



*Information and Communication
Technology:*

SEDIKIT TENTANG TEKNOLOGI KOMUNIKASI

The **UNIVERSITY** *Technology*



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Model Komunikasi

Shannon and Weaver [1949], simplex mode

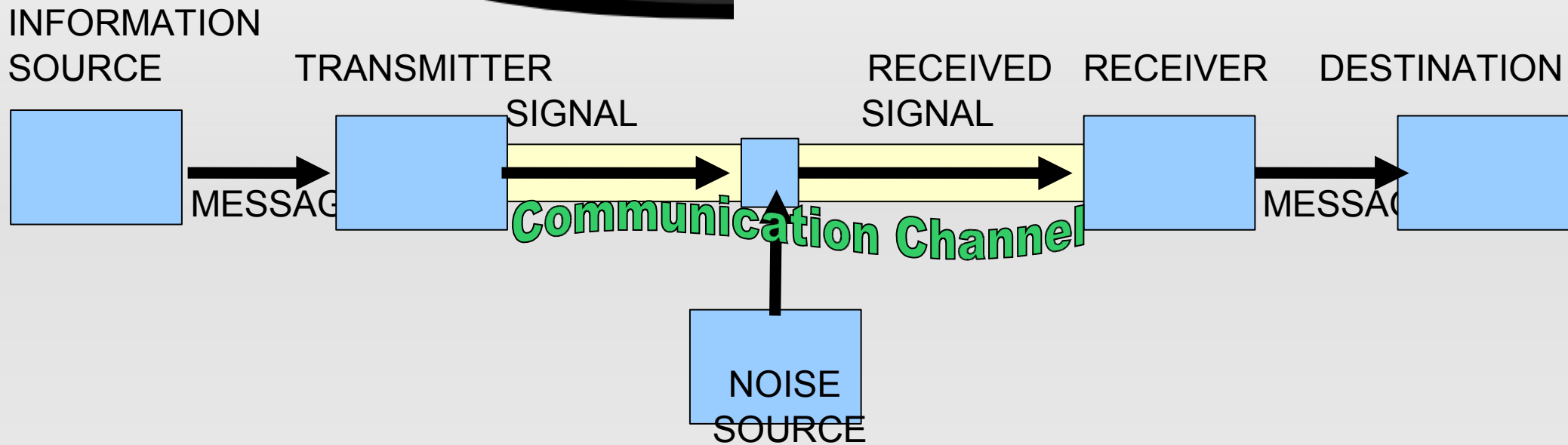


Fig. 1 — Schematic diagram of a general communication system.

Teori Informasi

MODE (atau moda??) Komunikasi

Shannon and Weaver [1949], simplex mode

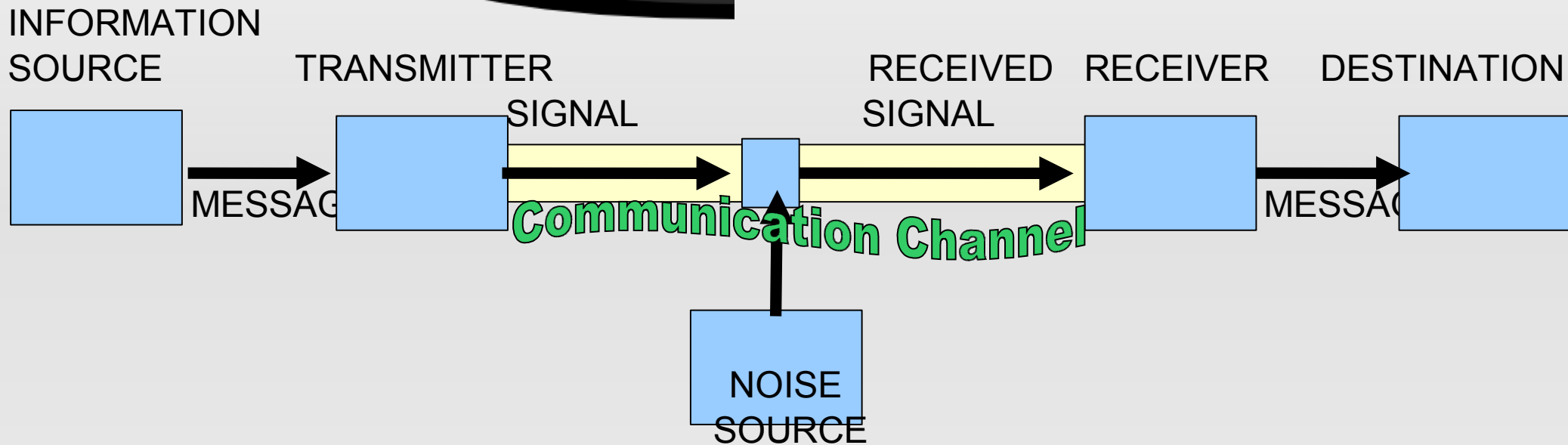
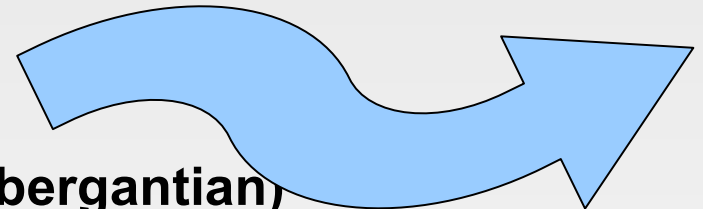


Fig. 1 — Schematic diagram of a general communication system.

mode **DUPLEX**:

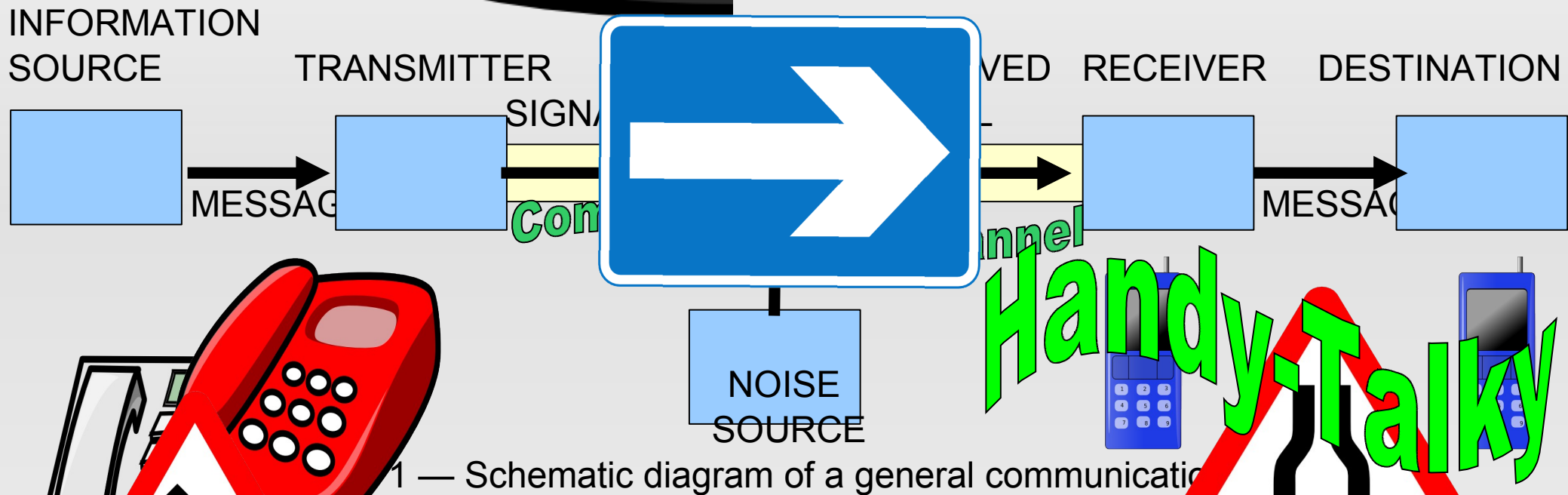
FULL-DUPLEX (dua kali **SIMPLEX**)

HALF-DUPLEX (dua kali **SIMPLEX**, bergantian)



MODE (atau moda??) Komunikasi

Shannon and Weaver [1949], simplex mode



HALF-DUPLEX (dua kali SIMPLEX, bergantian)

FULL-DUPLEX (dua kali SIMPLEX)

SINGLE-SOURCE SINGLE-DESTINATION



MODE (atau moda??) Komunikasi

bukan simplex mode

bukan full-duplex

bukan half-duplex, tapi



MULTI-SOURCE MULTI-DESTINATION

MODE JARINGAN (Network)

on NETWORK



MODE JARINGAN (Network)

Jaringan:

- LOCAL AREA NETWORK (LAN)
- WIDE AREA NETWORK (WAN)
- METROPOLITAN AREA NETWORK (MAN)
- CAMPUS AREA NETWORK (CAN)
- INTRANET
- INTERNET

MULTI-SOURCE MULTI-DESTINATION

on NETWORK

INTERNET

- Organisasi "tanpa bentuk" -----> JARINGAN
- Anggotanya: Komputer + Aksesoris jaringan
- Anggota "permanen" dan "temporer"
- Setiap anggota punya "alamat IP":
 - Versi 4: 000.000.000.000 s/d 255.255.255.255, IP "local" dan "public"
 - Ipv6 (versi 6)

ANGGOTA INTERNET

- Setiap anggota punya fungsi:
 - Pelayan (*server*): mail-server, file-server, web-server, list-server, Domain-Name Server (DNS), dll.....
 - Pengatur lalu-lintas (*router*)
 - "Jembatan" antar jaringan (*bridge*)
 - Terminal, *client*
 - dll.

KOMUNIKASI PAKET DATA

- Antar anggota berkomunikasi dengan PROTOCOL tertentu: TCP/IP
- Komunikasi terjalin dengan saling mengirim dan menerima PAKET DATA
- Setiap PAKET DATA punya ISI dan "PEMBUNGKUS", ada ALAMAT PENGIRIM dan ALAMAT PENERIMA





MARI

KITA "LIHAT"

Internet

