# Pass 1 - Measurement:
## Data Recording

**Streaming Service**

**Network Emulator**

QoS Model

**Measurement Host**

**Transmission Trace Recording**

transmission data

$t_0$  $t_1$  $t_2$  $t_3$  $t_4$  time

**Video Frame Data Extraction**

video data

I  P  B  P  B  I

$t_0$  $t_1$  $t_2$  $t_3$  $t_4$  $t_5$  time
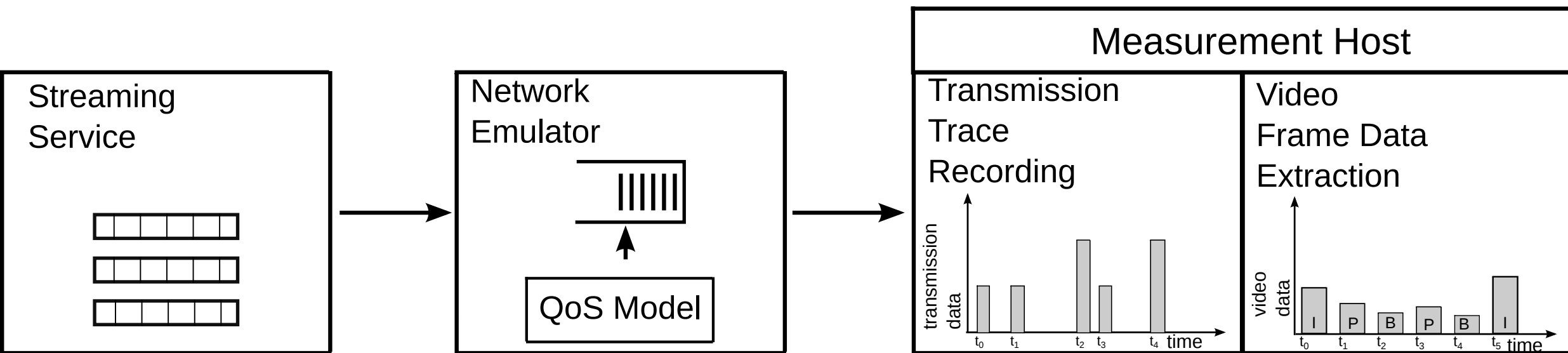
# Pass 2 - Emulation:
## Model Based Data Evaluation

**Statistical Analysis**

buffer fill level

time

**Playback Emulation**

Playback Strategy