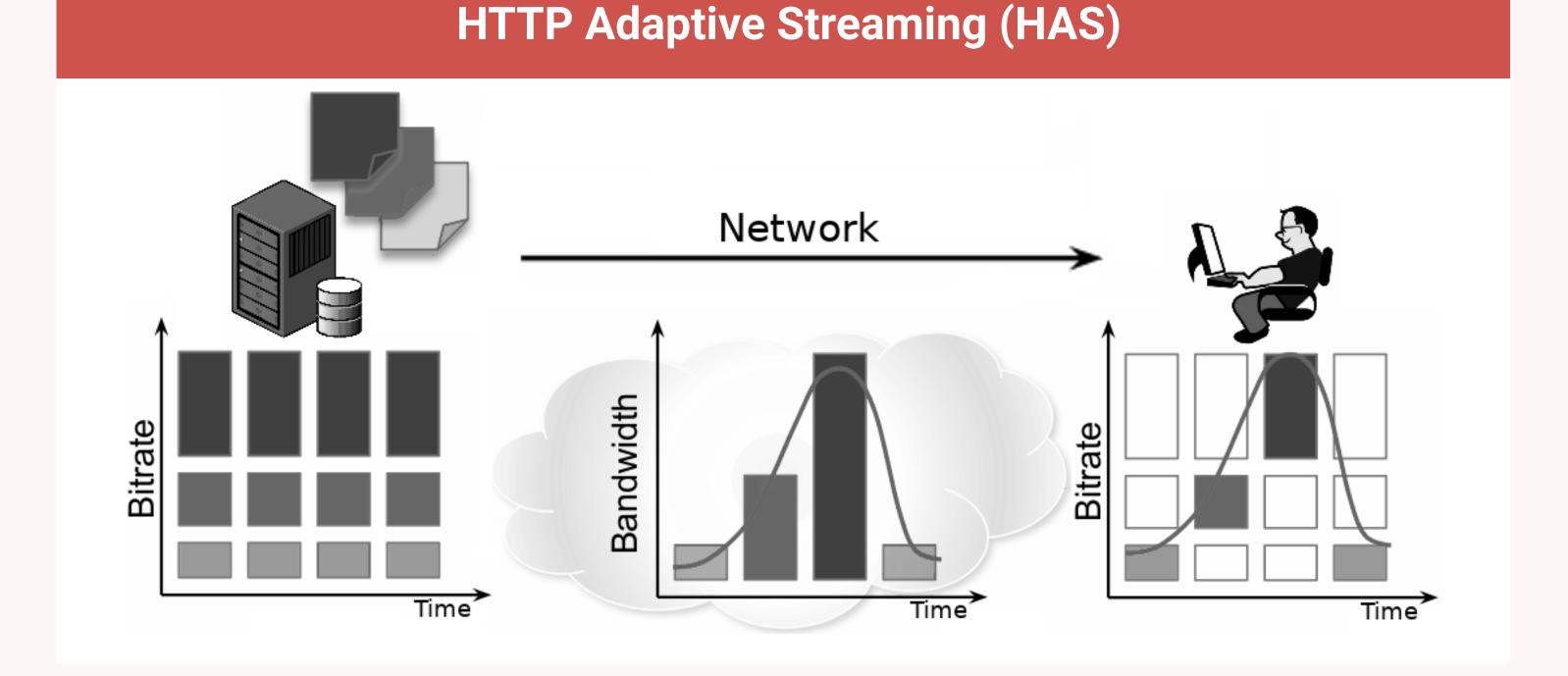
PRIVA-STREAM: Private Collaborative Streaming

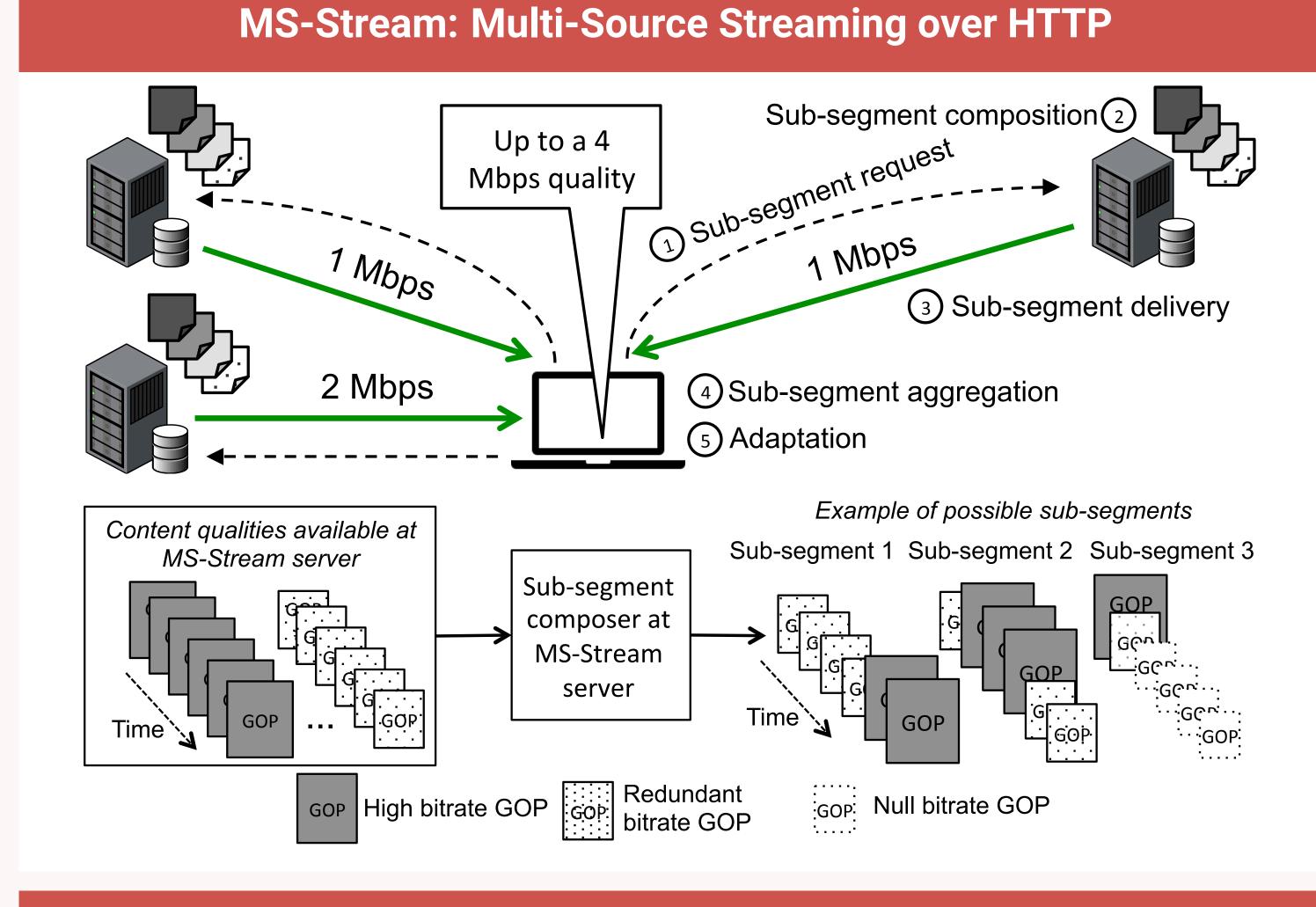
Simon Da Silva - Daniel Negru, Laurent Reveillere PROGRESS - Univ. Bordeaux, LaBRI, France

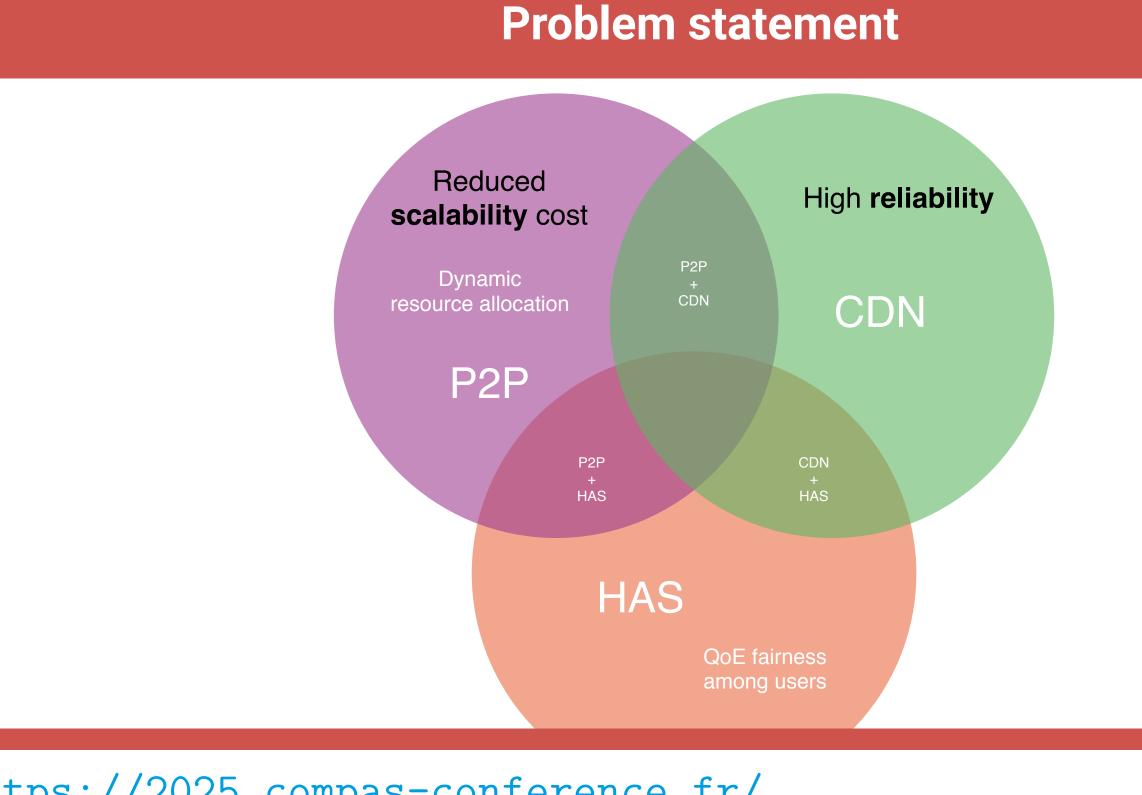


Video content consumption 24% CAGR 300 ■ Gaming (1%, 4%) 250 ■ File Sharing (8%, 3%) 200 ■ Web/Data (18%, 11%) Exabytes 150 per month ■ IP VOD (22%, 14.5%) 100 ■ Internet Video (51%, 67.4%) 50

Content Delivery Networks (CDN) Content Delivery Network



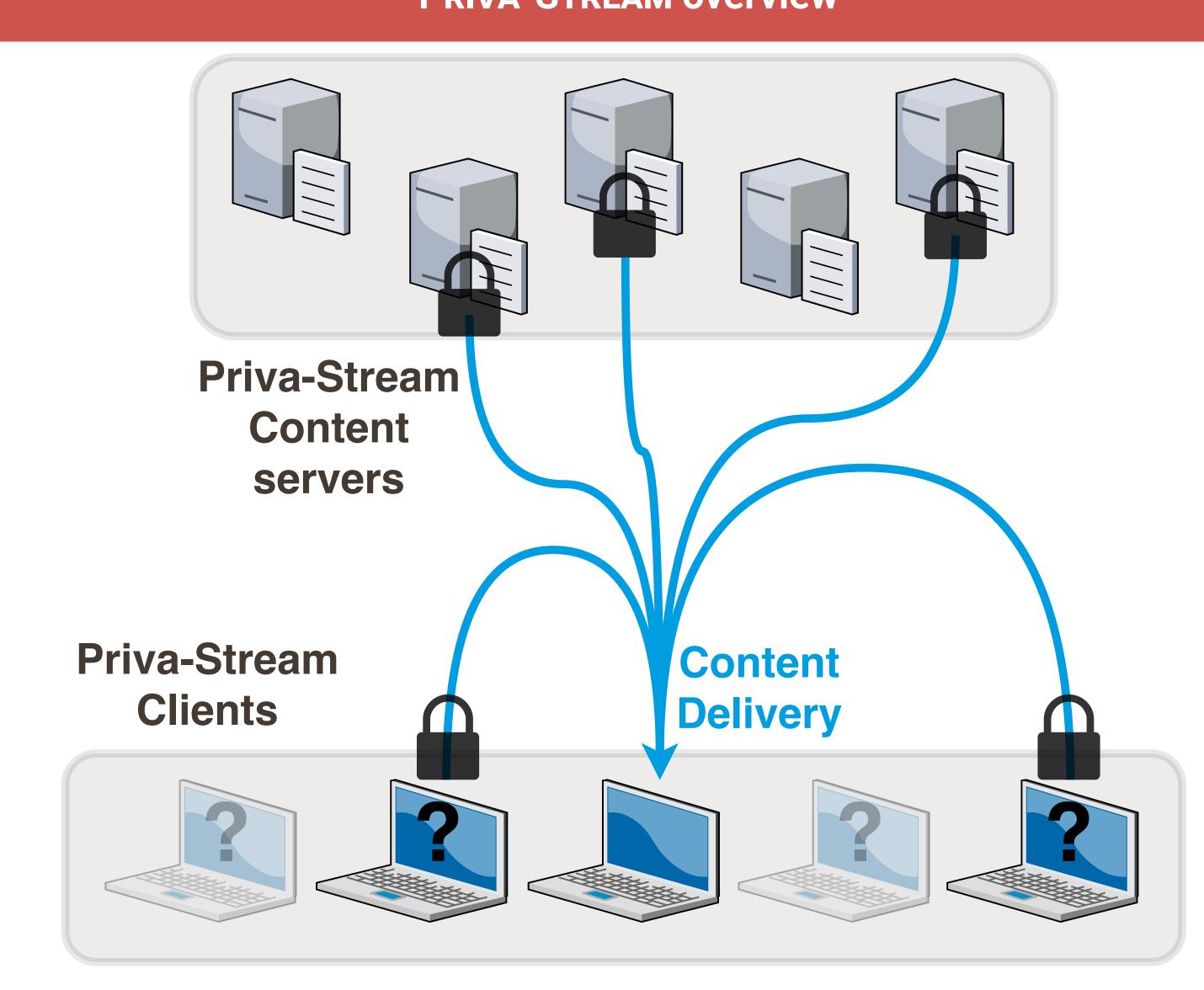




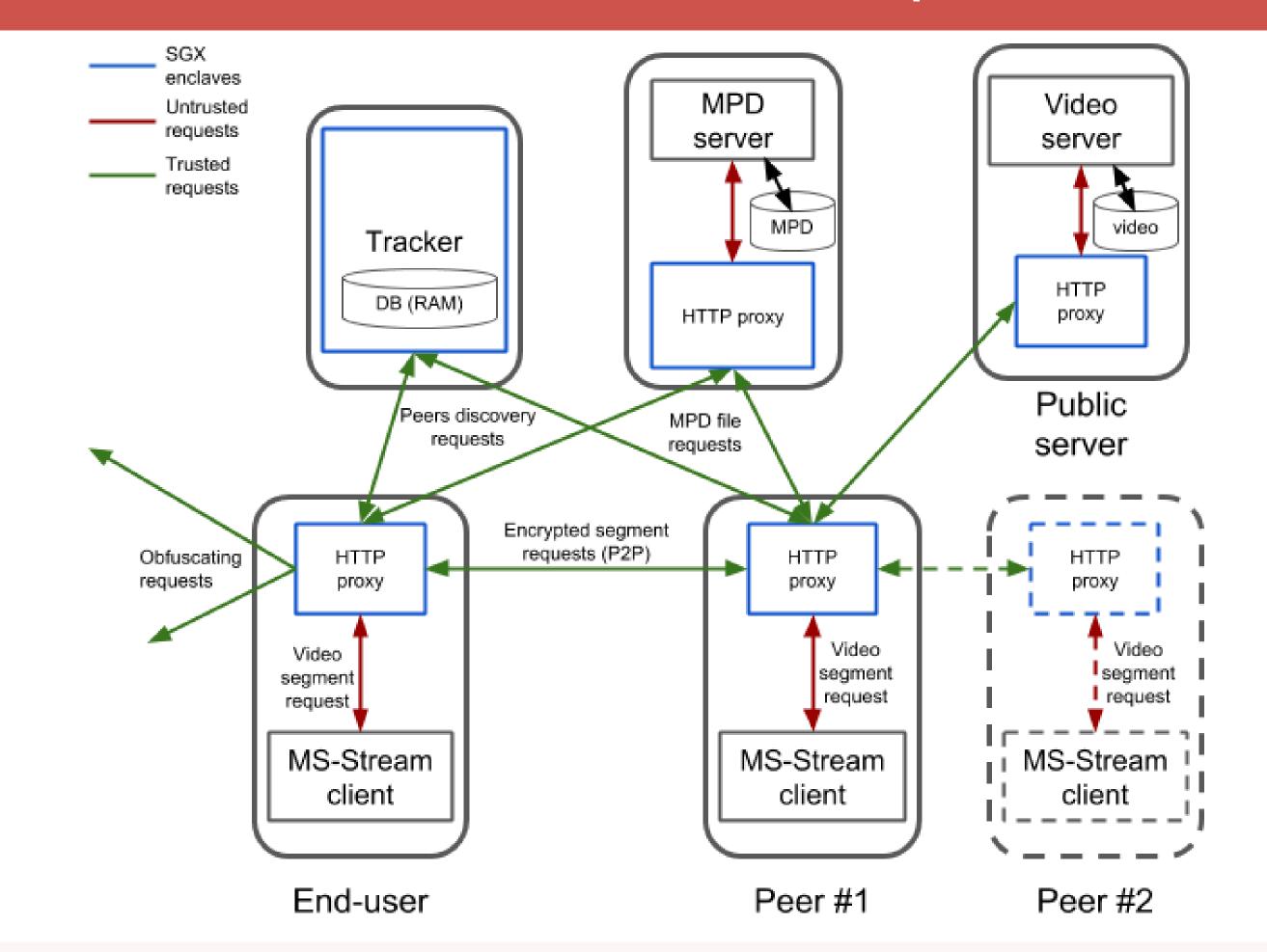
PRIVA-STREAM idea

- 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

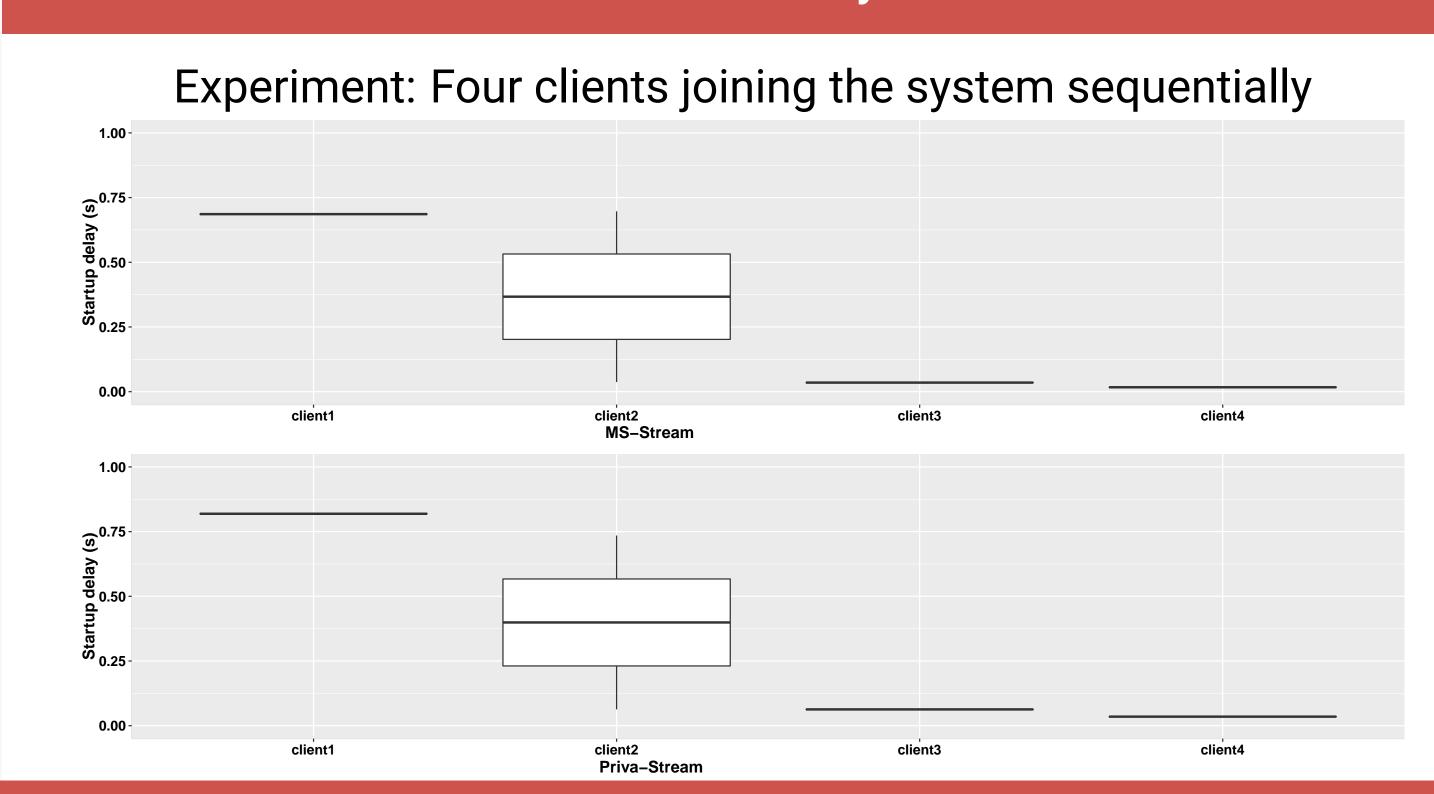
PRIVA-STREAM overview



PRIVA-STREAM technical description



PRIVA-STREAM early results



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

Compas, 26 juin 2025

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