Harriet Coverston, Co-founder & CTO

Library of Congress
Designing Storage Architectures
September 17, 2018

Versity Software

the future of archiving

ARCHIVING IS OUR FOCUS.

We do one thing, and we do it well.

What we do

Versity

Rock solid data protection

For

Large data collections

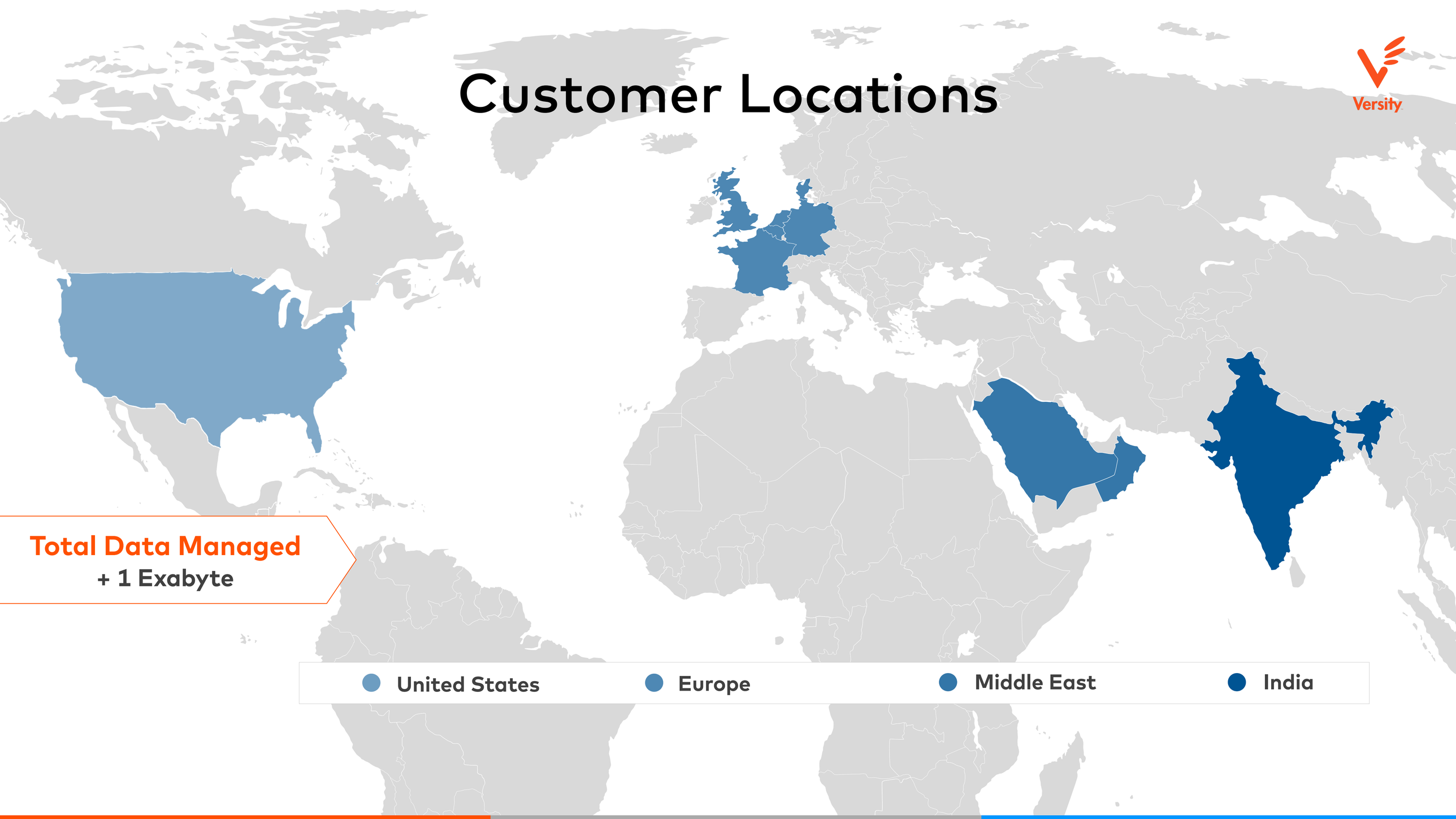
At

Low cost

The long term solution for archival data storage

Customer Locations

Versity



Total Data Managed
+ 1 Exabyte

United States | Europe | Middle East | India

Why Versity Is Winning ?

The only independent HSM vendor

Open source file system & file format

Subscription business model

Great support slack - guaranteed

Pure play - software only

Investing in new technology

Large VSM Deployments

पृथ्वी विज्ञान मंत्रालय
MINISTRY OF EARTH SCIENCES

- 35 PB Capacity
- 850 TB - 1 PB write throughput per day
- 12 GB/s
- 2 Servers (active/passive)
- 6 SAN Clients
- 48 LTO7 Drives

KAUST
King Abdullah University of Science and Technology

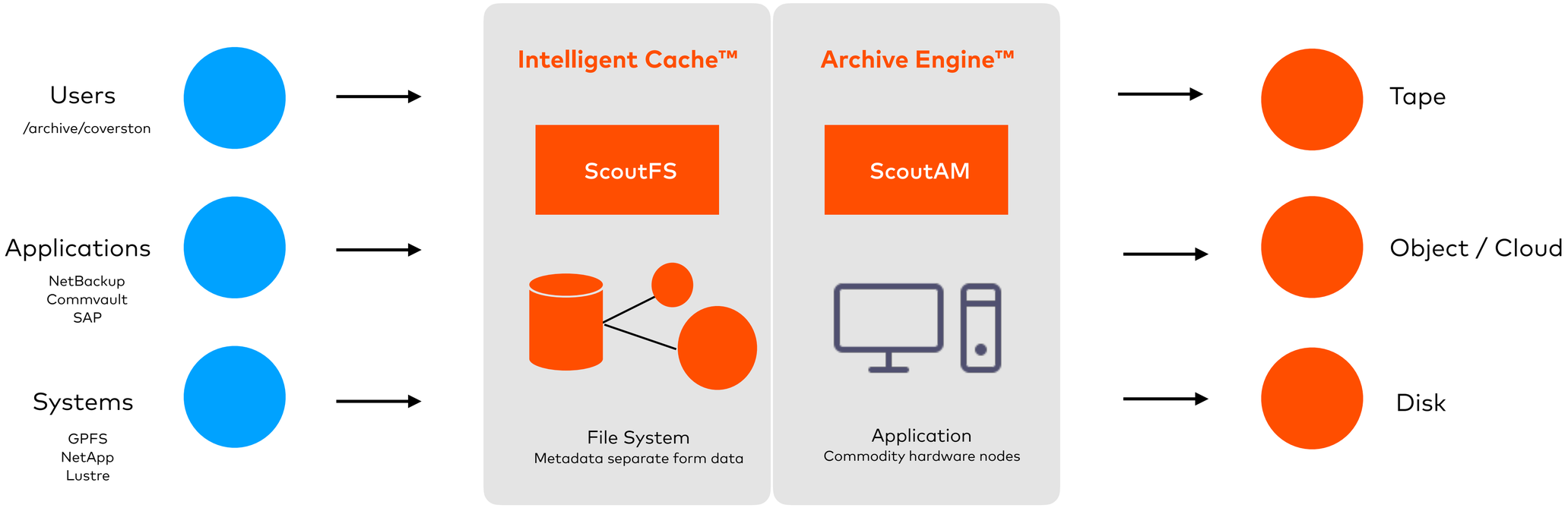
- 80 PB Capacity
- 500 TB - 600 TB write throughput per day
- 2 Servers (active/passive)
- 6 SAN Clients
- 20 IBM E08 Drives
- > 800M Files

Investing in new technology

Next Generation Product

Scout Archive Manager

Components



Scale out filesystem

Versity

ScoutFS

Designed for large namespace

Internal index eliminates scanning

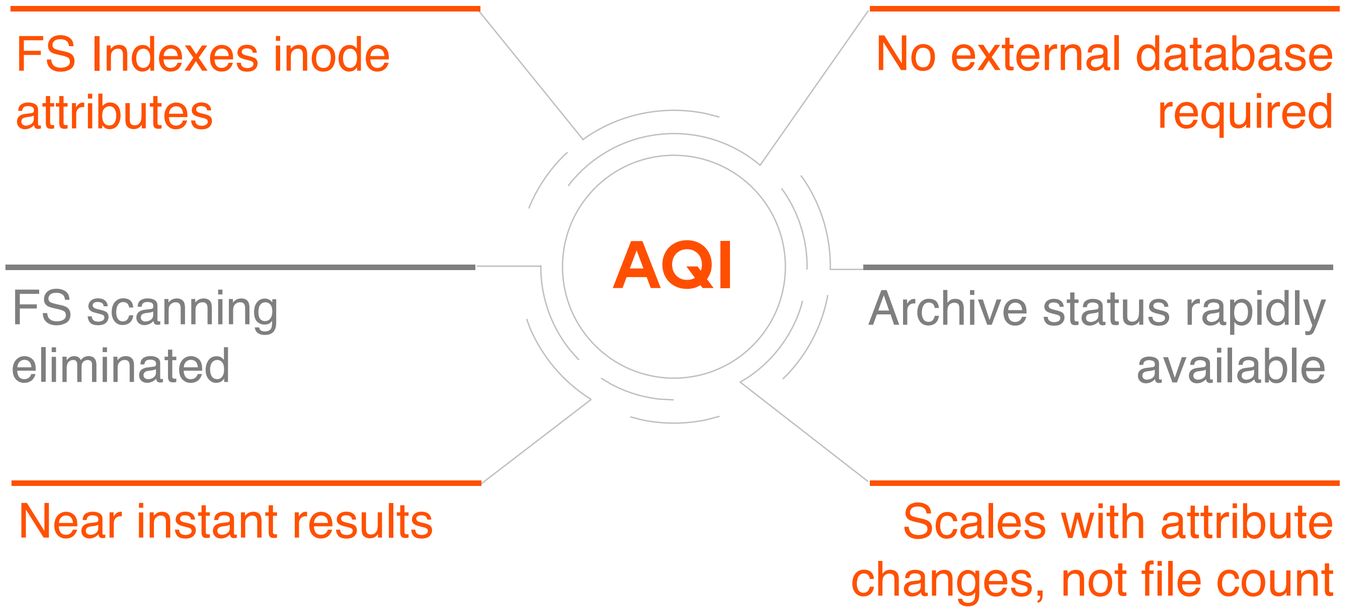
Built for bandwidth

Open Source

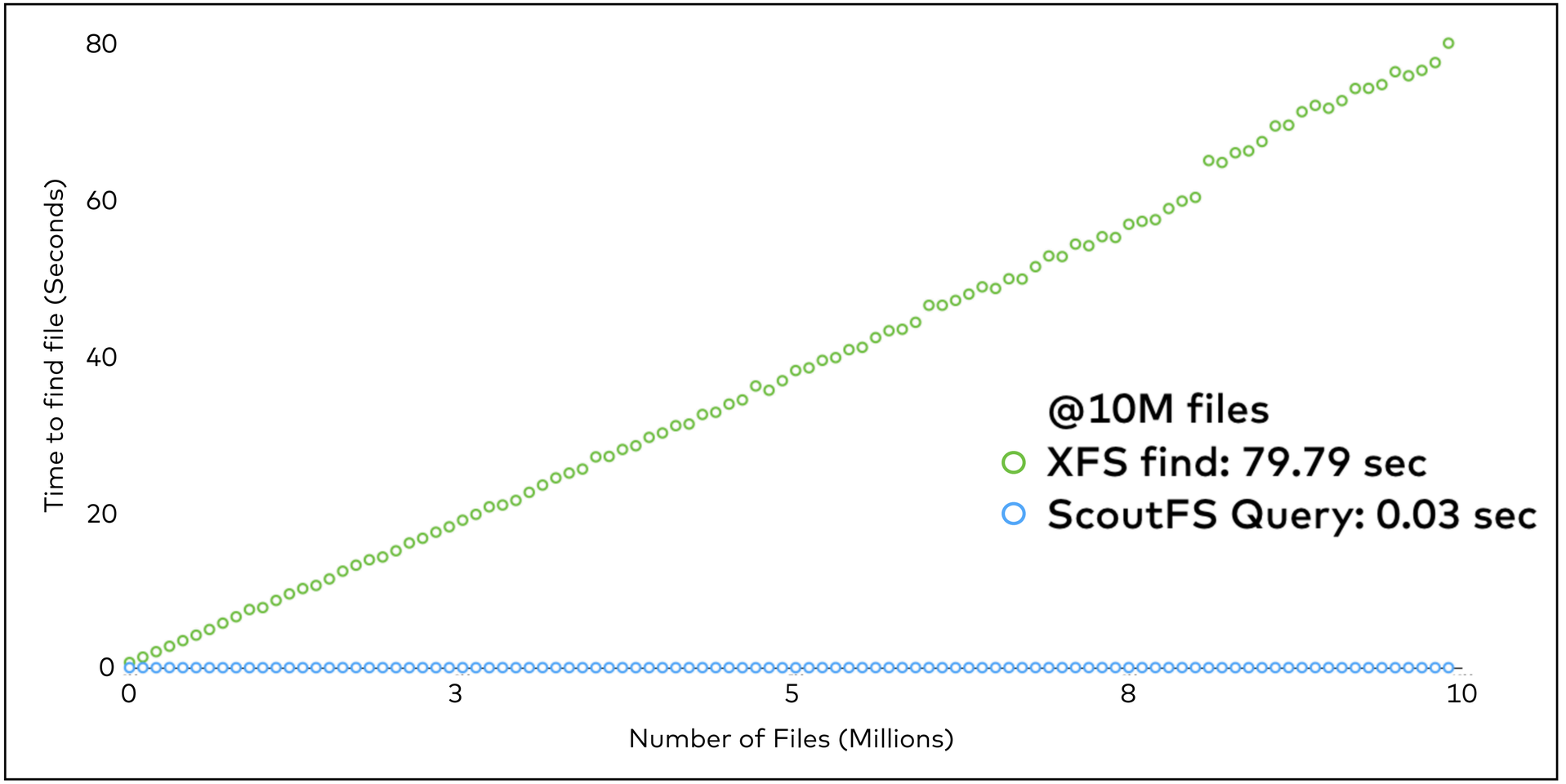
Data Integrity

ScoutFS Scalability

The Accelerated Query Interface (AQI)



AQI Performance



Eliminates the file scanning bottleneck

Announcement

Open Source Release

Versity

Officially released today as an open source project !

GitHub https://github.com/versity/scoutfs-kmod-dev

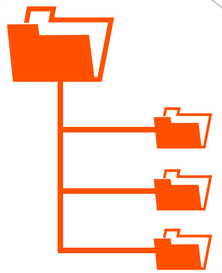
Website www.scoutfs.org

Scale Out Archive Manager

ScoutAM

Application is aware of node resources - spreads work

Parallel reads and writes to archive storage media



Supports partial file archive and partial file stage

Parallel within one file or multiple files across multiple hosts

Supports dump/restore from VSM 1.x + other HSM's

Designed to scale as object storage systems scale

Thank You

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@versitysoftware