



Rob Sims

12 STEP PROGRAM

Back

Step 1 – Apologize to those you've offended

SORRY

Step 2 – Admit your abuse

How many of
you are looking
to...

Replace
tape in your
backup?

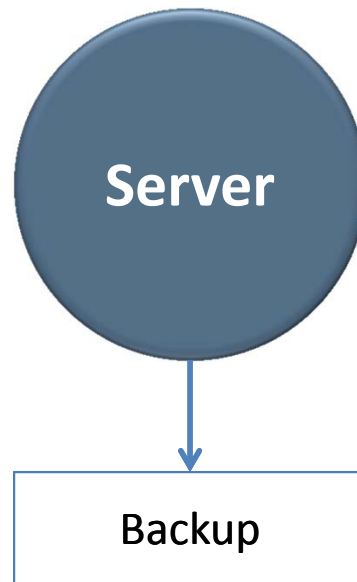


Step 3 – Put things in perspective

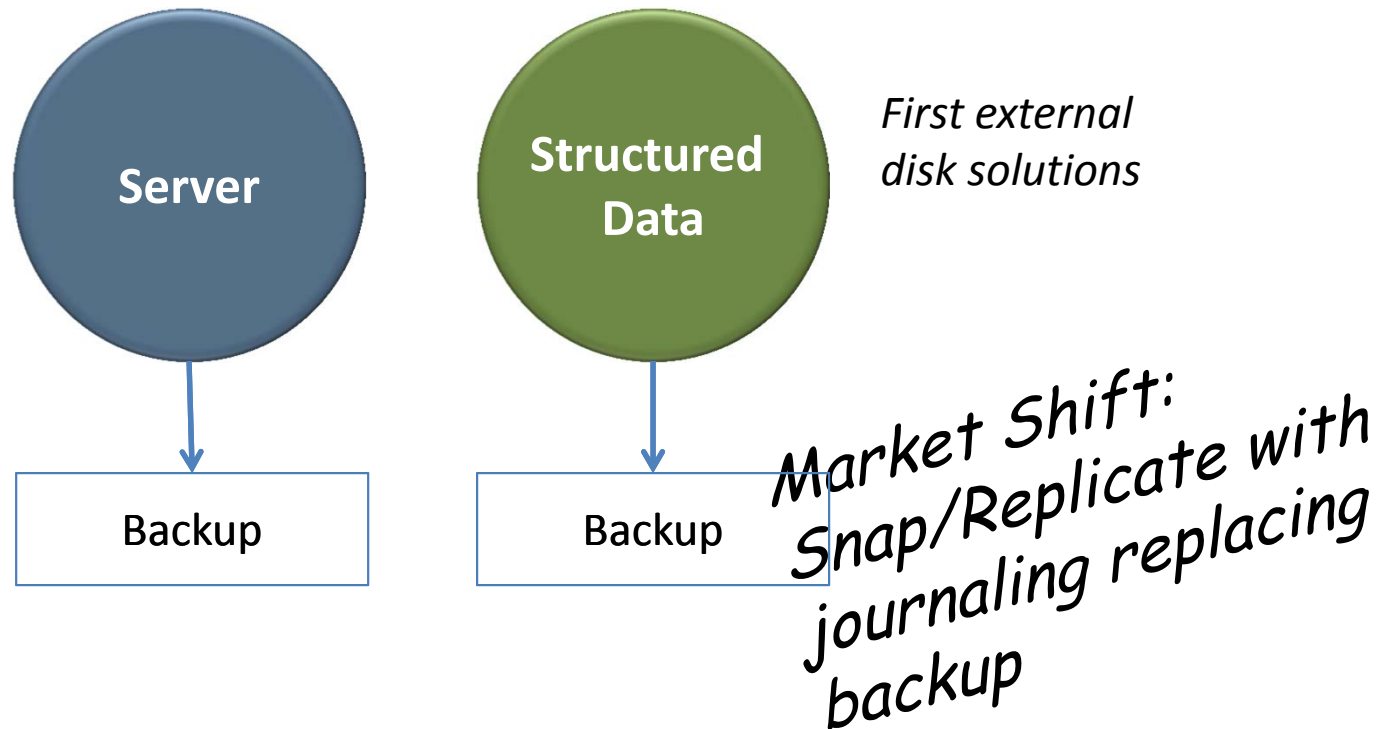
Where did the word
'Backup'
come from?

Step 3 – Put things in perspective

*There was no
external disk
storage*



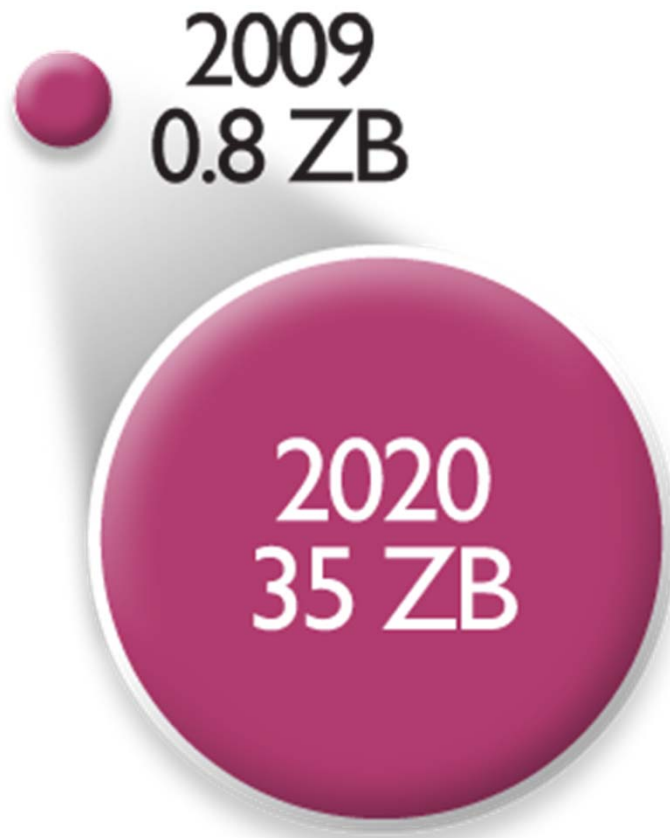
Step 3 – Put things in perspective



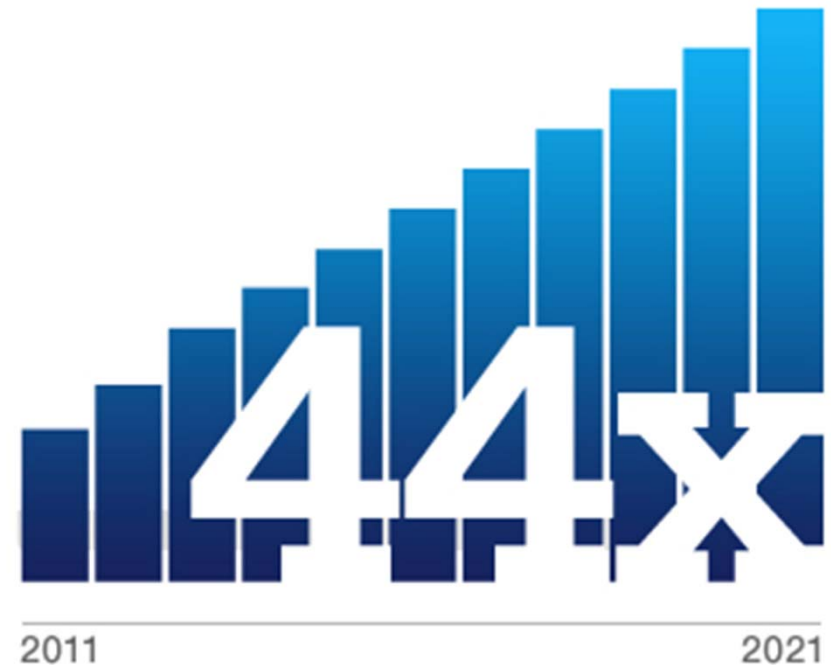
Step 3 – Put things in perspective



Step 4 – Understand your problem



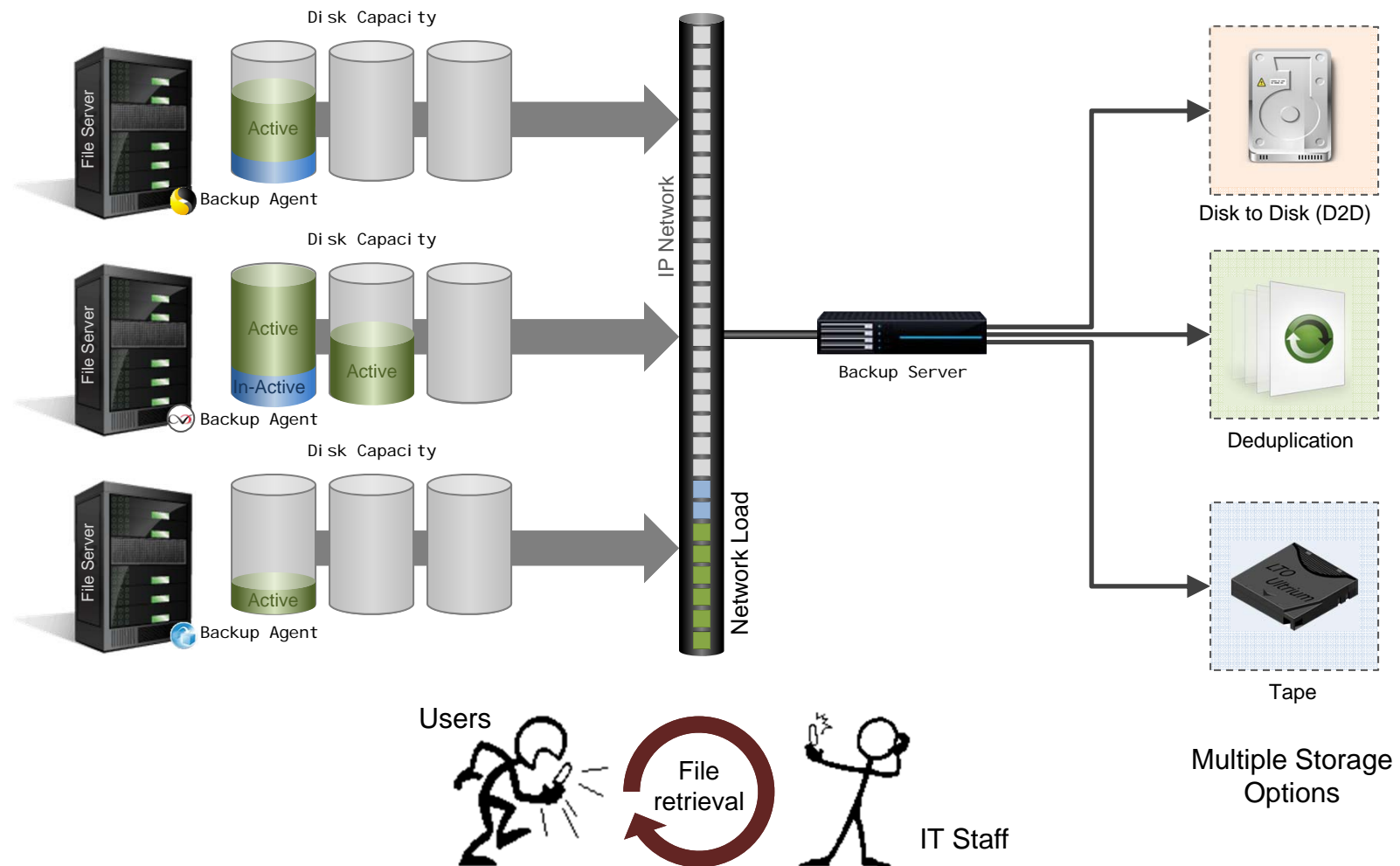
Data volumes are growing



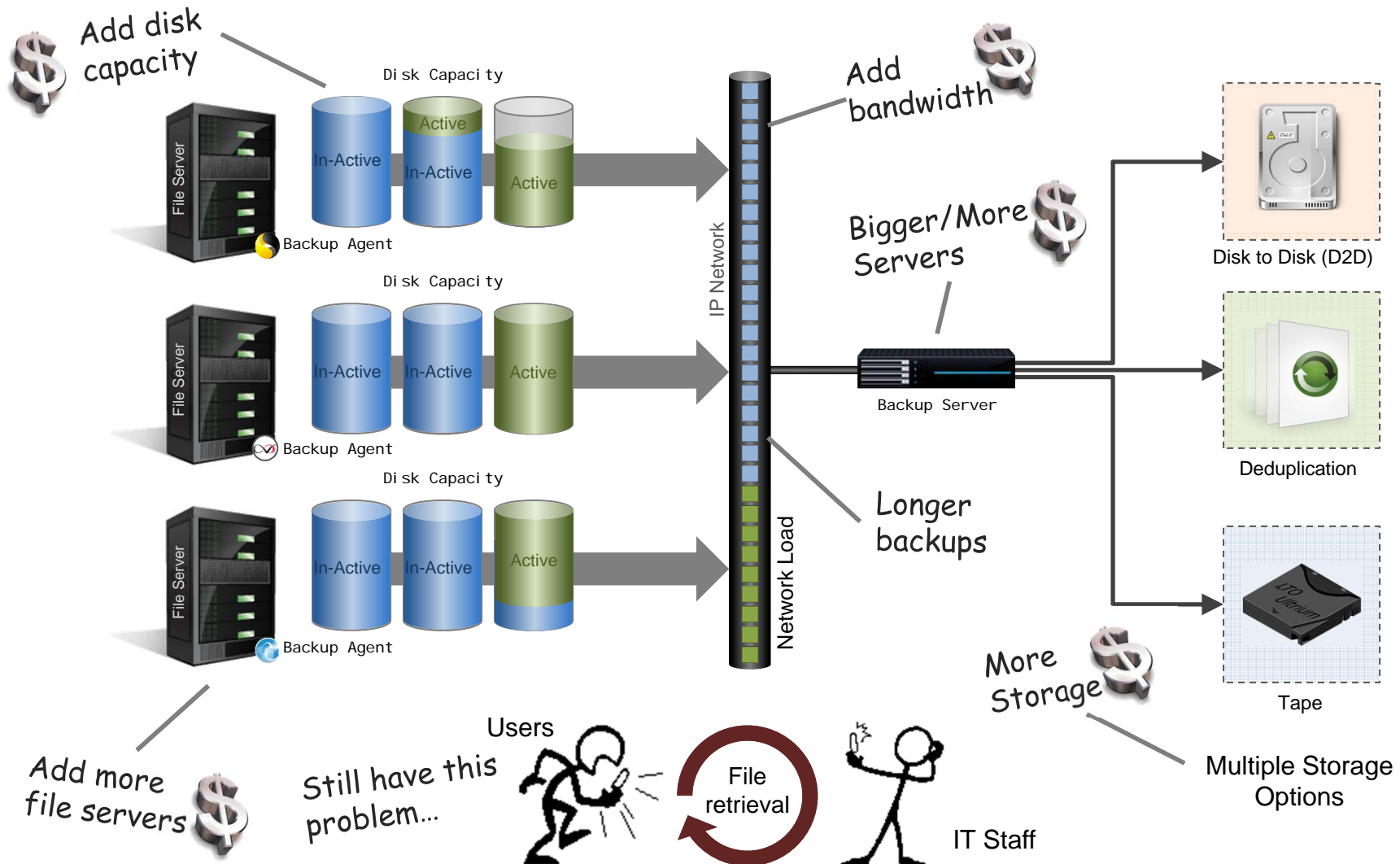
IDC predicts that between 2009 and 2020 digital data will grow 44 times to 35ZB, basically a growth of .8ZB in 2009 to 35ZB in 2020 for a CAGR of 44.99

Source: IDC's Top 10 Enterprise Server Predictions for 2011 (IDC #226698) webcast, January 25, 2011

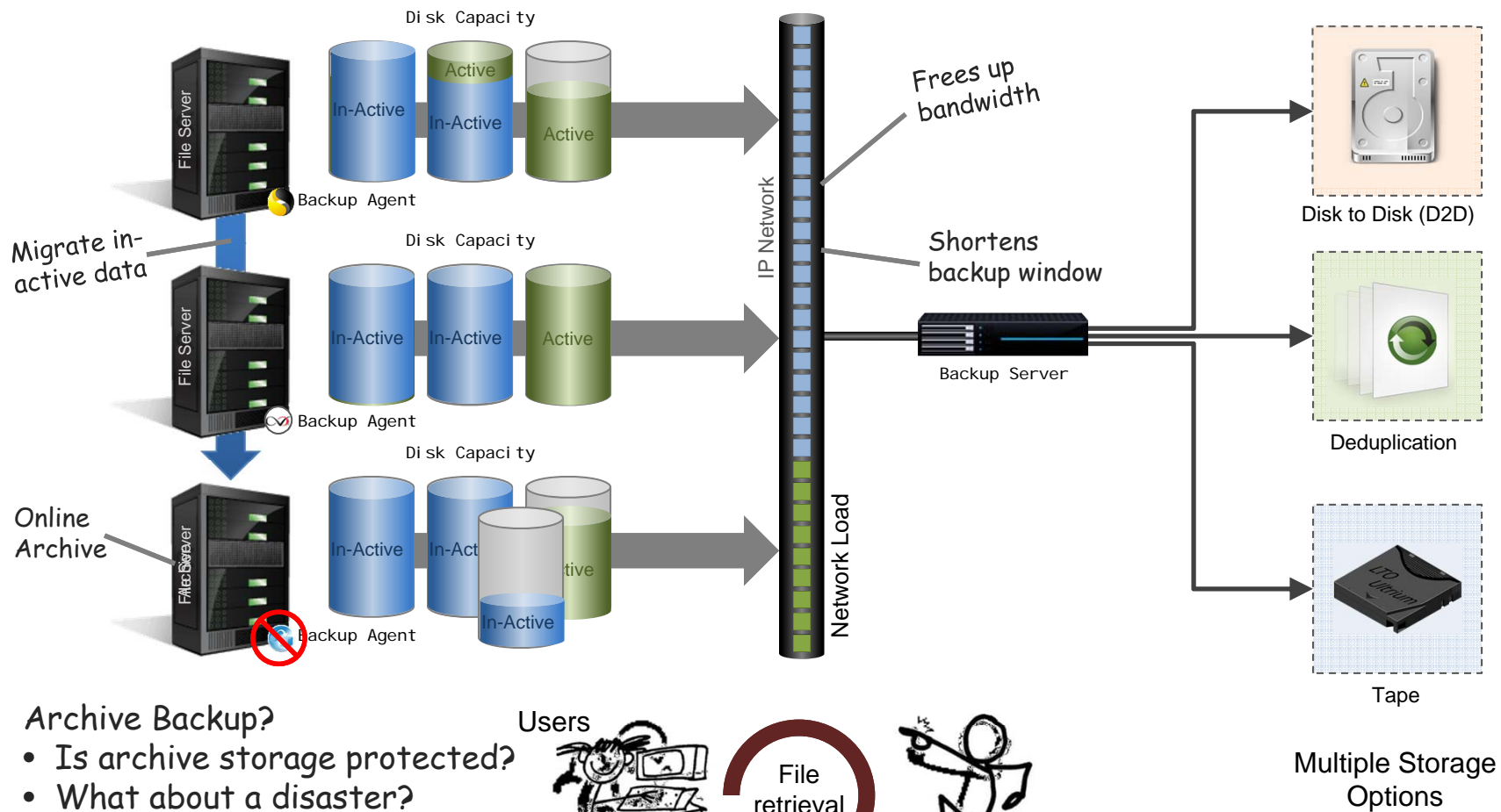
Step 5 – Facing the issue



Step 5 – Facing the issue



Step 6 – Find a better path



Archive Backup?

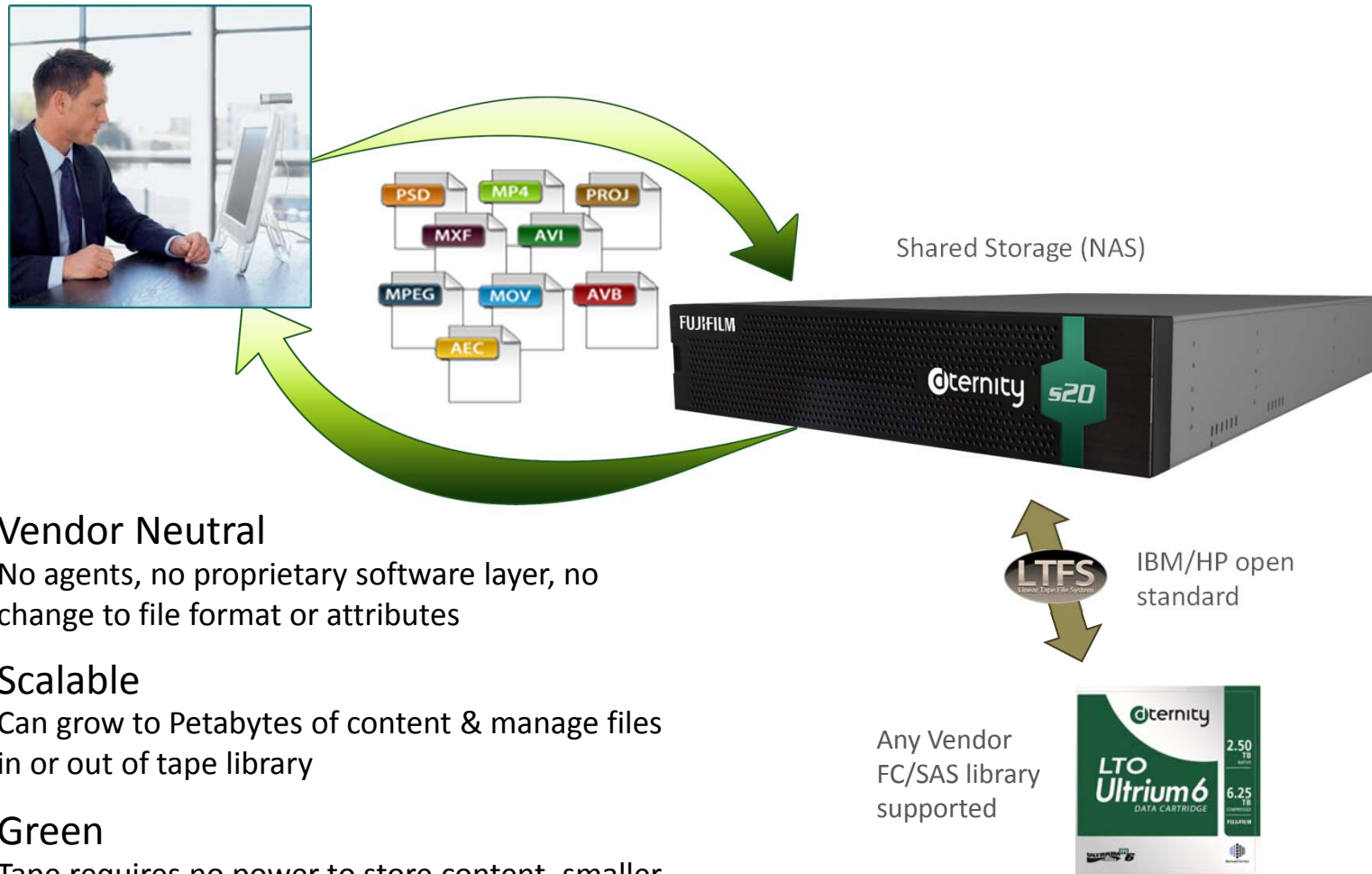
- Is archive storage protected?
- What about a disaster?
- Is power a concern?
- Is it really cheaper?

Users



IT Staff

Step 7 – Oternity is the answer



- **Vendor Neutral**
No agents, no proprietary software layer, no change to file format or attributes
- **Scalable**
Can grow to Petabytes of content & manage files in or out of tape library
- **Green**
Tape requires no power to store content, smaller footprint and minimal cooling needed

Step 7 – Dternity is Data Protection



Data Integrity

- Tamper checking
- LTFS check

Data Reliability

- HASH code per file
- Drive/Tape error correlation
- Self healing
- No Delete



Data Redundancy

- Multi-Copy (different media)
- Secure over wire replication
- Media export



Step 7 – @ternity is Secure

Grouping

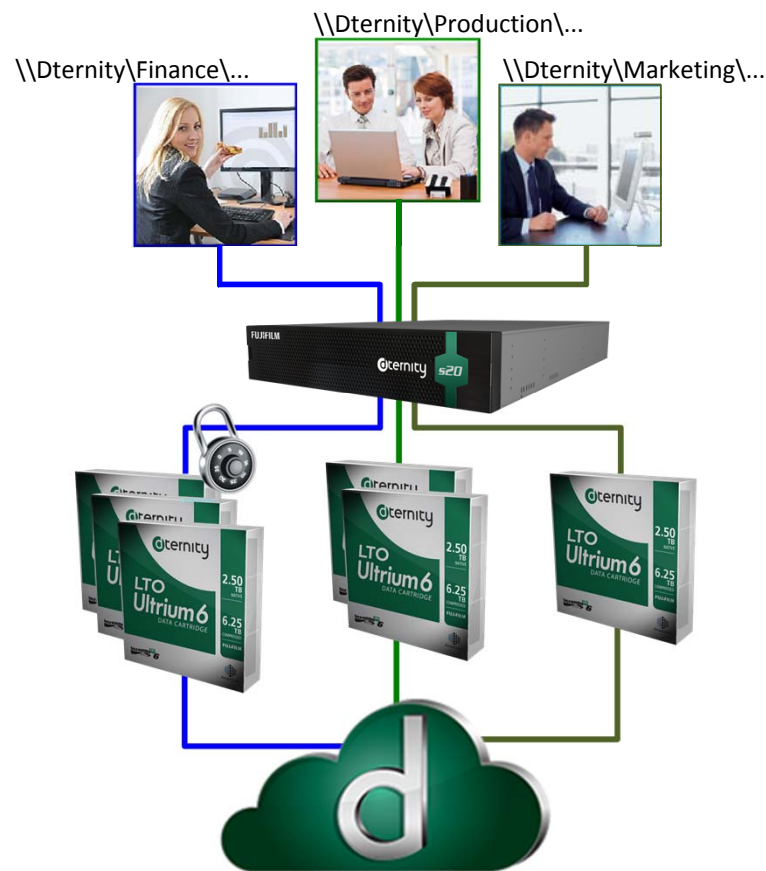
- By Share
- No comingling of data between shares

Data Encryption

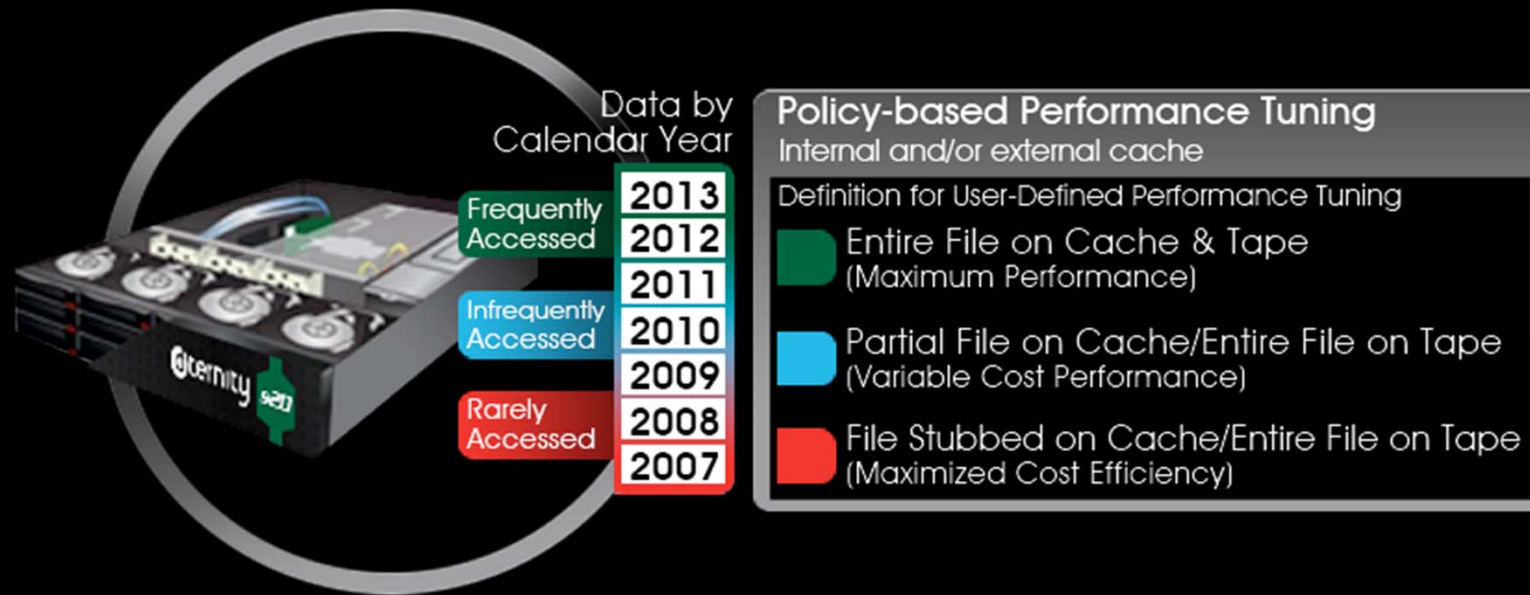
- Enterprise Key Server (embedded)
- Offsite & Outsourced Key sharing

System Access

- Active Directory
- Role-Based Access



Step 7 – @ternity optimizes your archive



Policy Managed Disk Cache

- Adjustable ingest store
- Partial file store
- Read back FIFO

Open file access API

- Pre-fetch files back to cache
- Status of files stored
- Optimized read sequencing

Step 7 – @ternity platforms

Up to

750 MB/s

s30 Platform

16 tape drives

Up to

330 MB/s

s20 Platform

8 tape drives

Up to

230 MB/s

s10 Platform

4 tape drives



s30 Platform

up to 1.6 Billion

s20 Platform

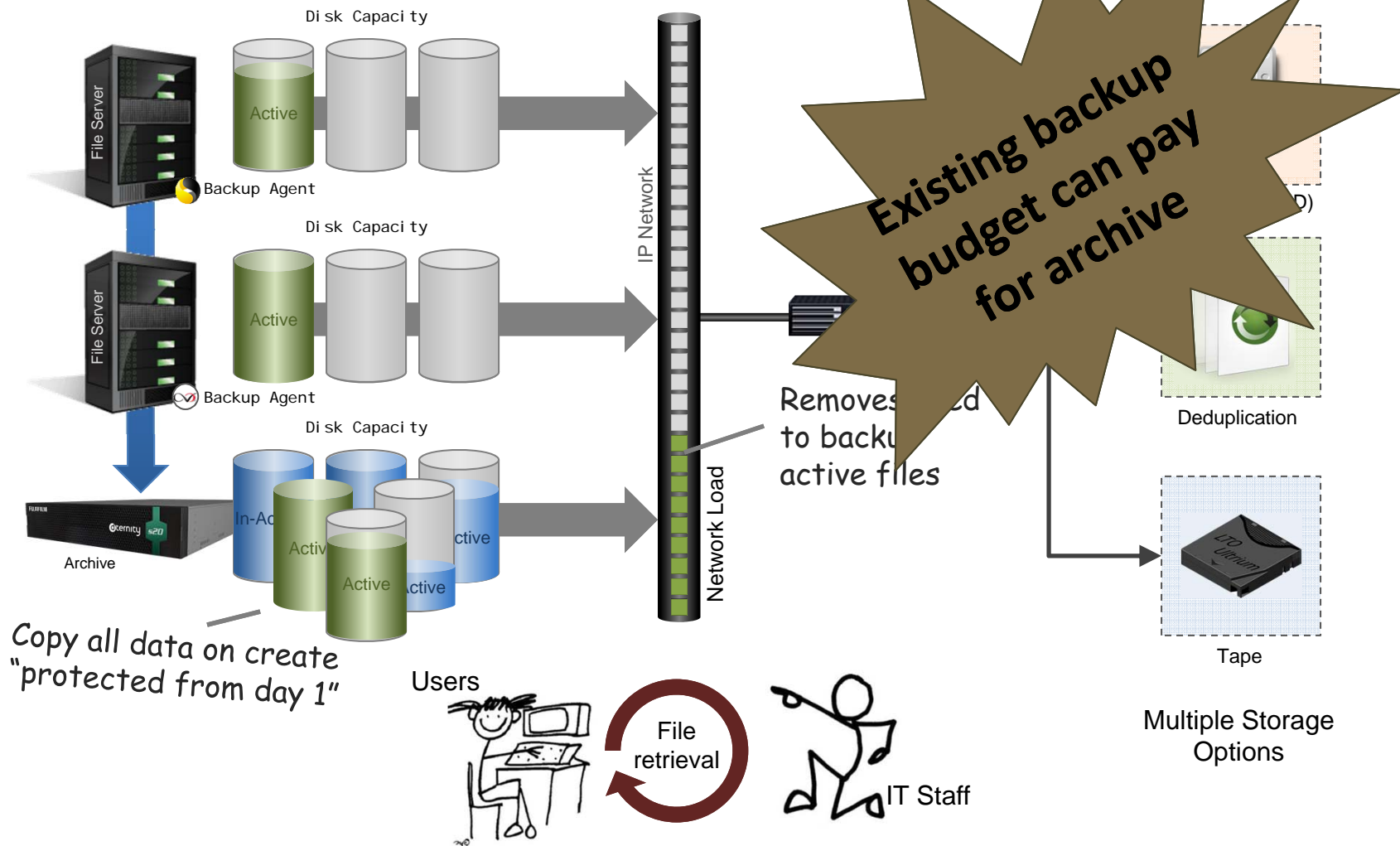
up to 800 Million

s10 Platform

up to 100 Million

Total Files Supported

Step 8 – Leverage dterernity



Step 9 – Lost in Translation

Step 10 – Dog ate this step

Step 11 – Aliens abducted this step

Step 12 – Stop Doing What You’ve Always Done



It feels sooooo
good...