WORKSHOP

› Goal: Understanding what happened with Internet traffic, what actions were taken, pain points, thoughts for the future, etc.
› PC: Farrell & Kuhlewind & Perkins & Jennings & Campbell & Arkko
› Announced in July, deadline in October, held in November
› The workshop received ~20 position paper submissions
  – Many with very interesting measurement results
  – Additional data published also elsewhere during the year, e.g., IMC 2020
› Papers available at
› Recordings & notes available soon

Graph: D. Clark
SOME THOUGHTS EXPRESSED IN THE WORKSHOP

› “Internet did well” -- reasonably good situation, even during the pandemic
› We have some really interesting data about the situation
› Lots of people/orgs were highly motivated to ensure good experience
› The Internet is inherently well suited for adapting to a new situation
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On the other hand:

We have limited ability to observe, control traffic, collaboration among actors, etc.

We had one type of situation – results in other situations could differ

Internet is becoming even more important for all of us

– Digital divide potentially amplified in pandemic-like situations

Can we make it better for other unexpected situations?

+ all the other improvements we see necessary anyway (security, digital divide, etc.)
POTENTIAL FUTURE THINGS TO ADDRESS

› All the usual sensible things: reasonable capacity & contingency planning, education, implementation improvements, security practices, etc.
› More measurements, e.g., information distribution, covering different places and networks, additional types of measurements, Quality of Experience, etc.
› Network-application collaboration, perhaps at an aggregate level?
› What can we do to improve resilience even further? (Also, centralization bad)
› Should DDoS defense be a part of response to emergencies?

› Plus everything else we knew we need to fix
EXPERIENCES FROM RUNNING A VIRTUAL WORKSHOP

› Generally seemed to work well, good amount of healthy discussion in a group of 30-40 participants

› We split the agenda into three sessions, with a free day in between
  – This was found useful

› Had some practical issues
  – Late decision for session times, few people dropped from list, etc.

› Sometimes had difficulties in separating “Covid-19 impact” and “all issues about the Internet”