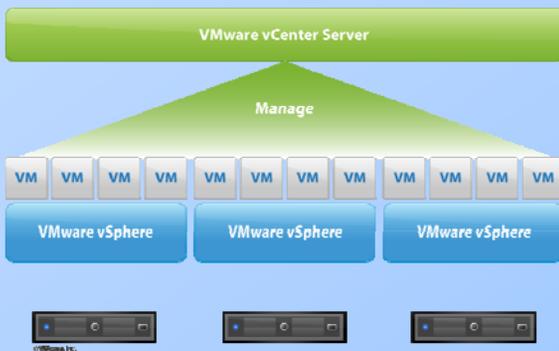


# Data Center Virtualization

Data Systems Sciences & Engineering Group

Computational Sciences & Engineering Division



- **Problem Statement:**

- Traditional approach to systems acquisition is to buy in excess to provide computational headroom. This leads to data center sprawl and hardware underutilization

- **Technical Approach:**

- Analyze workload to determine best cost/benefit fit for hardware
- Design virtual architecture to meet data and security requirements
- Employ COTS solutions for virtualization

- **Benefit:**

- Reduced hardware footprints: physical and environmental
- Increased redundancy and efficiency of operations
- Improved responsiveness to new requirements
- Proven approaches for disaster recovery and failover

- **Technology Readiness Level 9**

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