

MLAB

measurementlab.net

*M-Lab is an open, distributed platform for Internet measurement tools.
By enhancing transparency, M-Lab helps sustain a healthy, innovative Internet.*

What can you do with M-Lab?

Users

- **Test your broadband connection**

M-Lab offers a suite of measurement tools designed and maintained by top network researchers. These tools provide users a wide range of information about their connection that goes well beyond the typical “speed test.”

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 purpose-built measurement tests.

- **Dig in to 170+ terabytes of publicly available measurement data**

All data collected by M-Lab’s tools is made publicly available. Data is currently accessible via Amazon Web Services and Google Storage for Developers/Google BigQuery.

Policymakers

- **Rely on open, objective broadband data**

M-Lab tools are open source, allowing access to the underlying measurement methodology, and the resulting data is made publicly available. The Federal Communications Commission (FCC) and Greece’s telecommunications authority have already partnered with M-Lab.

Who’s involved?

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



Where is M-Lab?

M-Lab is a distributed network of 48 servers in 16 locations in the US, Europe and Australia. Having servers near users helps facilitate better measurement -- and M-Lab is continually looking to expand its server count.

What else?

By the numbers

- **6 tools**, including two mobile measurement tests
- **47 million tests** run since launch, **200,000+ tests** run daily
- **+170TB of data** available publicly
- **48 servers** in 16 locations around the globe

<h3>M-Lab is Growing Rapidly</h3> <p>Test growth over time for NDT and NPAD tools' test runs</p> <p>The top graph shows NDT tests (red line) and NDT size (green line) from 03/09 to 05/10. The y-axis for size ranges from 0 to 1TB, and for number of tests from 0 to 250k. The bottom graph shows NPAD tests (blue line) and NPAD size (magenta line) over the same period. The y-axis for size ranges from 0 to 25MB, and for number of tests from 0 to 450. Both graphs show a significant increase in activity starting around 01/10.</p>	<h3>M-Lab in Public Policy</h3> <p>August '09: Greece's telecommunications regulator (EETT) deployed servers in Athens, in collaboration with the Greek Research and Technology Network (GRNet)</p> <p>March '10: FCC's Consumer broadband test launched, using NDT as one of two third-party tests.</p>
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“An Excellent Testing Tool and Infrastructure”

MIT computer scientist **Dave Clark** has done one of the first analyses of M-Lab data, and [noted](#) that the NDT tool on M-Lab 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 from different user populations.... Rather the value of the NDT data is in understanding the sources of the performance bottlenecks for today’s network users. **Analyzing the publicly available data from this test has been very helpful in advancing our own understanding of the performance bottlenecks on today’s broadband networks....** This is an impressive amount [of data].”

*We're always looking for new partners and collaborators.
Contact M-Lab to get involved.
info@measurementlab.net*