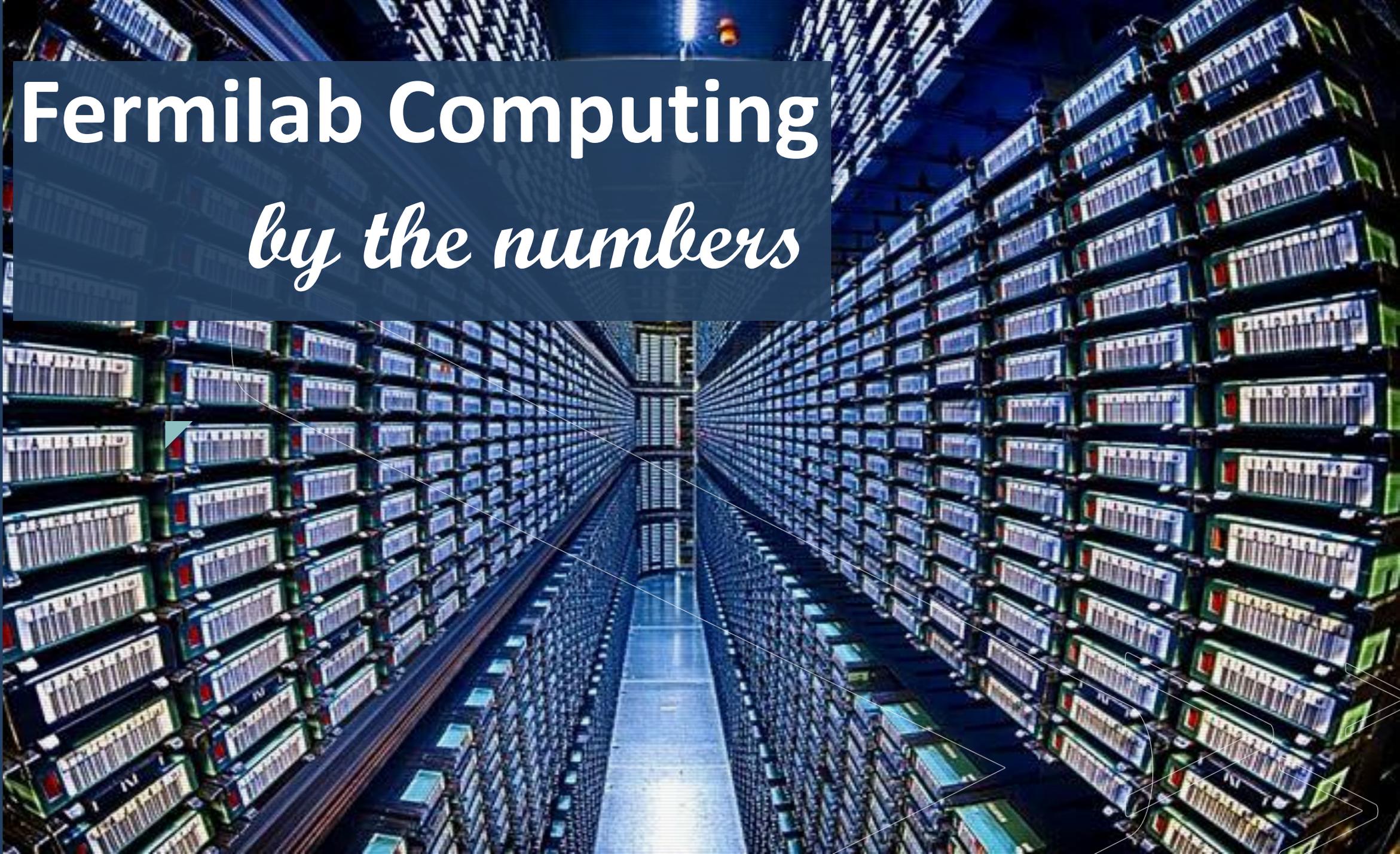
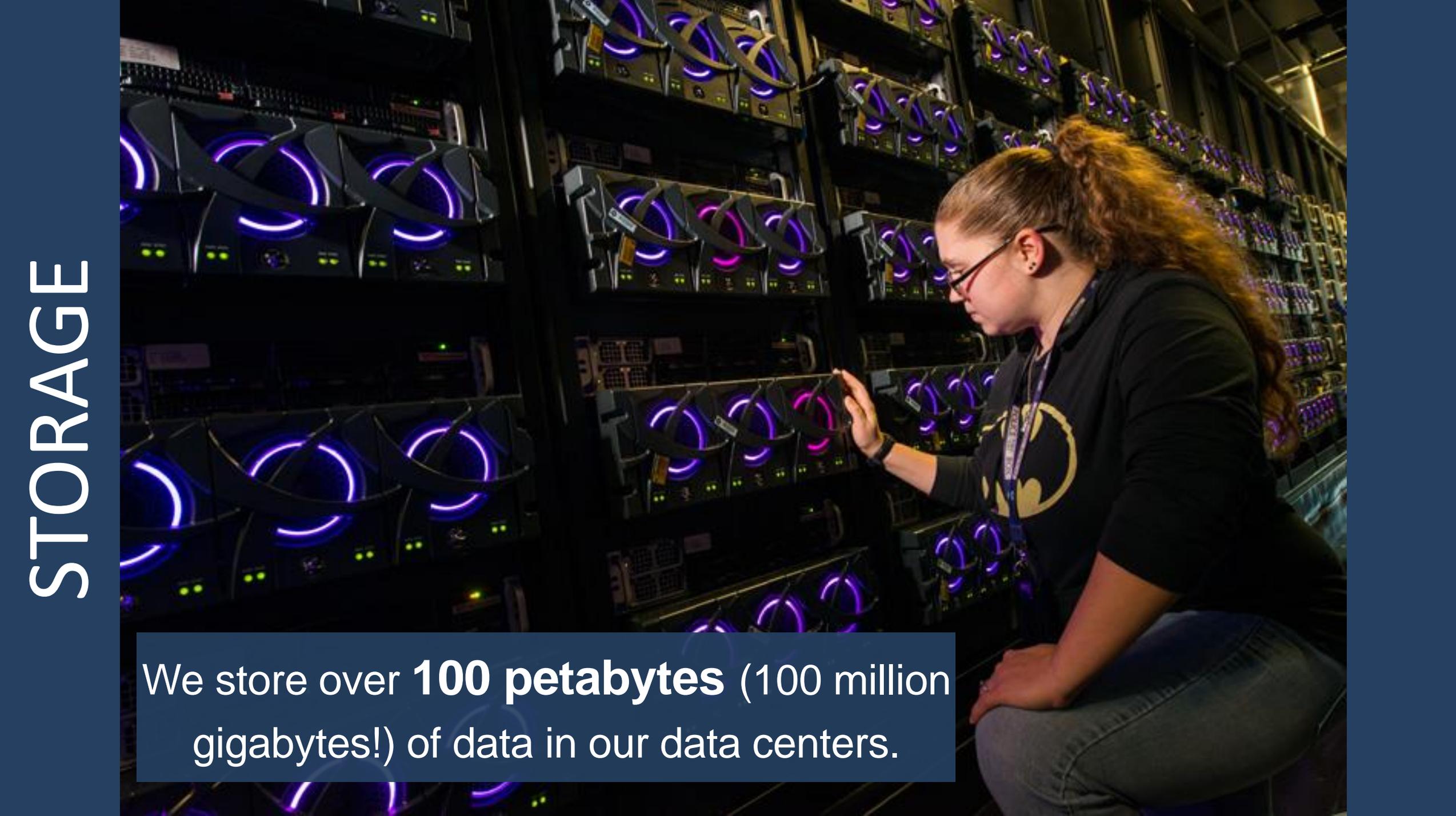


Fermilab Computing

by the numbers



STORAGE

A woman with long brown hair in a ponytail, wearing glasses and a dark t-shirt with a yellow Batman logo, is kneeling in a data center aisle. She is looking at a server rack. The server racks are filled with equipment, and the fans are glowing with a bright blue light. The background shows more server racks stretching into the distance.

We store over **100 petabytes** (100 million gigabytes!) of data in our data centers.

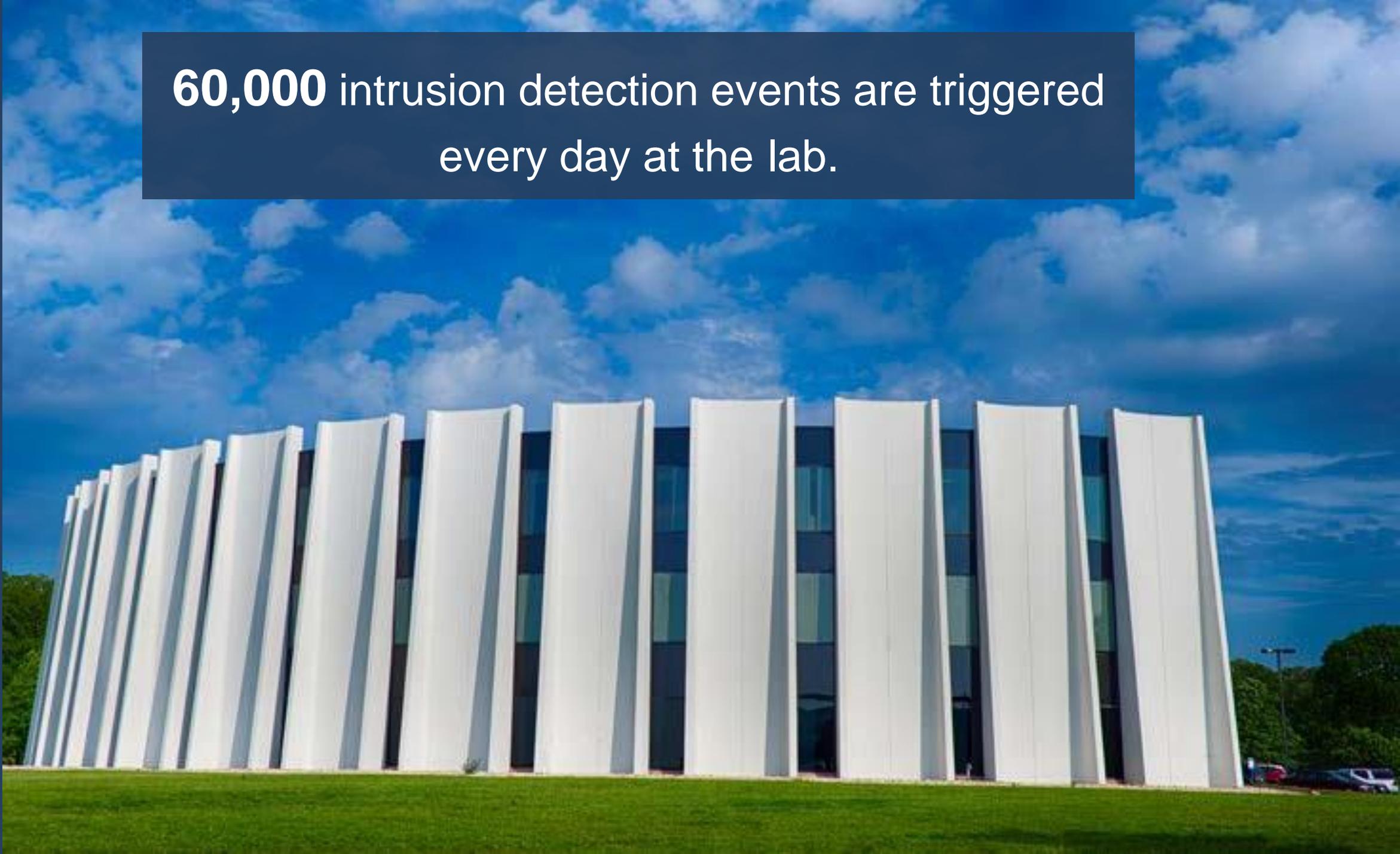
NETWORKING

We use over **3,500 miles** of networking fiber.
That's twice as far as here to LA!



60,000 intrusion detection events are triggered every day at the lab.

CYBERSECURITY



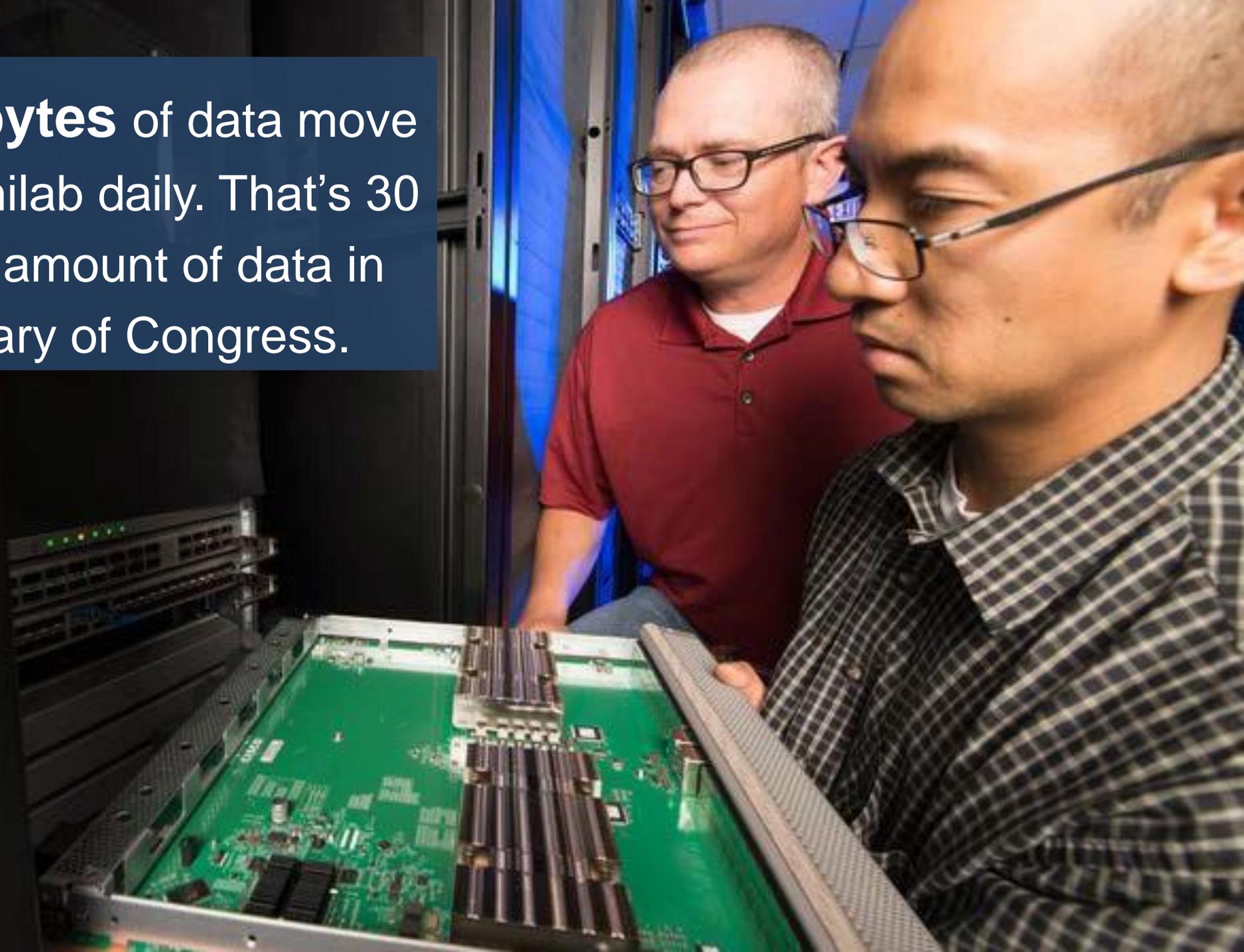
HARDWARE



We support **2,642** laboratory-owned desktops and laptops.

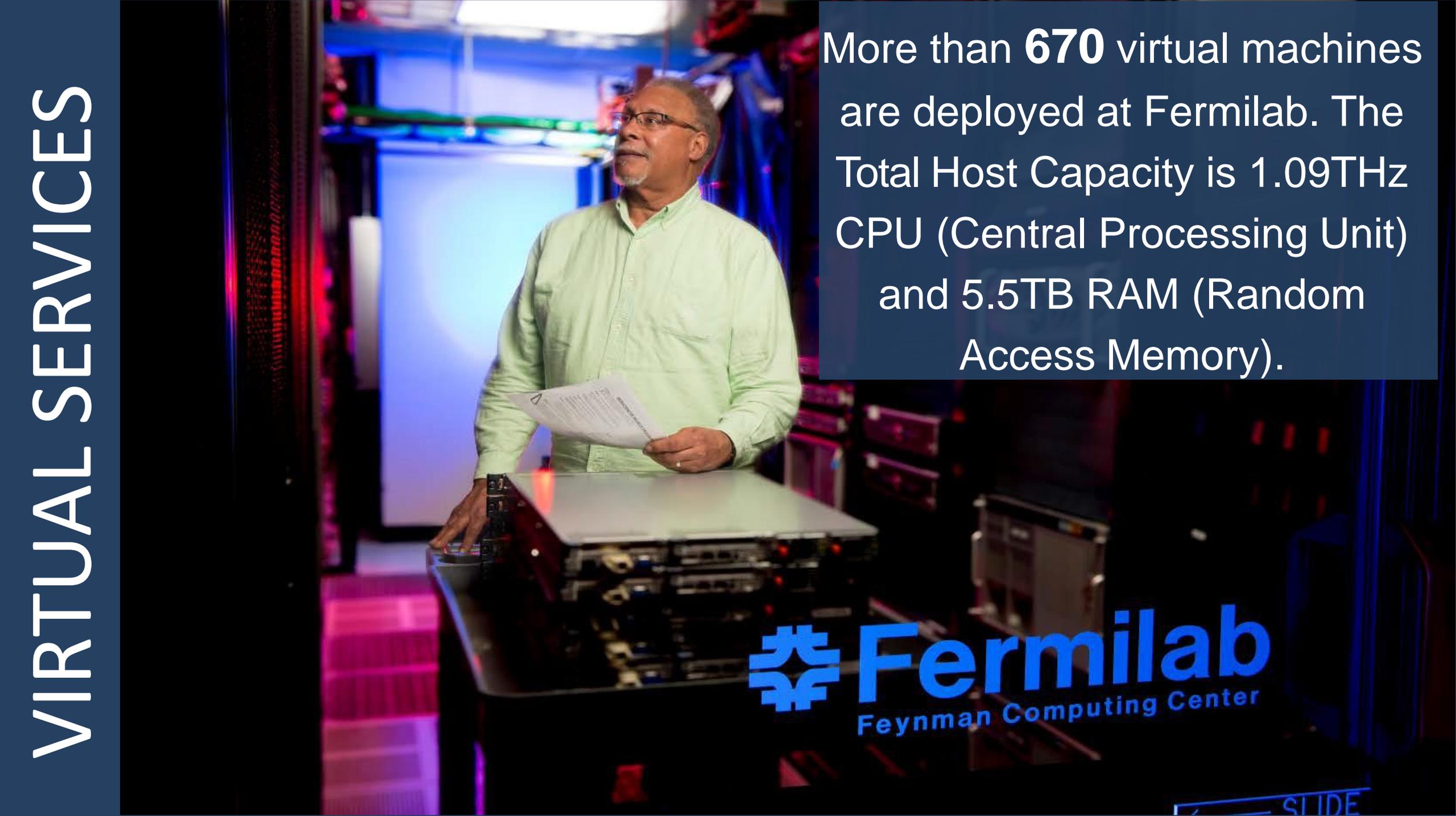
NETWORKING

600 terabytes of data move out of Fermilab daily. That's 30 times the amount of data in the Library of Congress.



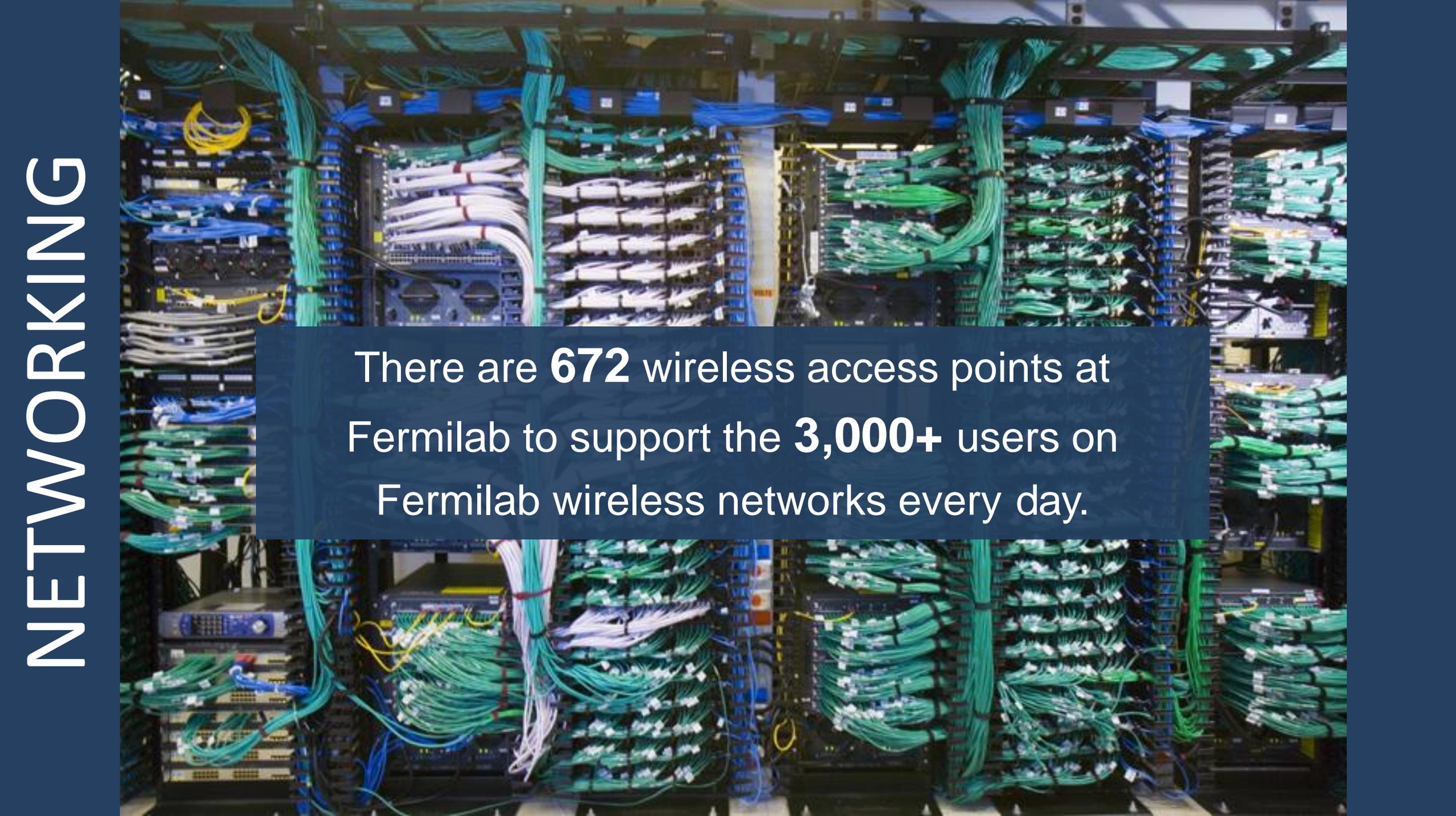
VIRTUAL SERVICES

More than **670** virtual machines are deployed at Fermilab. The Total Host Capacity is 1.09THz CPU (Central Processing Unit) and 5.5TB RAM (Random Access Memory).



 **Fermilab**
Feynman Computing Center

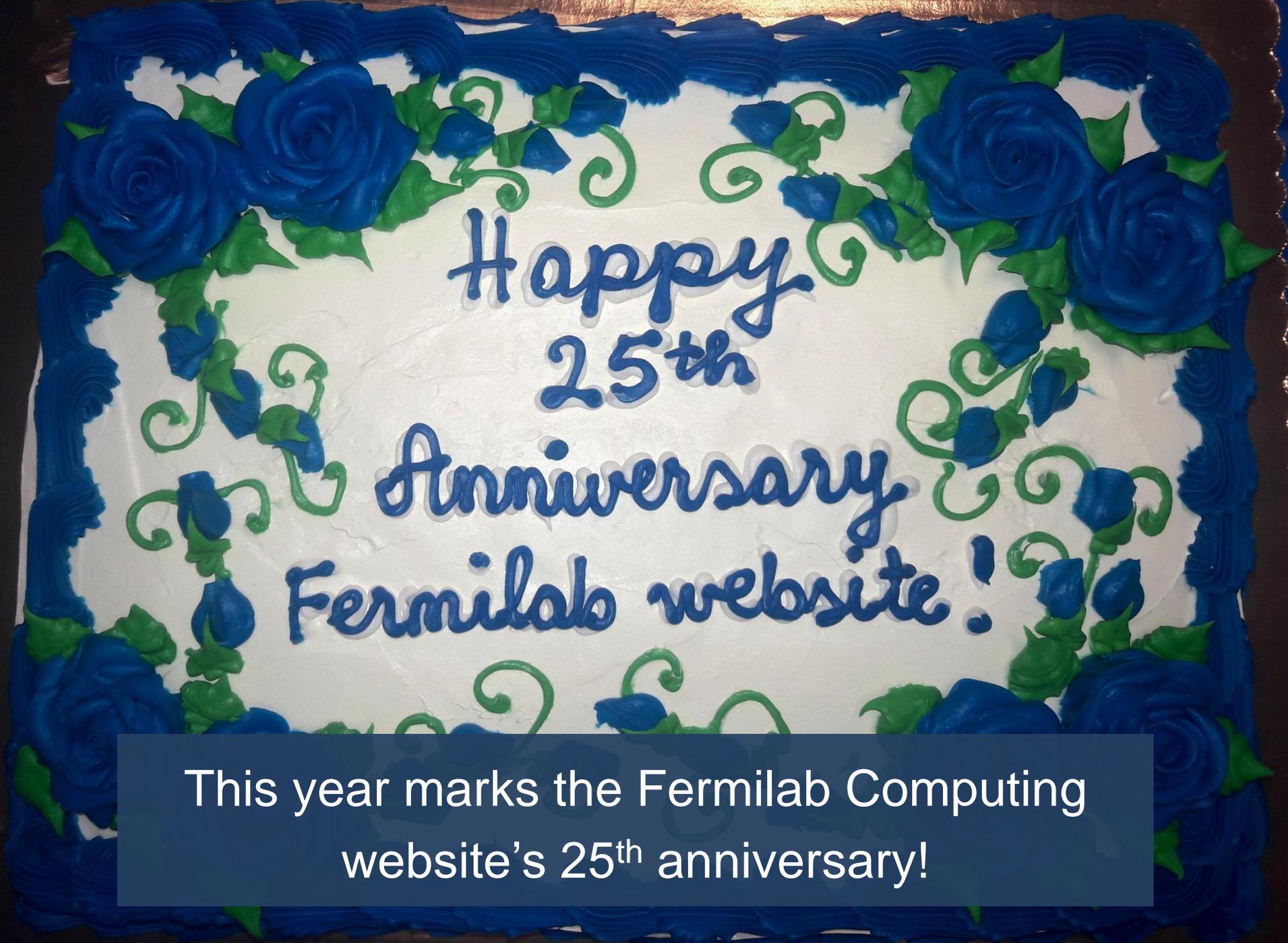
NETWORKING



There are **672** wireless access points at Fermilab to support the **3,000+** users on Fermilab wireless networks every day.

FACILITIES

Our generator-backed data center for lab-critical functions has **1.5 megawatts** of information technology capacity. This amount would provide power to about **1,500 homes**.



Happy
25th
Anniversary
Fermilab website!

This year marks the Fermilab Computing website's 25th anniversary!

We are the home of Scientific Linux (currently version 7). SL is an operating system for scientific computing.

SCIENTIFIC LINUX



LIBRARY



A total of **75,955** downloads of scientific journals, books, and engineering standards occurred in 2016.

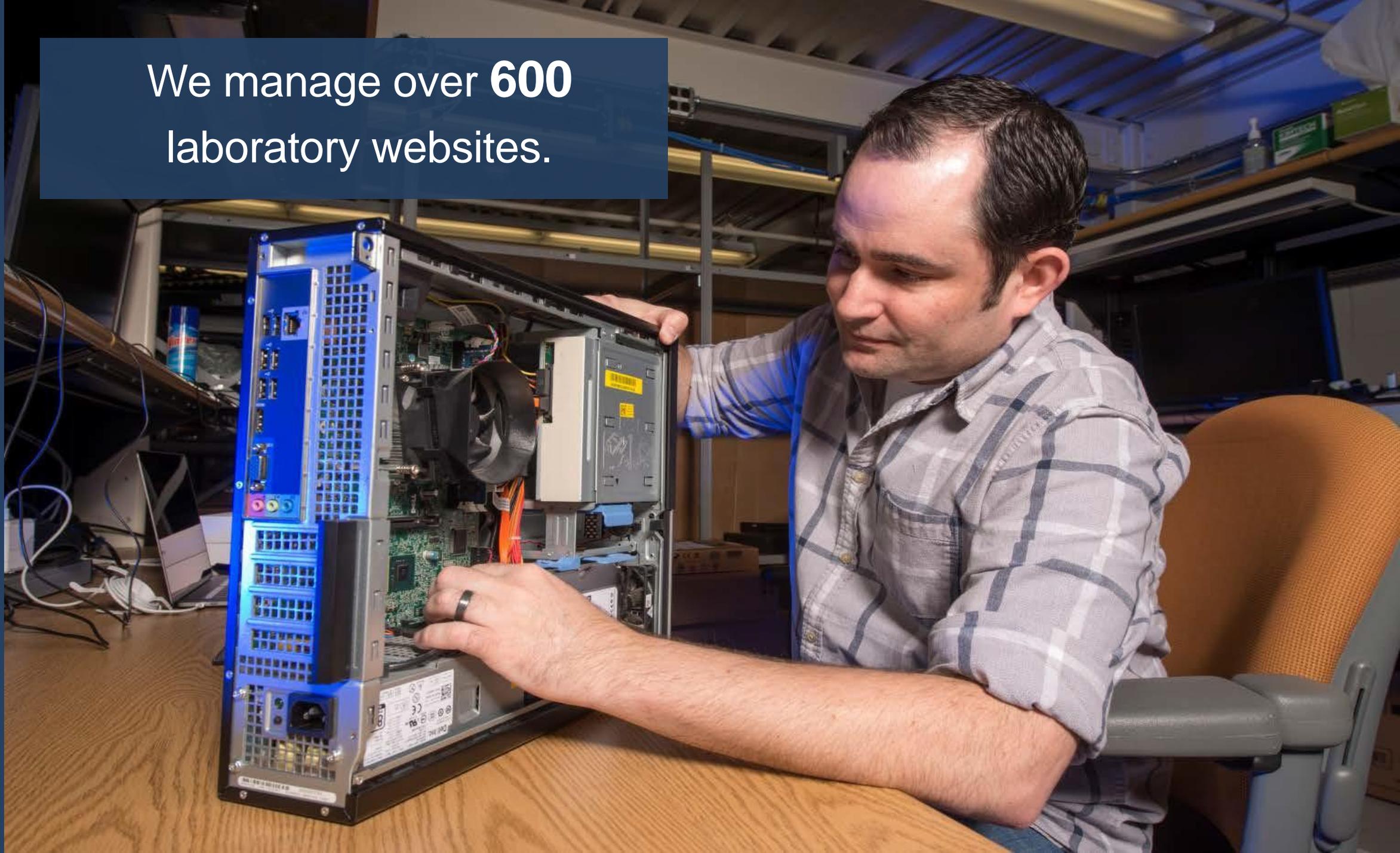
CYBERSECURITY

More than **one million** spam emails are caught every month; **8,000** malicious URLs are blocked each day, and **35** viruses are caught each week at the lab.



We manage over **600**
laboratory websites.

WEB



APPLICATIONS

We made over **300** enhancements to our business system applications last year.

