

The Limitless Learning Experience

VMware End-User Computing Solutions for
Higher Education



Agenda

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- 1 Trends and Challenges
 - 2 What is VMware End-User Computing For Higher Education?
 - 3 Case Studies
 - 4 Solutions
 - 5 A Customer's Perspective
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Learning Happens Everywhere And Every Place is Now a Learning Space

Classroom
Lectures



Online /
at Home



Libraries,
Labs, and
Lounges

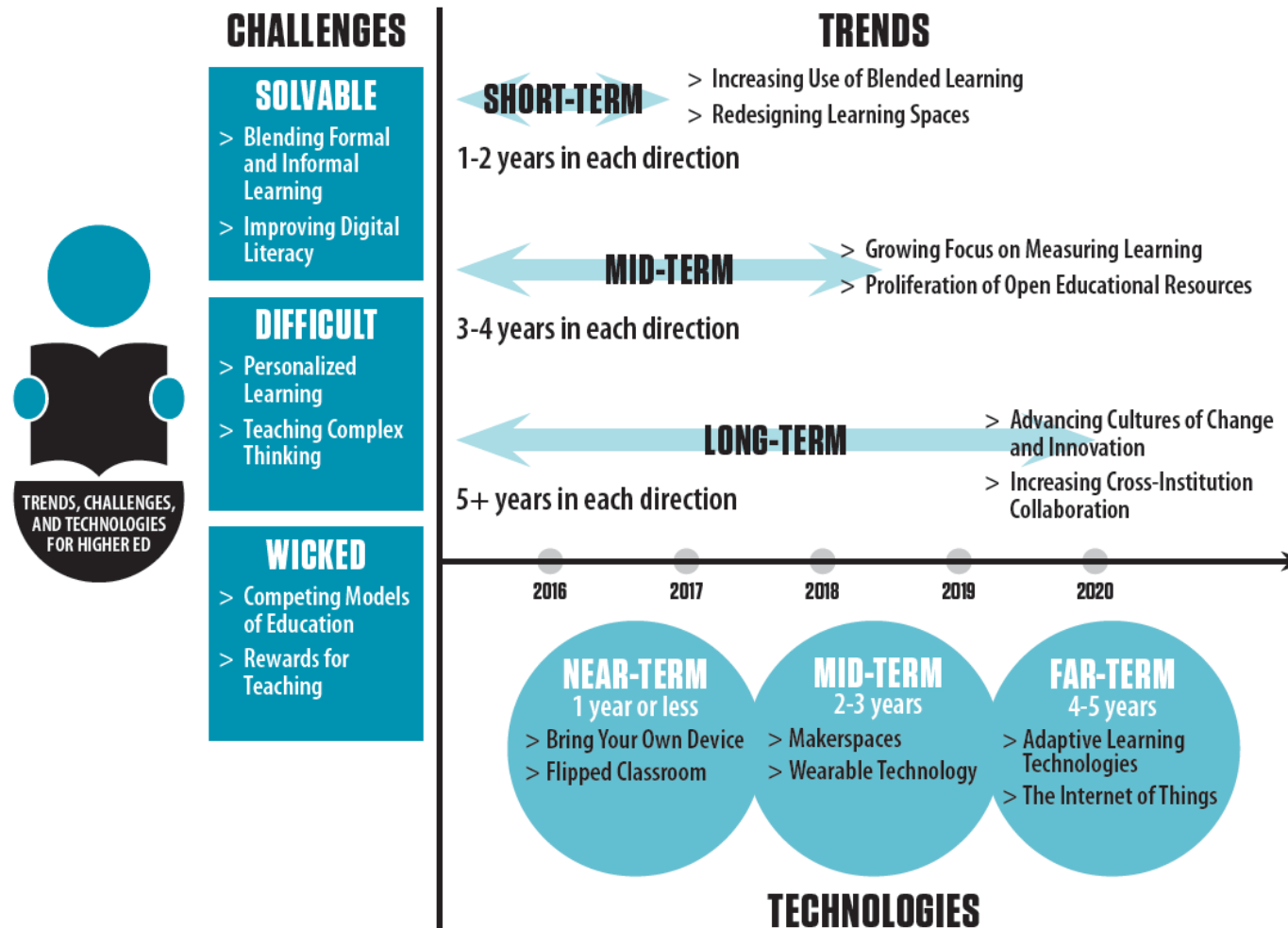


But the Business of Higher Education is Changing



How Experts Define the Critical Near- and Long-Term Initiatives

NMC Horizon Report: 2015 Higher Education



Modernization is Becoming a Requirement to Meet...

Increasing Student, Faculty, and Staff Expectations



Higher education is competitive.
“Students expect access to elegantly designed, user friendly self-service resources....”
86% of undergrads have a smartphone; 47% have a tablet.

Changing Demographics and Priorities



40% of all college students are older than 25 and 33% of students enrolled in higher education courses take at least one online course.

Growing Security Concerns and Tighter Budgets



727 education breaches occurred during 2005-2014 and the average number of records exposed per breach was 27K.

Day in the Life – Student Perspective

9:00AM

A new student enrolls.

7:30PM

In a coffee shop off-campus at night, the student is able to show her work from earlier in the day on her smartphone and gets feedback from her friends.

4:30PM

Later at the library, the student receives a published 3D app on a personal laptop (app provisioned based on engineering class load)



2:30PM

Sitting in a lounge, the student takes a history class online with her personal laptop. She is securely signed-on automatically to the web content.

10:15AM

Student's 3 devices are configured for Wi-Fi & email and provisioned with applications and desktops.

11:30AM

Student attends orientation class — showing campus maps, resources, leveraging location based analytics, and can easily follow along on her tablet.

1:15PM

Student attends an engineering class, accesses productivity and course apps on a workstation in the lab but is also shown how to access the same from her own devices.

Where Might You Begin?

Modernize and
mobilize learning
experiences

Enable continuous
learning

Enhance security
and privacy

Improve
efficiencies and
reduce costs

Four Customers Driving Digital Learning Experiences

North Carolina State University



Many devices, one workspace for all students



University of Massachusetts, Lowell



High-performance computing from anywhere



Duke University



Control over the information that matters



Florida Atlantic University



Increased ROI



Achieve Your Business Outcomes with VMware End-User Computing Solutions



**Anytime, Anywhere
Learning that
Personalizes
Experiences**



**Consistent,
High-Performance
Access that Supports
Learning Beyond
Classrooms and
Digital Equality**



**Privacy and Security
that Keeps Kids and
Data Safe**



**Operational
Efficiencies that Lower
Costs and Risks**



Securely Meet Student, Faculty, and Staff Work Styles

Bring Your Own Device (BYOD) Initiatives and Secure Digital Backpacks

- Give students always-available, customized access to digital courseware through one workspace
- Use centralized resources to deliver apps and data to both user and institution-owned devices
- Safely enable access to your network for the 3+ connected devices students bring to campus
- Support secure collaboration from anywhere
- Decrease IT help-desk load



Deliver Uninterrupted Access to Learning Resources

Computer Labs in the Cloud and Online Learning

- Provide 24/7 virtual desktop access to all educational resources, on- or off-campus
- Deliver high-performance full, web, and 3D apps outside of traditional computer labs
- Enable online learning while decreasing costs with fast, reliable workspaces hosted as a service or on-premises



Safeguard Personal Data and Intellectual Property

Security, Compliance, and Privacy

- Assign policy-based access by student and course load
- Secure folders for collaboration
- Protect research and intellectual property by harnessing data in the data center and also on endpoint devices
- Enable rapid device wiping
- Inhibit unauthorized endpoints
- Easily customize security levels by department (e.g., medical school, business school, financial aid department, athletics department)



COSTS

Maximize Operational Efficiencies and Reduce Costs

Optimize Application and Device Use

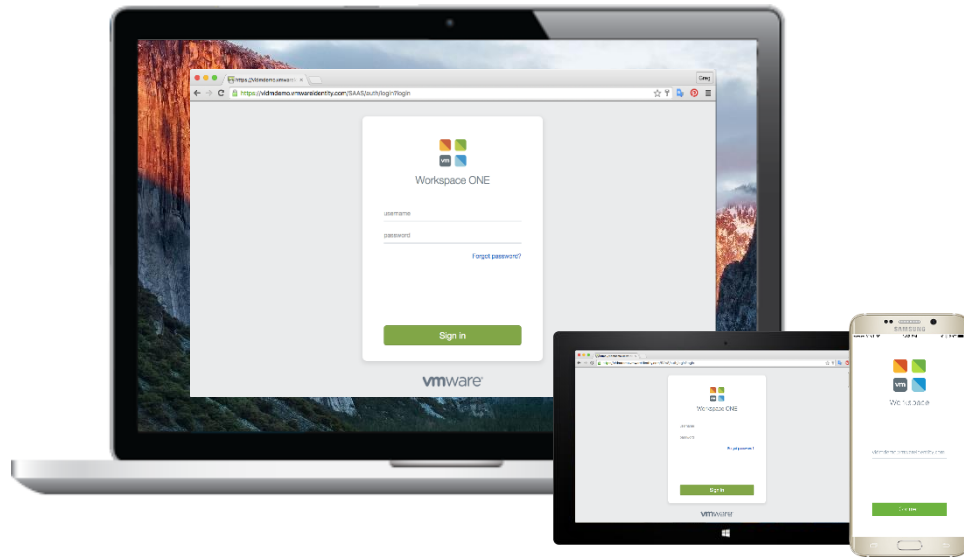
- Rapidly deploy and provision desktops
- Simplify classroom- and institution-wide device, application, email and content management
- Maximize investments by prolonging the life of existing infrastructure and redefining traditional replacement cycles
- Integrate current campus IT infrastructure with key infrastructure components such as NACs, etc.

Driving Limitless Learning



VMware Workspace ONE™

Enabling Limitless Learning



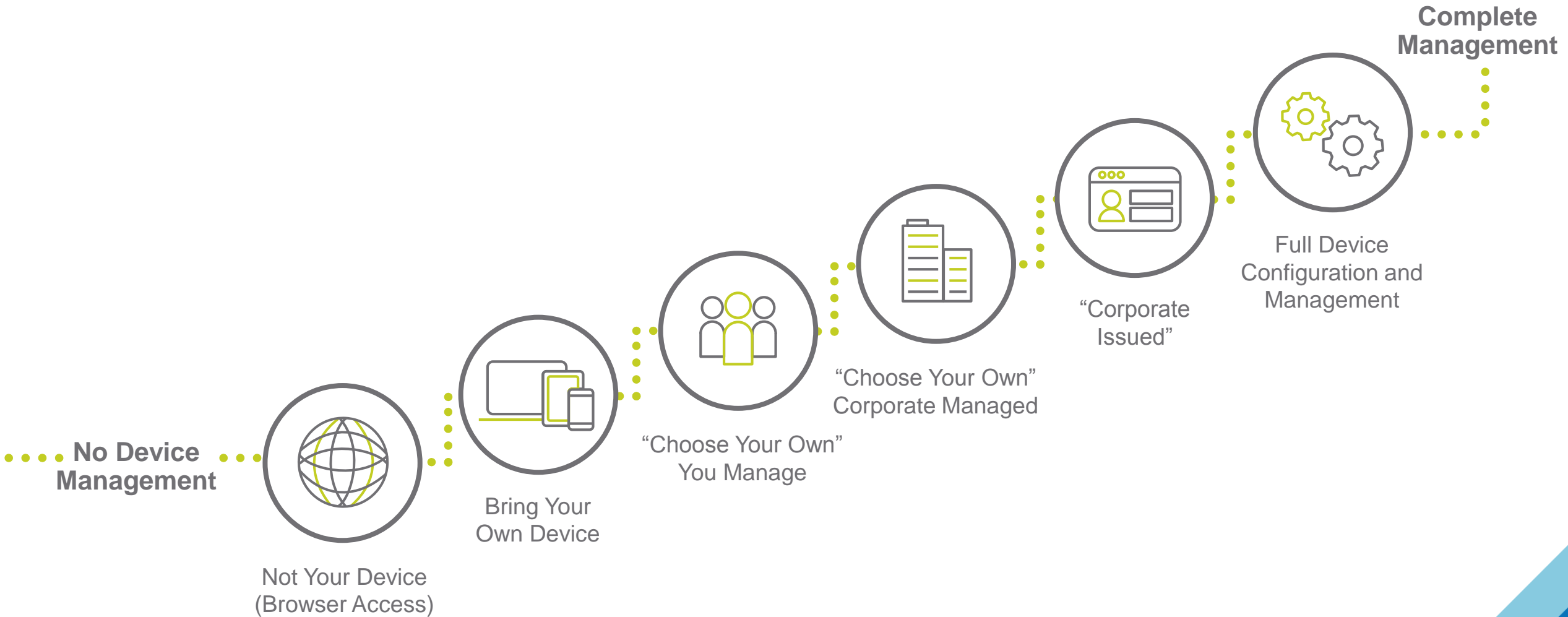
Consistent Access Experience

Any Device

Secure Conditional Access

Secure Email

Managed or Unmanaged: Controlled Freedom



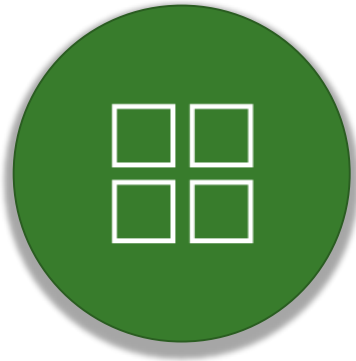
Features



Self-Service
Access



Choose Your
Device



Secure Email,
Chat and Content



Conditional
Access



Scalable
Automation

A Customer's Perspective



“Bring your own (BYO) anything is what we advocate. Students and faculty now have three to three and a half connected devices on NC State University’s network and we provide services to meet their needs—from identity and access management to provisioning on demand.”

Dr. Marc Hoit
Vice Chancellor for IT and CIO

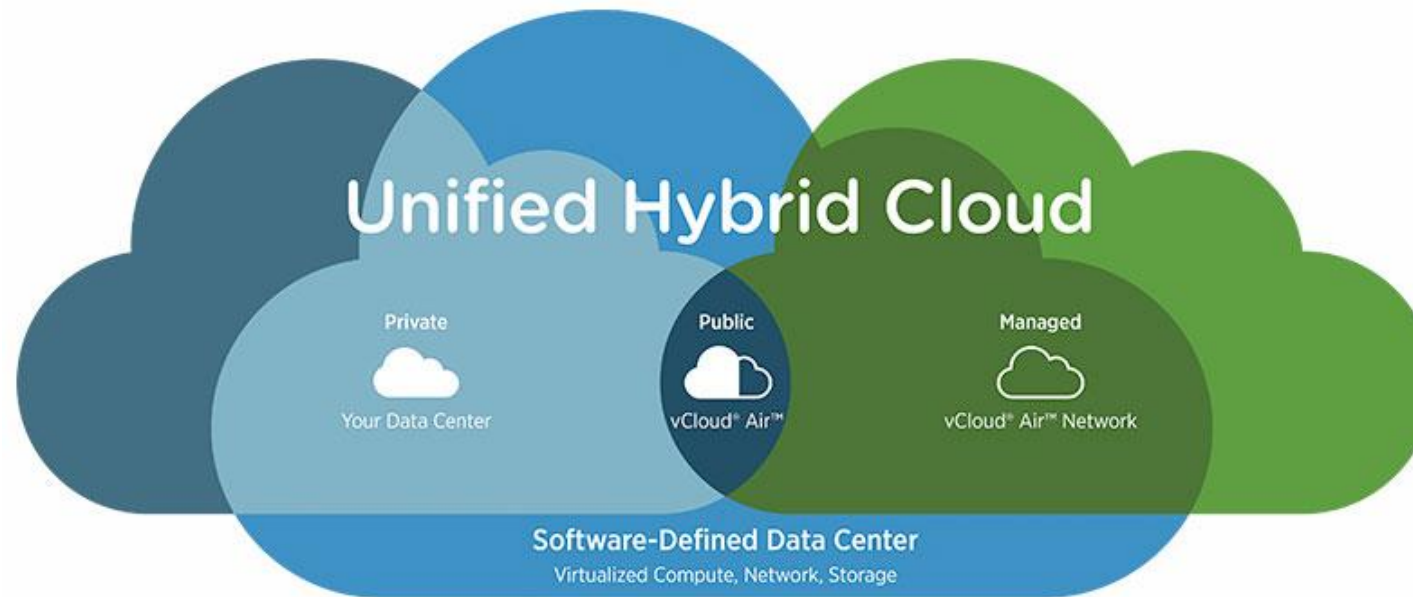


Why VMware?

VMware is the only provider with the required credentials for digital transformation.



Deployment of Your Choice



Team with VMware to Accelerate Learning Transformation

