PRIVA-STREAM: Private Collaborative Streaming

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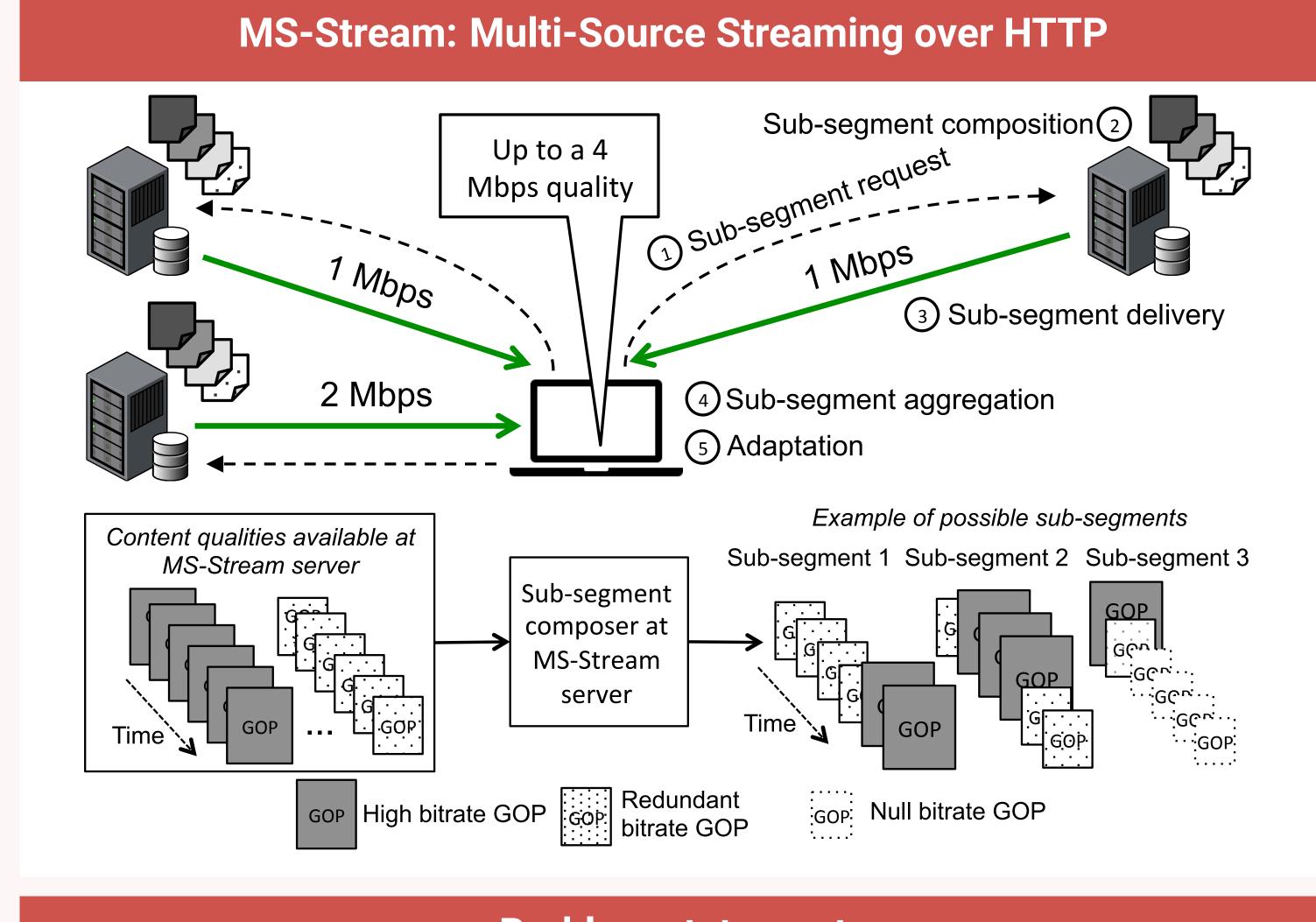


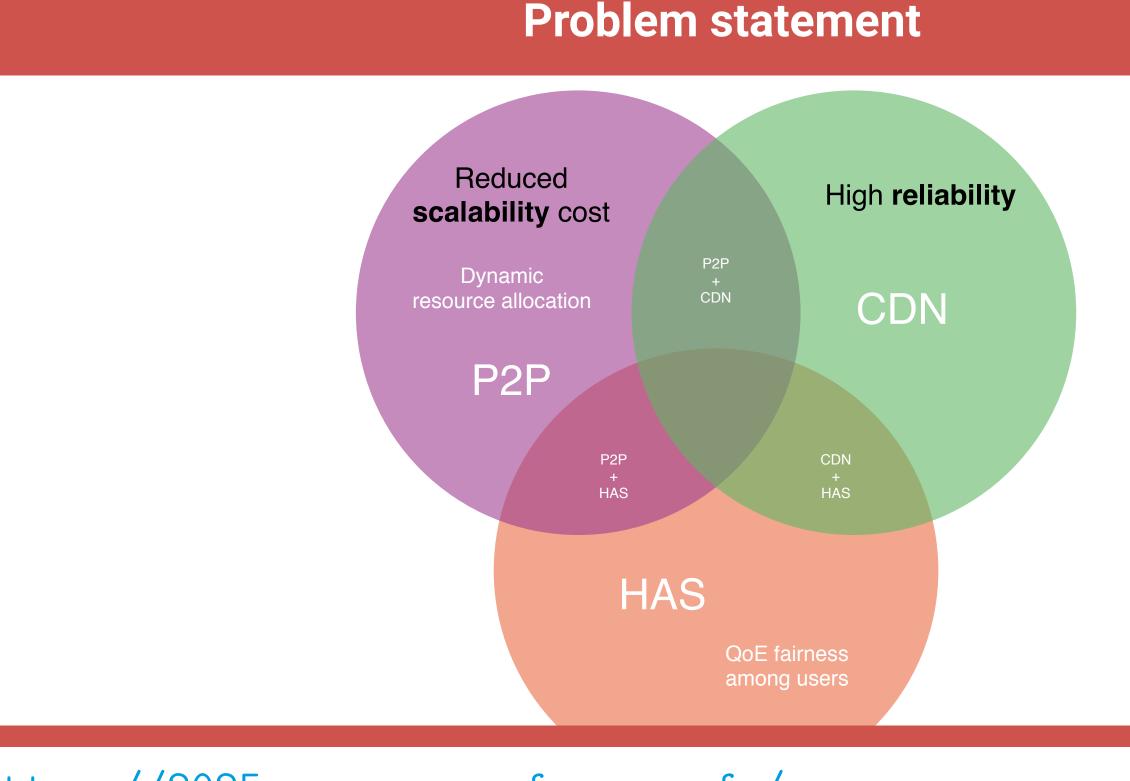
24% CAGR 2016-2021 Secondary Cagning (1%, 4%) Exabytes per month 150 100 2016 2017 2018 2019 2020 2021 Caming (1%, 4%) File Sharing (8%, 3%) Web/Data (18%, 11%) IP VOD (22%, 14.5%) Internet Video (51%, 67.4%)

Content Delivery Networks (CDN) Internet Video (51%, 67.4%) Content Delivery Networks (CDN)

Network Birtate Bandwidth Time

HTTP Adaptive Streaming (HAS)

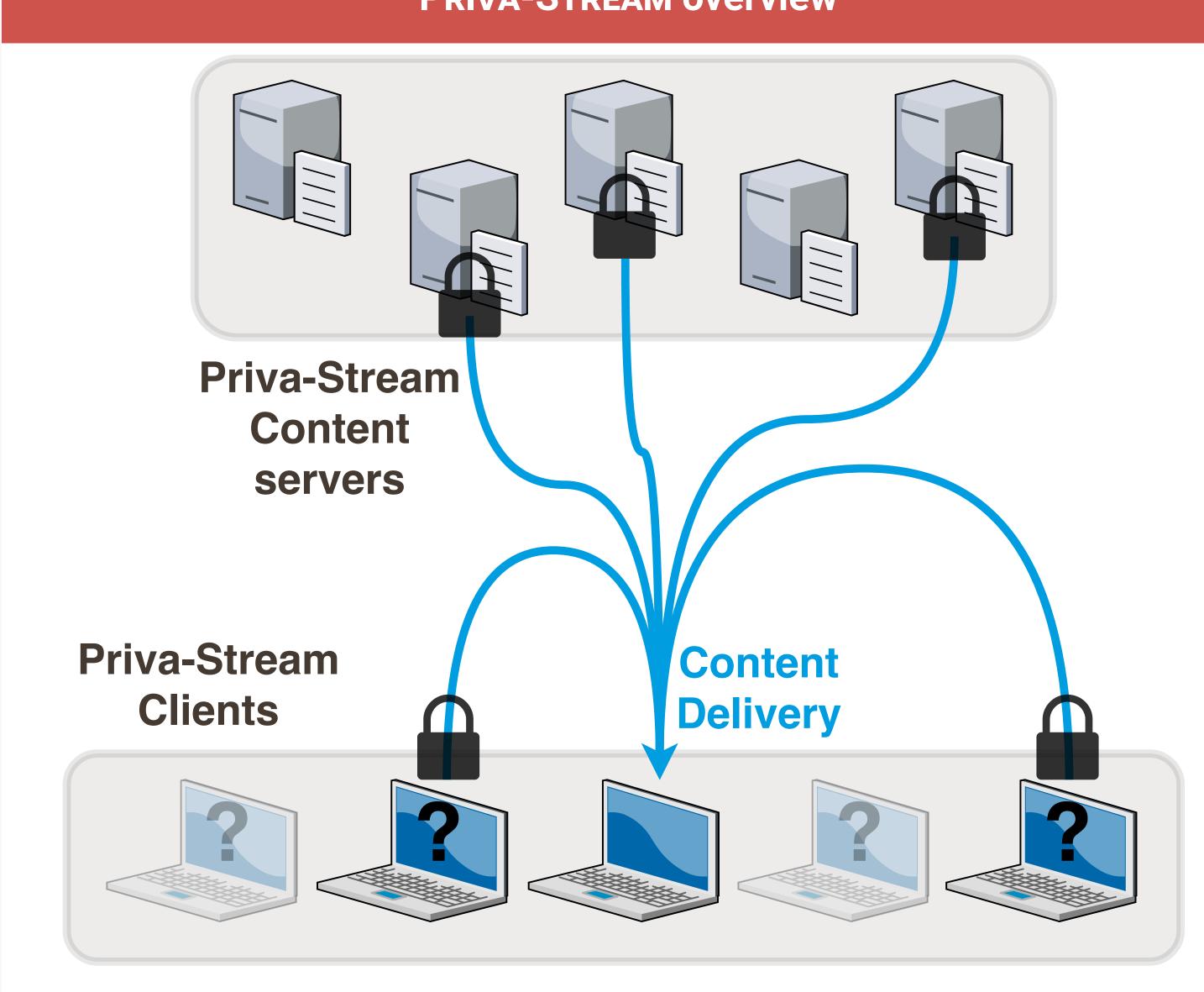




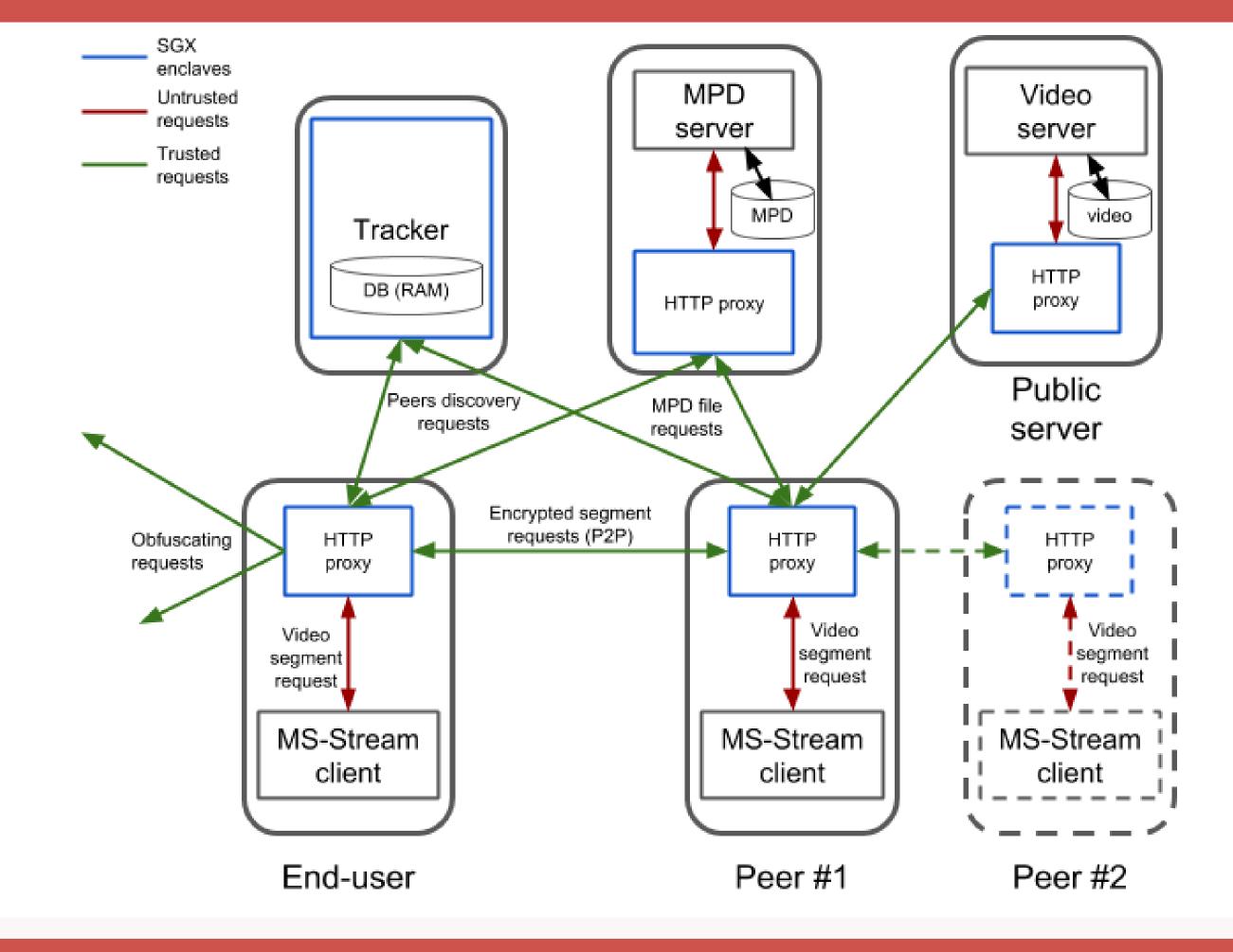
PRIVA-STREAM idea

- 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

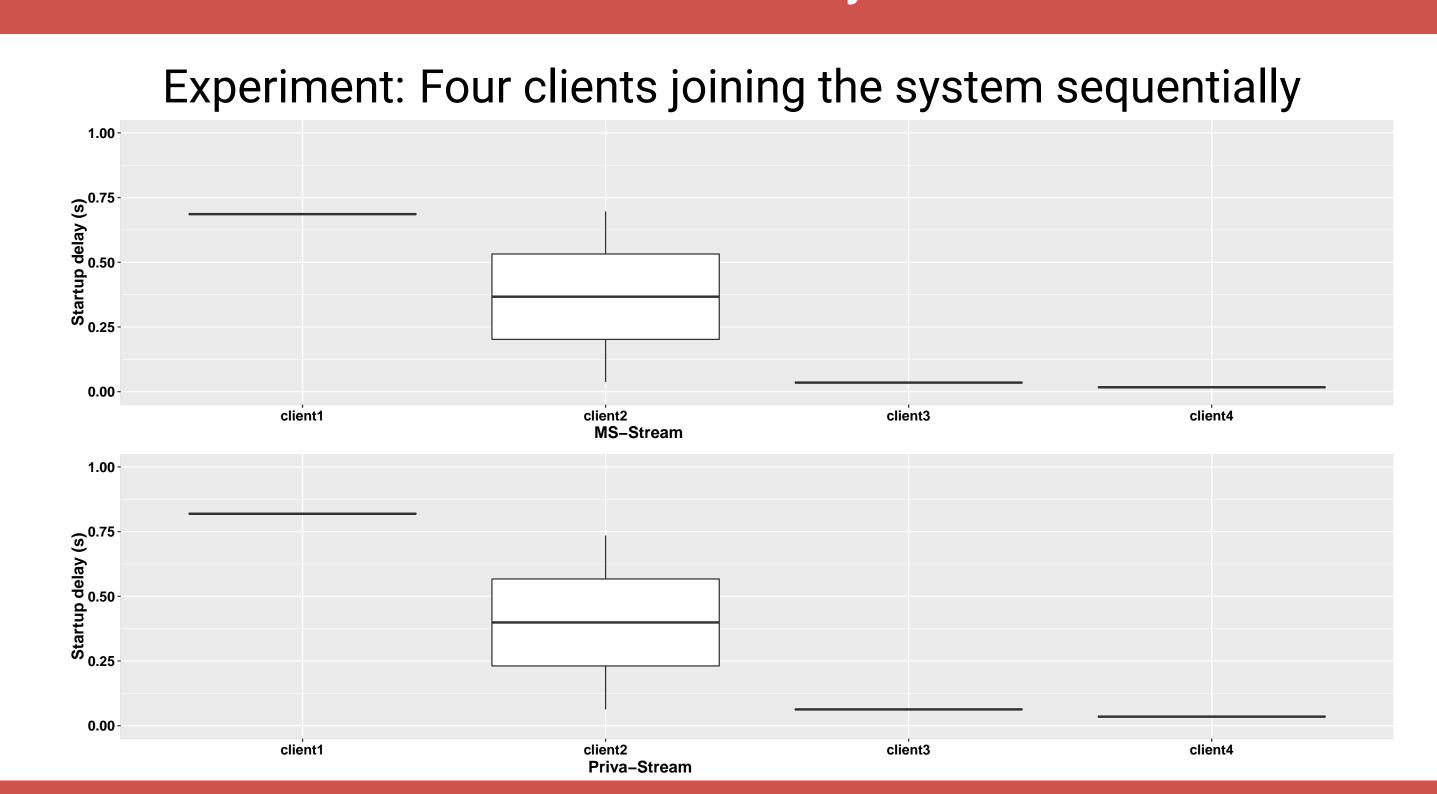
PRIVA-STREAM overview



PRIVA-STREAM technical description



PRIVA-STREAM early results



https://2025.compas-conference.fr/

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Réseaux et Systèmes Distribués













