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at Chair of Connected Mobility, TUM

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Research Areas

Internet (De)Centralization, Measurements

Internet Access/Broadband Infrastructure
FCC Measuring Broadband America (MBA)

Local DNS Resolvers and Public DNS Services
DNS over UDP/53   DNS over TLS
DNS over TCP   DNS over QUIC

Web Consolidation
Content Delivery Infrastructures (clouds, CDNs)

Video Streaming
YouTube, Netflix, decentralized alternatives (e.g., DTube)

Decentralized Name Systems
Namecoin, Ethereum Name Service, Handshake

Peer-to-Peer Content Delivery
IPFS

Federated Social Networking Services (Fediverse)
Mastodon, Pleroma, Friendica, Funkwhale, PeerTube

Questions

From a technical perspective:
Decentralized solutions exist – but how to achieve higher adoption and avoid silos/fragmentation?

Make everything interoperable and based on open standards?

Centralization only "solvable" through policies?

Recent antitrust lawsuits: monopolies
How effective can changes be?

Where to go from here?