# Storage (R) Evolution

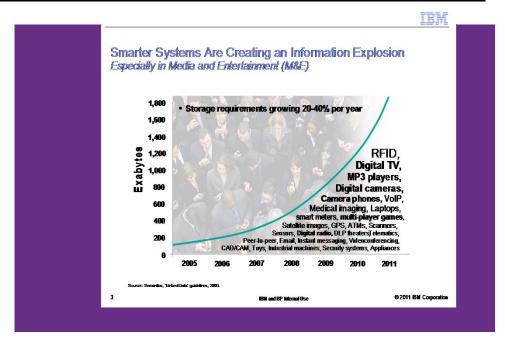




# Storage Evolution or Revolution

- Bandwidth is changing everything
  - Enables Data as an Asset

Rich Media & unstructured data driving growth

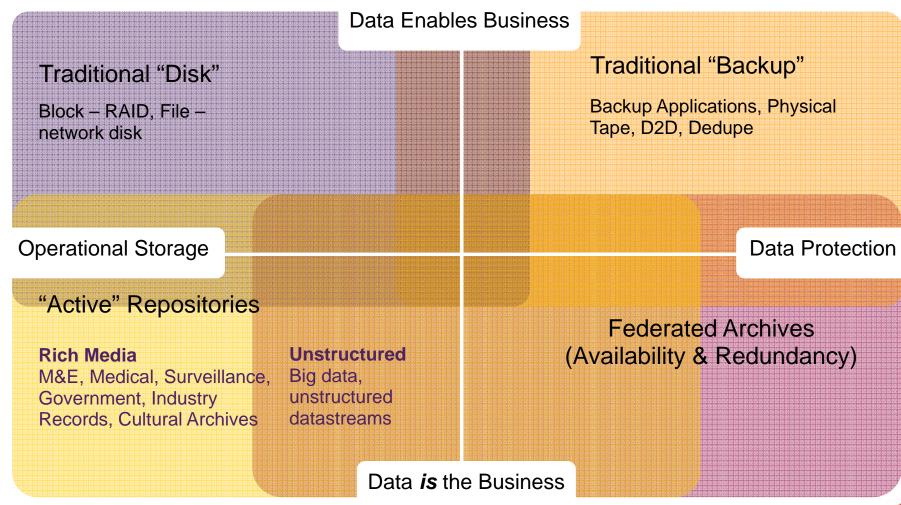


- Data as an asset is different
  - Traditionally, Data use as tool to run the business
    - Regulatory, compliance, disaster recovery for business critical data and processes
    - Value prop is technology to reduce cost of the tool
  - Data as an asset is stored for monetization
    - Entertainment, analytics, medical, surveillance, scientific
    - Value prop is technology to optimize value of data



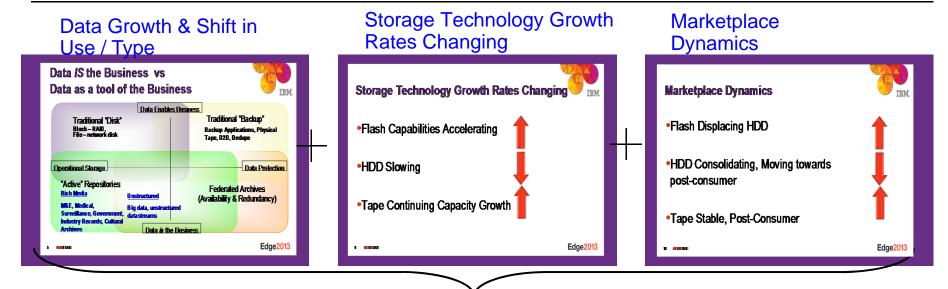


# Data IS the Business vs. Data as a tool of the business









- Scaling existing solutions break down
  - -i.e. can't keep doing what we've been doing
- Solutions designed for "Data is a Tool" don't work well for "Data is an Asset"
- Flexibility to adapt to changing requirements and shifts in storage technologies is critical





# The Problem with Traditional Storage

 Storage Systems have been traditionally defined by storage technology

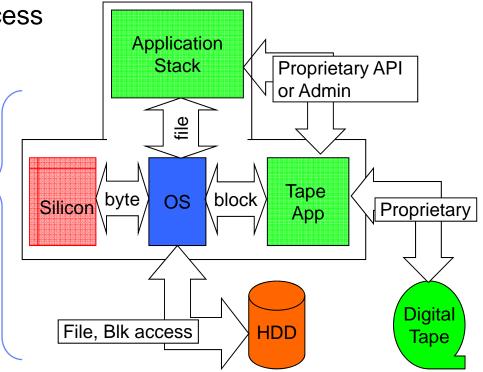
DRAM for random byte access

Hard disk for random block access

Tape for sequential streaming

Complexity in stitching together to satisfy requirements leads to custom & proprietary solutions



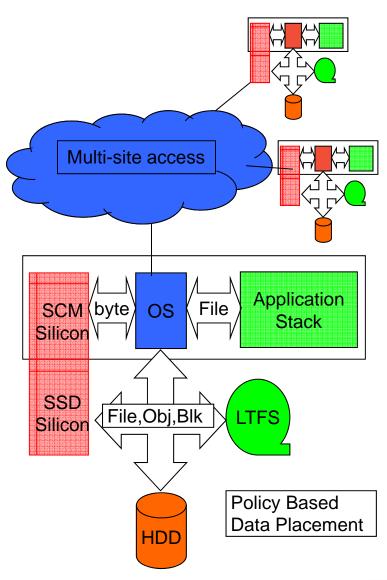






#### The Solution

- A single tiered storage system managing storage technologies seamlessly
- A single universal namespace for all your file data, regardless of online, offline
- Policy based placement of data
  - Optimal data placement for cost and performance
- Scalable, low cost
- Open, non-proprietary, cross platform interchange

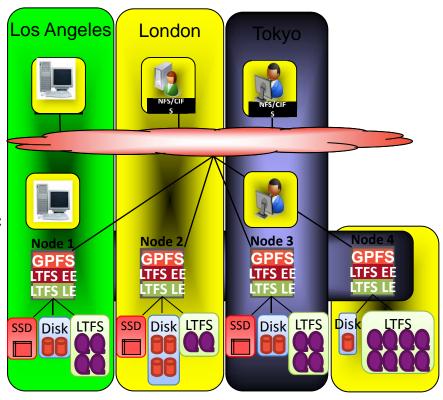






## LTFS Enterprise Edition (EE) Overview

- Enterprise Edition software enables IBM tape libraries to replace tier 2/3 disk storage in GPFS-based environments
- Improves the efficiency and cost effectiveness of tiered storage
  - LTFS EE creates tiered access storage with tape at 1/5<sup>1</sup> the cost of an equivalent disk-based tiered storage environments

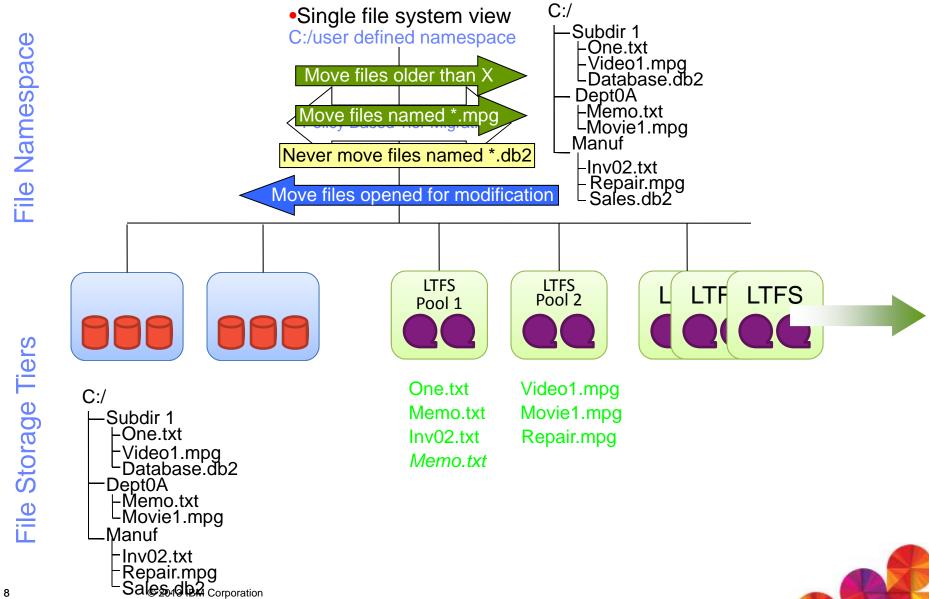


¹based on a list price comparison of a 500TB TS3310 tape library + 1 GPFS license and 1 LTFS EE license compared to a
 DCS3700 hardware and annual maintenance





### LTFS Enterprise Edition



# Thank You

