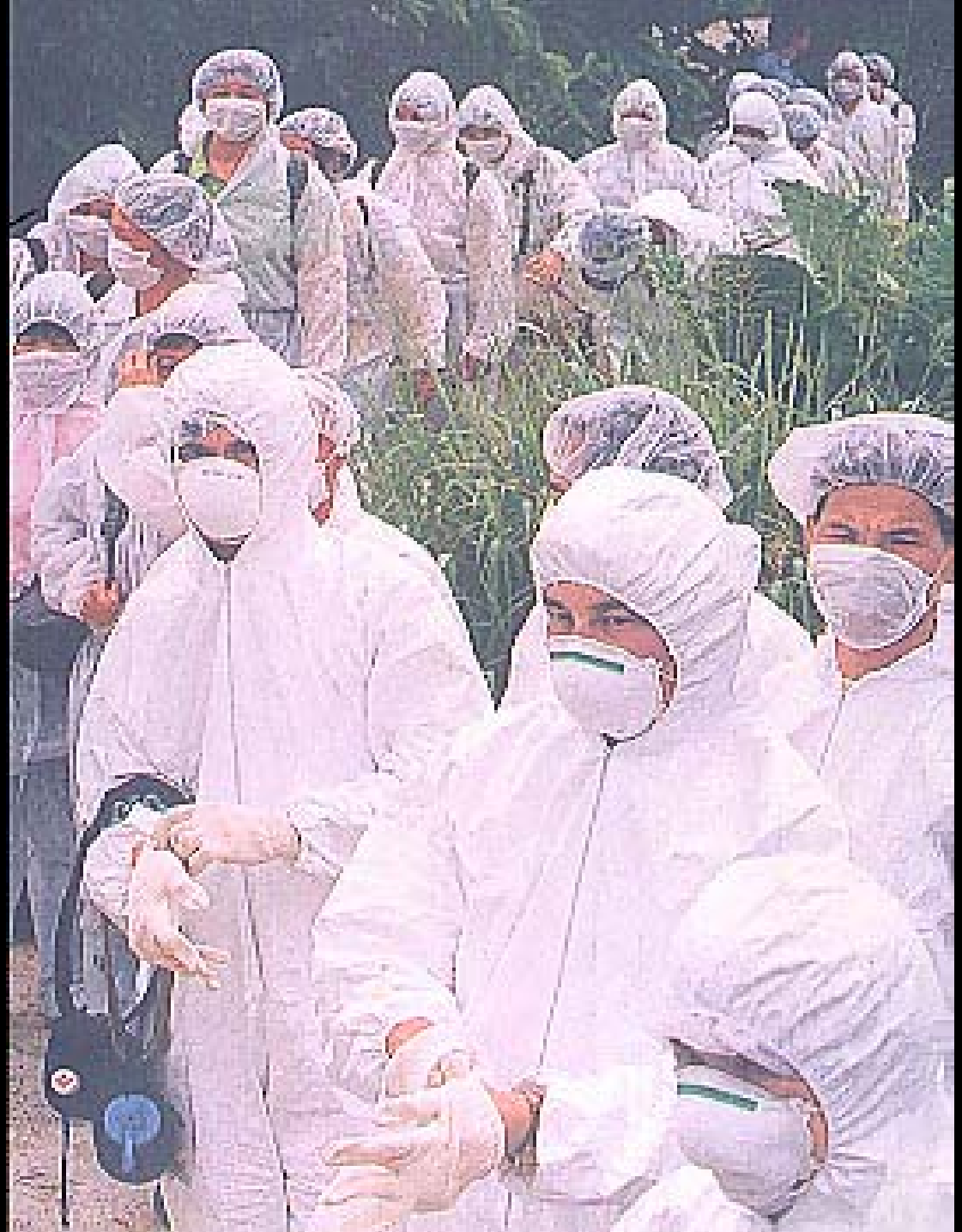


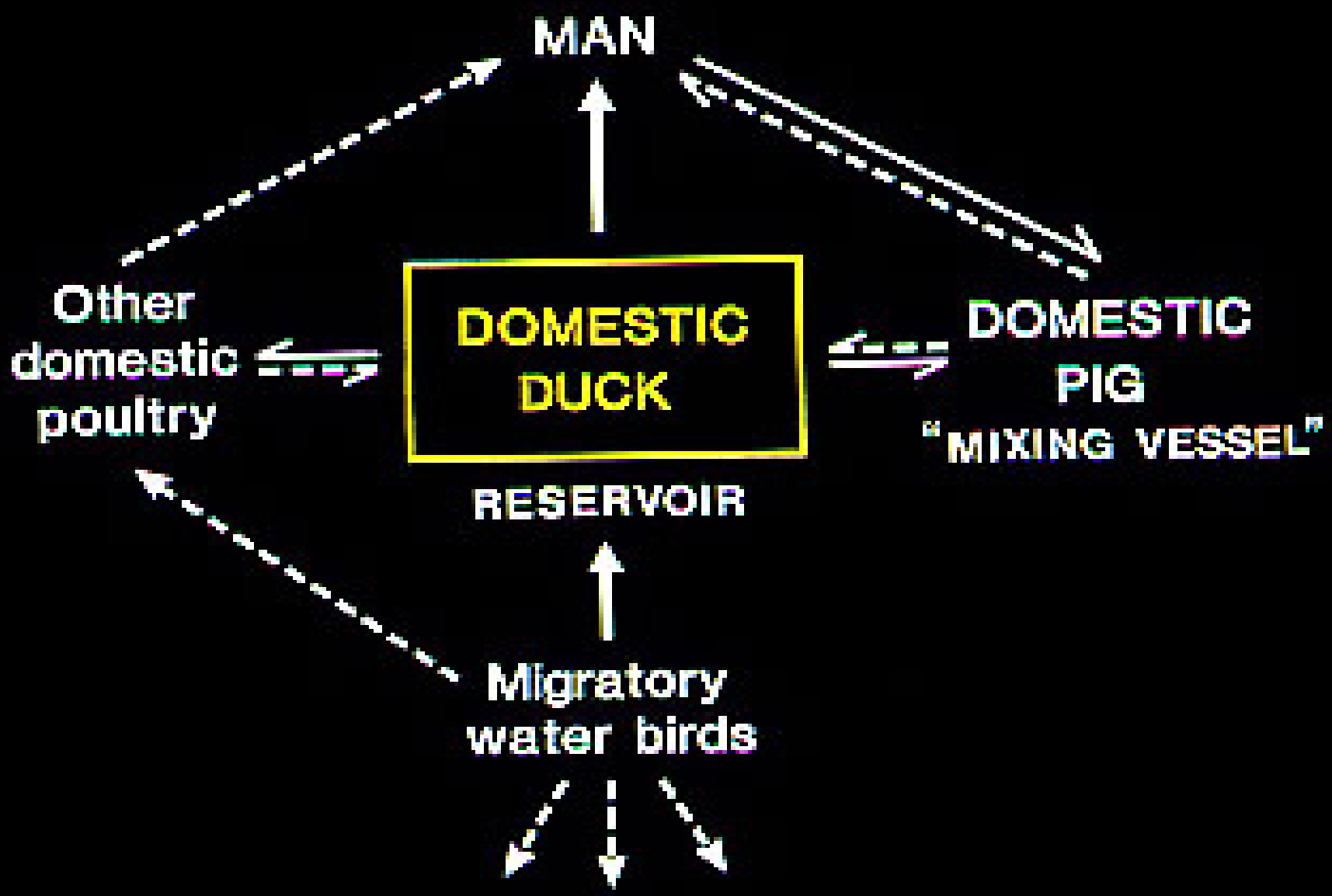
SOUTHERN CHINA

AN

INFLUENZA EPICENTRE

PANDEMIC INFLUENZA

NON-ERADICABLE ZOONOSIS


MAN
Other domestic poultry
DOMESTIC DUCK
DOMESTIC PIG
"MIXING VESSEL"
RESERVOIR
Migratory water birds

INFLUENZA VIRUS - FUNDAMENTAL FEATURES

R MADELEY

- SEGMENTED RNA →
  GENETIC REASSORTMENT
- SINGLE STRANDED →
  GENETIC INSTABILITY
  RNA -VE SENSE

INFLUENZA VIRUS HOSTS
EAST ASIA

AQUATIC BIRDS

SEABIRDS | SHOREBIRDS | WATER FOWL | BIRDS OF PREY | MISCELLANEOUS BIRDS

DOMESTICATION — **DUCK GOOSE** — MAJOR POULTRY

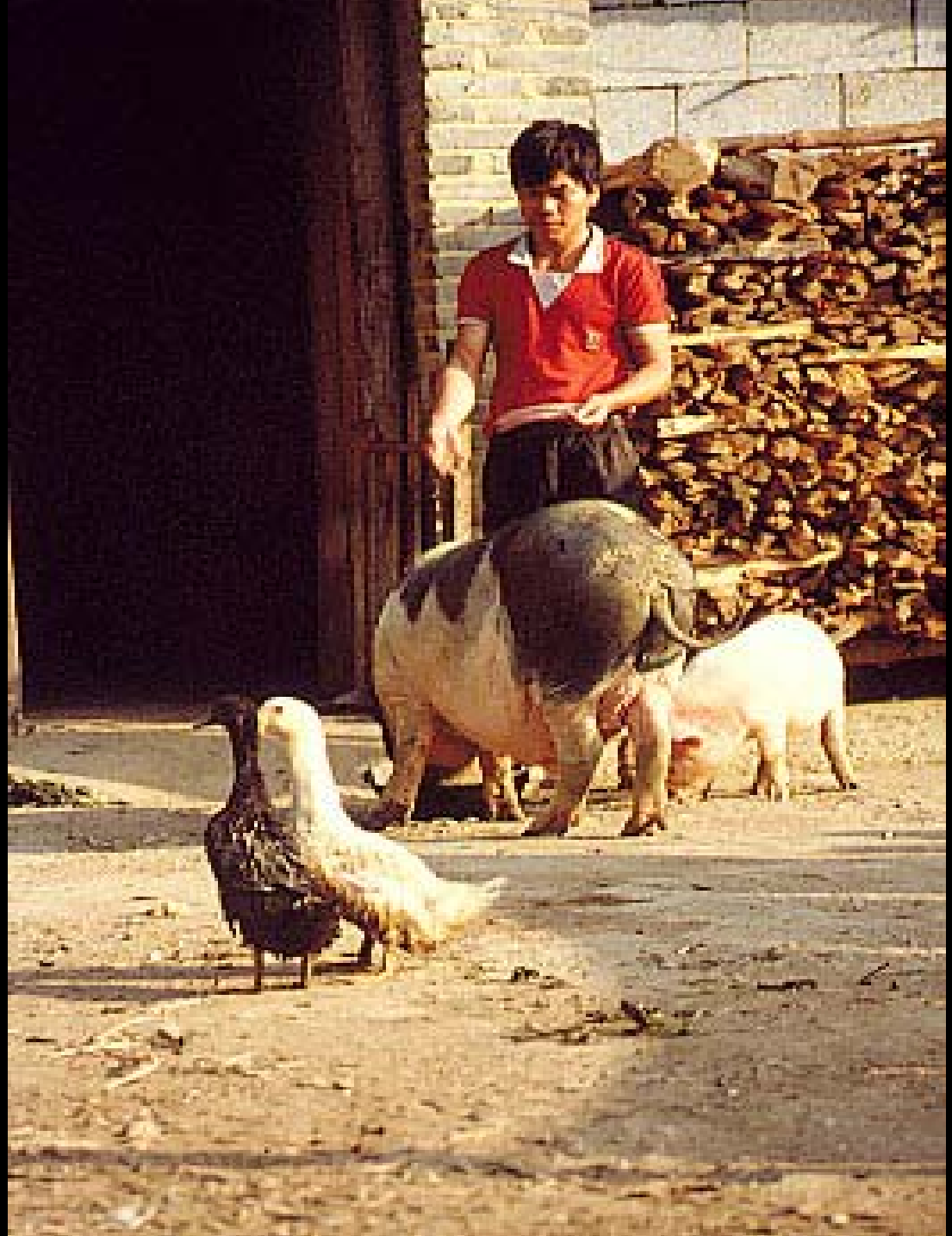
INFLUENZA FARMYARD

GENE POOL OF SOUTHERN CHINA "EPICENTRE"

MAJOR POULTRY — CHICKEN ← PIGEON, QUAIL, PHEASANT, CHUKAR ETC. — MINOR POULTRY

DOMESTICATION

TERRESTRIAL BIRDS



INFLUENZA VIRUS HOSTS EAST ASIA

CONTROL

AQUATIC BIRDS

SEABIRDS | SHOREBIRDS | WATER FOWL | BIRDS OF PREY | MISCELLANEOUS BIRDS

No

DOMESTICATION

DUCK
GOOSE

MAJOR POULTRY

No

INFLUENZA FARMYARD

GENE POOL OF SOUTHERN CHINA "EPICENTRE"

POSSIBLE
SURVEILLANCE
SLAUGHTER

MAJOR POULTRY

CHICKEN

PIGEON, QUAIL, PHEASANT, CHUKAR ETC

MINOR POULTRY

DOMESTICATION

POSSIBLE
SURVEILLANCE
SLAUGHTER
VACCINATION

TERRESTRIAL BIRDS

GENERATION OF A FULL-BLOODED PANDEMIC INFLUENZA VIRUS

REASSORTMENT

AVIAN INFLUENZA VIURS

\+ +

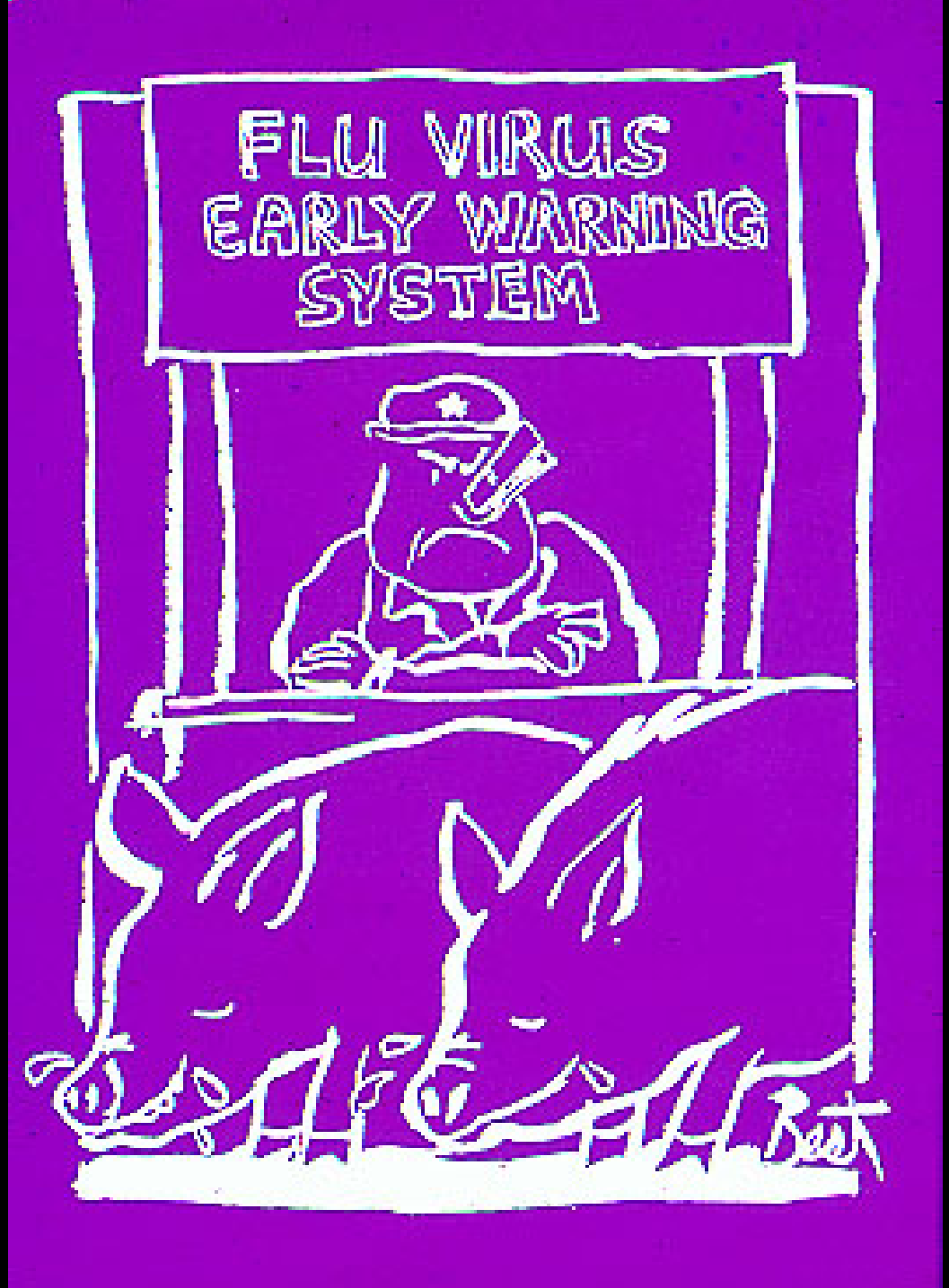
HUMAN INFLUENZA VIRUS

HOST

MORE LIKELY

LESS LIKELY

LESS LIKELY


FLU VIRUS
EARLY WARNING
SYSTEM