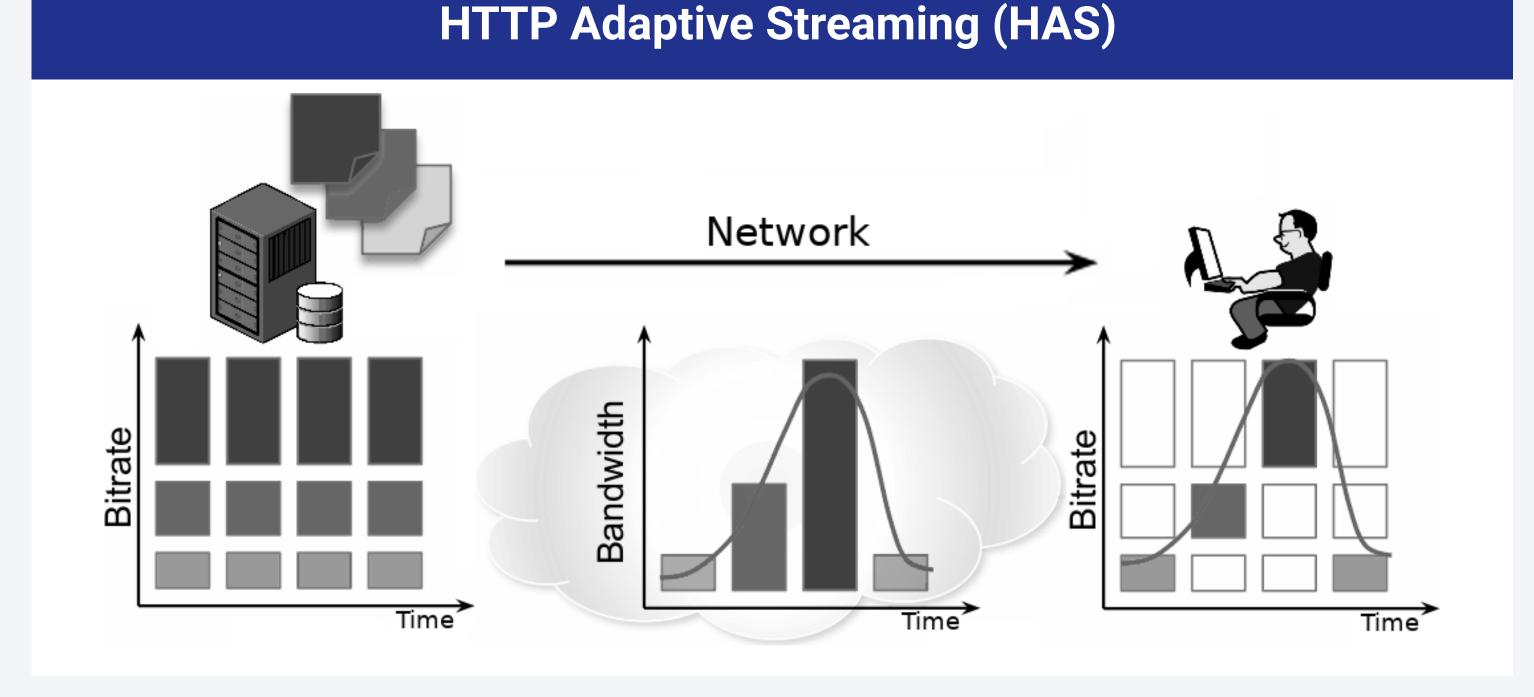
PRIVA-STREAM: Private Collaborative Streaming

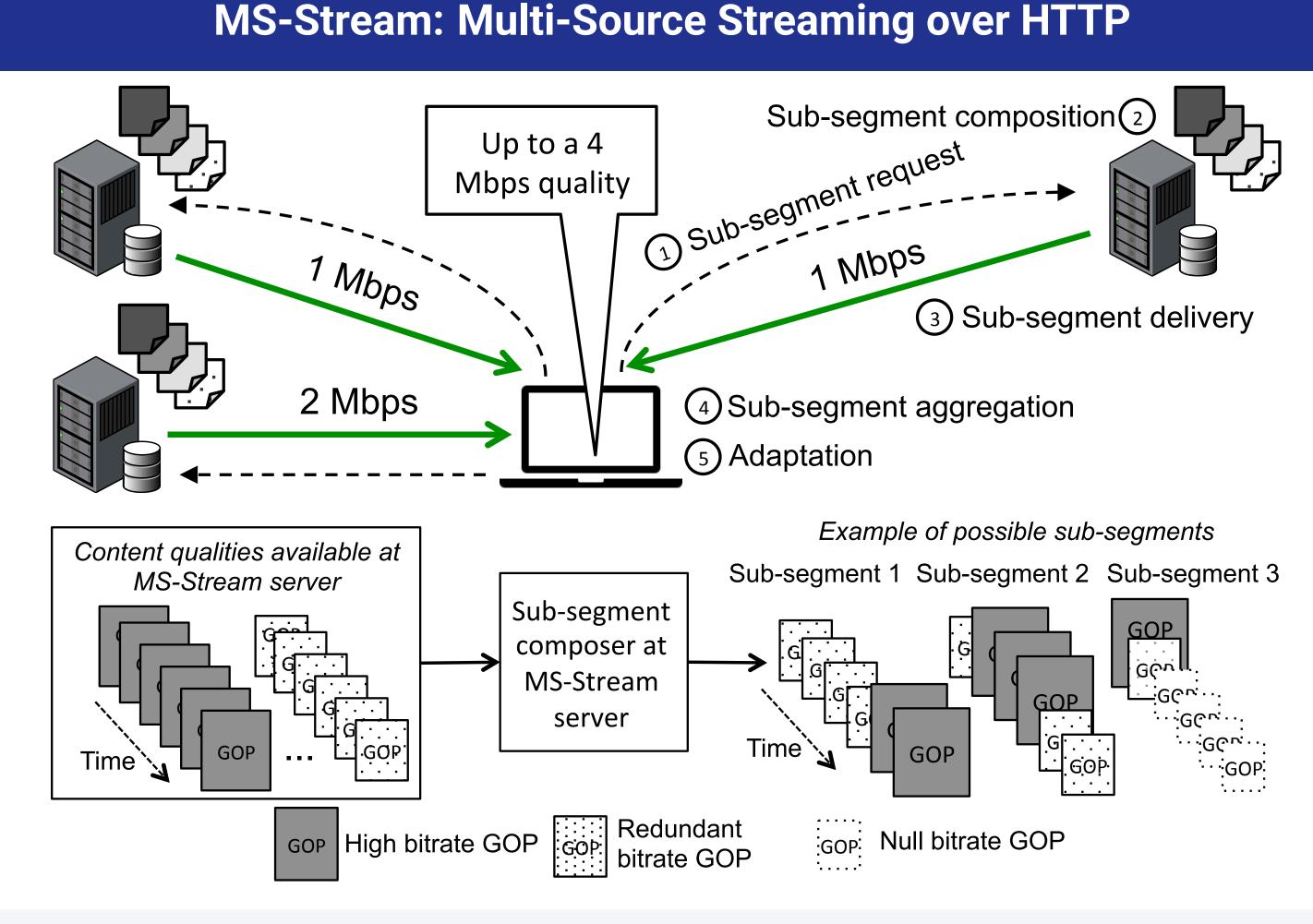
Simon Da Silva - Daniel Negru, Laurent Reveillere PROGRESS - Univ. Bordeaux, LaBRI, France

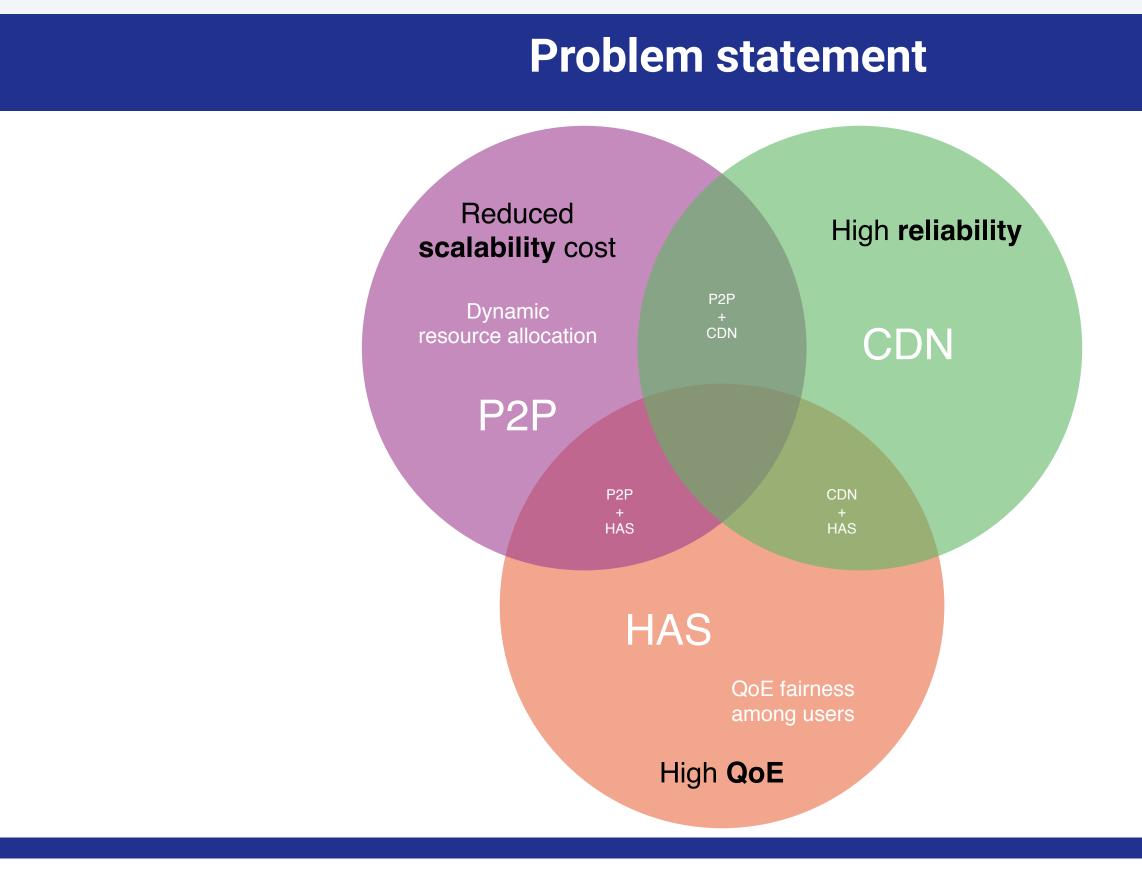


Video content consumption 24% CAGR 2016-2021 300 250 200 Exabytes per month 150 100 2016 2017 2018 2019 2020 2021 Internet Video (51%, 67.4%)

Content Delivery Networks (CDN) Content Delivery Network



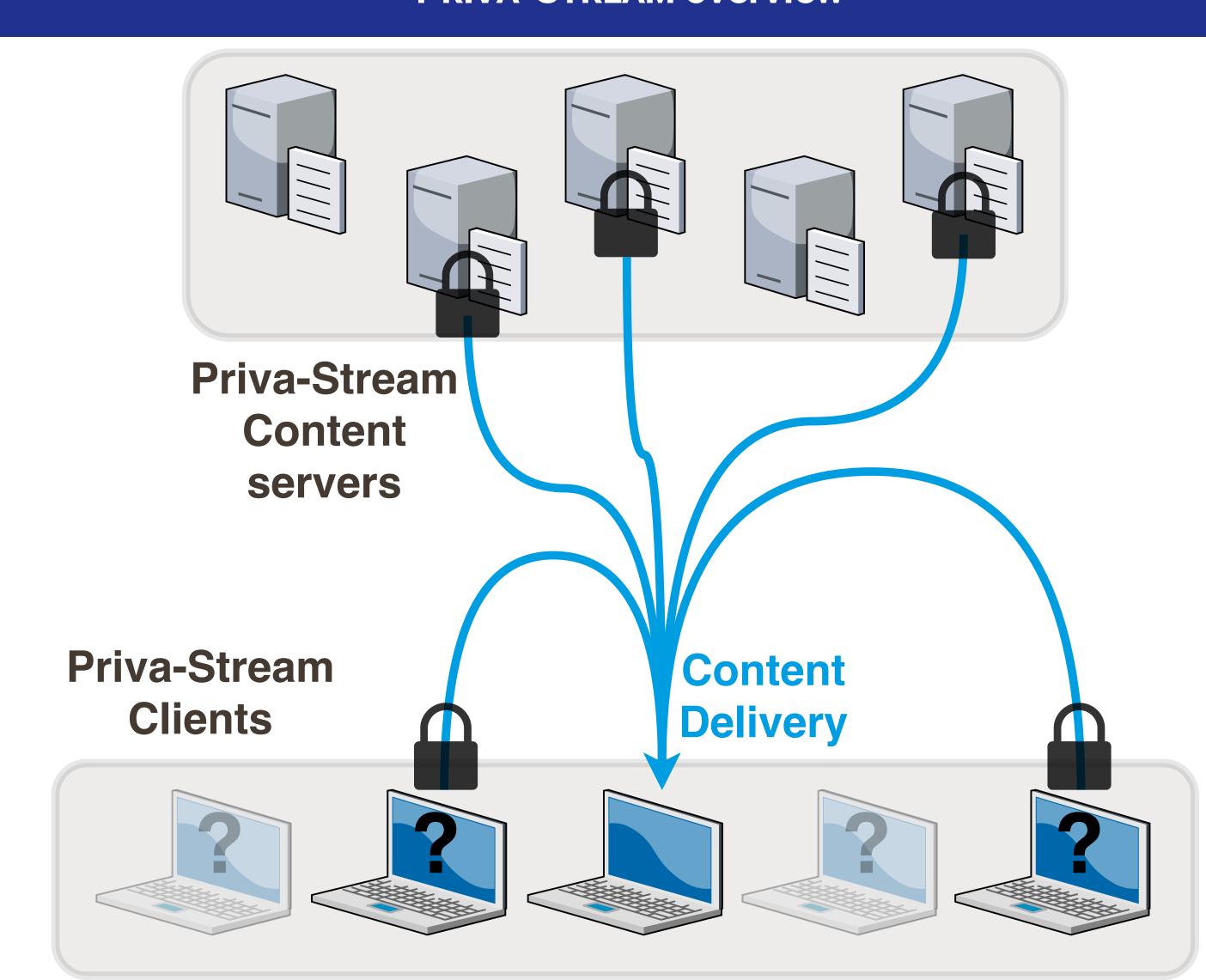




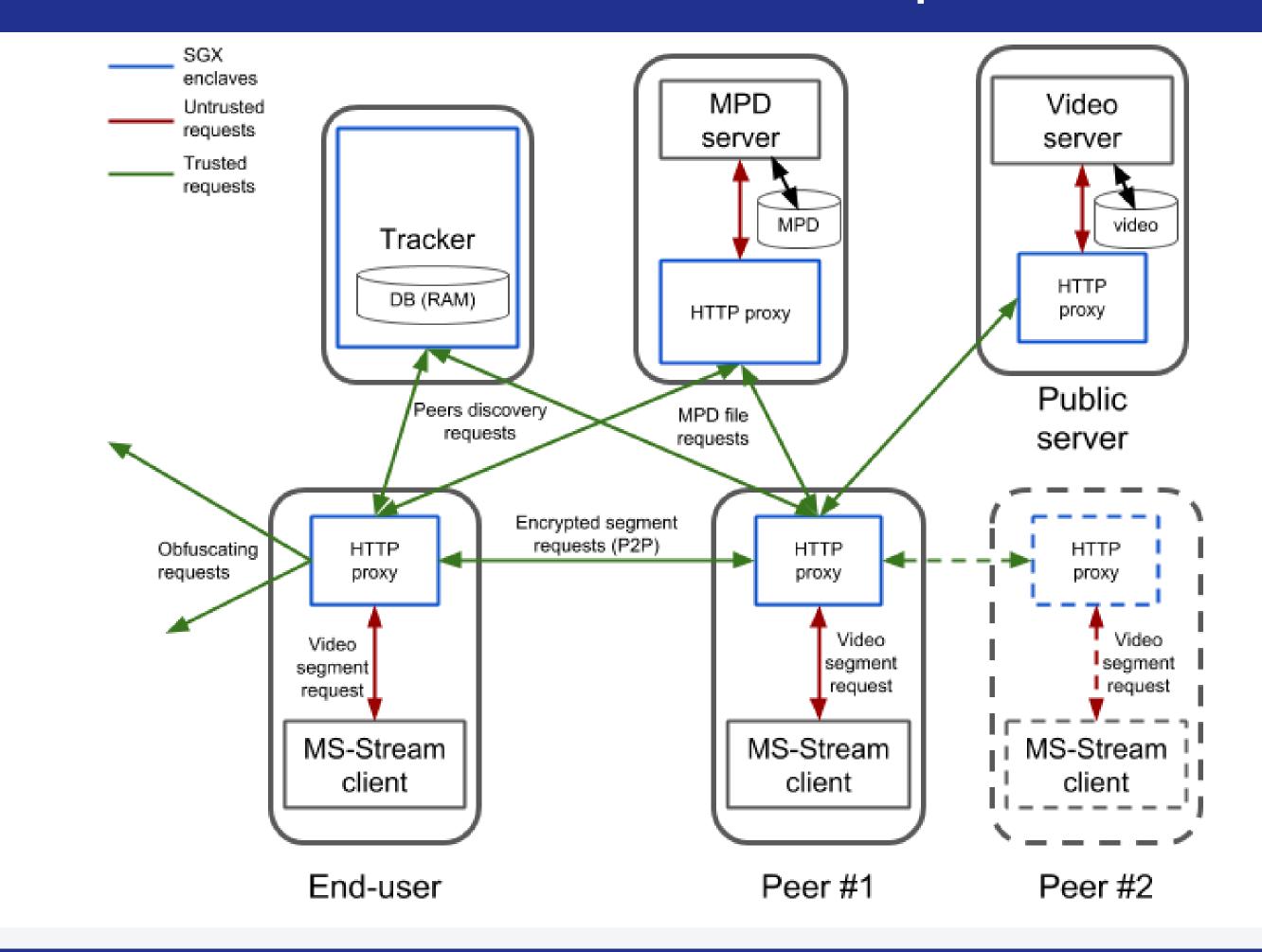
PRIVA-STREAM idea

- Reliability, QoE and scalability
 MS-Stream: Multiple-Source adaptive streaming over HTTP
- Incentive to contribute Rewarding: contributing users get a higher quality
- End-users privacy TEE (SGX): encryption, NAT and anonymity

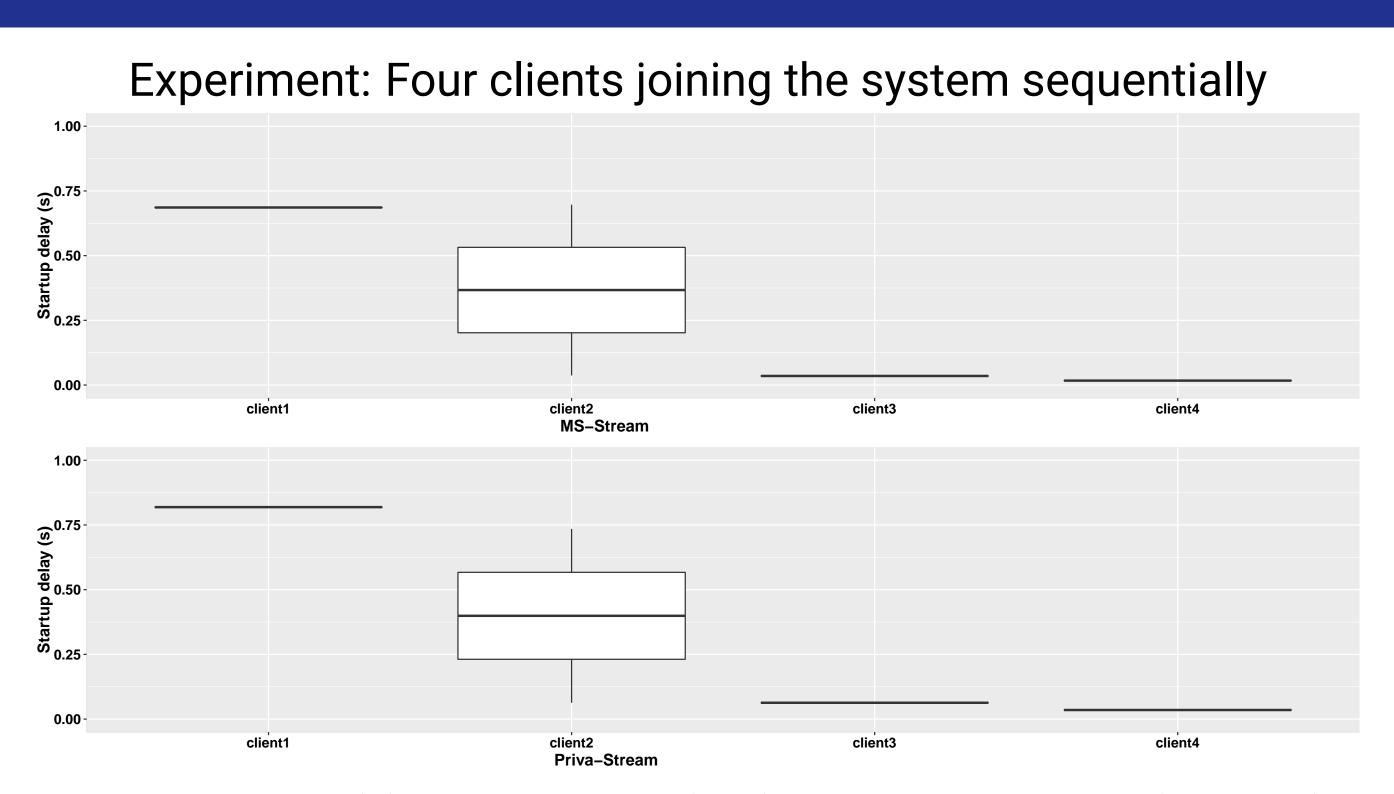
PRIVA-STREAM overview



PRIVA-STREAM technical description



PRIVA-STREAM early results



Startup delay (s) - MS-Stream (top) vs Priva-Stream (bottom)



Thursday April 4, 2019

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