

Virtual Desktop Infrastructure (VDI)

Today's Challenges

- Desktop Management
 - *Hardware-centric*
 - *Support Staff Ratio*



Today's Challenges

- Security
 - *Data Loss Risks*
 - *Malware Remediation*



Today's Challenges

- Application Management
 - *Many Applications*
 - *Support Complexity*



How VDI Improves Our Environment

■ Desktop Management

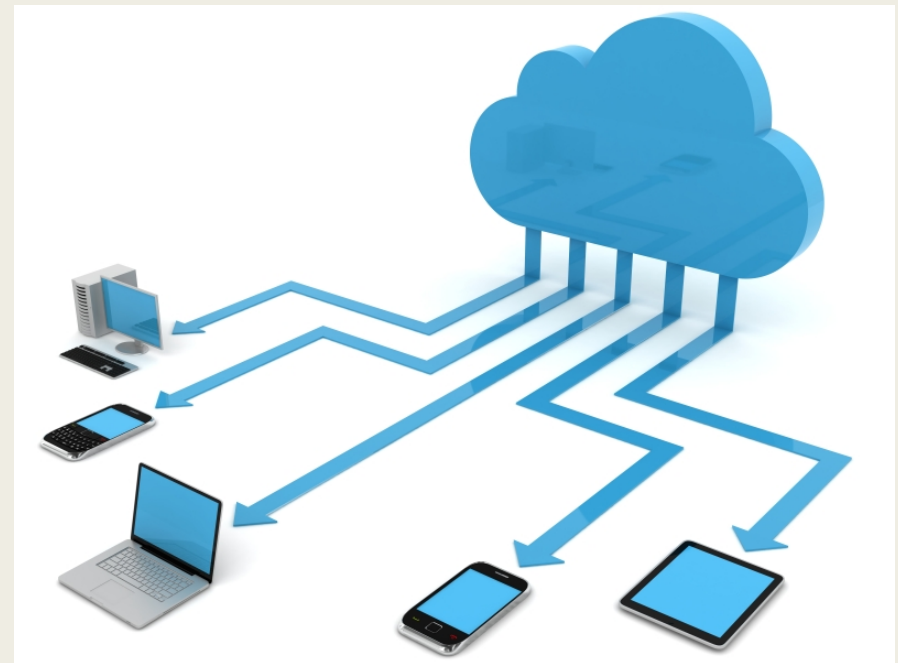
- *No PC Required*
- *Support Staff Ratio*



How VDI Improves Our Environment

■ Security

- *Data Loss Protection*
- *Malware Remediation*



How VDI Improves Our Environment

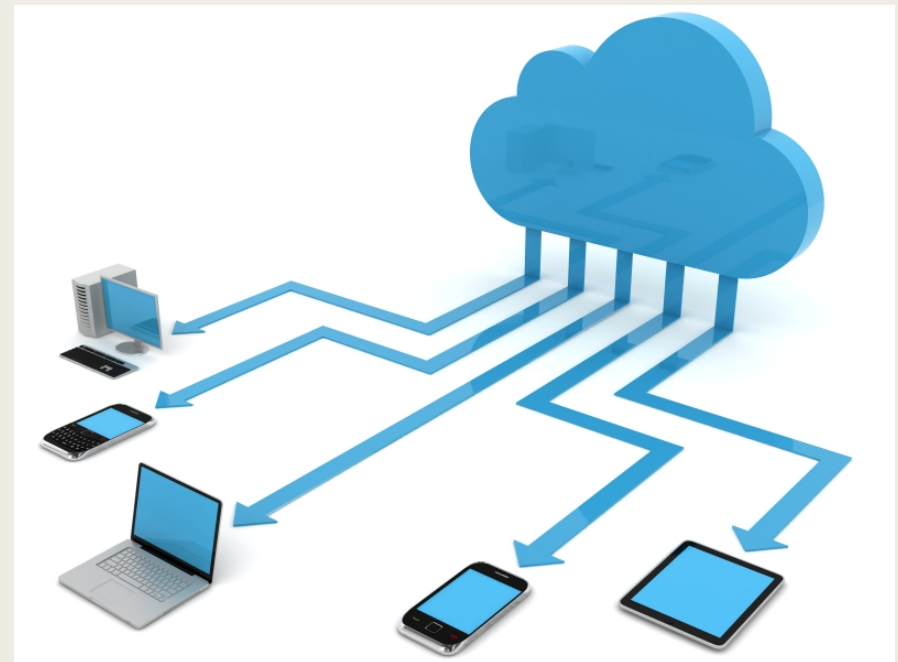
■ Application Management

- *Many Applications, One Management Console*
- *Work from Any Desk*



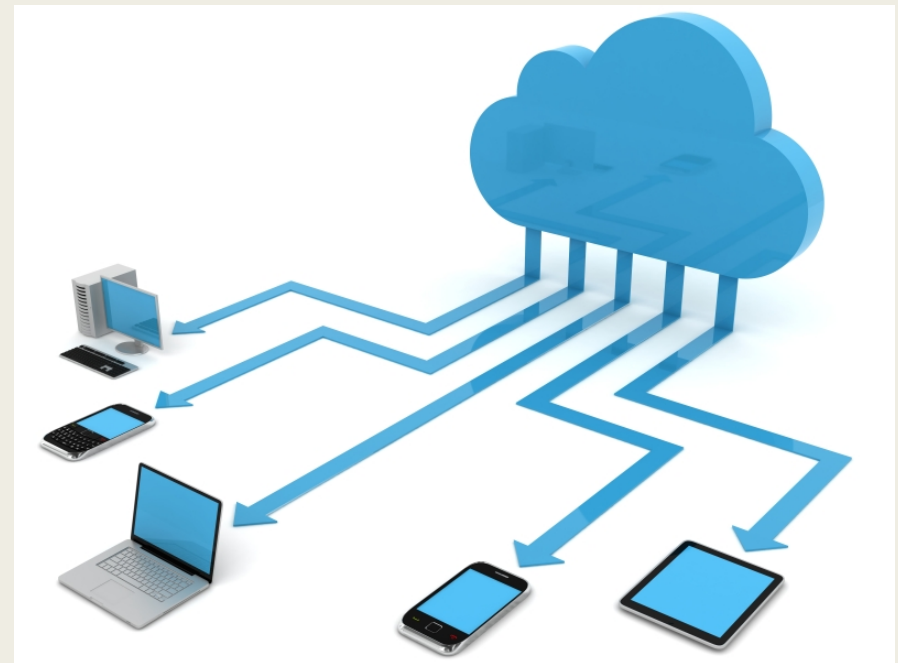
How VDI Improves Our Environment

- Go Green
 - 200-400 PCs per Year
 - 1/10th Power Demand

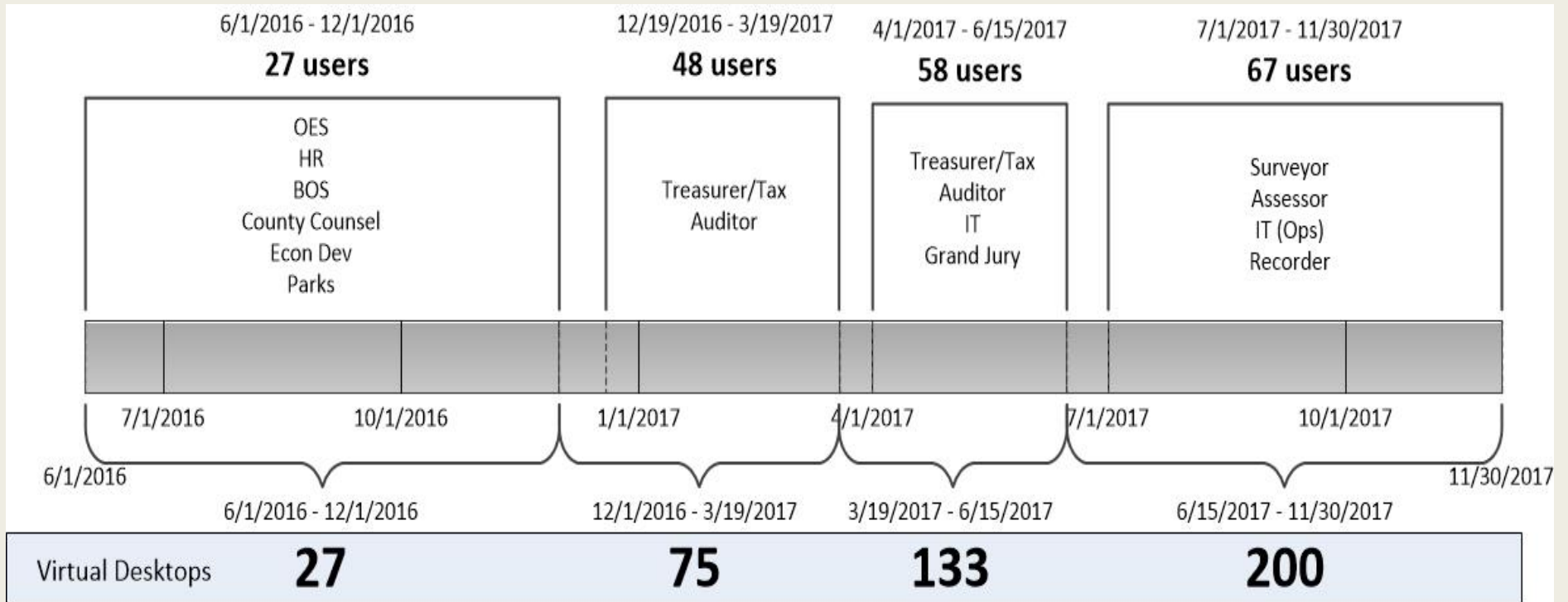


How VDI Improves Our Environment

- Device Agnostic
 - *Virtual = Anywhere*
 - *Cross-platform*



Building A/B Renovation Project Timeline



VDI Implementation Schedule

Expenditure Year	FY 15/16	FY 16/17	FY 17/18	FY 18/19
VDI Workstations	200	400	400	400

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Today

Data Center	New rack w/ Blade Server Compellent Disk Storage	GPU Appliance Add'l Blades Storage Shelf	New rack w/ Blade Server Add'l Drives	Add'l Blades Add'l Drives
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VDI Project Cost Estimate

- **Initial Investment \$440,000**
 - *VDI hardware/software - \$336,000*
 - *MS License - \$62,500*
 - *Implementation Services - \$42,500*
- **Phase II FY 16/17 \$677,500**
 - *VDI hardware/software - \$490,000*
 - *MS License - \$187,500*
- **Phase III FY 17/18 \$664,000**
 - *VDI hardware/software - \$539,000*
 - *MS License - \$125,000*
- **Phase IV FY 18/19 \$598,000**
 - *VDI hardware/software - \$473,000*
 - *MS License - \$125,000*

Total Investment – \$2,379,500

VDI Reduces Technology Costs

Initial study of Return on Investment (ROI) over 5 years

Estimated Investment in VDI \$2,359,101

Cost Savings:

- Client/Devices - \$1,620,700
- Operational Expenses - \$1,242,370
- User Productivity - \$ 399,155
- Power and Cooling - \$ 86,838
- Cost Avoidance (PC warranty cost, workstation mgmt tools) - \$ 256,000

ROI \$3,605,064

Total Net Savings over 5 Years \$1,245,963

Questions?