

Flash in Enterprise Storage Systems

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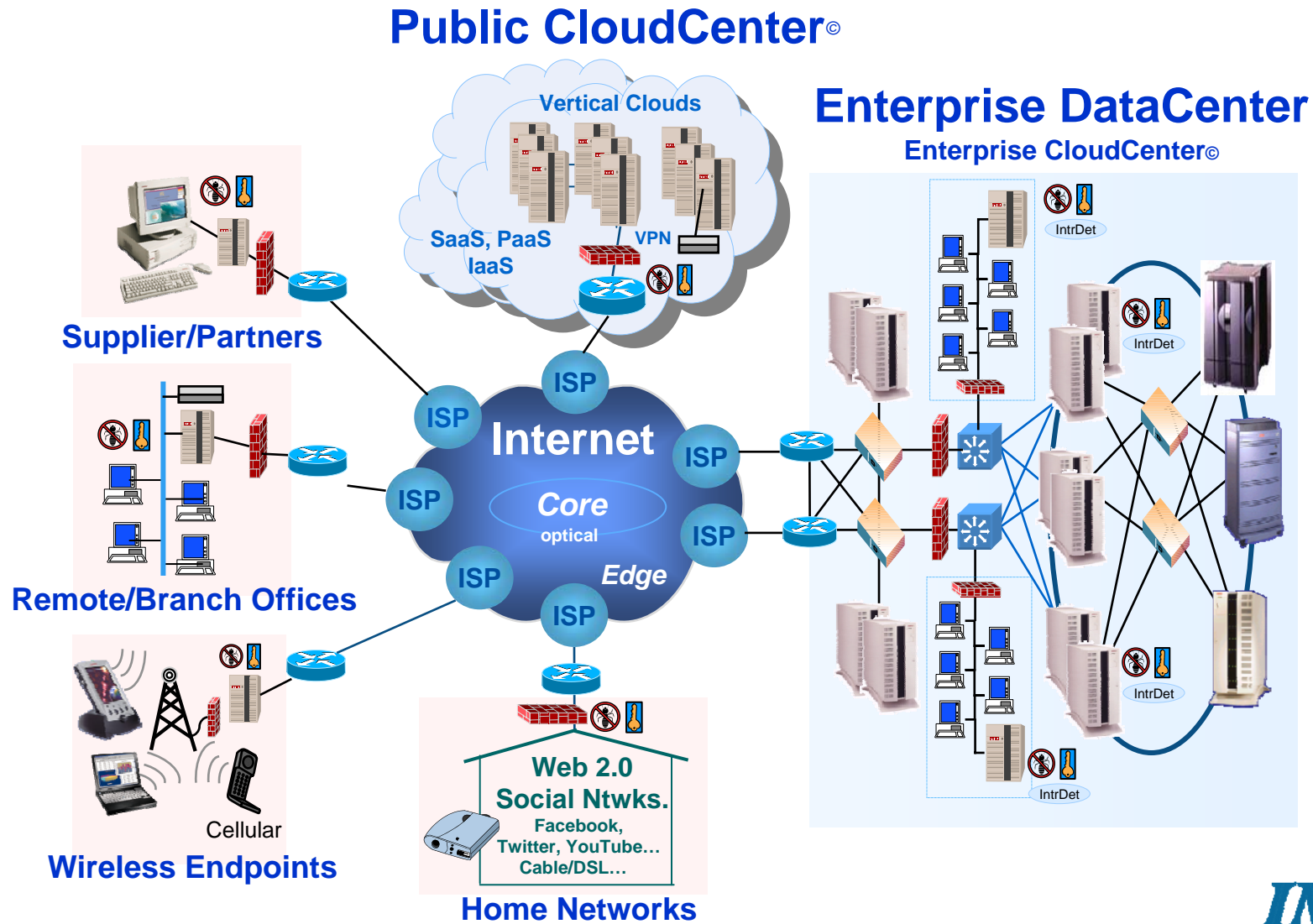
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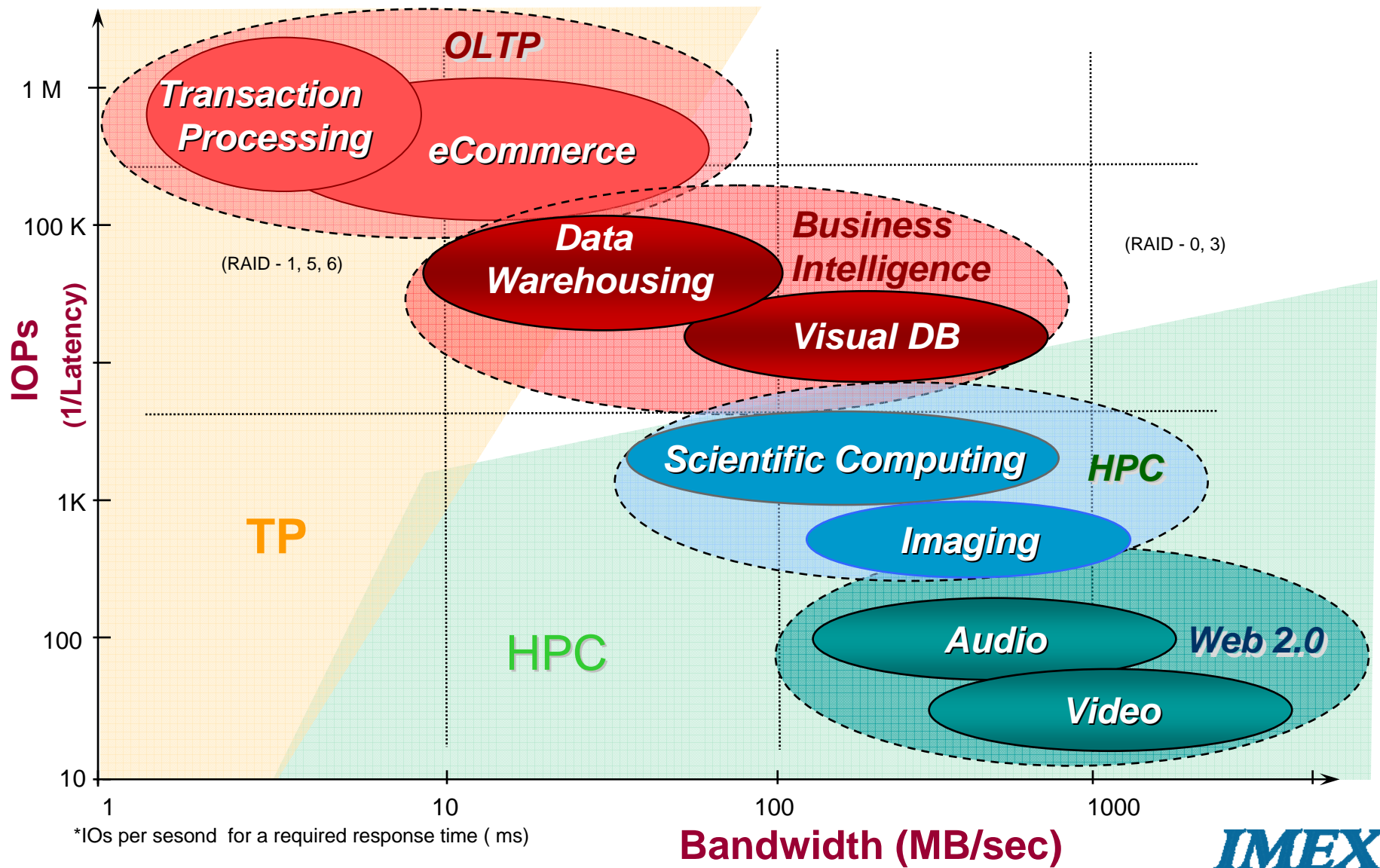
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► Enterprise and Cloud Infrastructure (Secure, HA, Interoperable)



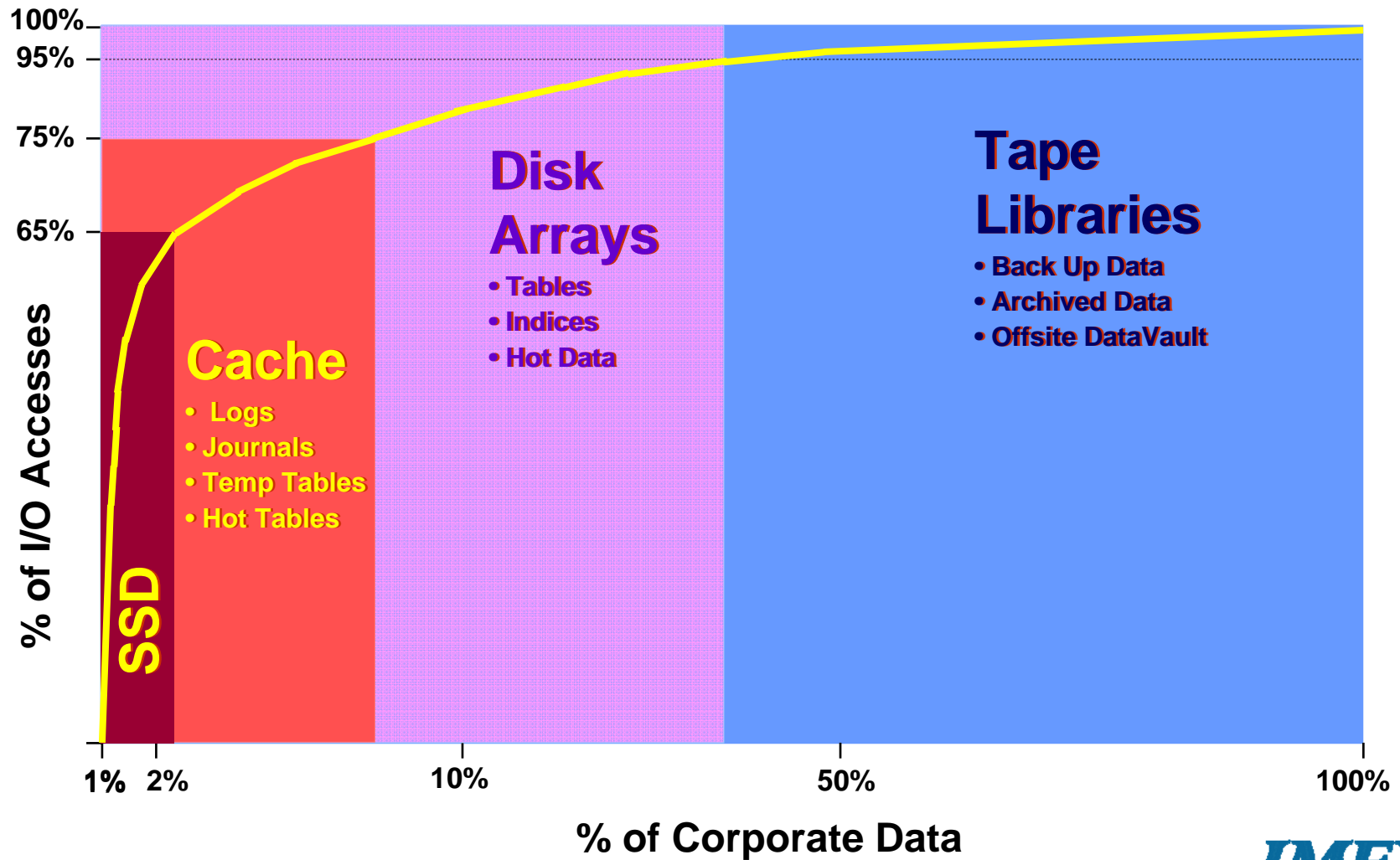
Market Segments by Applications



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

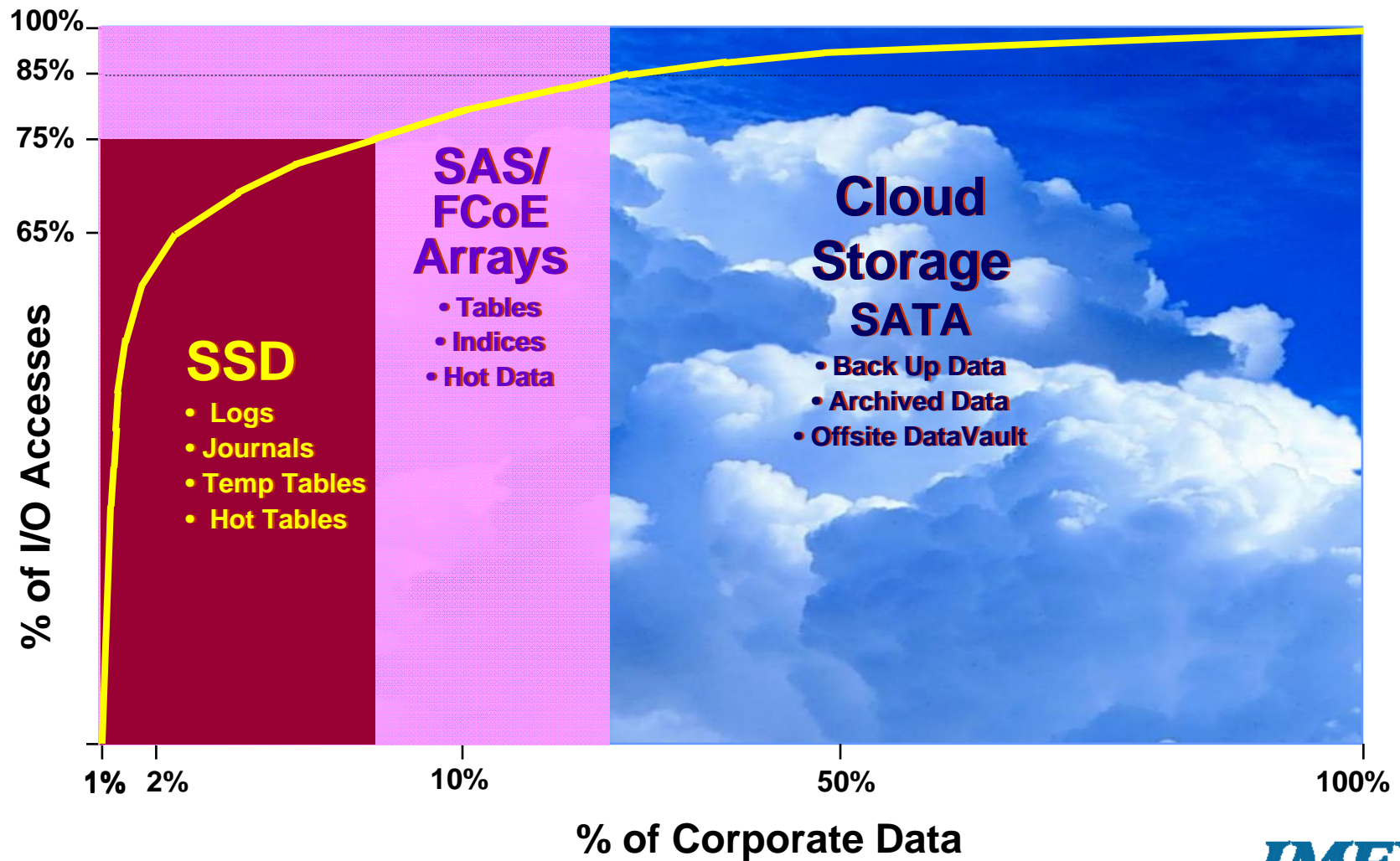
► Corporate Data Usage

I/O Access Frequency vs. Percent of Corporate Data

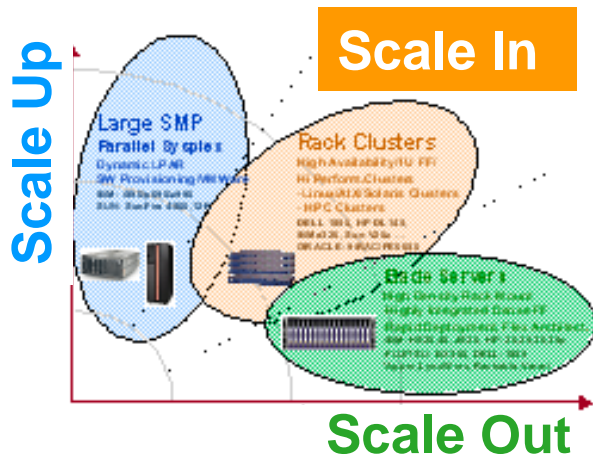


► Corporate Cloud Storage Usage

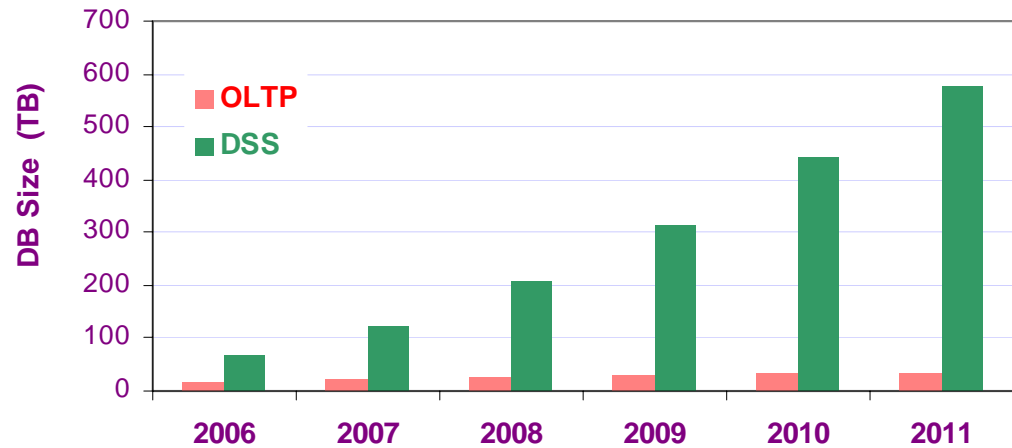
I/O Access Frequency vs. Percent of Corporate Data



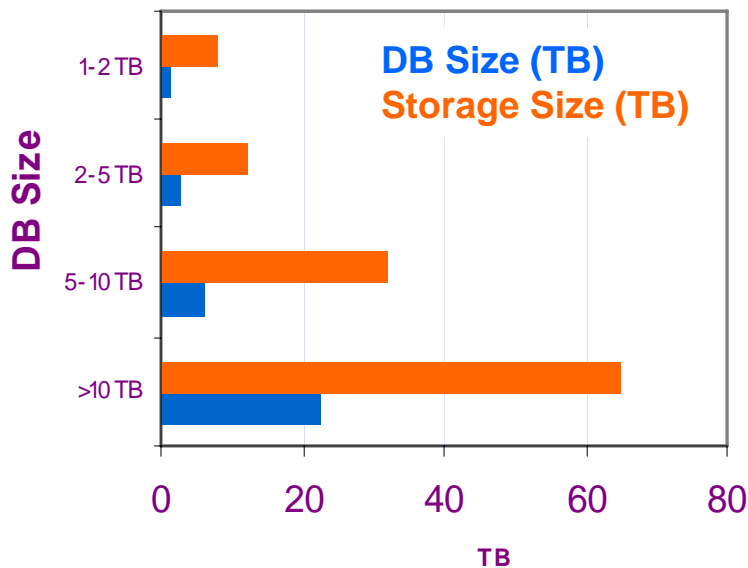
Rise of DB-in-Memory for BI / DataWarehousing



Large DB Size Growth by Market Segment

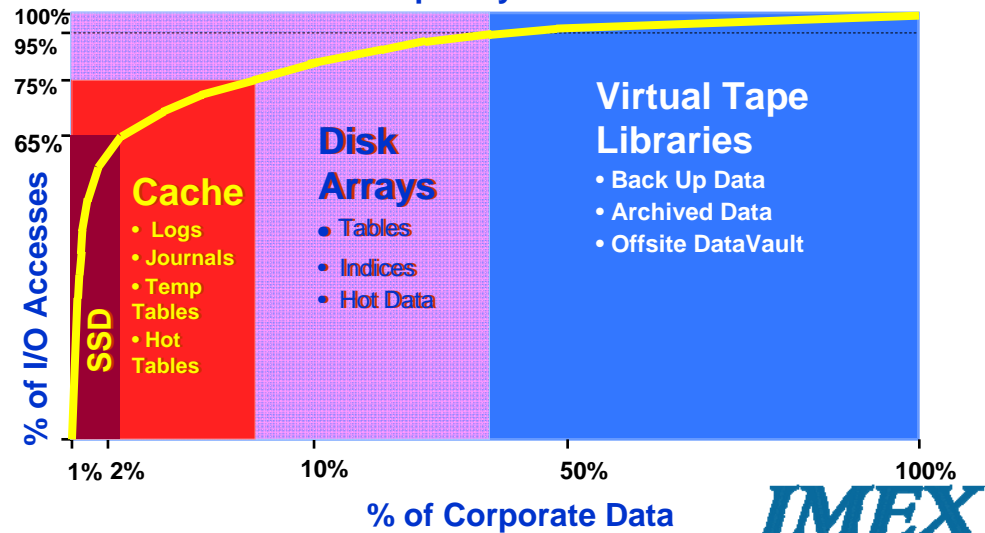


Storage Usage vs DB Capacity



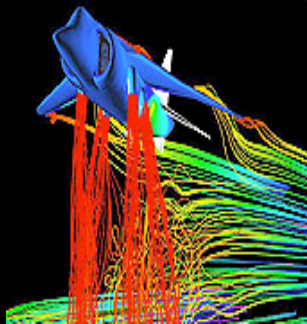
Corporate Data Usage

I/O Access Frequency vs. Percent of Data

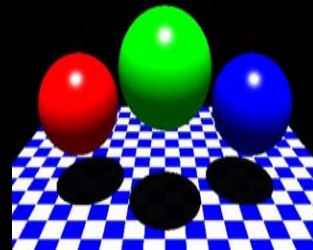
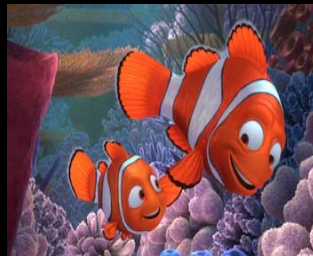


HPC: Academia > BioMed > Wall St > Hollywood

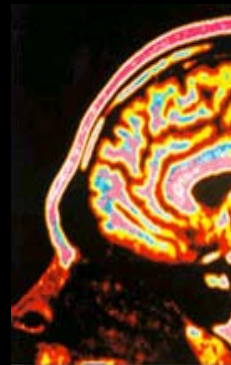
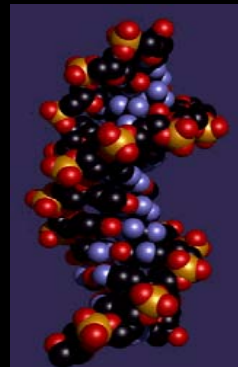
Earth Resources
Oil & Gas ...



Commercial
Visualization



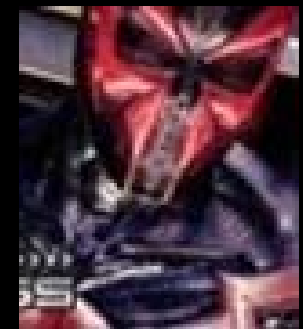
Bioinformatics
& Diagnostics



Decision Support
- Hedge Funds ...



Entertainment-
VoD / U-Tube



➤ 100+ Teraflops

➤ Throughput : 100 GB/s

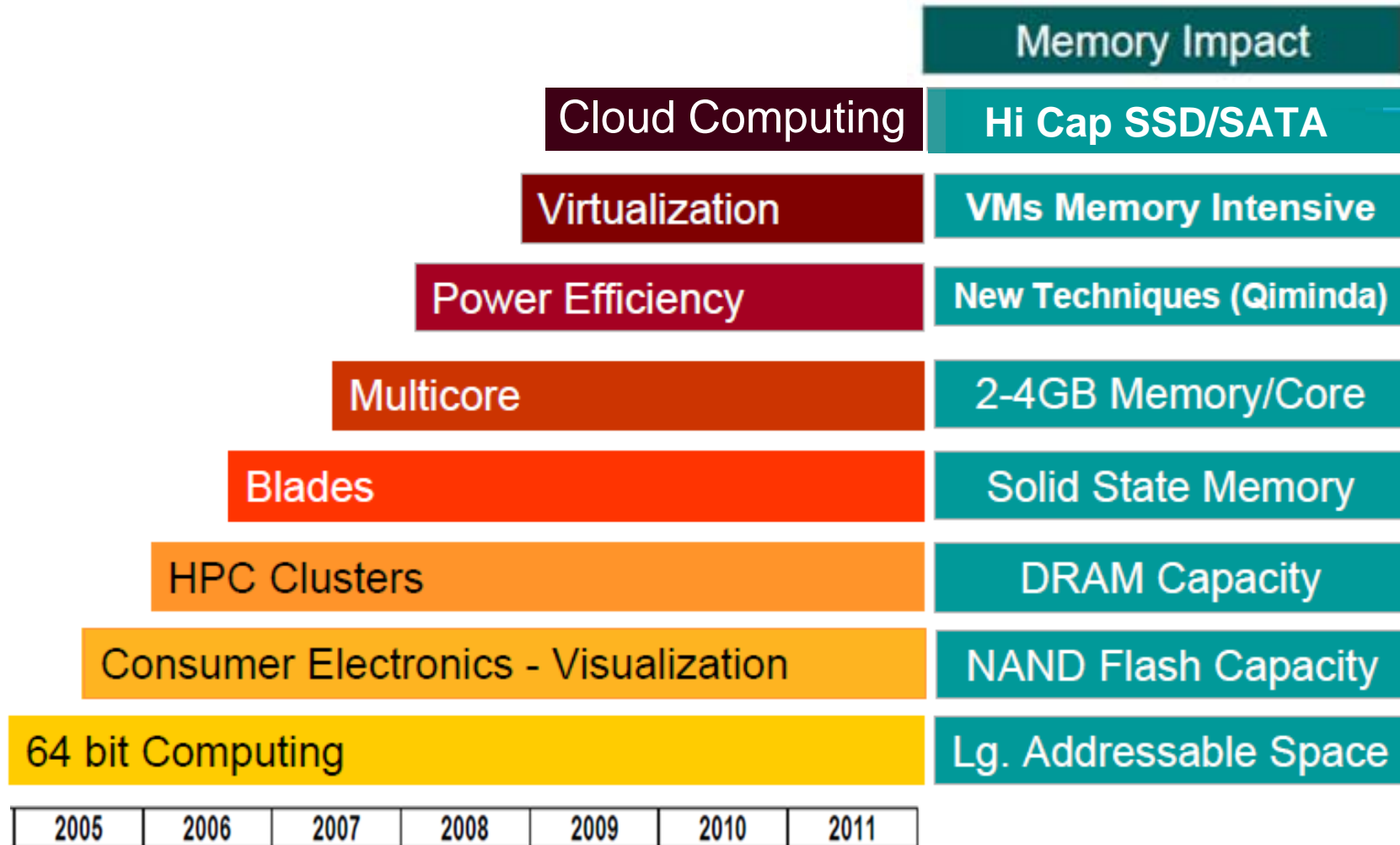
➤ Rendering (Texture & Polygons)

➤ Throughput : 1.2 GB/s

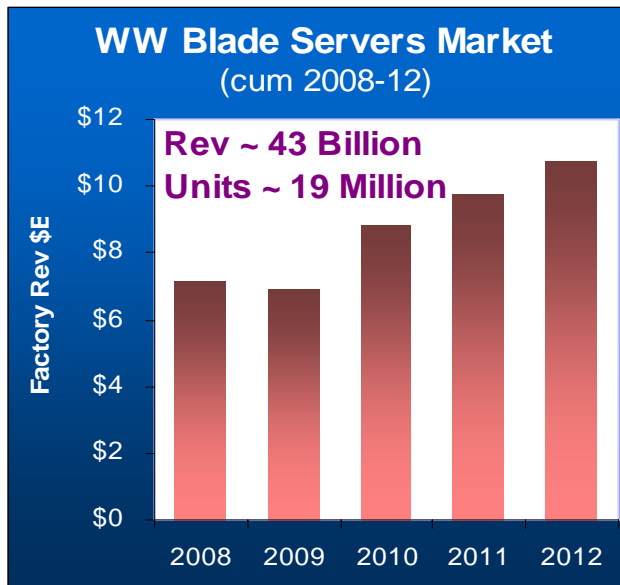
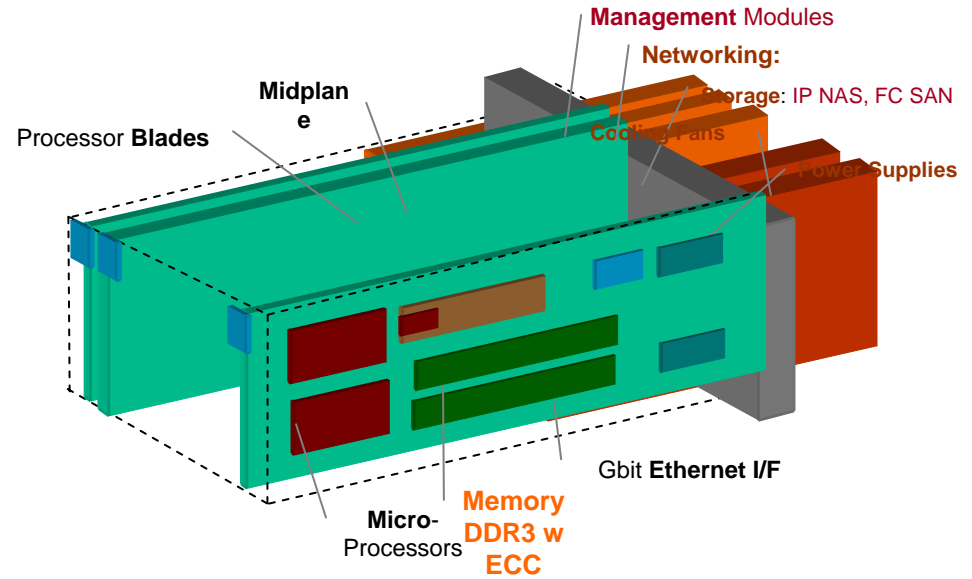
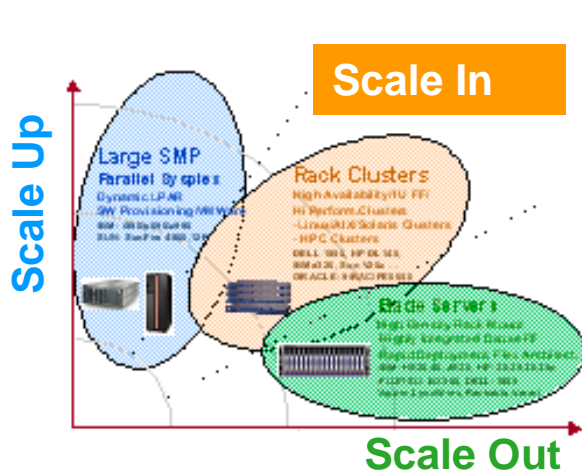
➤ Data rate & capacity

➤ Throughput : DSL/Cable

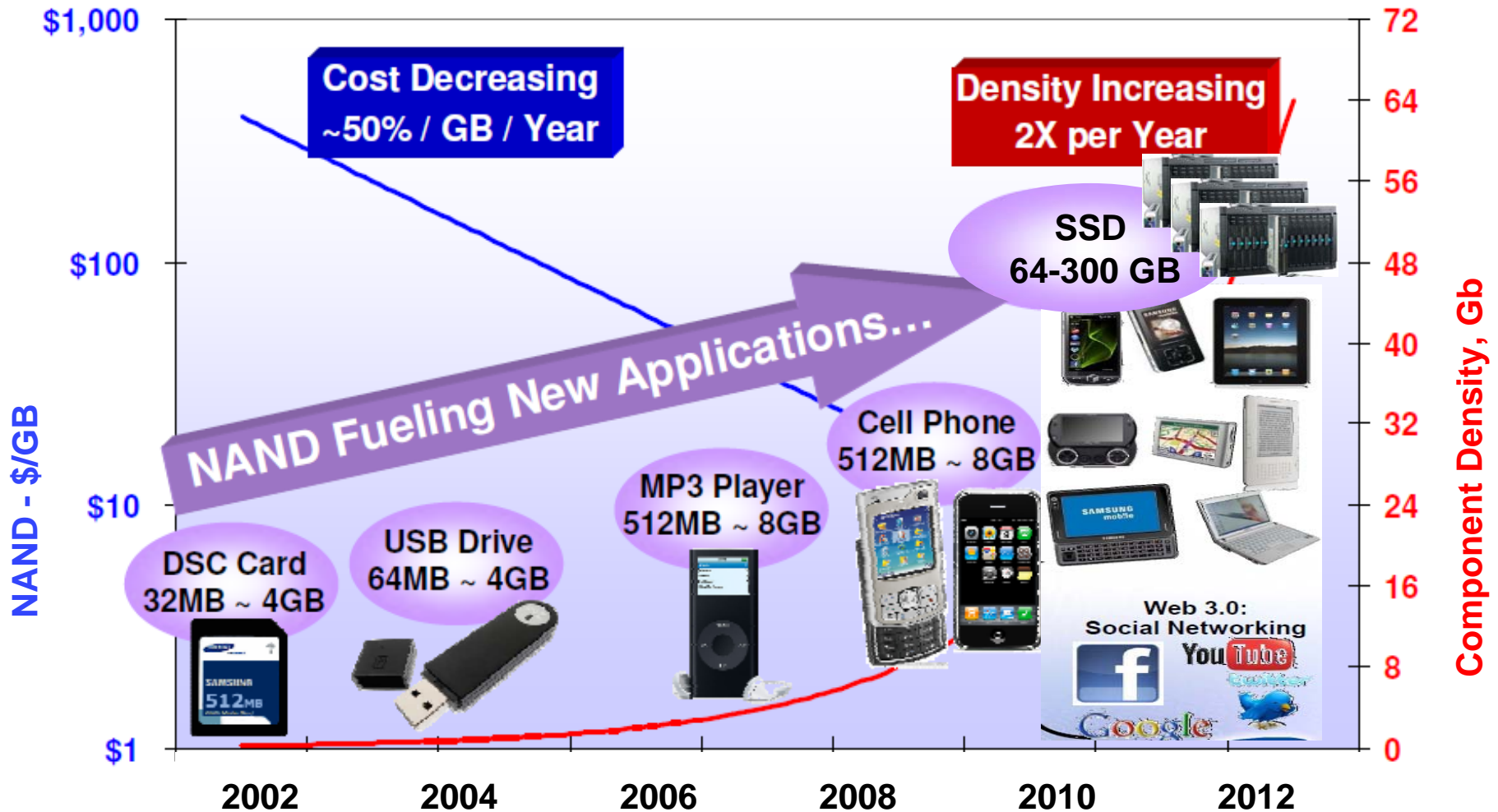
▶ Computing Dynamics – Memory Impact



Blade Servers – On a Fast Growth path



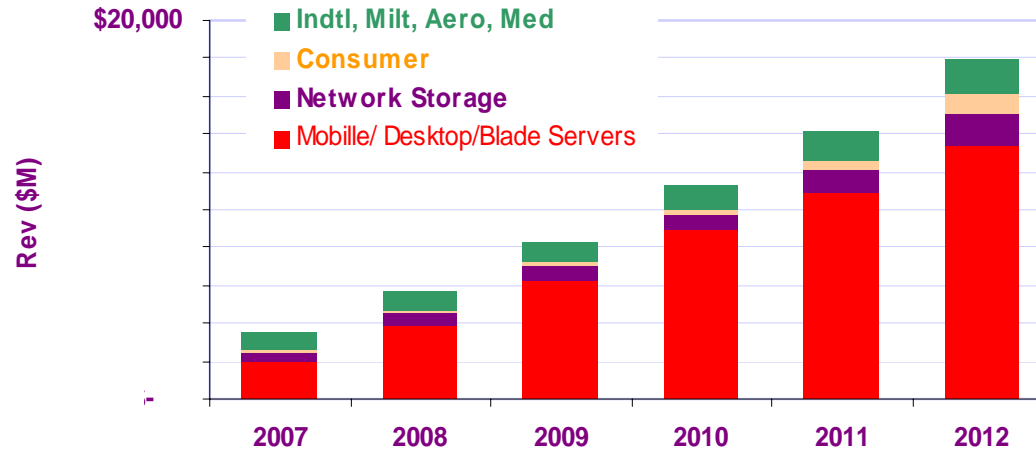
► NAND: Enabling Consumer to Enterprise Mkts



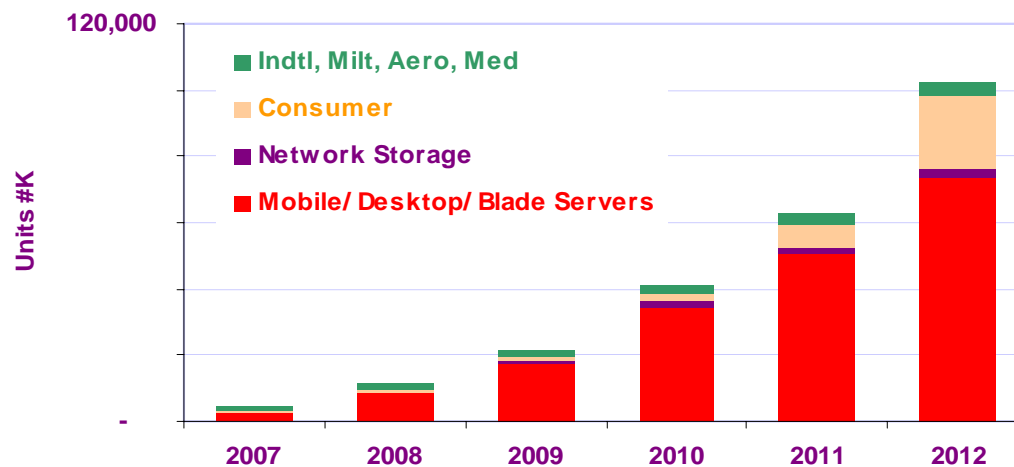
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▶ SSD Market Forecast by Application

Solid State Drive Revenue Forecast



Solid State Drives Unit Forecast



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