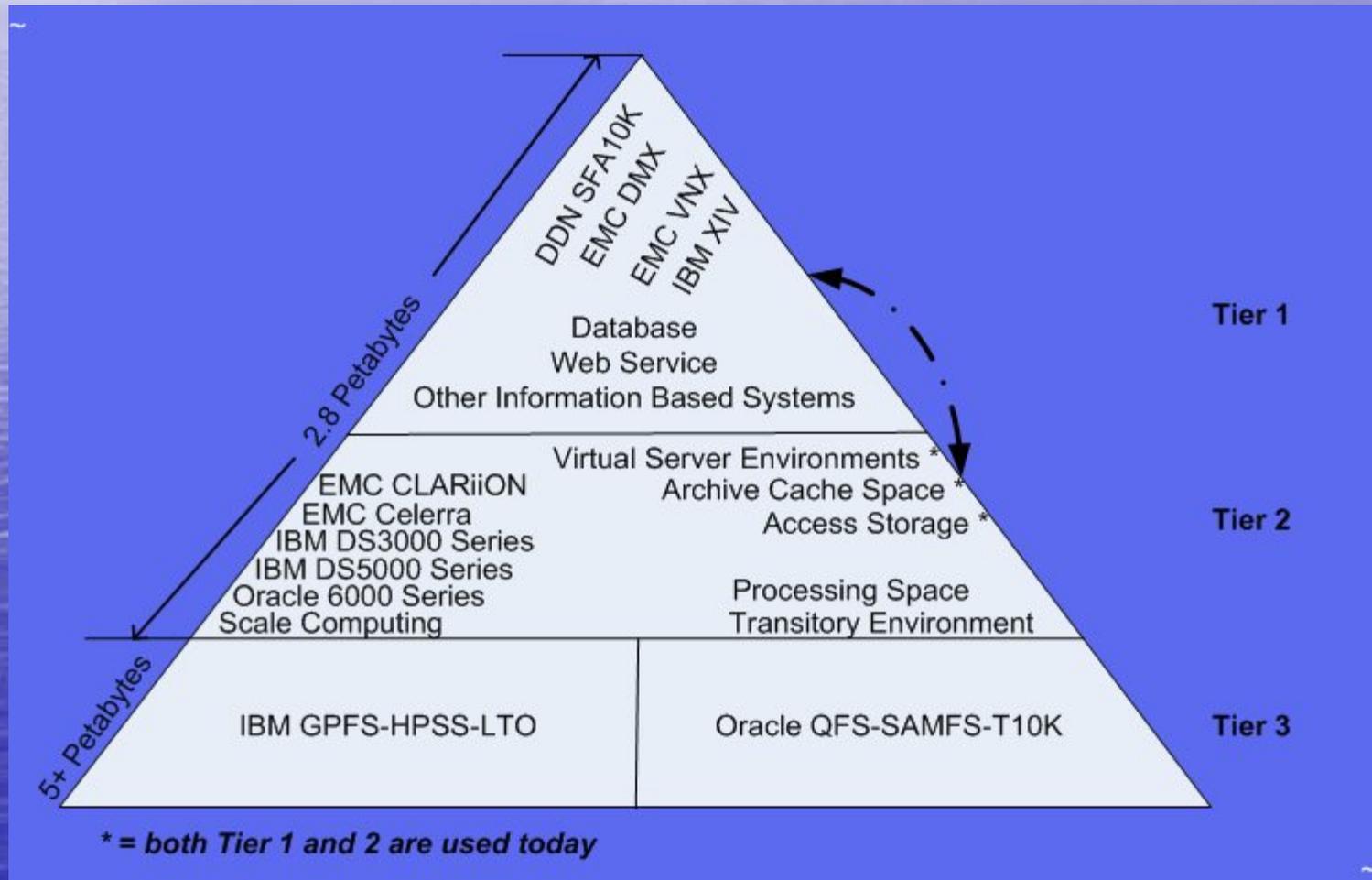


# Library of Congress Storage Environment

Presented by:

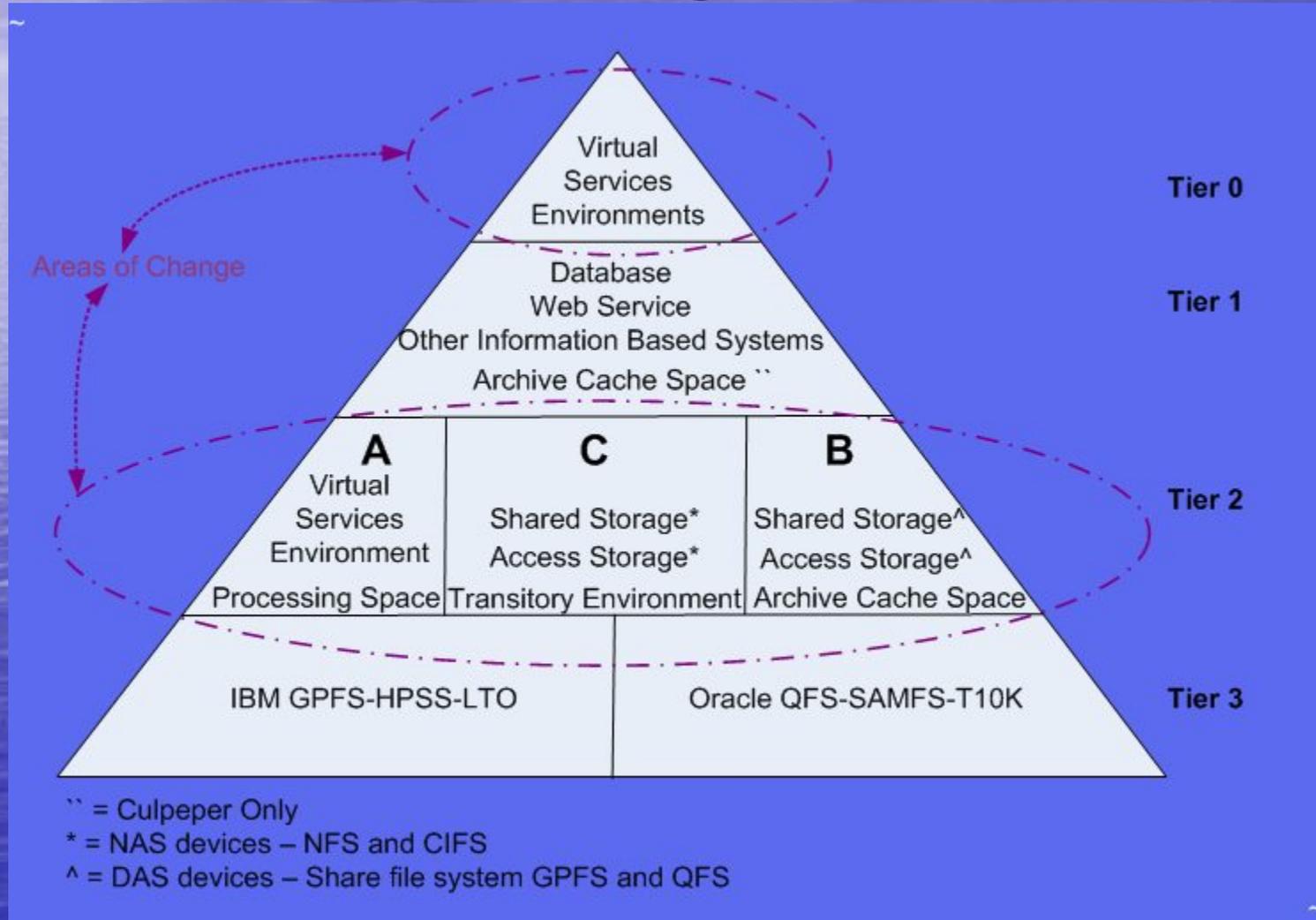
Carl Watts  
Information Technology Specialist  
Enterprise Server Engineering

# LC Storage Environment [Today]



- Storage changes are needed to support
  - Internal and external digitization efforts
  - Receipt and acquisitions of digital collections
  - Born digital submissions
  - Dissemination of digital materials
  - Virtualized server and desktop environments

# Near Term Changes



# Environment Changes

- Add Tier 0
  - SSD for High Transaction Environments
    - VM
    - VDI
    - Indexing
- Changes in Tier 2
  - Segmenting Tier 2 storage into 3 sub-tiers
    - A – Defined QoS FC Attached (i.e. EMC CLARiiON)
    - B – FC Attached Bulk Storage
    - C – Network Attached Bulk Storage
  - Reduce the acquisition cost by 75% (less than \$1K / TB)

# Other Near Term Changes

- Adding Storage Resource Management
  - improve storage monitoring and management
- Heterogeneous Global Namespace
  - agency wide abstraction of all file information across all systems
- Fibre Channel over Ethernet (FCoE)
  - one fabric for all data movement

Migration

Migration

Migration

# Thank You

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