IAB WORKSHOP:
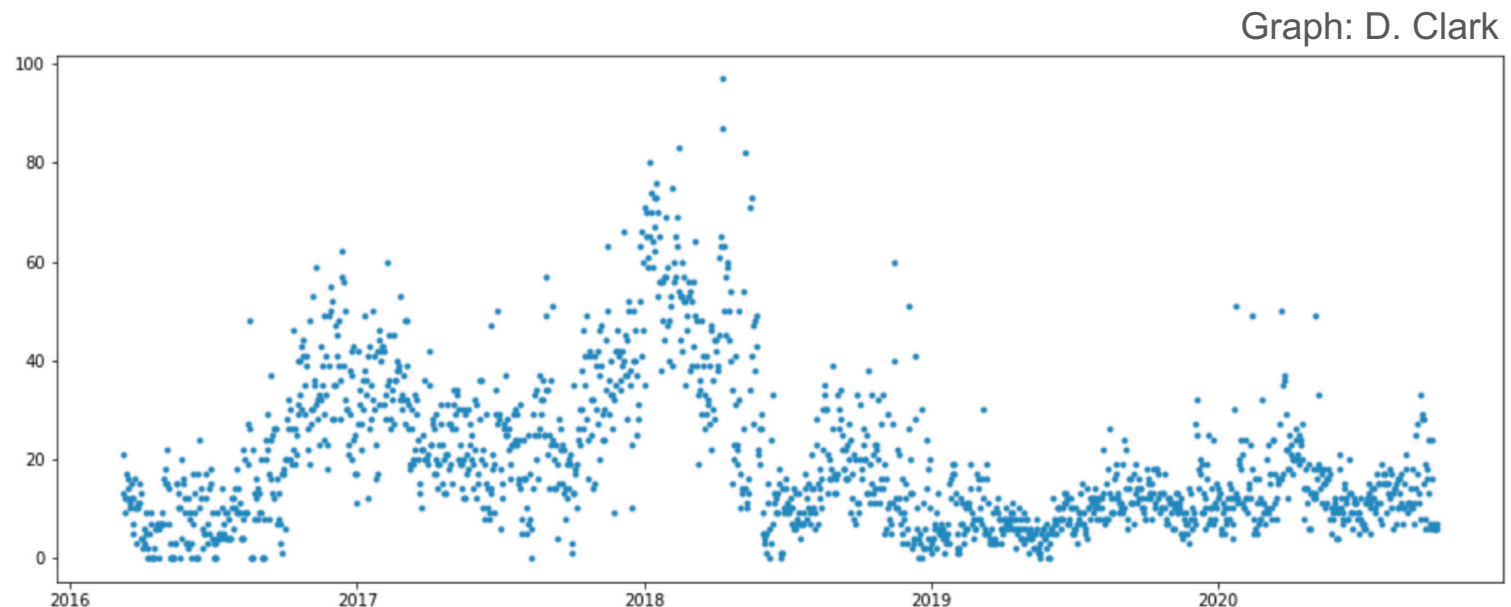# COVID-19 NETWORK IMPACTS

NOVEMBER 9-14

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

https://www.iab.org/activities/workshops/covid-19-network-impacts-workshop-2020/

› 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.

› <u>More measurements</u>, e.g., information distribution, covering different places and networks, additional types of measurements, Quality of Experience, etc.

› <u>Network-application collaboration</u>, perhaps at an aggregate level?

› What can we do to improve <u>resilience</u> even further? (Also, centralization bad)

› Should <u>DDoS</u> defense be a part of response to emergencies?

› Plus <u>everything else</u> 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"