

# Flash in Enterprise Storage Systems

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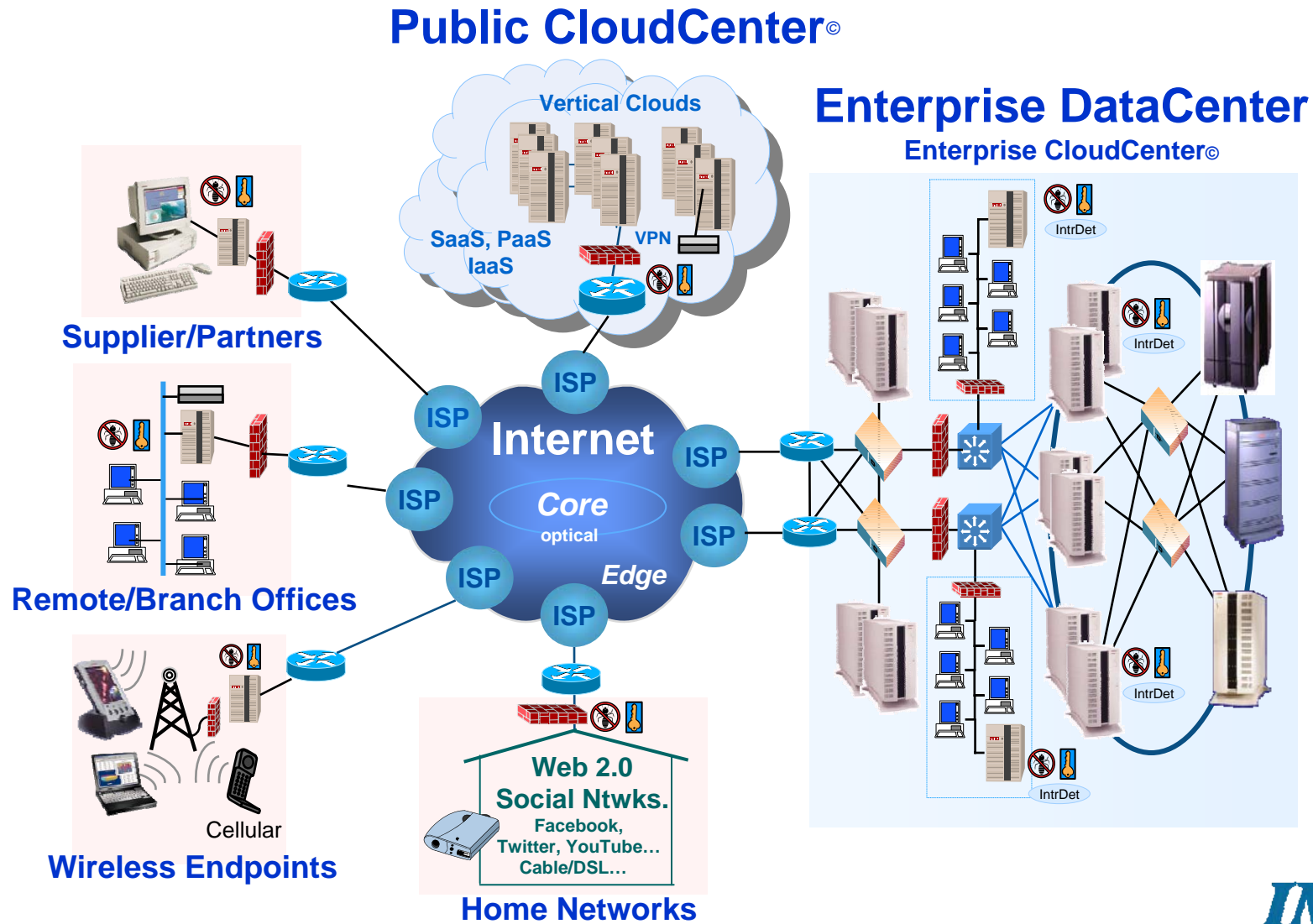
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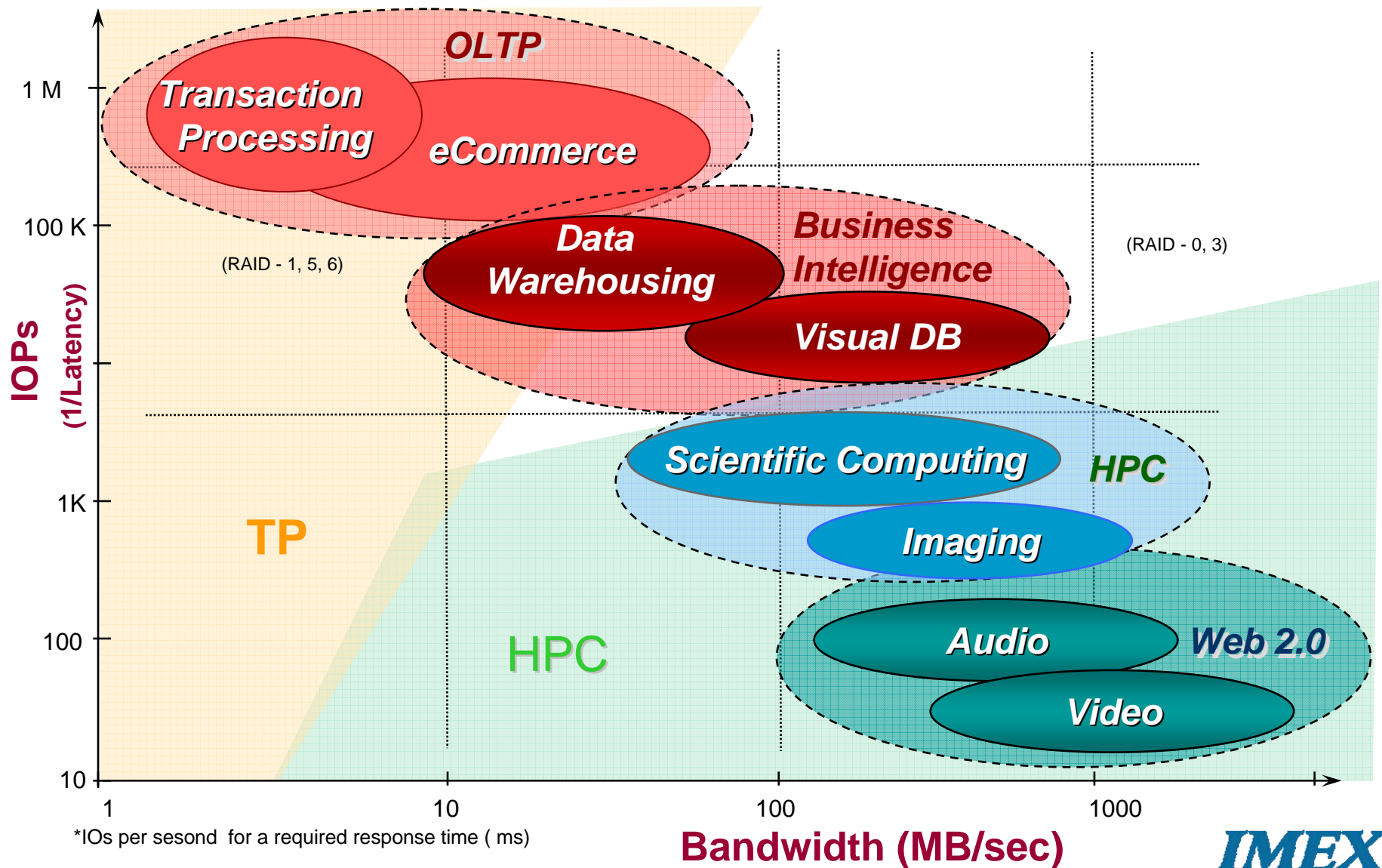
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# ► Enterprise and Cloud Infrastructure (Secure, HA, Interoperable)



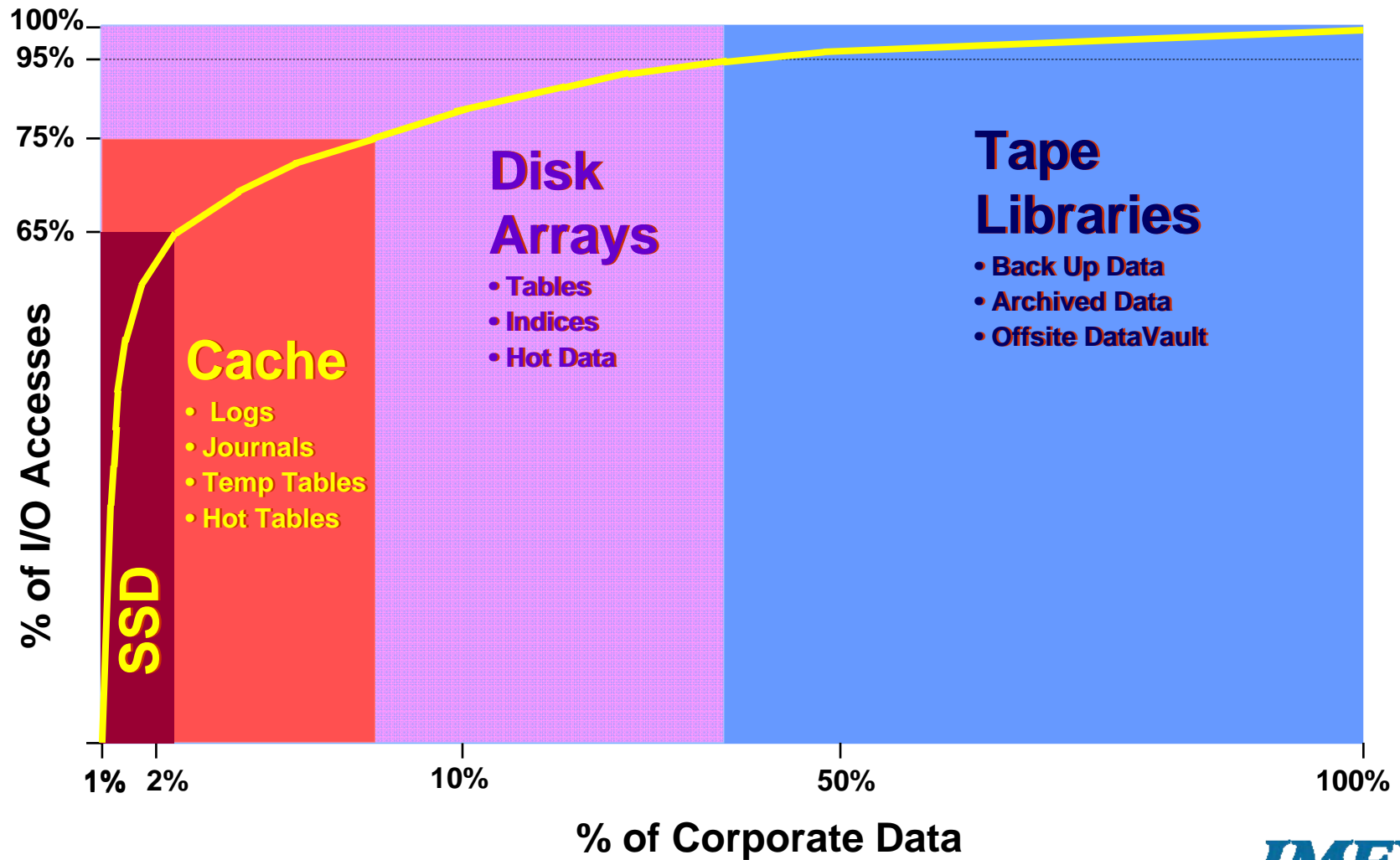
# Market Segments by Applications



\*IOs per second for a required response time (ms)

# ► Corporate Data Usage

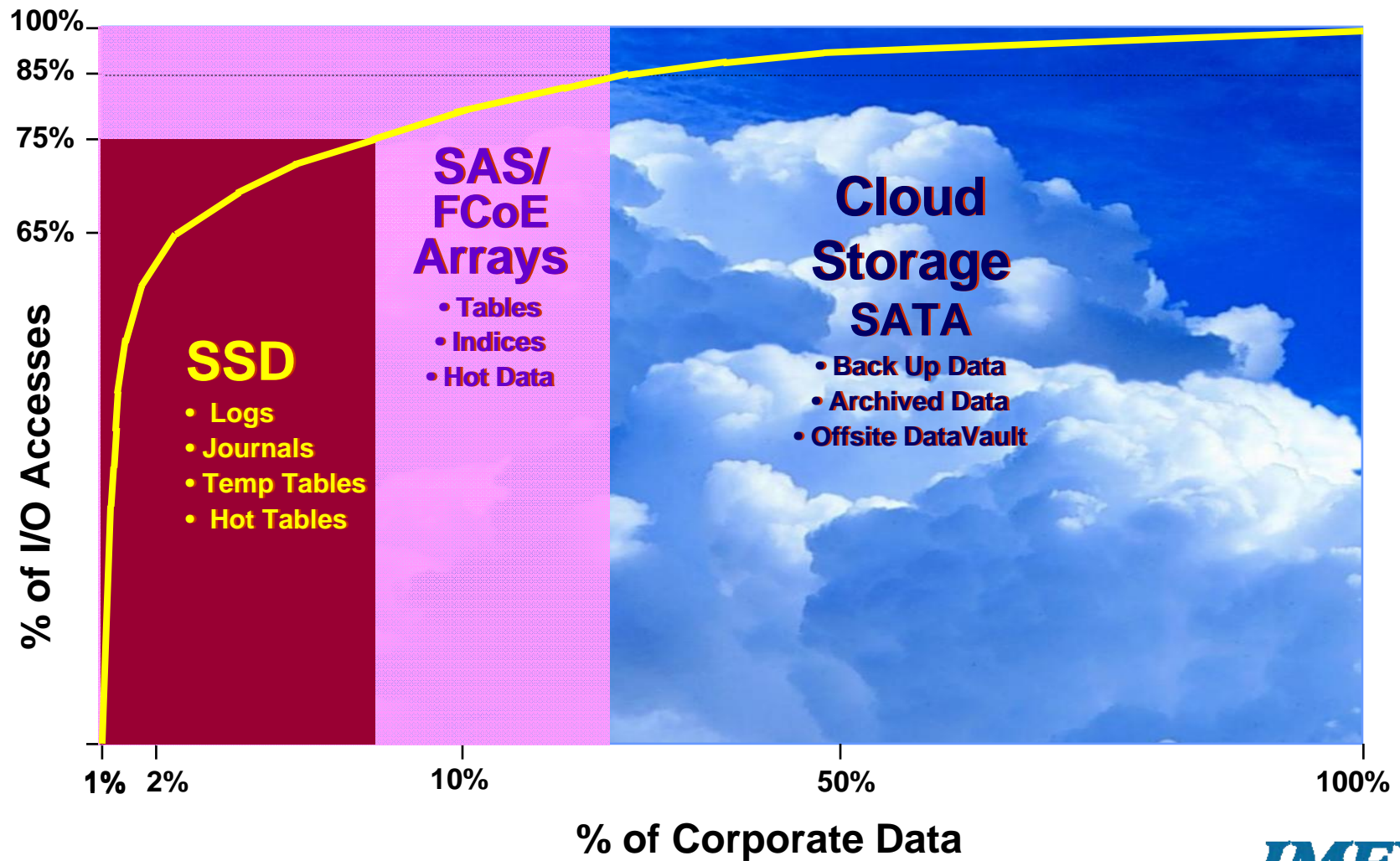
## I/O Access Frequency vs. Percent of Corporate Data



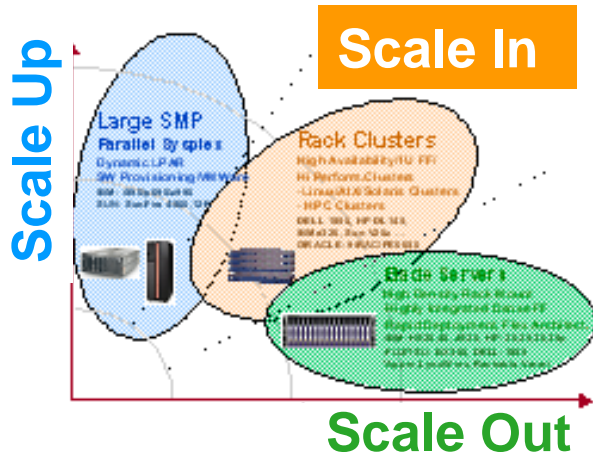


# ► Corporate Cloud Storage Usage

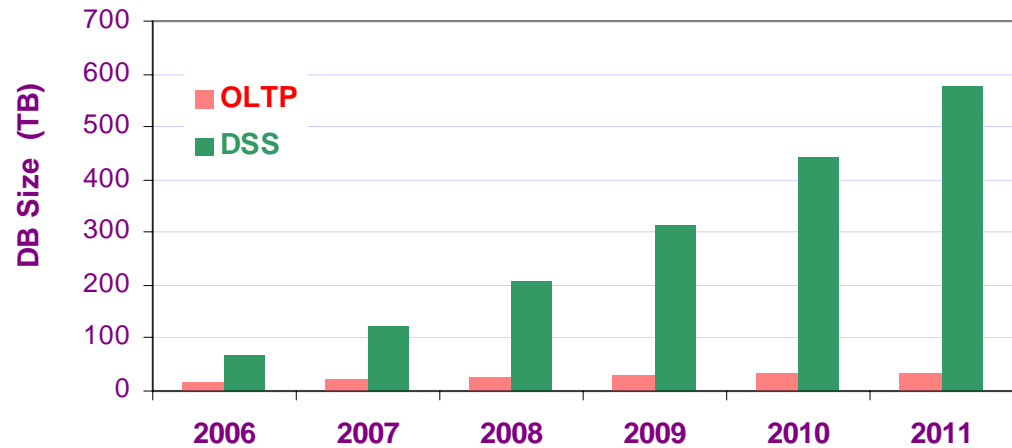
## I/O Access Frequency vs. Percent of Corporate Data



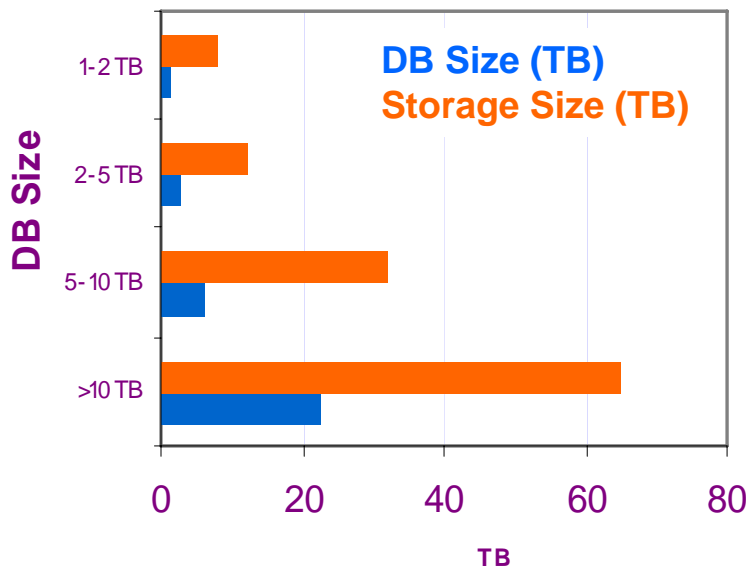
# Rise of DB-in-Memory for BI / DataWarehousing



Large DB Size Growth by Market Segment

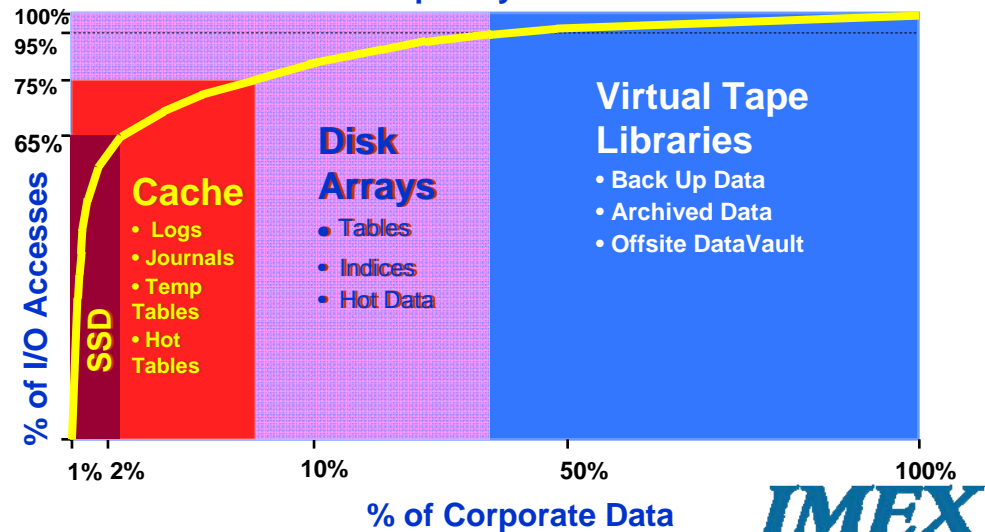


Storage Usage vs DB Capacity



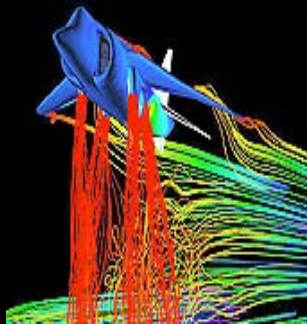
Corporate Data Usage

I/O Access Frequency vs. Percent of Data

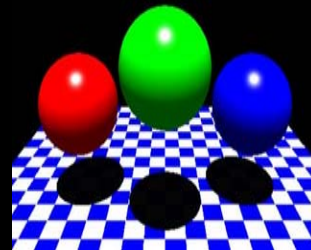
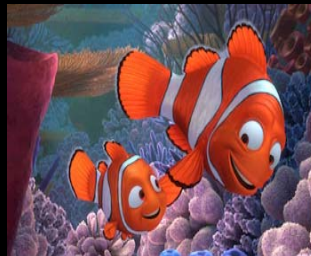


# HPC: Academia > BioMed > Wall St > Hollywood

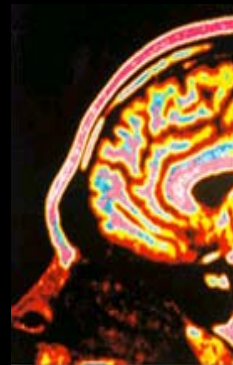
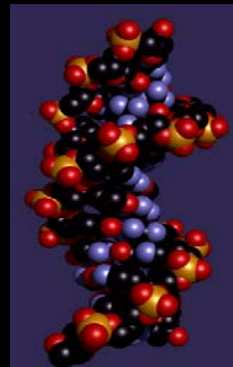
Earth Resources  
Oil & Gas ...



Commercial  
Visualization



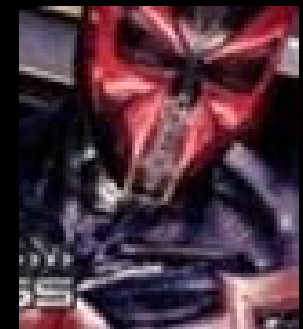
Bioinformatics  
& Diagnostics



Decision Support  
- Hedge Funds ...



Entertainment-  
VoD / U-Tube



➤ 100+ Teraflops

➤ Throughput : 100 GB/s

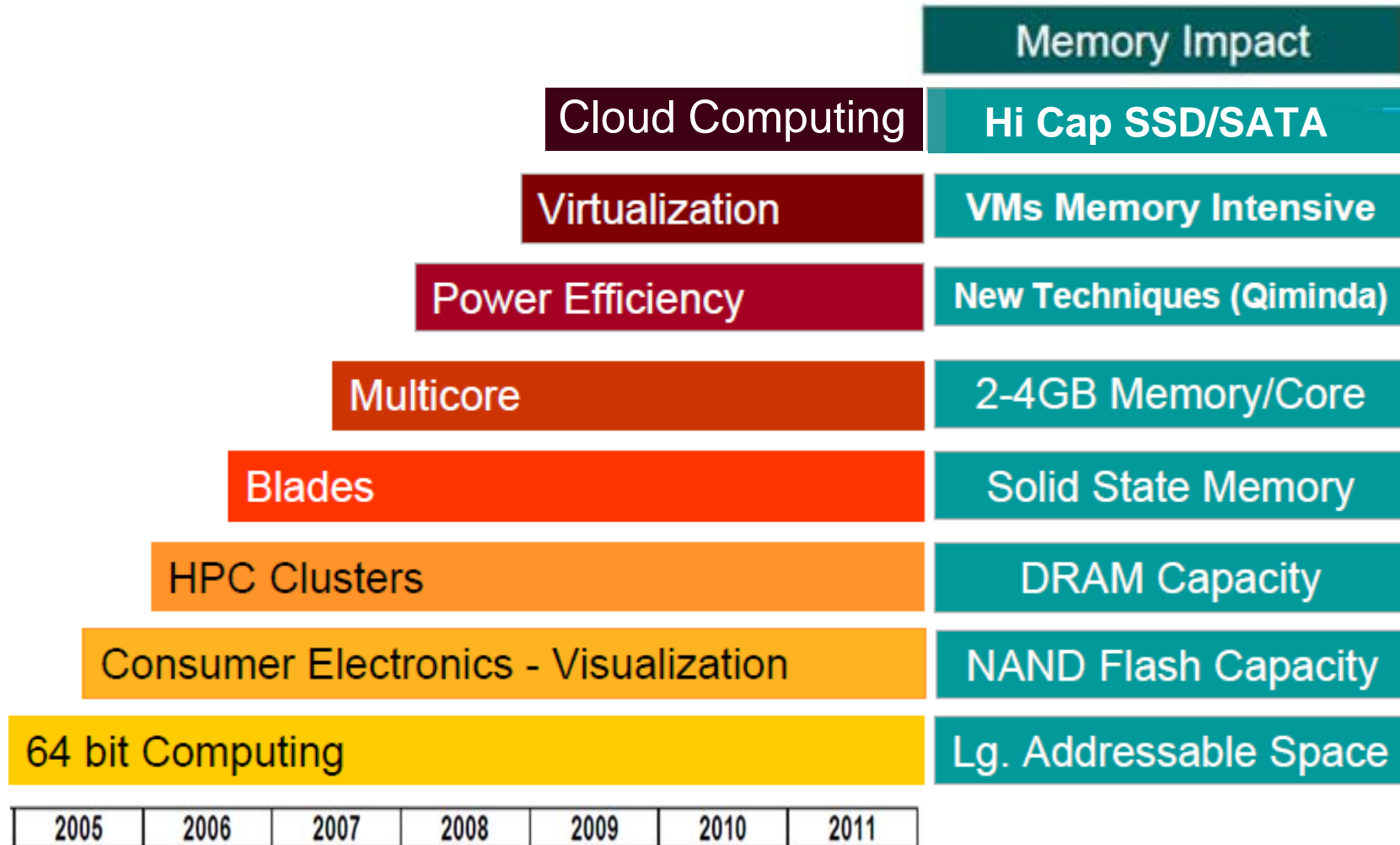
➤ Rendering (Texture & Polygons)

➤ Throughput : 1.2 GB/s

➤ Data rate & capacity

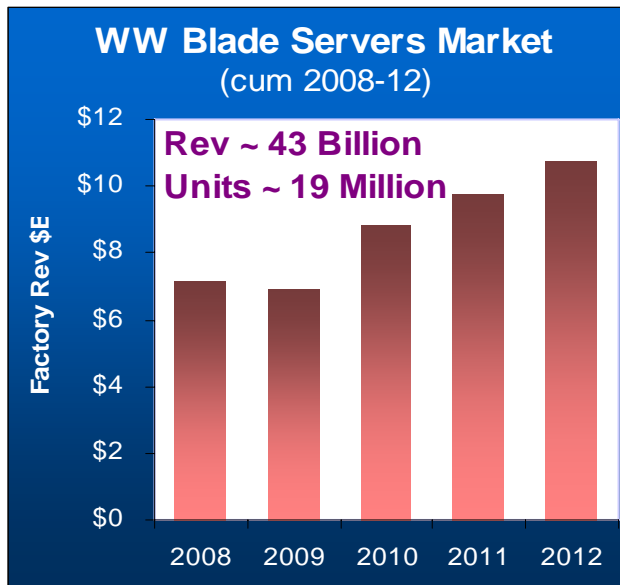
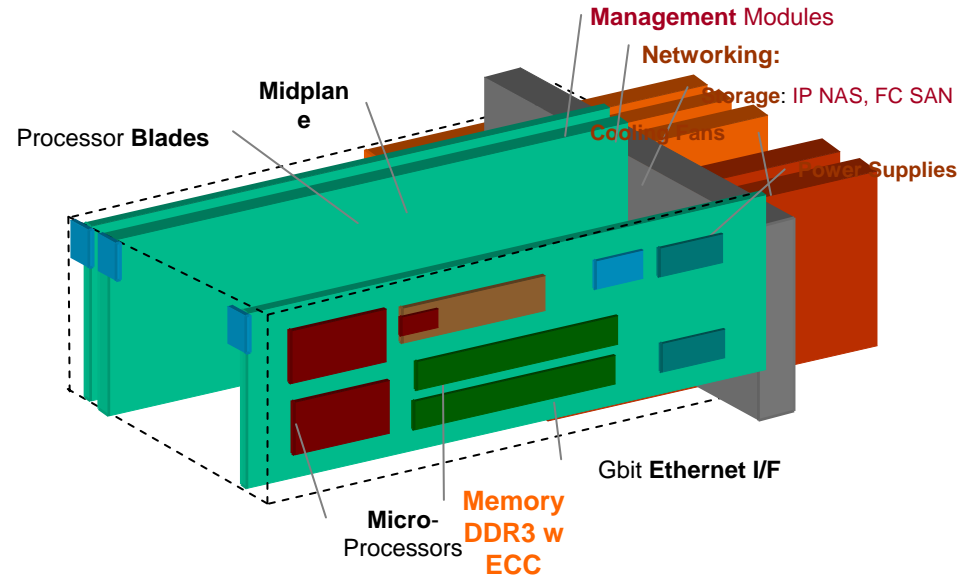
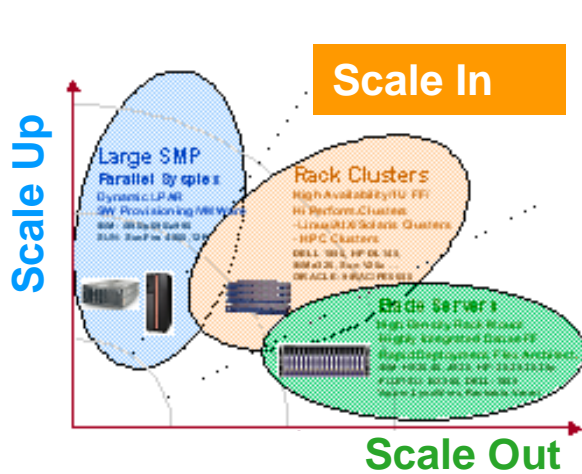
➤ Throughput : DSL/Cable

# ▶ Computing Dynamics – Memory Impact

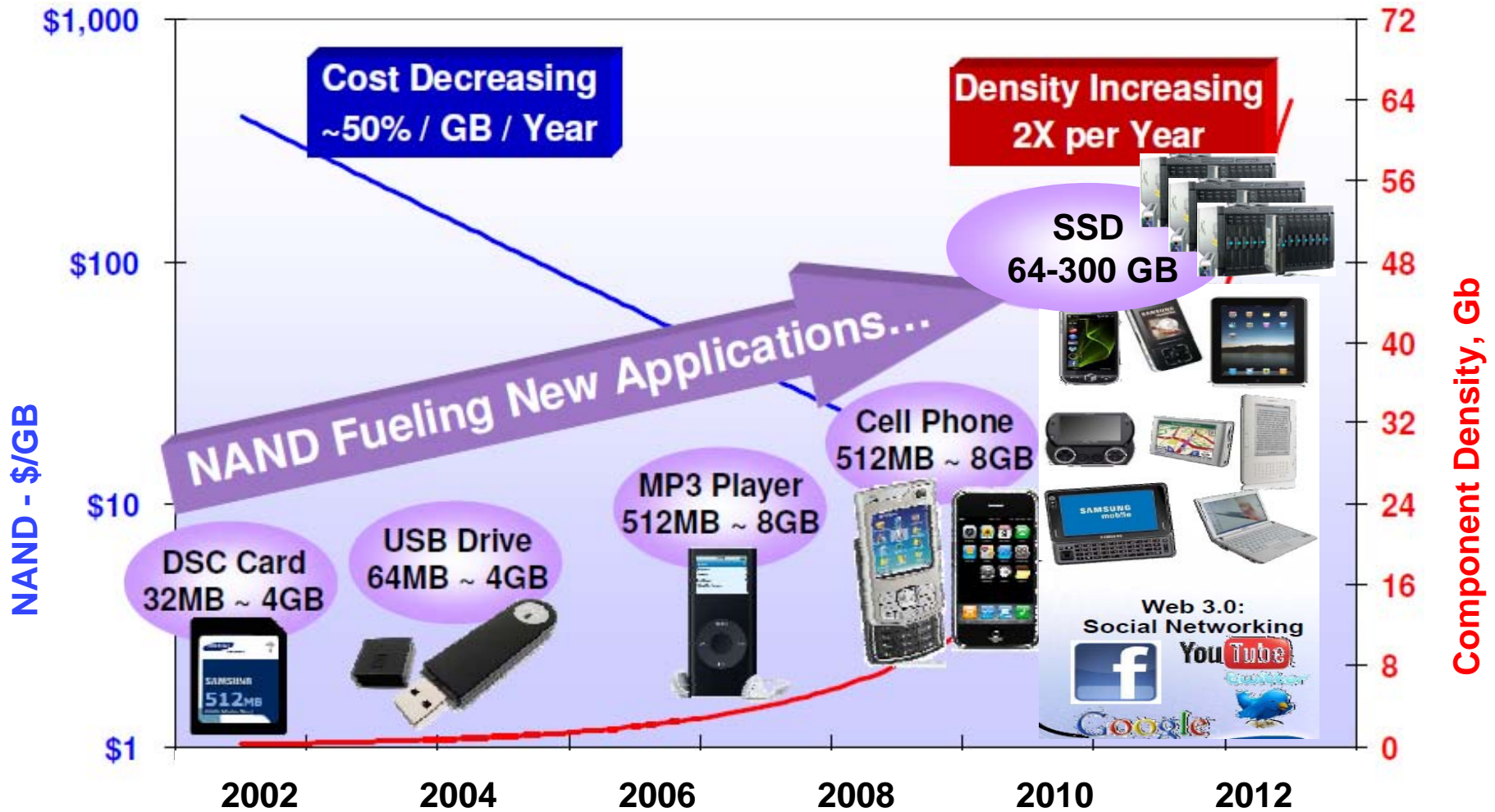




# Blade Servers – On a Fast Growth path



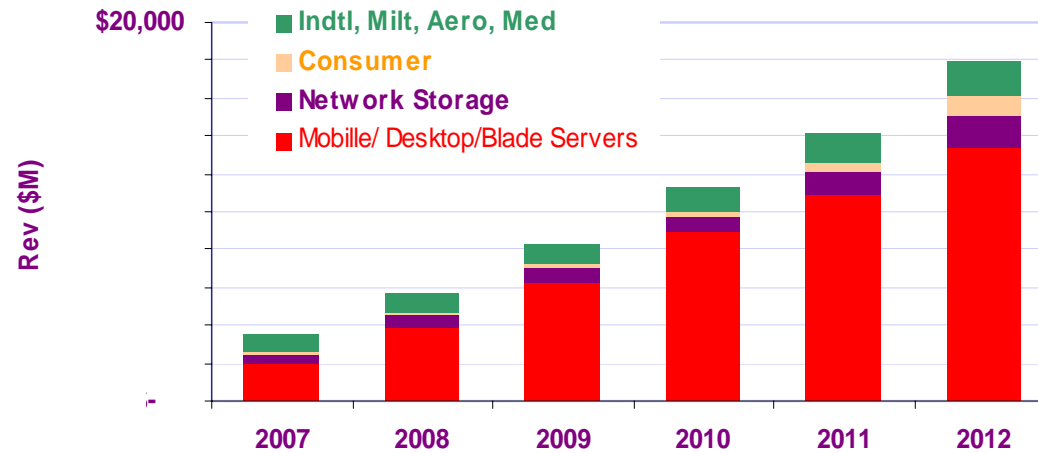
# ► NAND: Enabling Consumer to Enterprise Mkts



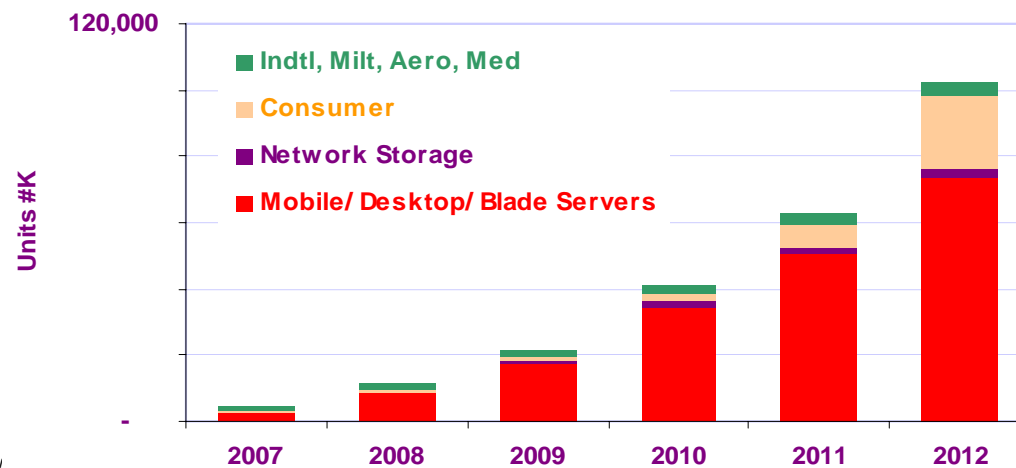
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# SSD Market Forecast by Application

## Solid State Drive Revenue Forecast



## Solid State Drives Unit Forecast



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