MLAB

measurementlab.net

The M-Lab Research Consortium provides an open, distributed network measurement platform. By enabling transparent data, M-Lab helps sustain a healthy, innovative Internet.

What can you do with M-Lab?

Users

- **Test your network connection**
  M-Lab offers a suite of measurement tools designed by network researchers, providing users real-time performance information from speed, throttling, blocking, and rich diagnostic metrics.
- **Compare performance via interactive broadband maps**
  M-Lab broadband maps make performance intelligible and meaningful in a global context.

Researchers

- **Access to a state of the art, globally distributed infrastructure**
  Researchers deploying tools gain access to a platform optimized to meet the needs of rigorous network measurement tests, covering vast portions of the globe.
- **Dig in to over 600 *terabytes* of publicly available, raw measurement data**
  All data collected by M-Lab's tools is made publicly available, in its raw form.

Regulators and Policymakers

- **Rely on open, objective broadband data**
  Good policy requires good data. M-Lab tools are open source, and the resulting data is made publicly available. The Federal Communications Commission (FCC) and Greece's telecommunications authority have already partnered with M-Lab, among others.

Industry

- **Enhance user-experience and content delivery**
  M-Lab tools can be embedded in applications and services, providing users insight into connection problems without leaving a given property, and allowing content delivery to be tuned to the real-time conditions of a user's network performance.
- **Support the Open Internet as a member of M-Lab's research consortium**
  Supporting M-Lab marks your organization as an advocate for good science and the open Internet.

How does it work?

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1. **Someone somewhere runs an M-Lab test from their browser,** hardware, or mobile device.
2. **This test communicates a stream of data** between this person's machine (client) and a local M-Lab measurement server.
3. M-Lab measurement servers support specially built tools that **analyze what happened to this stream of data** between the user and the server.
4. Based on an understanding of what happened, **the user receives results**
5. **M-Lab also collects these results**. These results are packaged, and stored along with many others, freely available to the public. This comprises the **largest open measurement platform and data repository in the world, supporting research, policy, and user empowerment**.

M-Lab is a collaborative effort. We're always looking for new partners and collaborators.
Contact M-Lab to get involved: info@measurementlab.net

Who is M-Lab?

M-Lab is a collaborative effort led by academic researchers, with the support of a broad range of interested parties, including:

Where is M-Lab?

M-Lab's platform of over 130 servers covers the US, Europe, Australia, and parts of Africa and Asia.

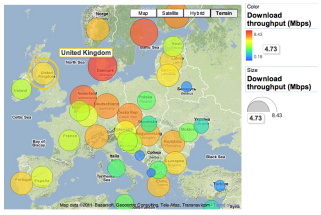
What else?

By the numbers

12 tools; **Over 200million tests** run since launch; **200K+ tests** run daily; **Over 750TB of open data**; **100+ servers** around the globe; **14+ academic** papers published using M-Lab's open data; **4+ national regulators** and the European Commission using M-Lab tools, data, and infrastructure, and much more...

M-Lab network health maps

M-Lab researchers have created global interactive broadband maps drawing on M-Lab's openly collected data.



For more: http://measurementlab.net/visualization

M-Lab partnering for better policy

SPEBS BETA

M-Lab is working with the **FCC; The European Commission; EETT in Greece; RTR in Austria, OCECPR in Cyprus** and others to provide infrastructure, tools, and open data as the basis for sound policy.

"An Excellent Testing Tool and Infrastructure"

MIT computer scientist Dave Clark noted that M-Lab's NDT tool is: "...**an excellent testing tool and infrastructure.** The insights to draw from this data, however, are not simple averages of the upload and download speeds... the value of the NDT data is in understanding the sources of performance bottlenecks for today's users. **Analyzing the publicly available data from this test has been very helpful in advancing our understanding of the performance bottlenecks on today's networks**..."

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