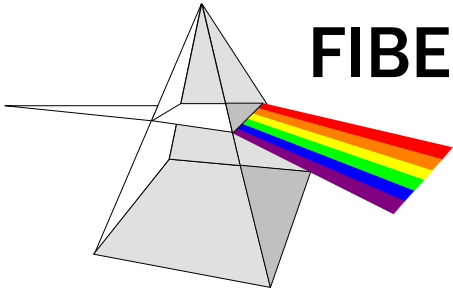




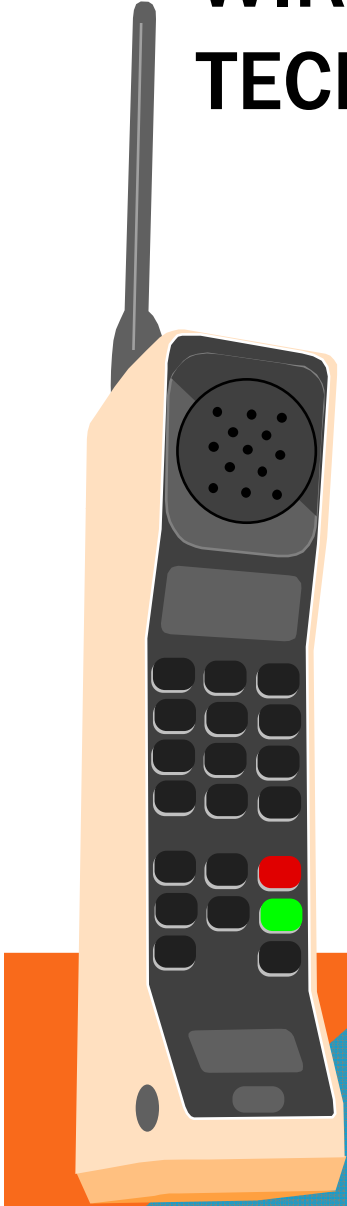
FIBER OPTICS



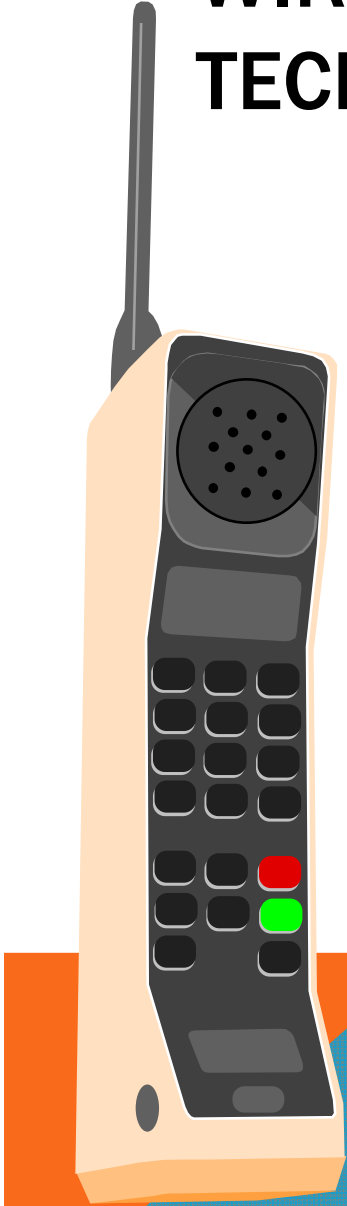
FIBER OPTICS



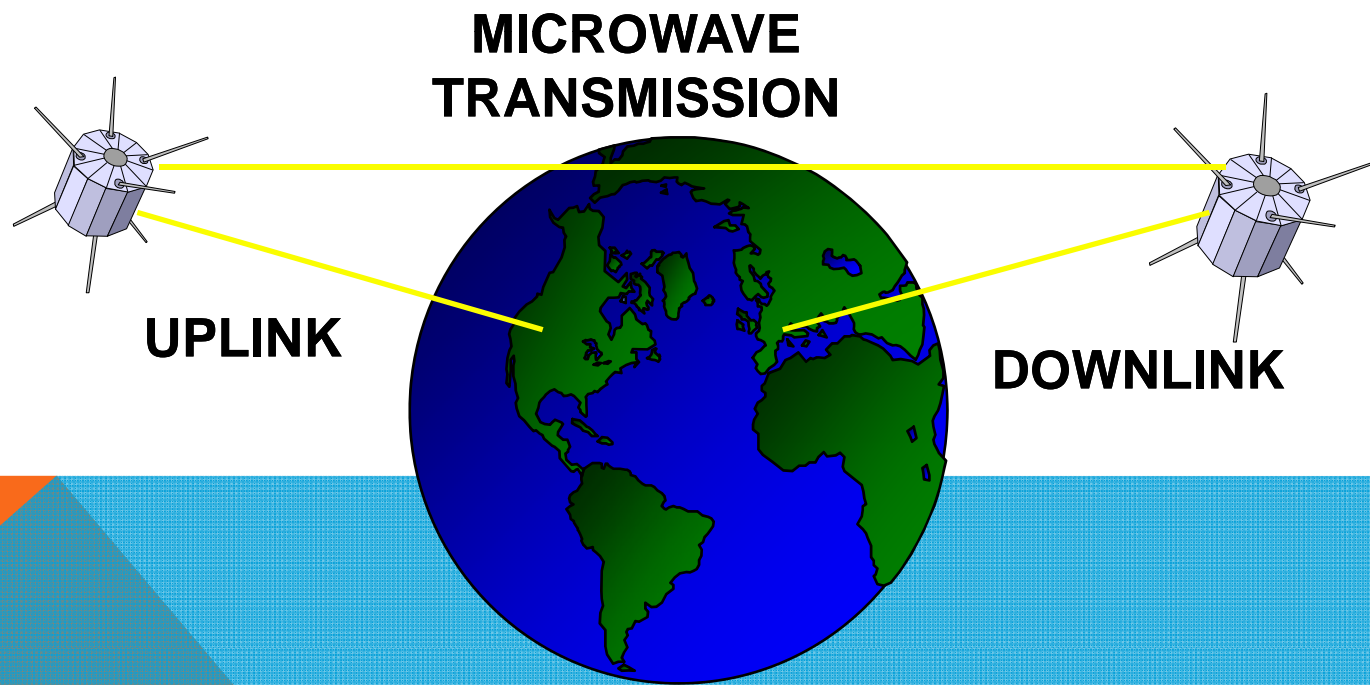
WIRELESS TRANSMISSION TECHNOLOGIES



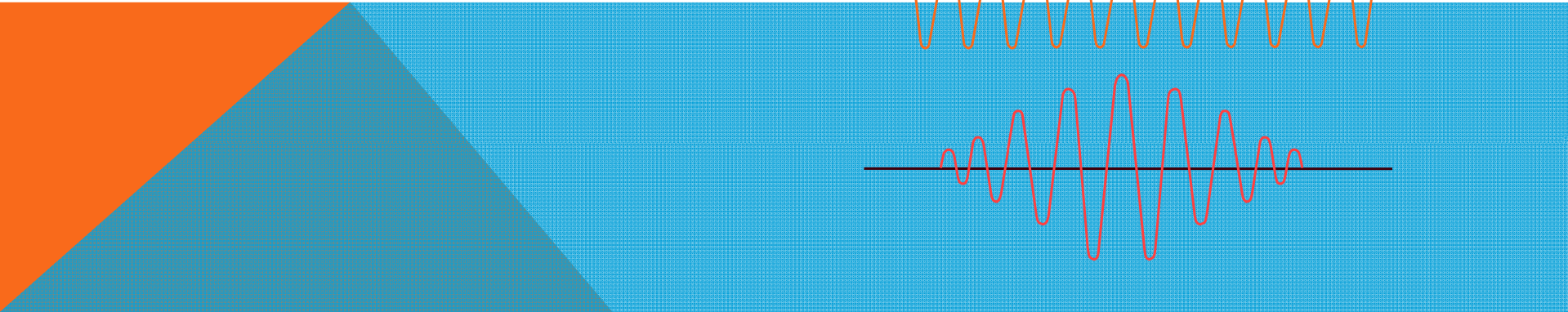
WIRELESS TRANSMISSION TECHNOLOGIES



ORBITING SATELLITES



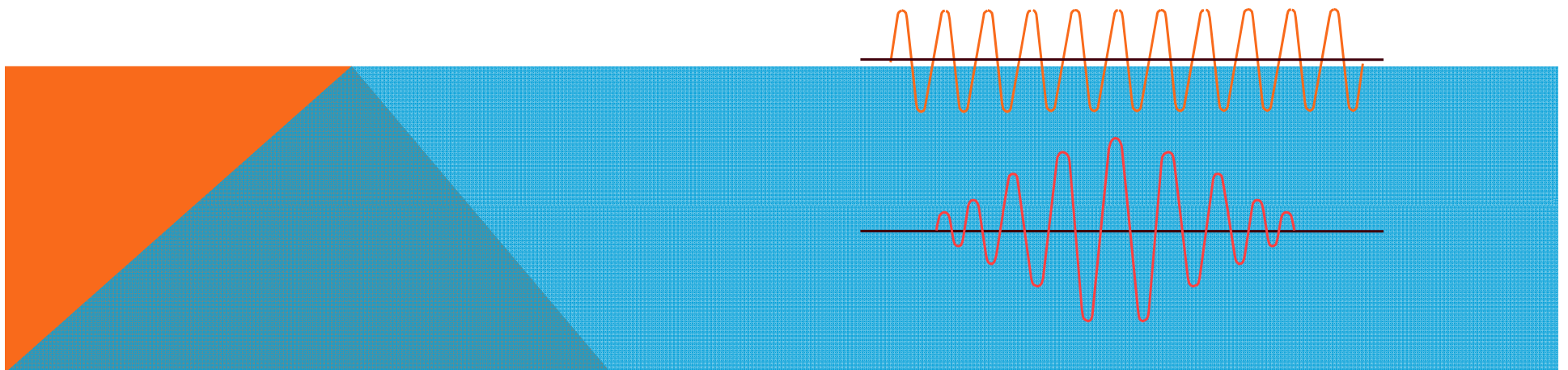
COMMUNICATIONS CHANNELS



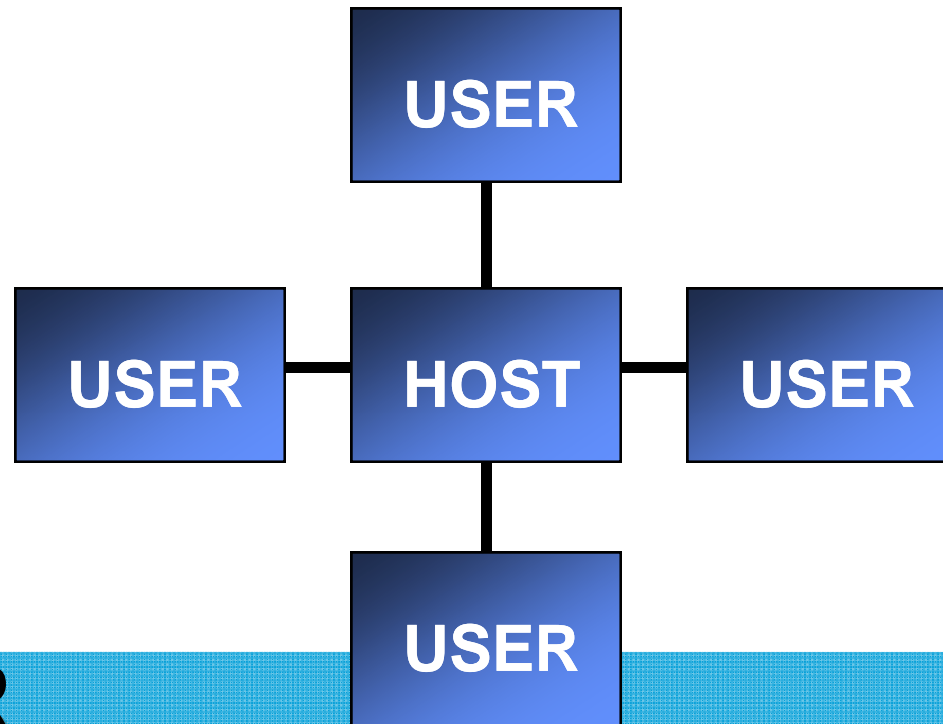
SPEEDS & COST OF MEDIA

MEDIUM	SPEED	COST
TWISTED WIRE	300 BPS - 10 MBPS	LOW
MICROWAVE	256 KBPS - 100 MBPS	
SATELLITE	256 KBPS - 100 MBPS	
COAXIAL CABLE	56 KBPS - 200 MBPS	
FIBER OPTICS	500 KBPS - 6.4 TBPS	HIGH
BPS: BITS PER SECOND		
KBPS: KILOBITS PS, MBPS: MEGABITS PS,		
GBPS: GIGABITS PS, TBPS: TERABITS PS		

COMMUNICATIONS PROCESSORS

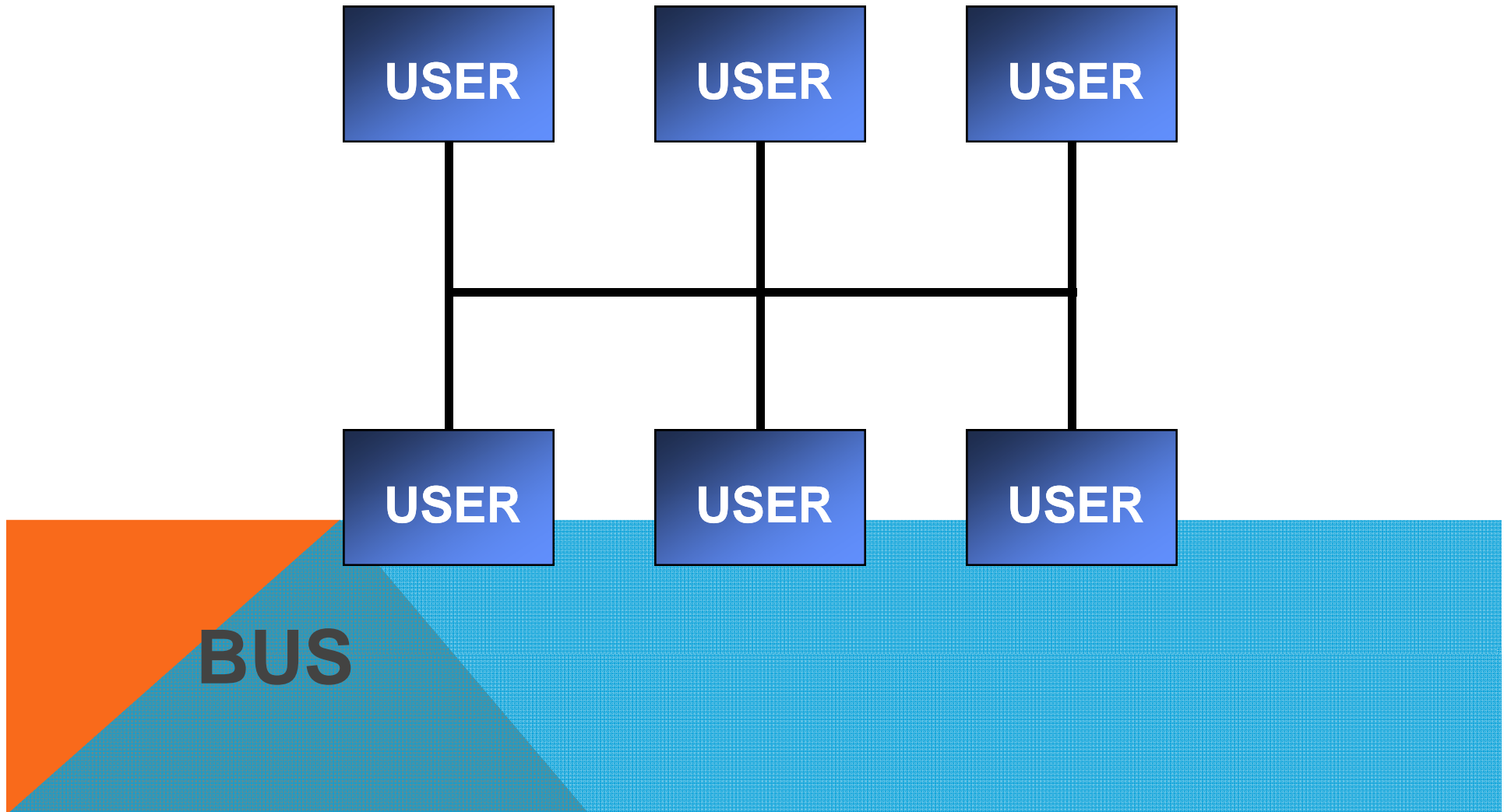


NETWORK TOPOLOGIES

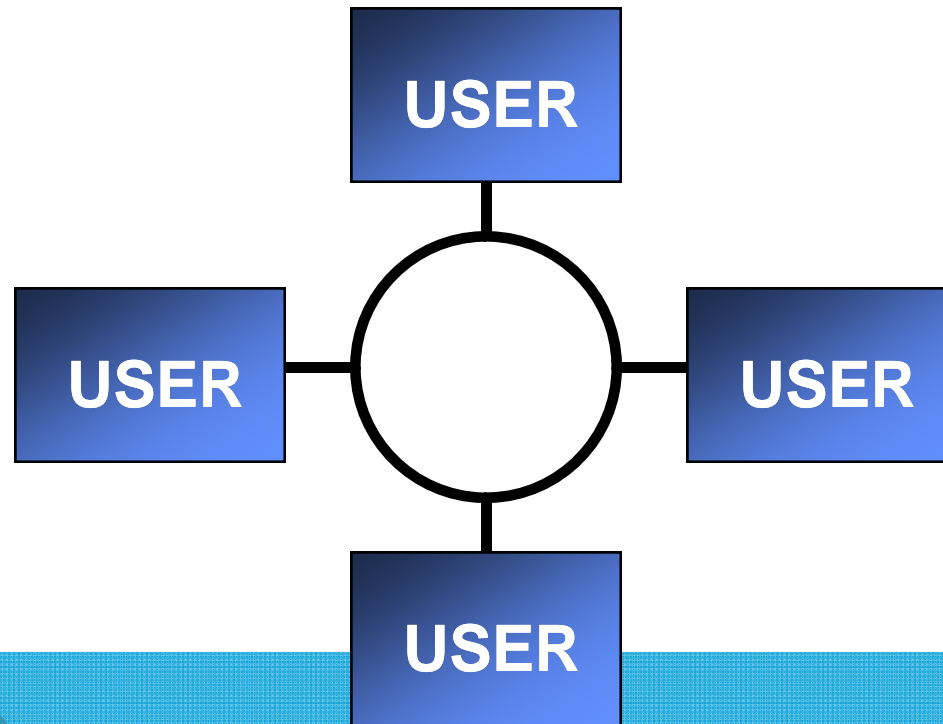


STAR

NETWORK TOPOLOGIES

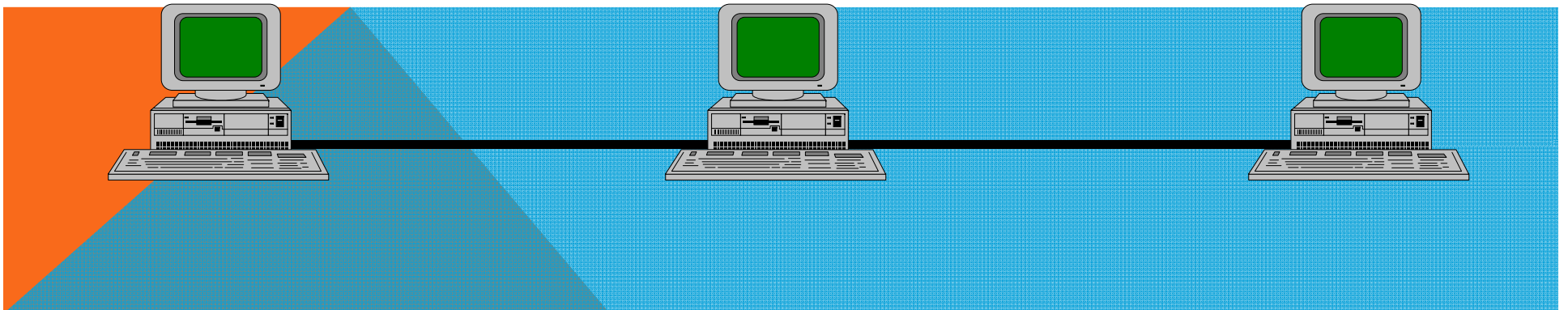


NETWORK TOPOLOGIES

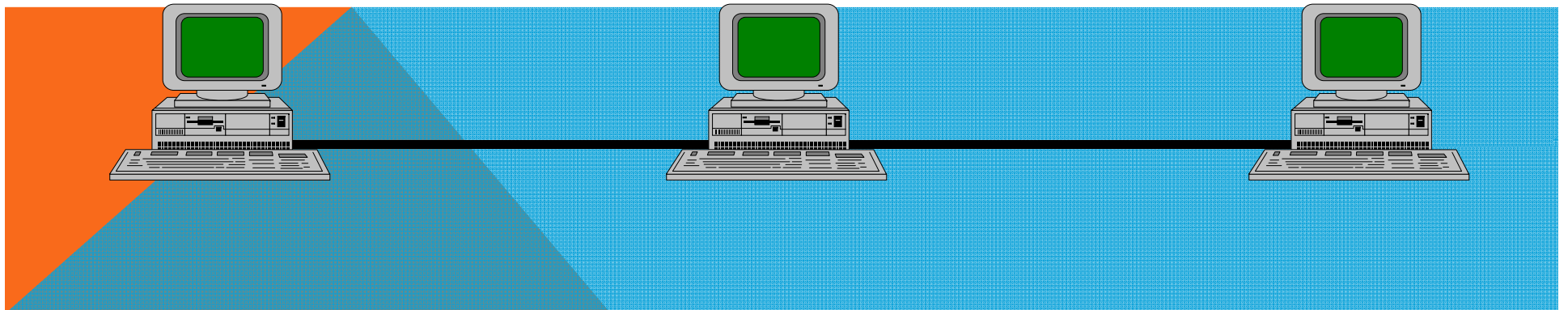


RING

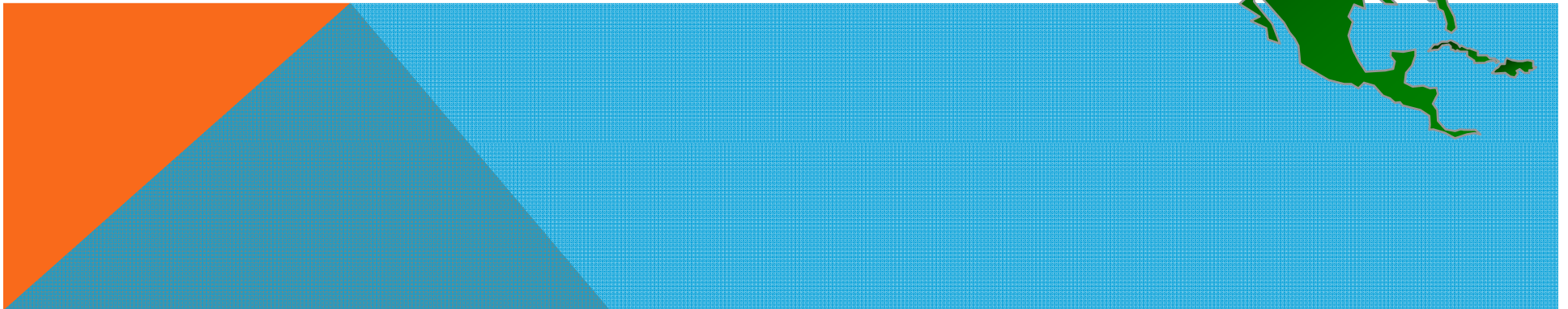
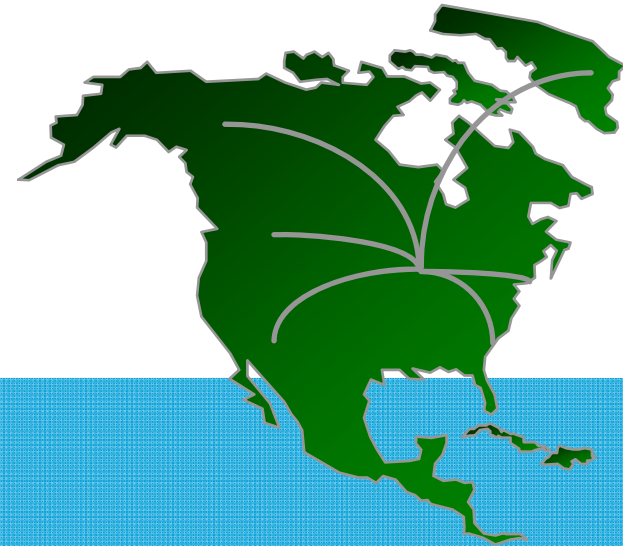
LOCAL NETWORKS



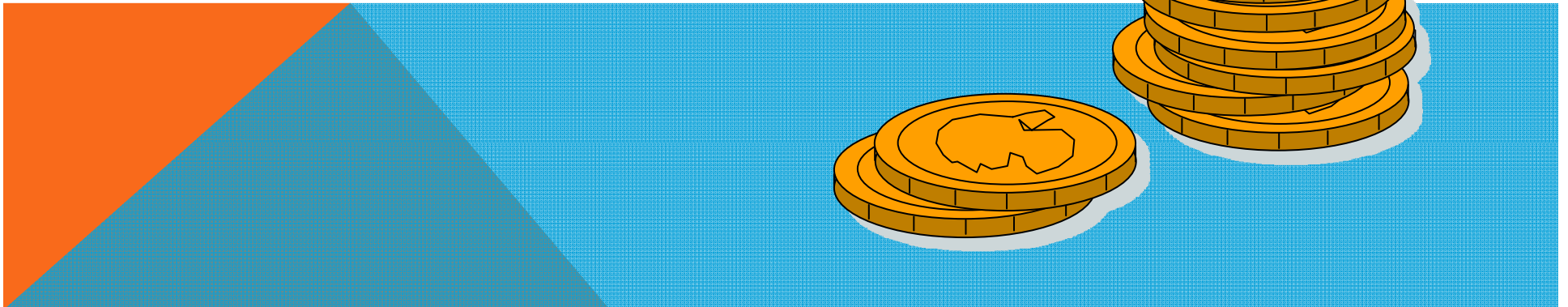
LOCAL AREA NETWORK (LAN)



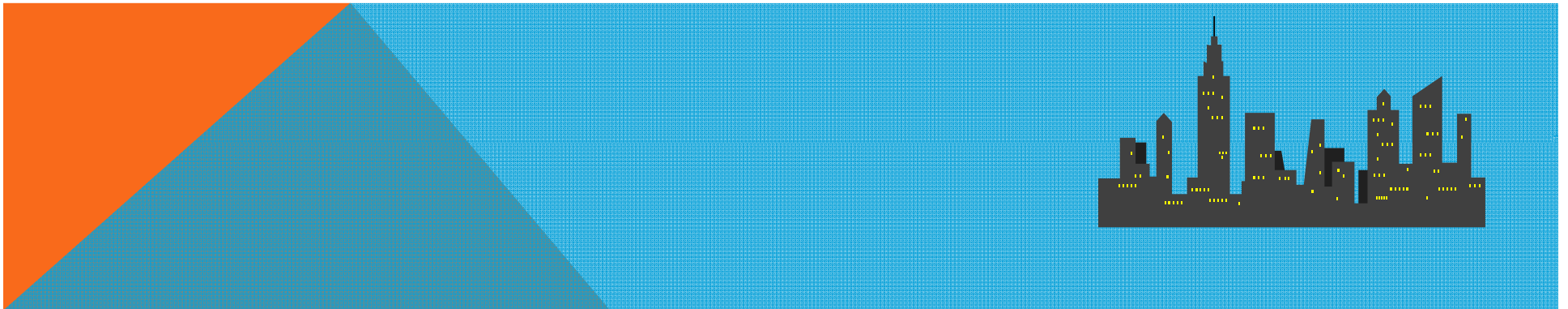
WIDE - AREA NETWORK (WAN)



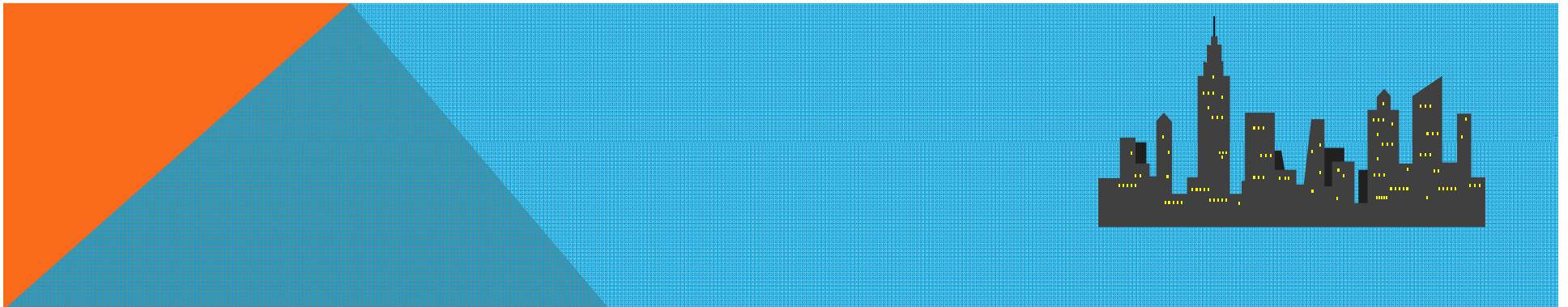
VALUE-ADDED NETWORK (VAN)



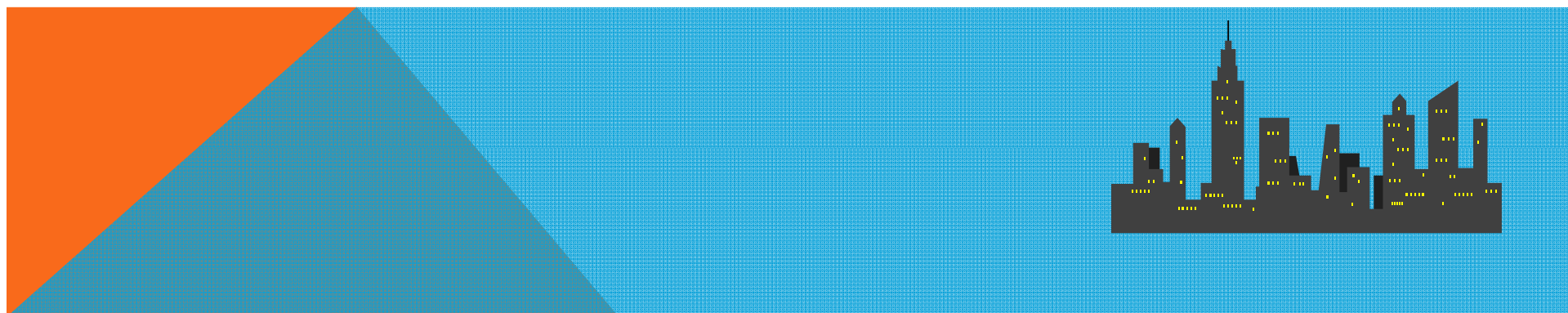
NETWORK SERVICES



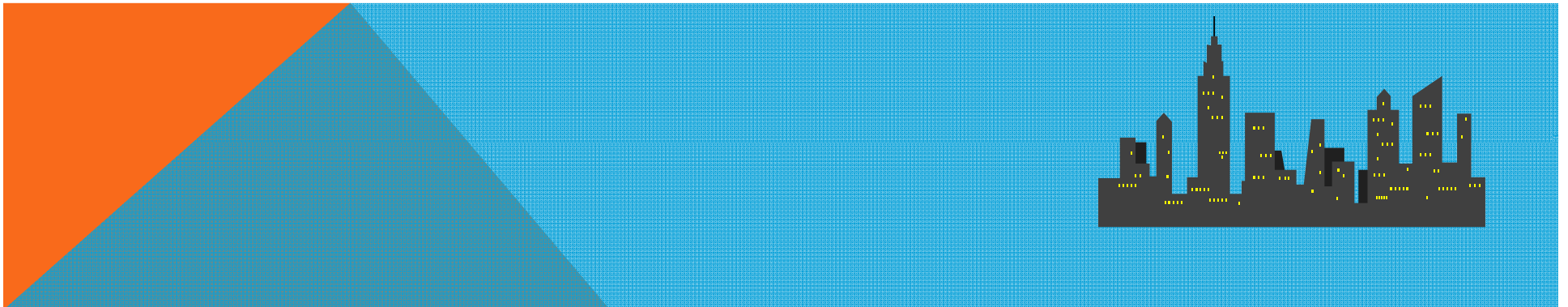
PACKET SWITCHING (X.25)



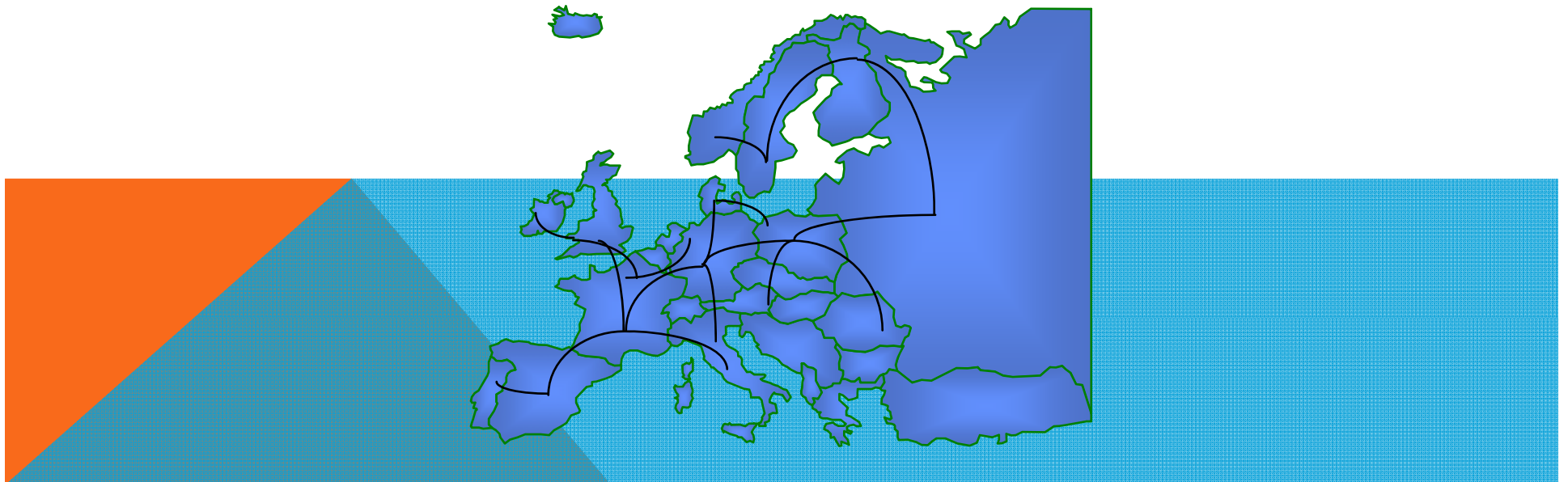
FRAME RELAY



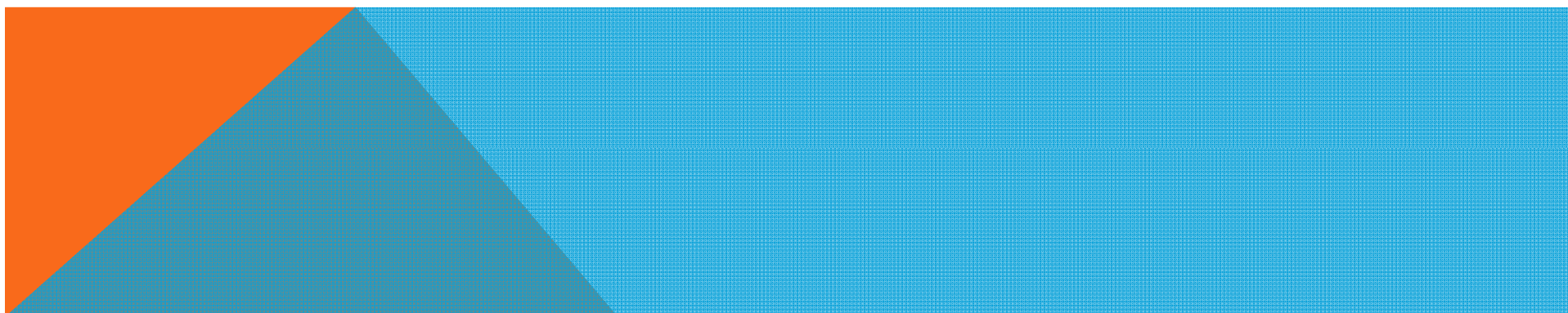
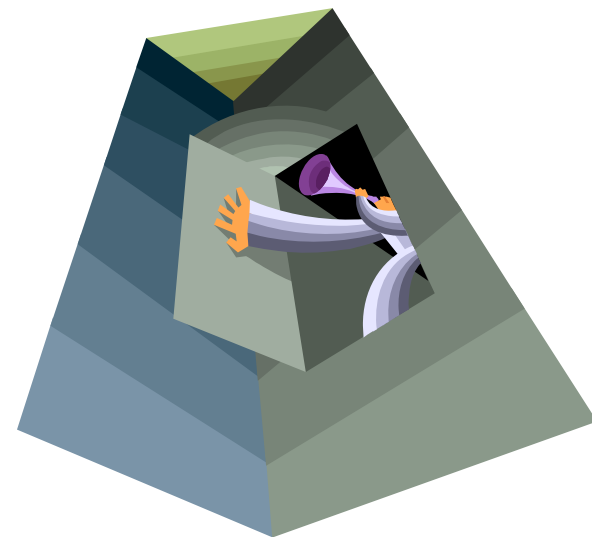
ASYNCHRONOUS TRANSFER MODE (ATM)



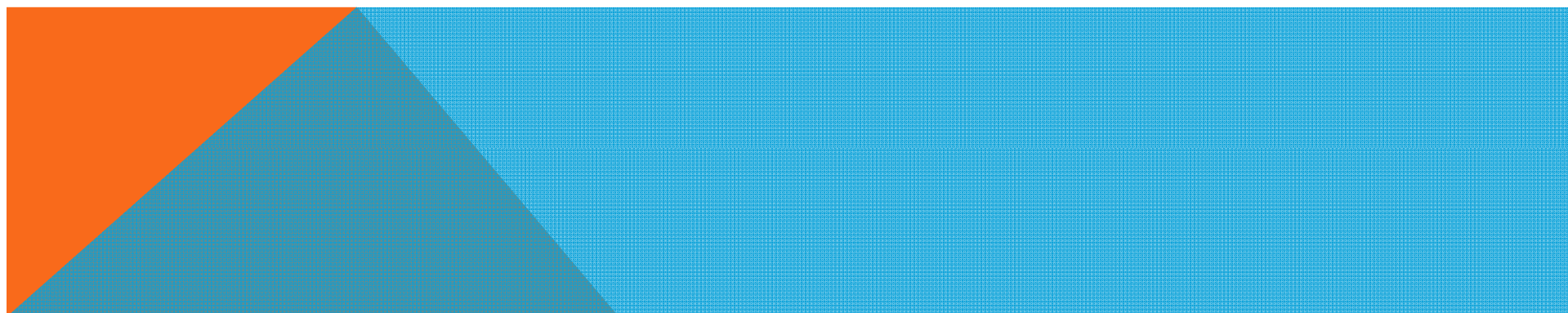
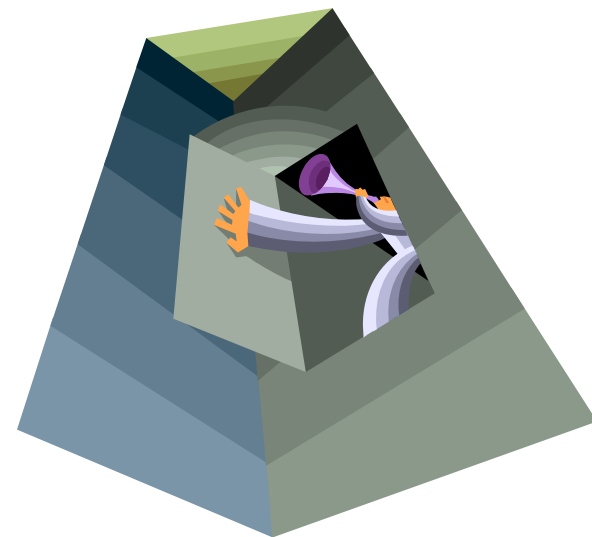
INTEGRATED SERVICES DIGITAL NETWORK (ISDN)



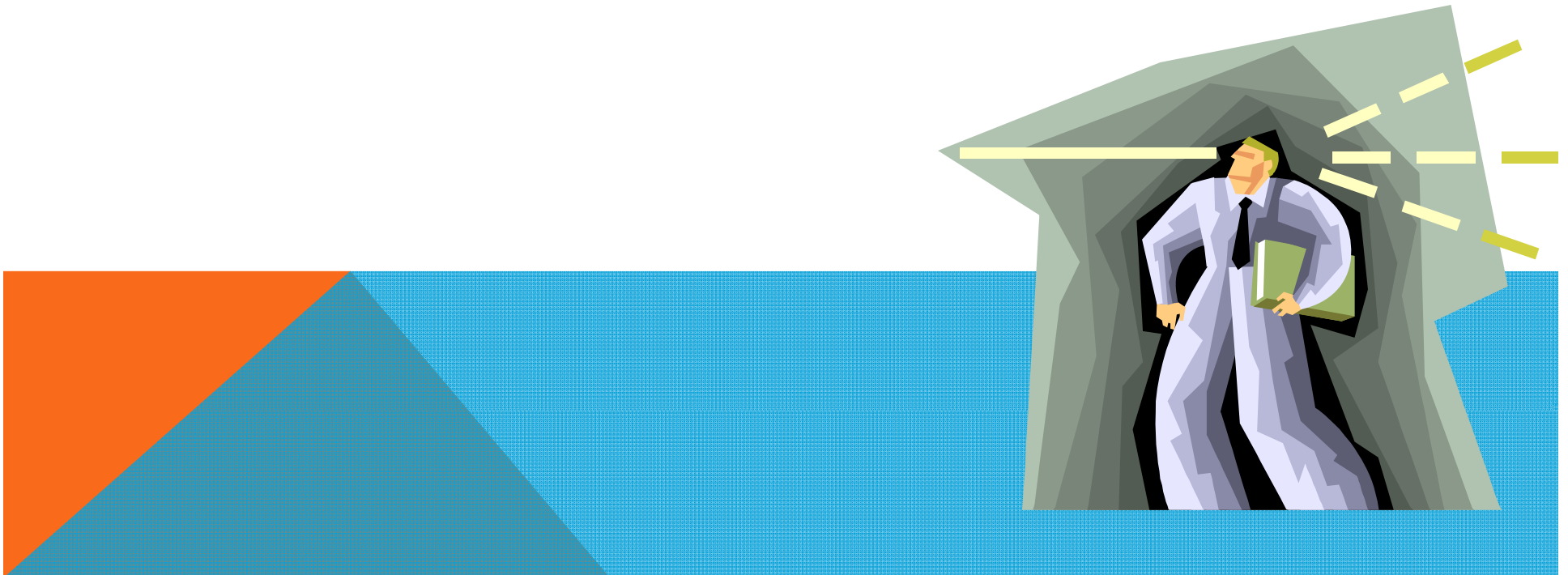
OTHER SERVICES:



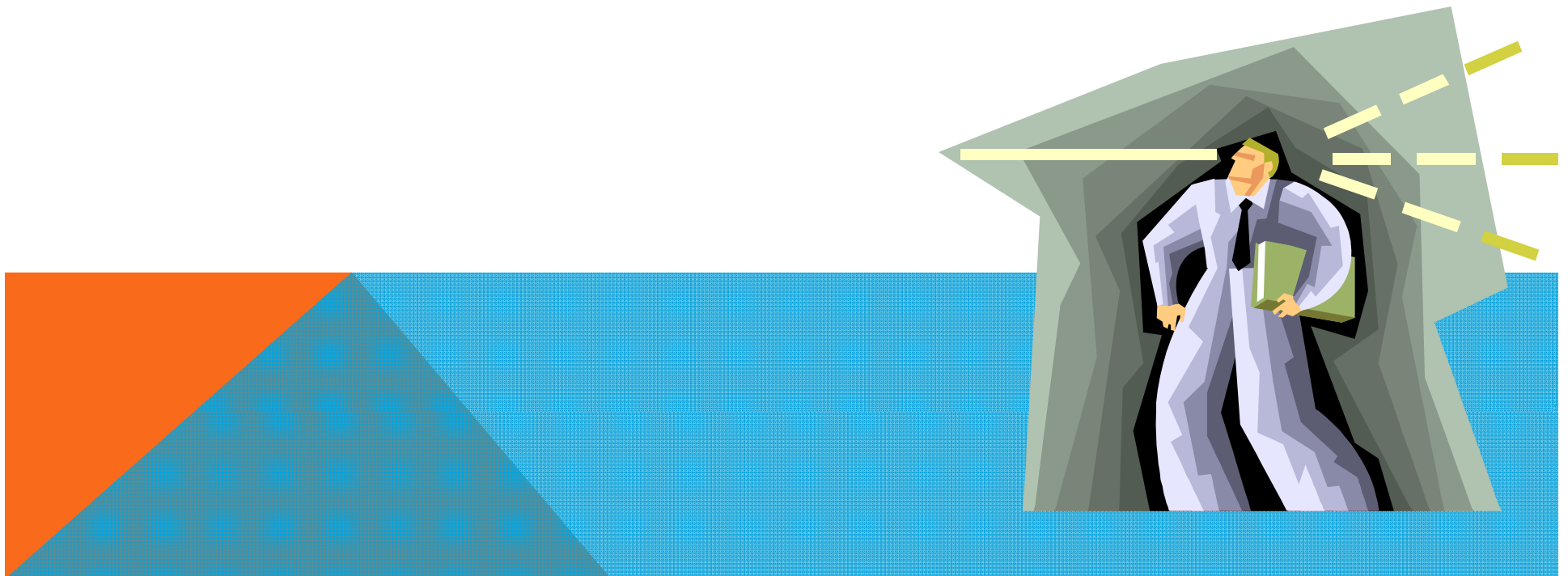
OTHER SERVICES:



E-COMMERCE & E-BUSINESS TECHNOLOGIES



E-COMMERCE & E-BUSINESS TECHNOLOGIES



COMMERCIAL DIGITAL INFORMATION SERVICES

PROVIDER	TYPE OF SERVICE
AMERICA ONLINE	General interest / business information
PRODIGY	General interest / business information
MICROSOFT NETWORK	General interest / business information
DOW JONES NEWS RETRIEVAL	Business / financial information
DIALOG	Business / scientific / technical information
LEXIS	Legal research
NEXIS	News / business information

ELECTRONIC DATA INTERCHANGE (EDI)

