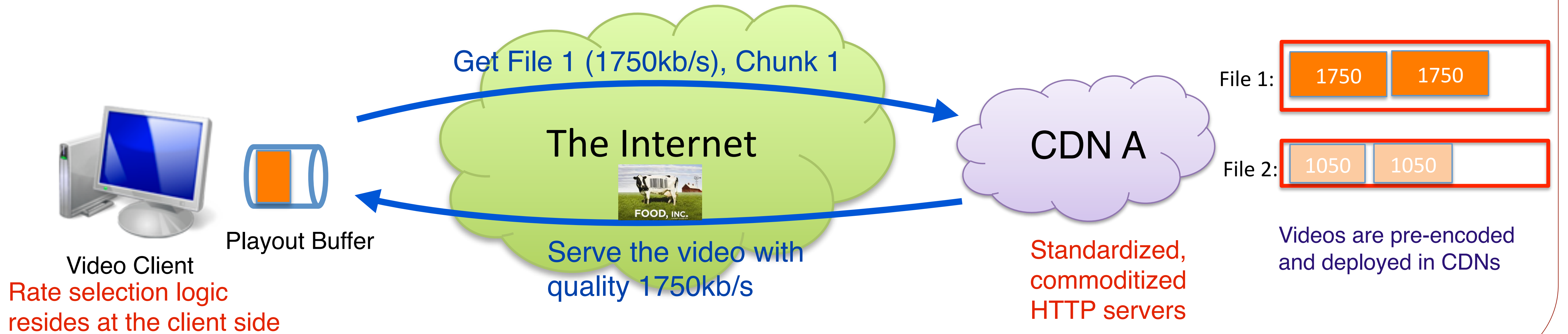


Downton Abbey without the Hiccups: Tales from Netflix

Te-Yuan Huang, Nick McKeown, Ramesh Johari

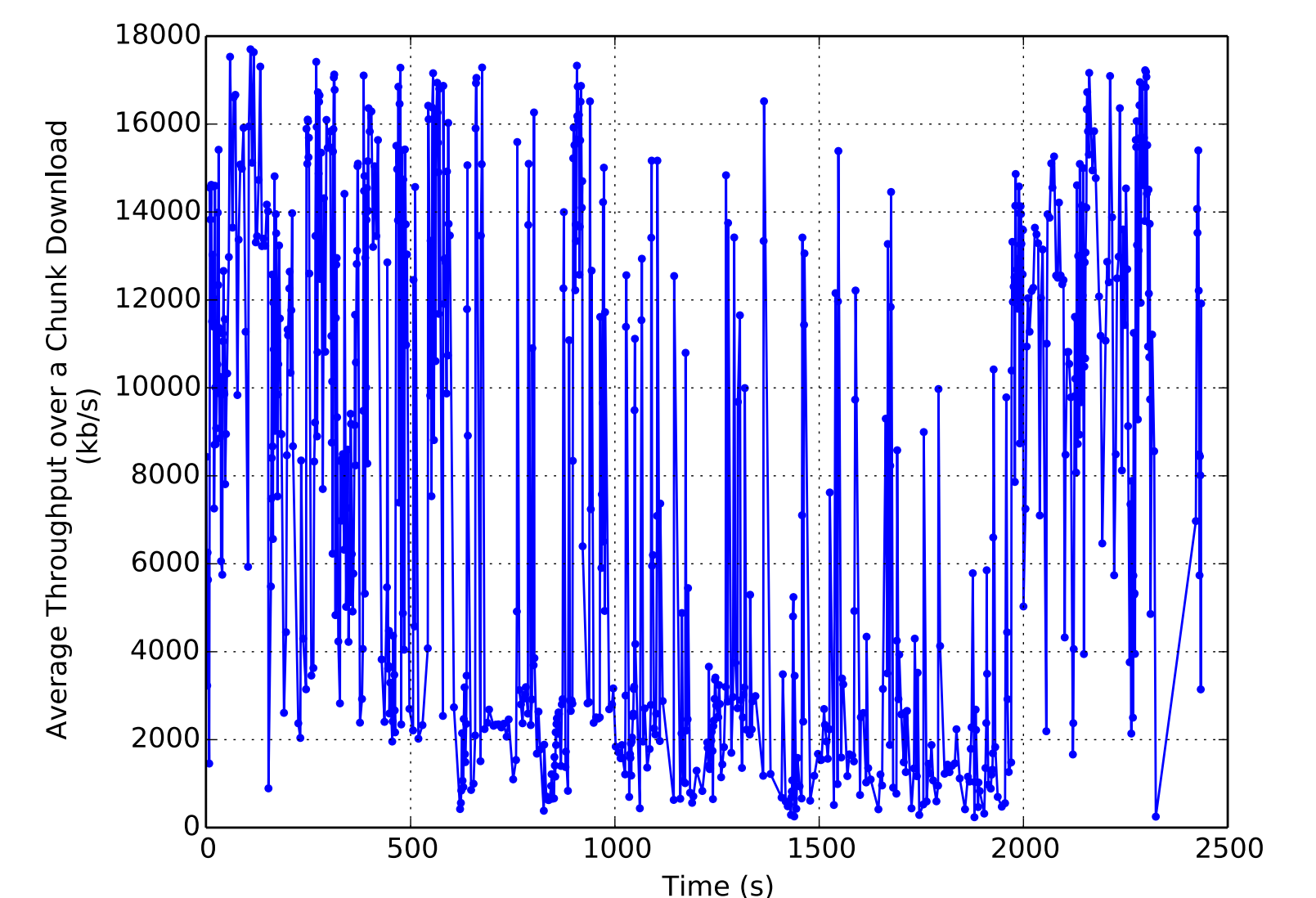
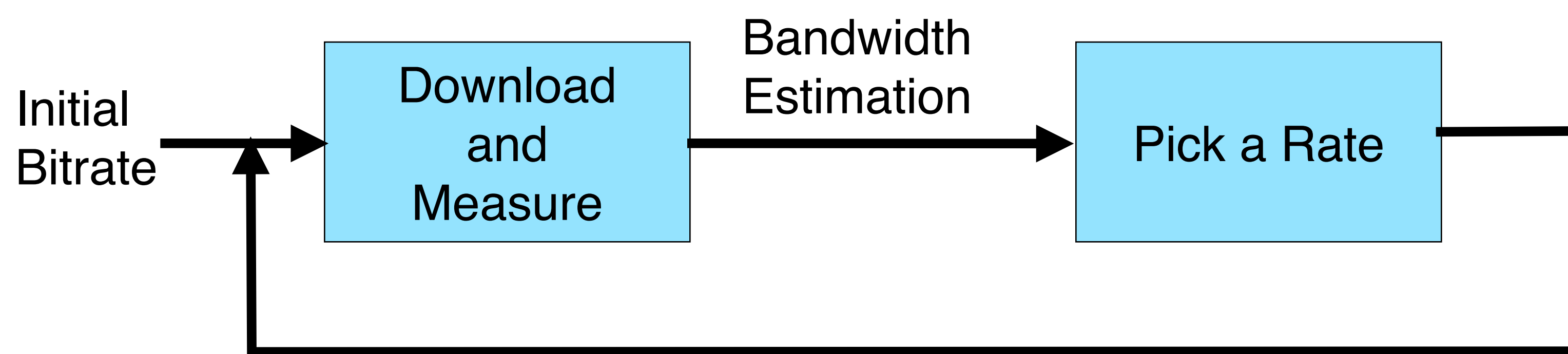
HTTP-based Video Streaming



Two Goals

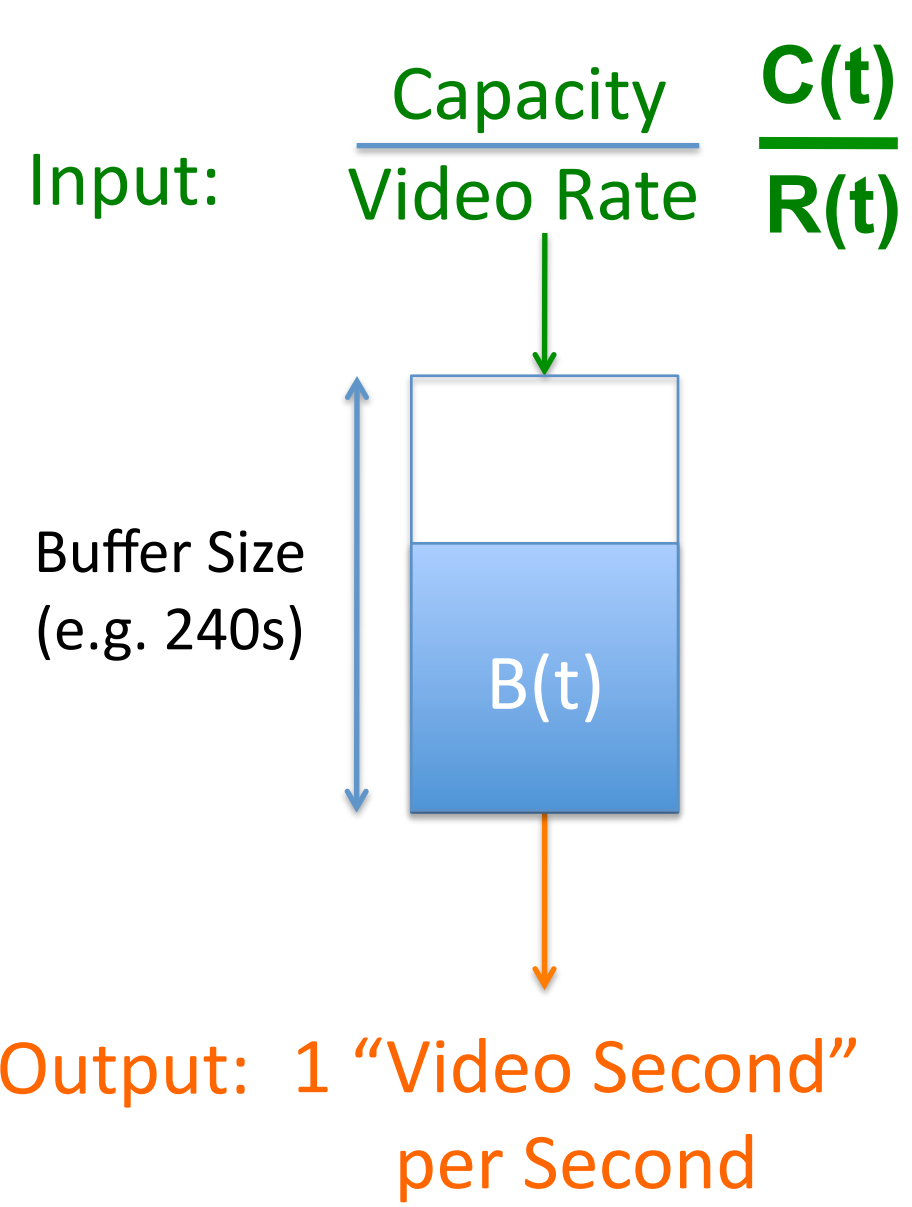
- (1) Avoid Unnecessary Rebuffers
- (2) Maximize Video Rate

Current Practice



Traffic on Internet

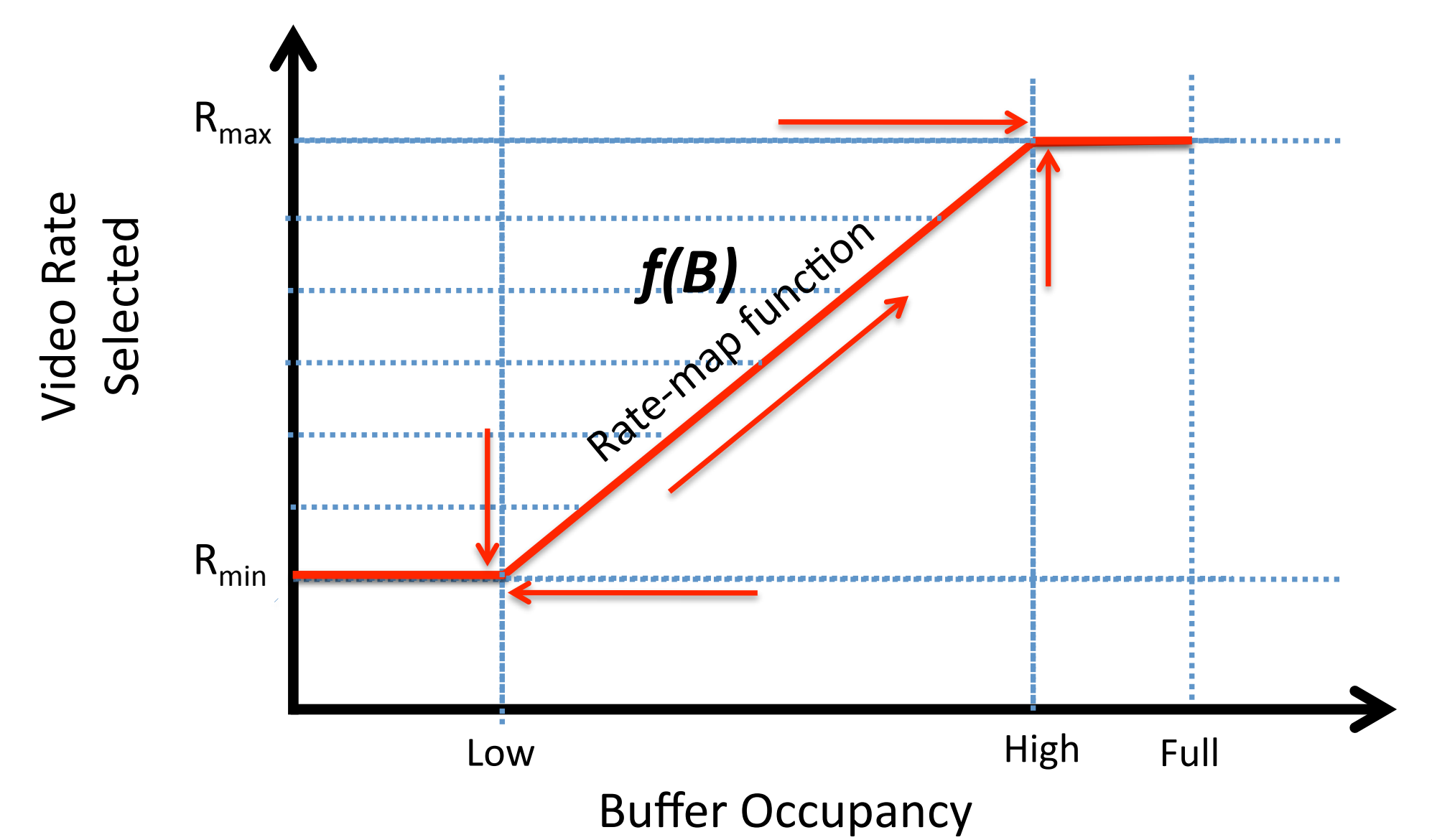
Solution: Focus on the Playback Buffer!



$C(t) > R(t)$: Buffer is increased
(Video rate is not maximized)

$R(t) > C(t)$: Buffer is decreased
(Unnecessary rebuffers)

Buffer is the primary state variable!



Netflix Deployment

