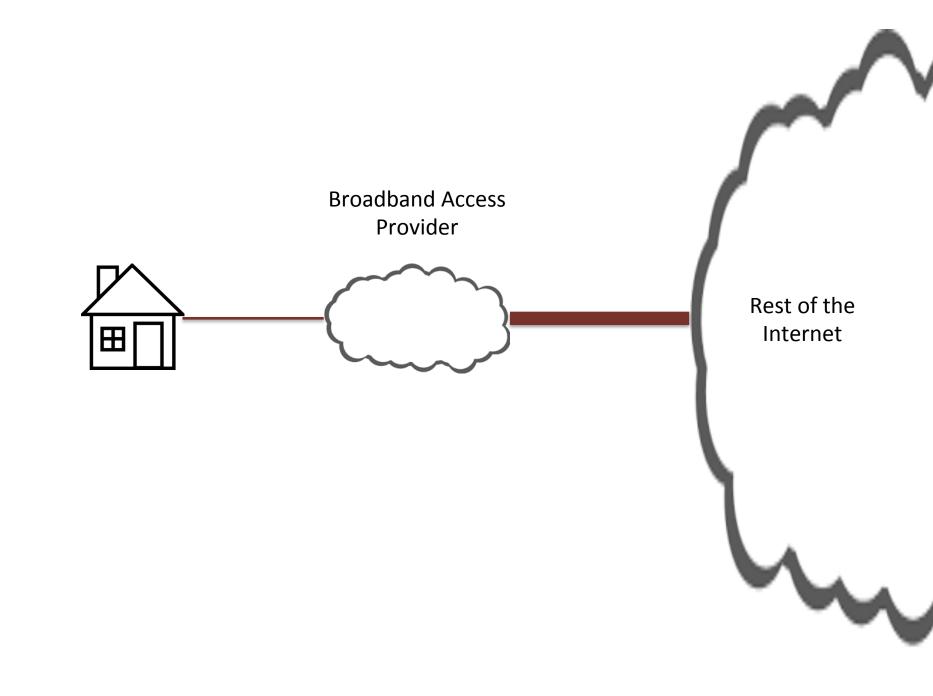
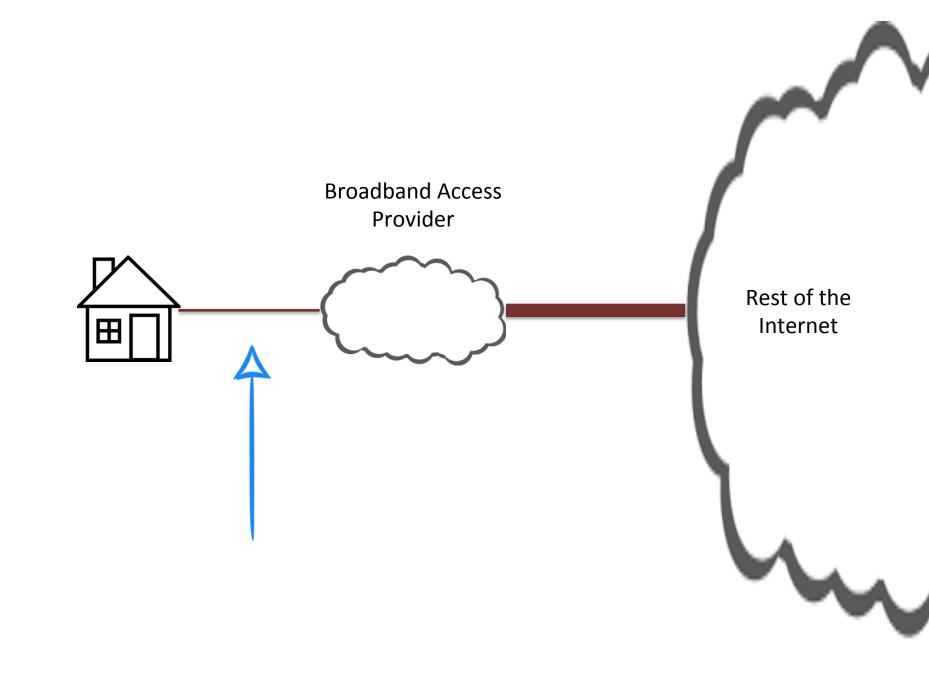
CSAIL: Metrics for ensuring QoE across the ecosystem

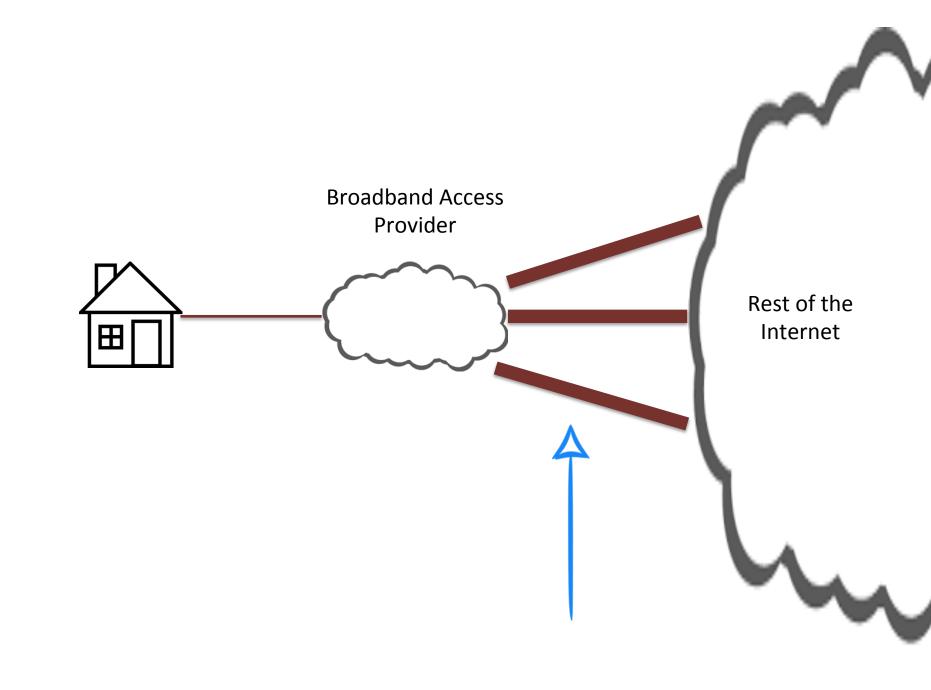
Steven Bauer

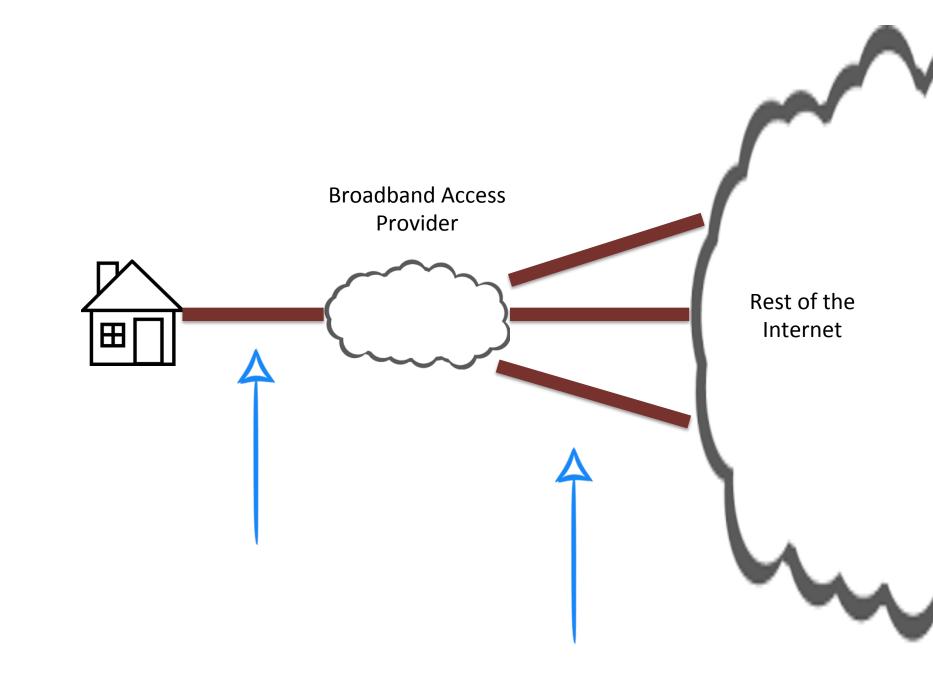
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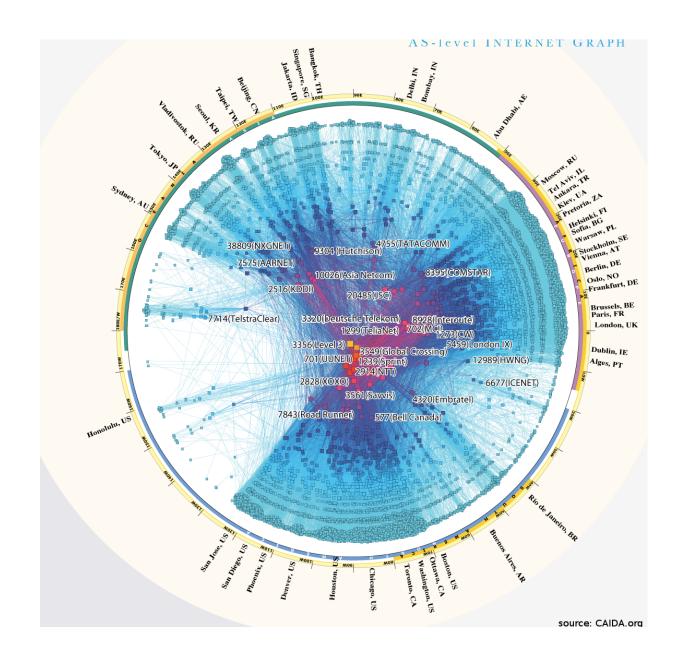
April 17, 2015











Interdomain congestion

- Developing methods to measure the location and extent of interdomain congestion
- Our goals
 - (1) a system to monitor interdomain links and their congestion state
 - (2) a near real-time "congestion heat map" of the Internet
 - (3) increasing transparency, empirical grounding of debate

Very high speed broadband (Gigabit / 100 Mbps)

- 1. What expectations should exist regarding how a broadband access provider offering high speed access links is interconnected with other networks?
- 2. How should the current norms and expectations that have developed regarding access network performance extend across the interconnection links of a very high speed broadband provider?
- 3. Do the expectations of performance on the access links themselves change with such high speed offerings?
- 4. Are existing measurement tools and systems capable of providing consumers and regulators with a clear understanding of how well such high speed broadband access networks are functioning and interconnected?
- 5. Are there dimensions of interconnection beyond capacity that are relevant to the customer experience and regulatory discussions?

FCC Measuring Broadband America

Project Objective

Create a working group whose purpose is to develop a common methodology for measuring video streaming performance to allow for a comparative measurement and analysis of available services.

Selected Services (beta)











- Services so far selected based on popularity
- Includes free and subscription platforms
- Working to establish collaborative relationships with service providers
- Intention to add more streaming services
- Requesting the participation of ISPs in a joint effort

Next Steps