

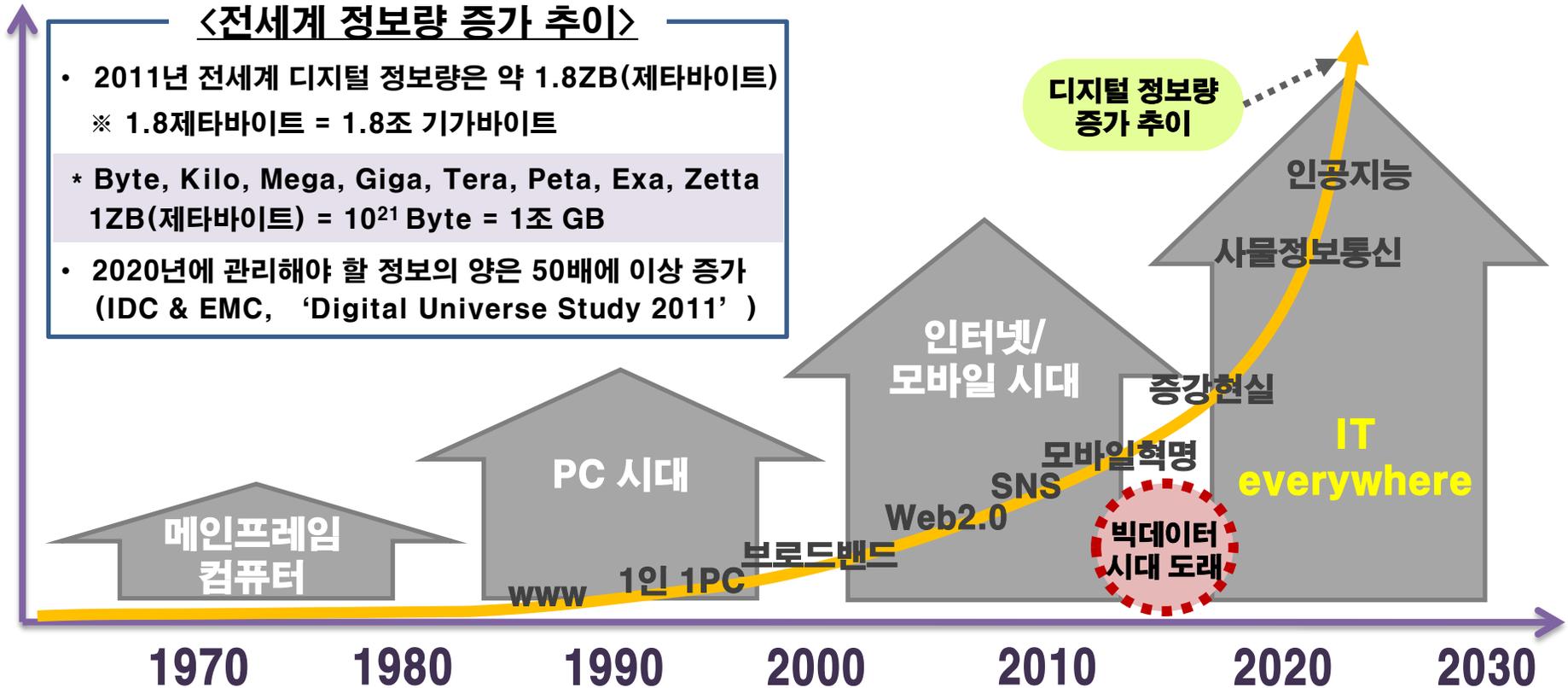
# SSD & PCIe 스토리지 시스템의 변화

| 일시 : 2016년 10월 20일(목)

| 발표 : (주)글루시스 연구소장 김경훈



# 1. ICT 환경의 변화



## 2. 확장으로의 변화

- 무어의 법칙

반도체 집적회로의 성능이 18개월마다 2배로 증가

- 황의 법칙

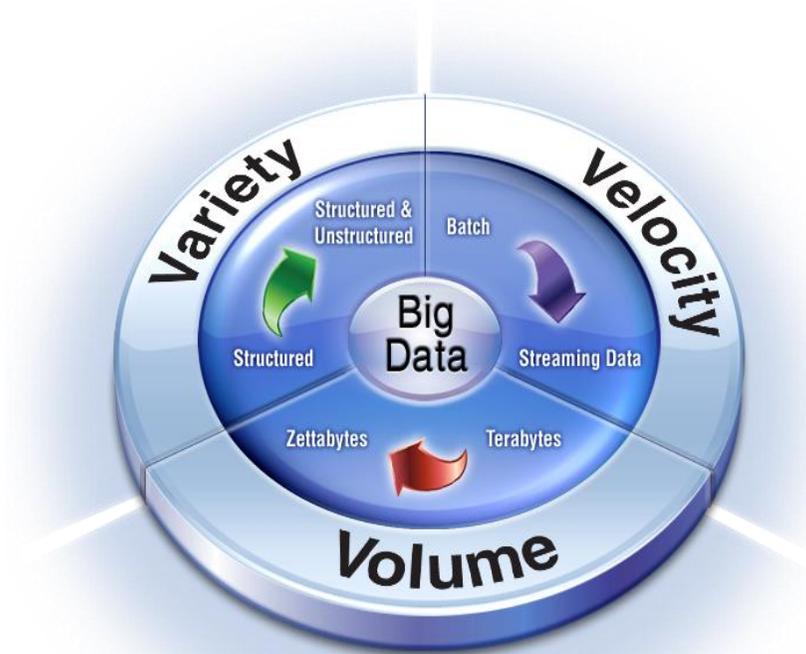
메모리반도체의 집적도가 1년에 두 배씩 늘어난다

- 메트 칼프의 법칙

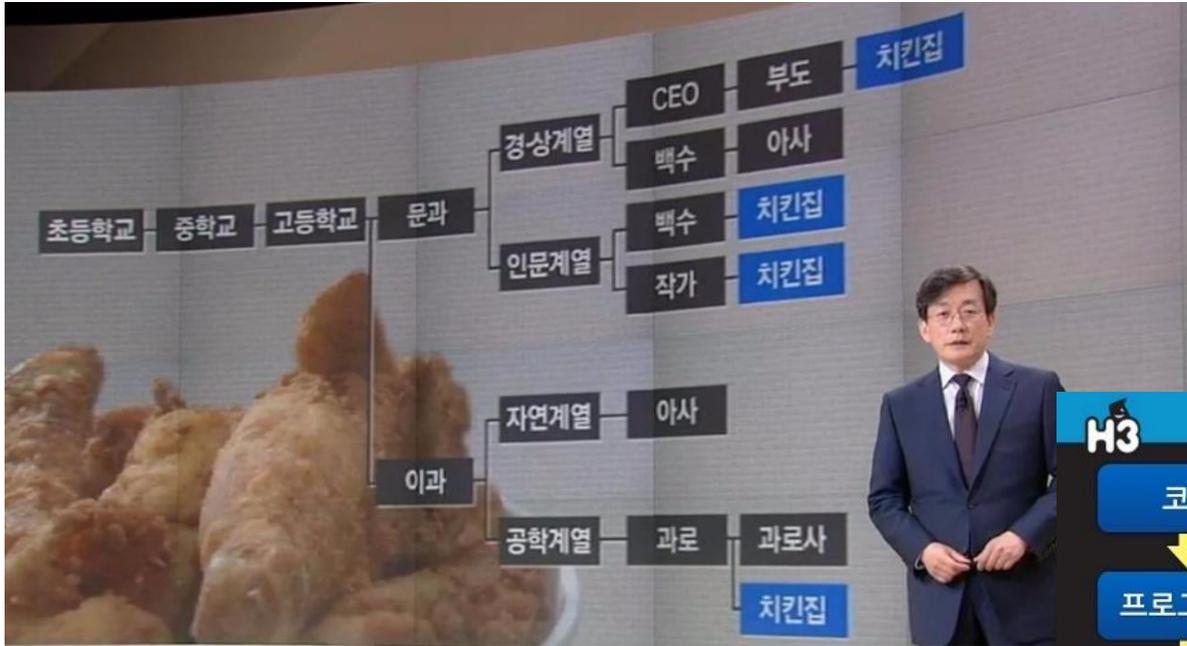
네트워크의 가치는 참여자 수의 제곱에 비례한다

- 길더의 법칙

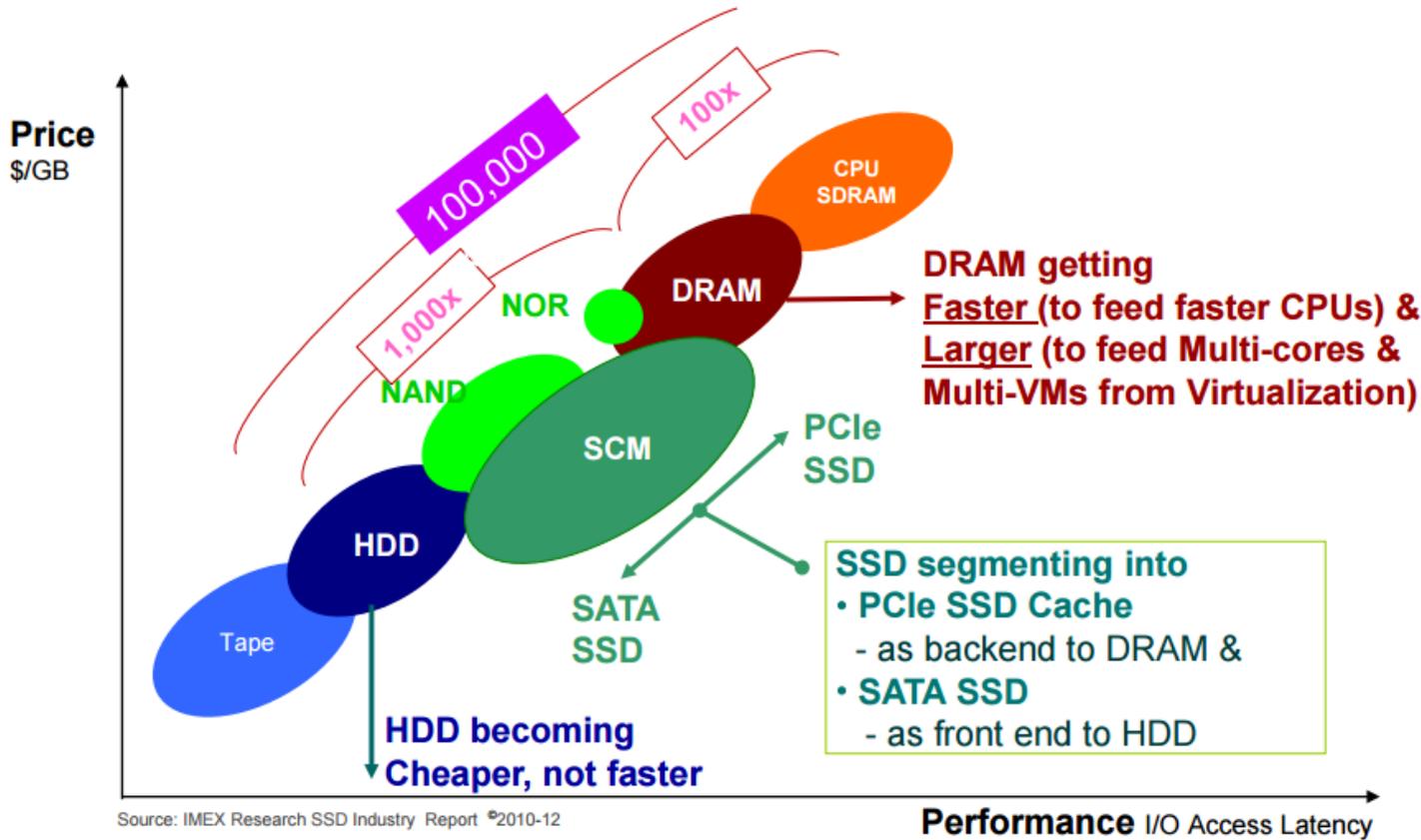
광섬유의 대역폭은 12개월마다 3배 증가한다



# 3. 수렴으로의 변화

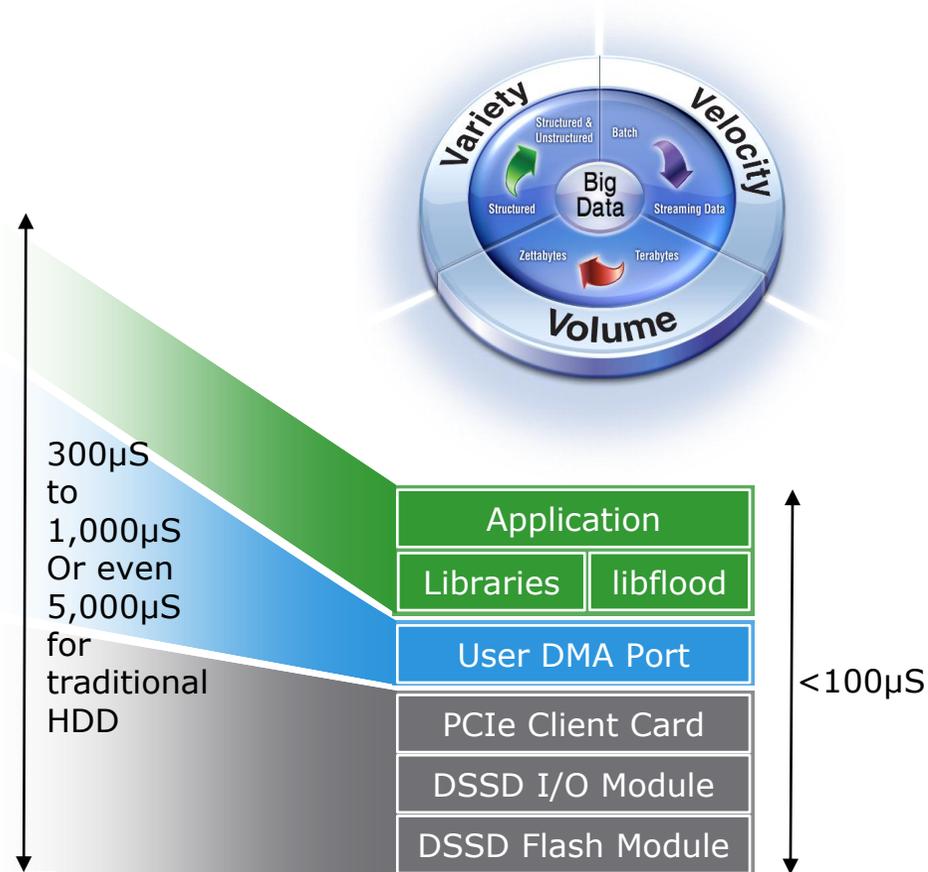
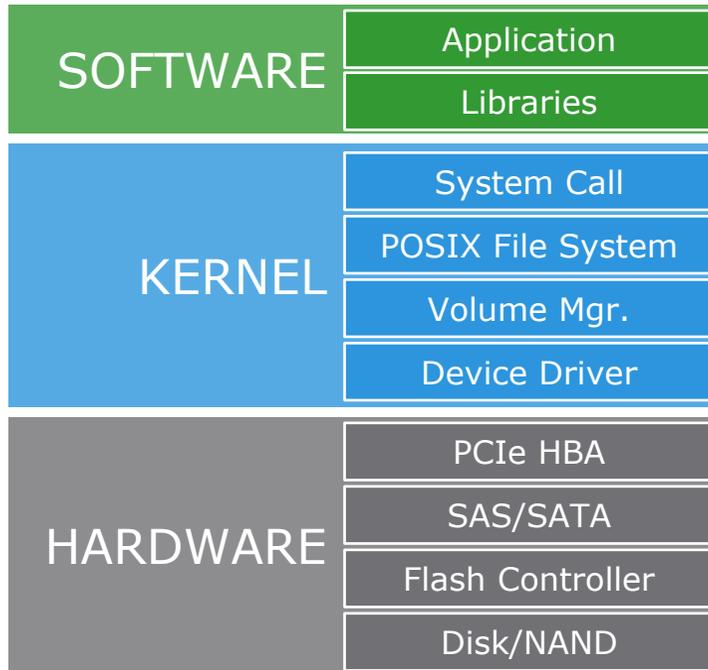
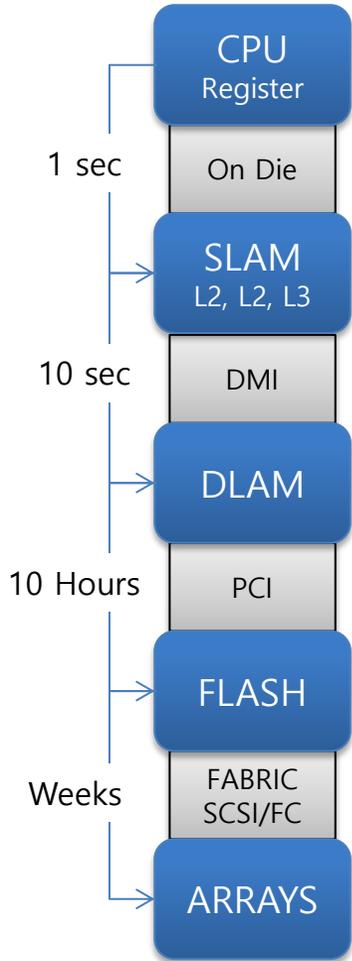


# 4. 저장매체의 변화



**Best Opportunity to fill the gap is for storage to be close to Server CPU.**

# 5. 스토리지 연결의 변화



# 6. 스토리지 아키텍처의 변화(1)



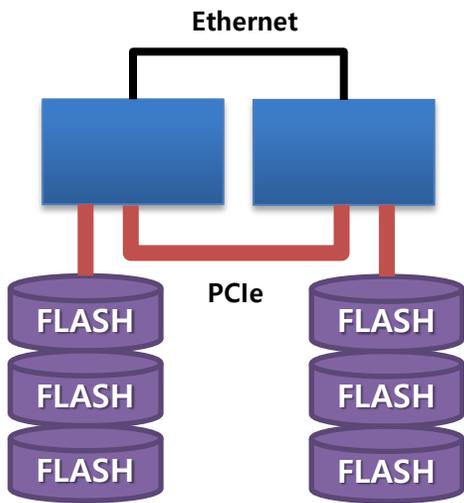
X86 기반  
스토리지 시대



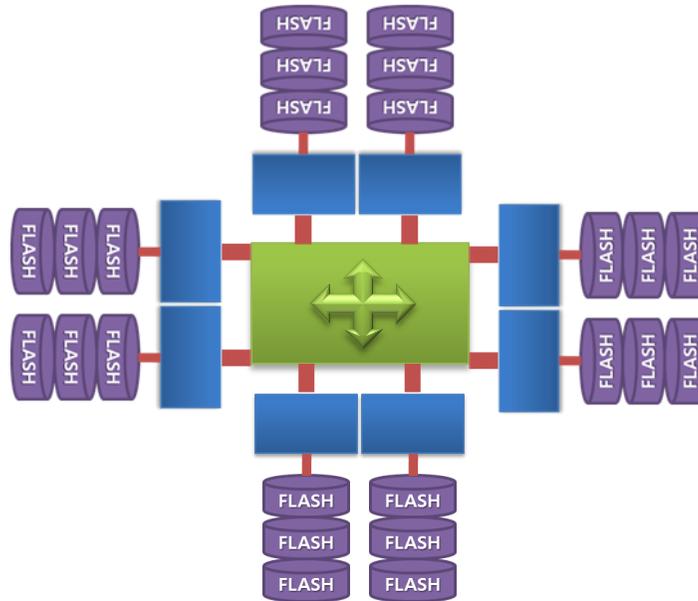
고밀도 스토리지  
서버 활성화



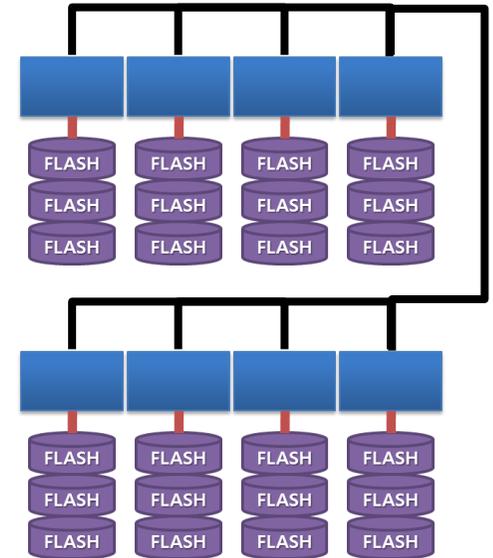
SSD & Flash  
스토리지 범용화



Tightly-Coupled HA

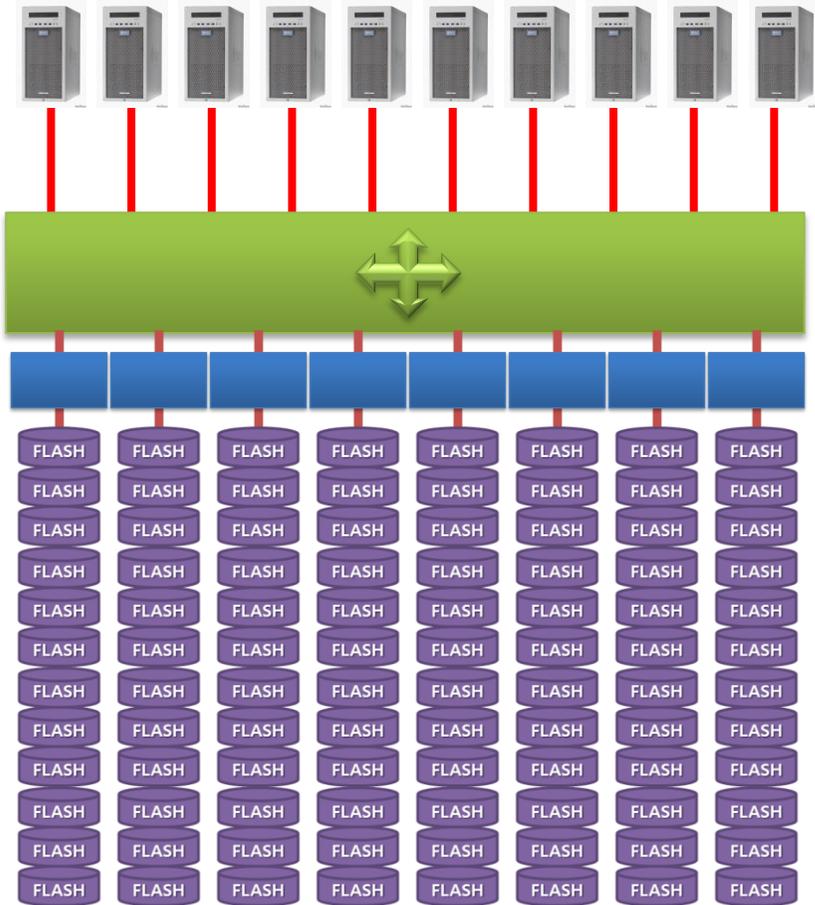


Tightly-Coupled Scale-Out

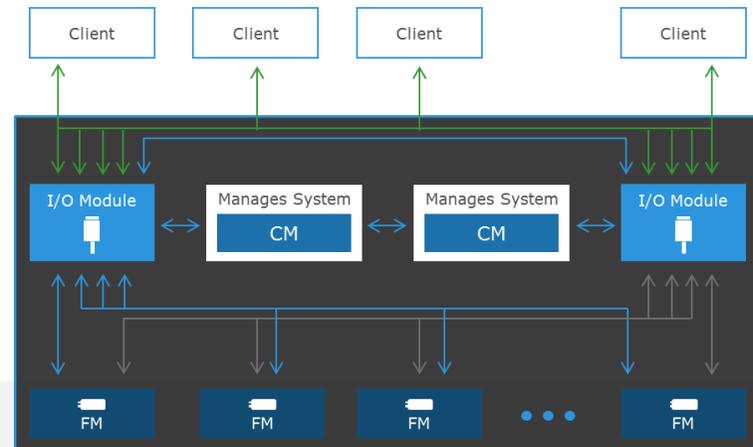
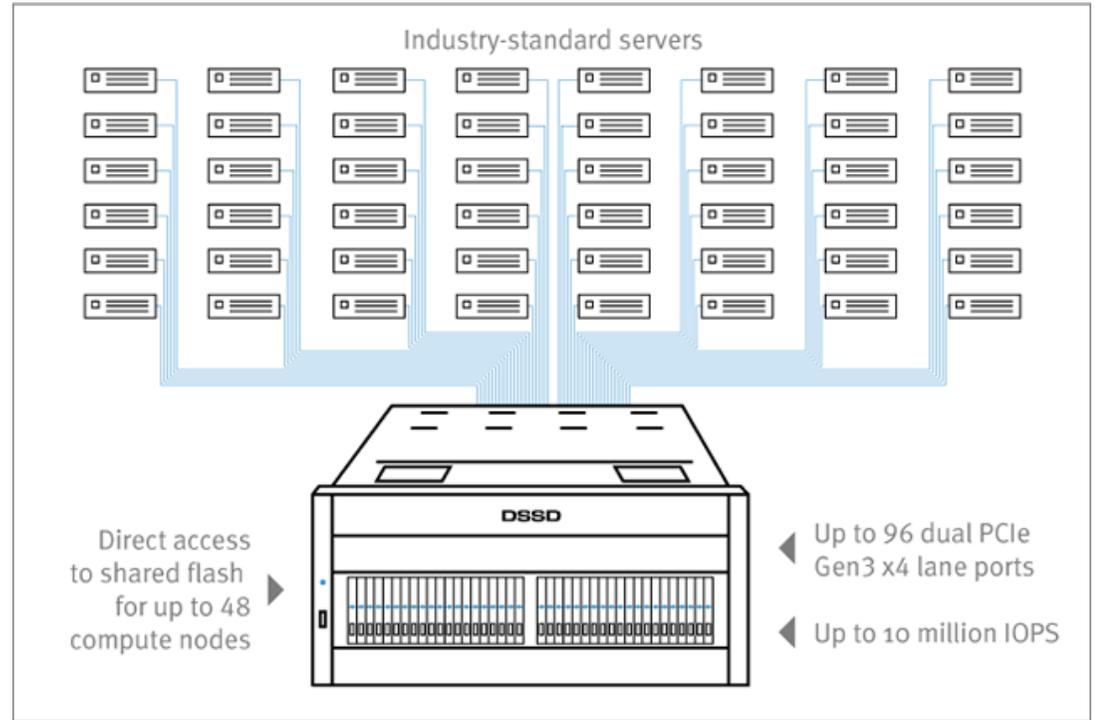


Loosely-Coupled Scale-Out

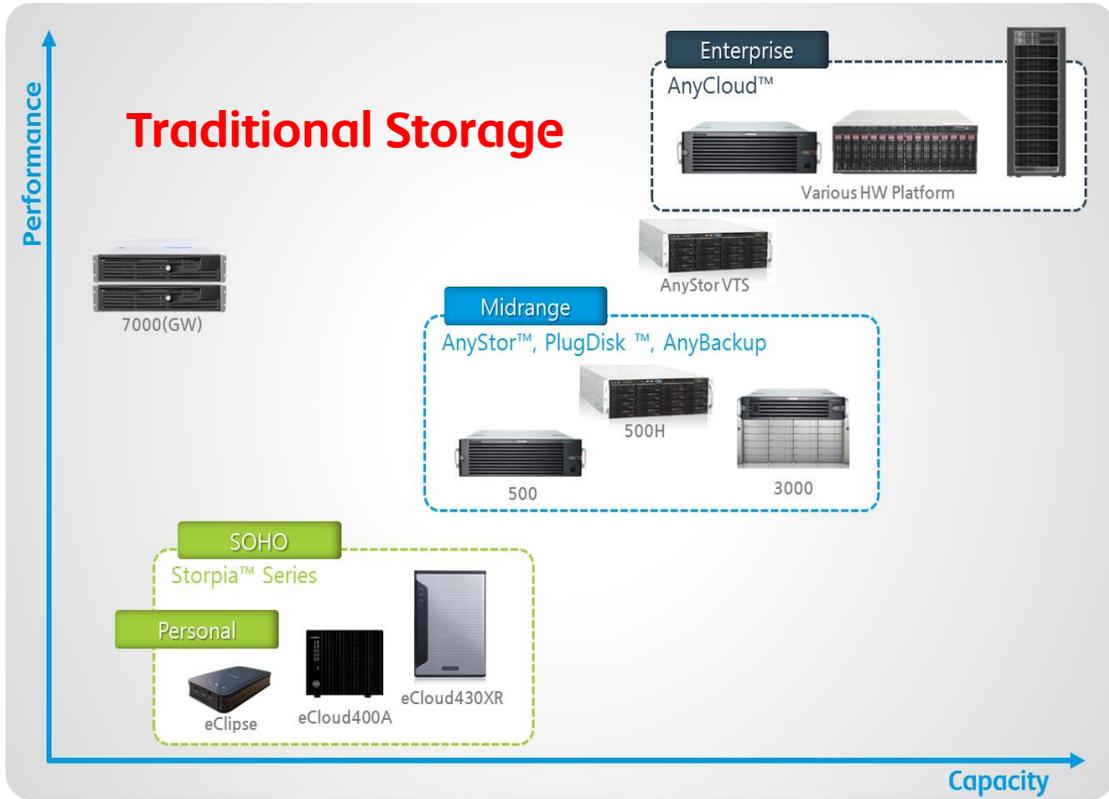
# 6. 스토리지 아키텍처의 변화(2)



Tightly-Coupled & Highly Scale-out



# 7. 글루시스의 변화



Extreme Fast

Real Safe



Hyper Converged





**감사합니다.**