



Deploying Windows 10 and managing updates at Microsoft

What we'll cover today

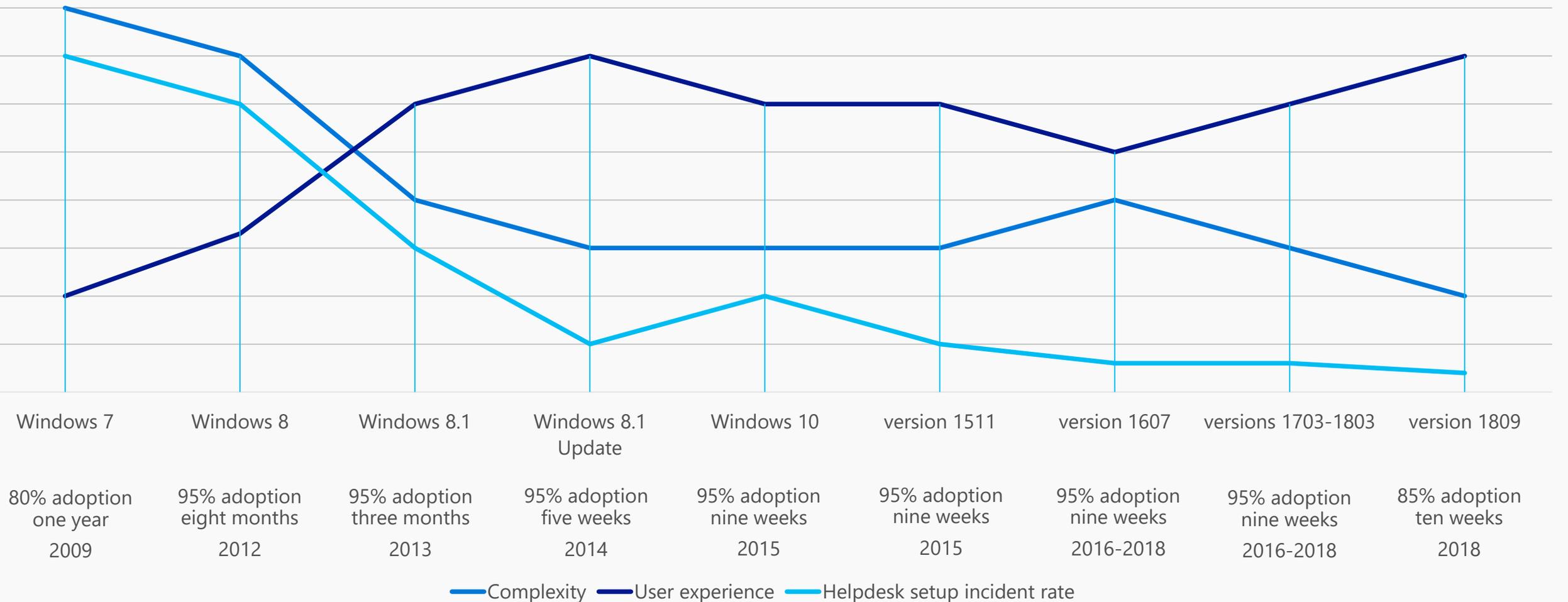
→ Windows as a service

→ Compatibility

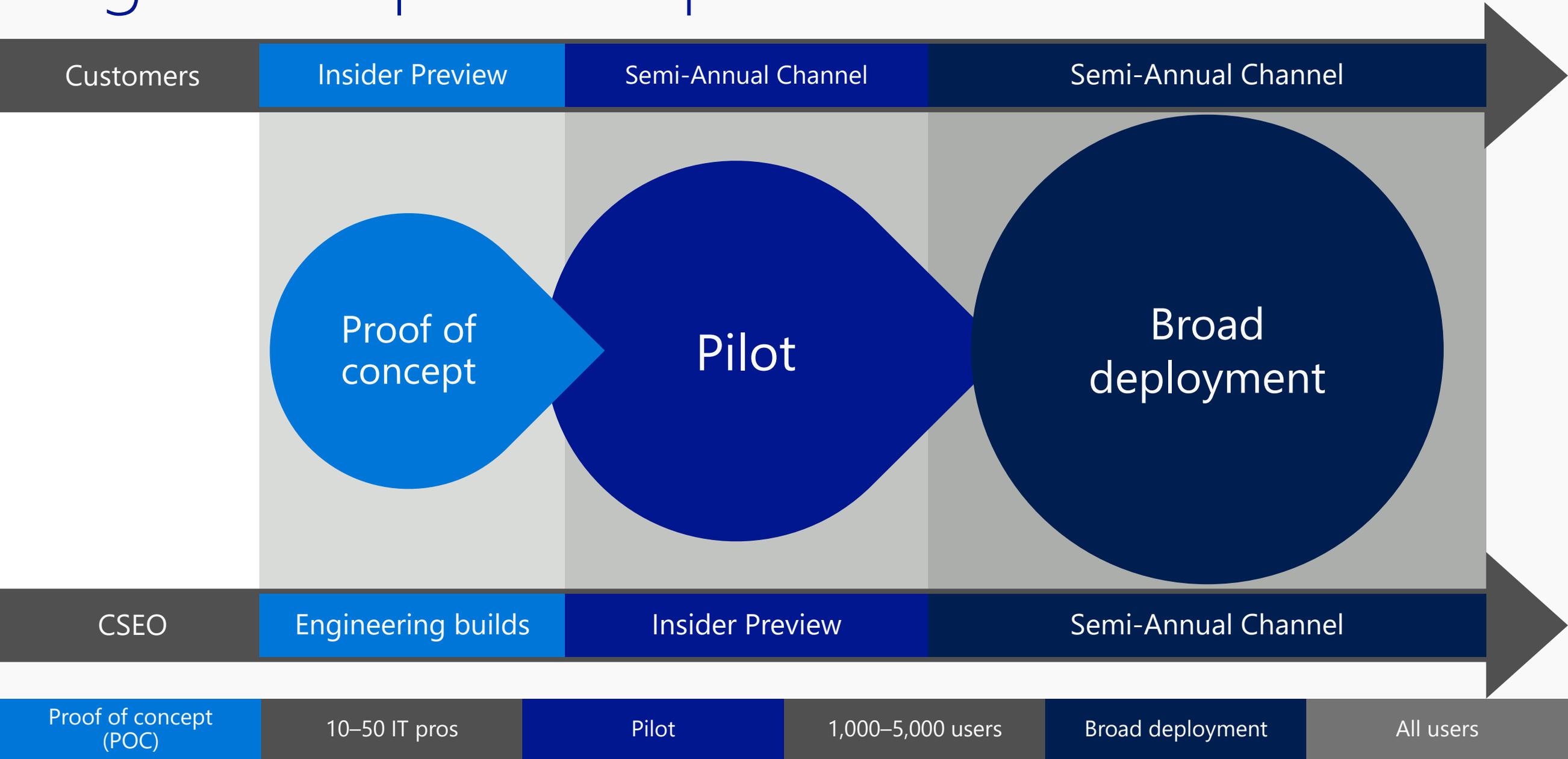
→ Go modern



Transitioning to Windows as a service



Agile enterprise adoption



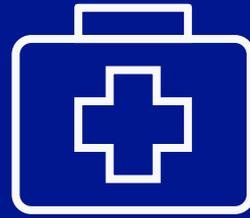
Our approach

Early adopter community



- Early experimentation
- Recognition and leaderboards
- Real-time feedback
- Scenario validation
- Use for other areas in IT

User-centric support



- Social
- Users helping users
- Moderators to ensure questions are answered
- Early detection system

Mission control



- 30-minute sync session, three times a day
- Support and IT SMEs
- Real-time feedback
- Enabling agile remediation

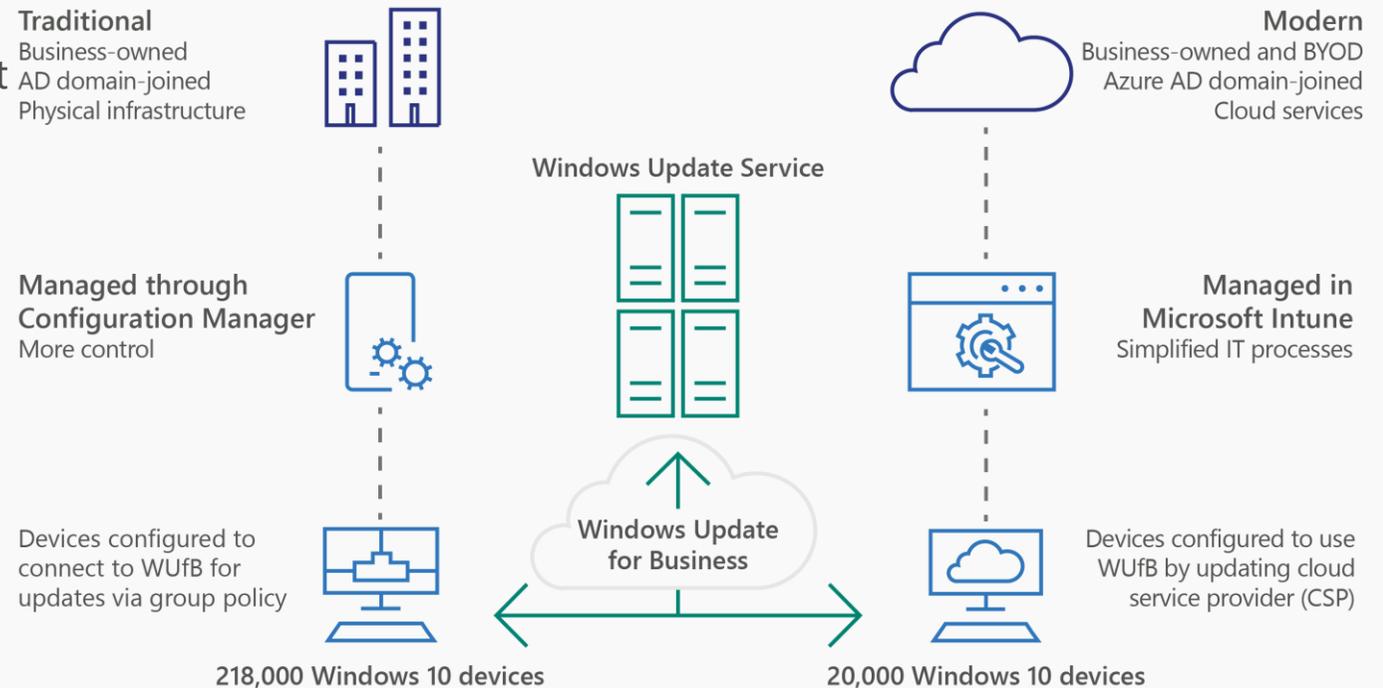
Windows Update for Business migration

Benefits

- Eliminated packaging, replication, testing, and publishing associated with System Center Configuration Manager OSD saving approximately 200 hours
- Support for all OS languages and architectures, not just the ones CSEO officially supports
- Windows Update user experience provides users more control over when updates are installed
- Works for both on prem AD joined devices and Azure AD joined devices
- Reduce bandwidth utilization using Delivery Optimization.
- Offer blocks now available to devices using Windows Update for Business. (Fixed in 1903)

Lessons Learned

- Some users love the auto-restart experience, but it can result in lost work.
- Can't use Windows Update for Business for just feature or quality updates, needs to be both.
- No task sequence to address deployment issues



Case Study: [Keeping Windows 10 devices up to date with Microsoft Intune and Windows Update for Business](#)

Offer blocks: <https://docs.microsoft.com/en-us/windows/release-information/status-windows-10-1903>

Do you need to test quality updates?

Deployment approach

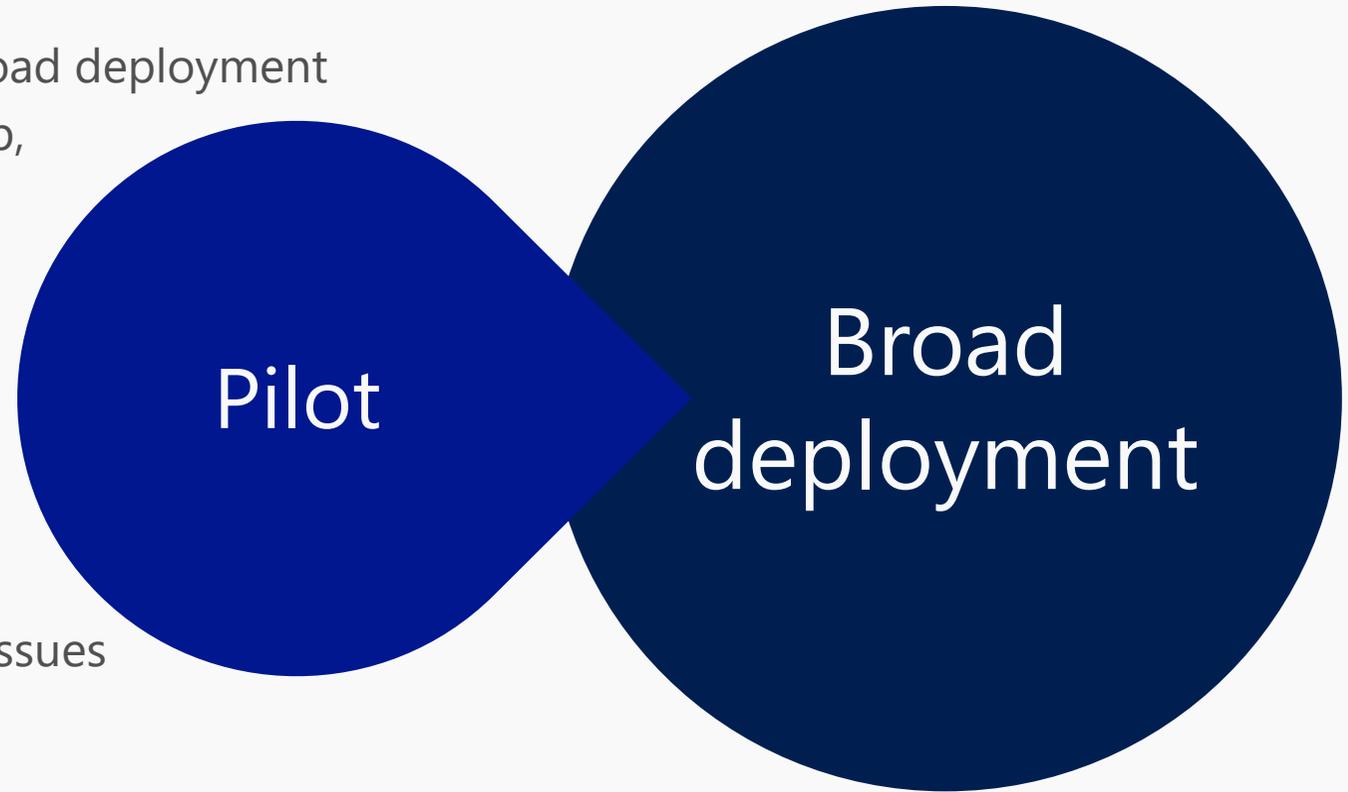
- Stopped formal application compatibility testing program after Windows 8
- 20,000-device pilot is used for validation before broad deployment
- Issues are tracked through telemetry, Feedback Hub, Yammer, and Helpdesk

Safety valves

- Users can opt-out of pilot program
- If there are issues, the update can be rolled back

Lessons learned

- To date, we haven't seen application compatibility issues with this approach
- Need more real-time insights
- Have a plan in place in to address issues



Windows / Desktop Analytics

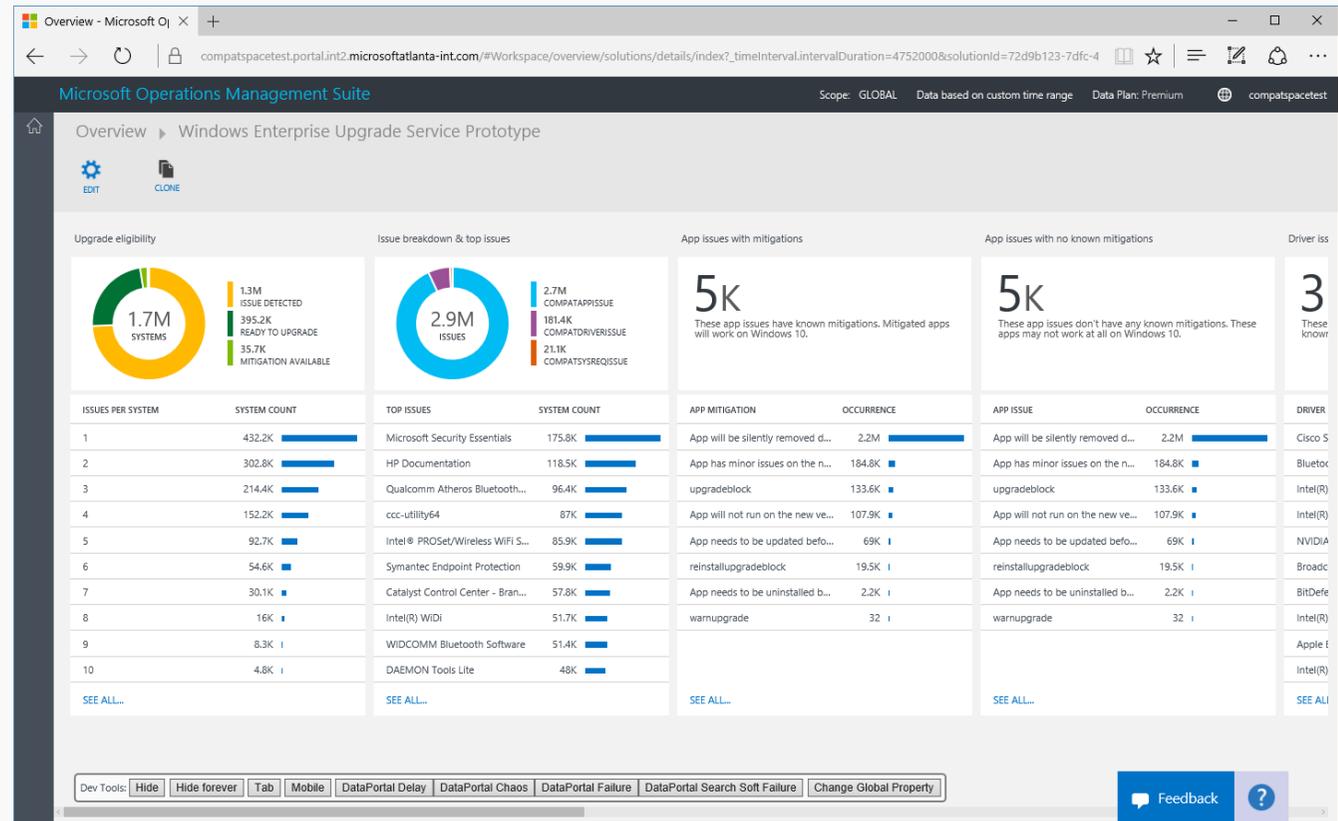
Upgrade readiness provides powerful insights and recommendations about the computers, applications, and drivers in your organization, at no extra cost and without additional infrastructure requirements

Benefits

- Identify applications and devices with known compatibility issues
- Track in-house developed apps
- Prioritize issues for further investigation
- Prioritize test cases based on data
- Integrates with Configuration Manager
- Use for safe device targeting

Read more at <https://docs.microsoft.com/en-us/configmgr/desktop-analytics/overview>

Desktop App Assure: <https://techcommunity.microsoft.com/t5/FastTrack-Blog/Standing-behind-our-application-compatibility-promise-Desktop/ba-p/262110>



Feature update compatibility

Environment

96% of application portfolio is browser-based

1% are universal applications

Edge is the primary browser

Use site list for Edge to Internet Explorer switching

Approach

Test only business critical applications **≈250**

Remaining **≈1,650** applications are tracked through adoption

Business-critical apps use common code bases and tools

≈250 critical applications

≈1,650 applications in business unit portfolios

	Critical	Pass rate
Windows 8	286	97%
Windows 8.1	300	98%
Windows 8.1 Update	138	98%
Windows 10	278	98%
Windows 10 November update	265	100%
Windows 10 Anniversary Update	236	100%
Windows 10 Creators Update	55	100%
Windows 10 Fall Creators Update	204	94%
Windows 10 April Update	205	93%



Go modern

Vision

Can **seamlessly access corporate resources** from any device and internet connection

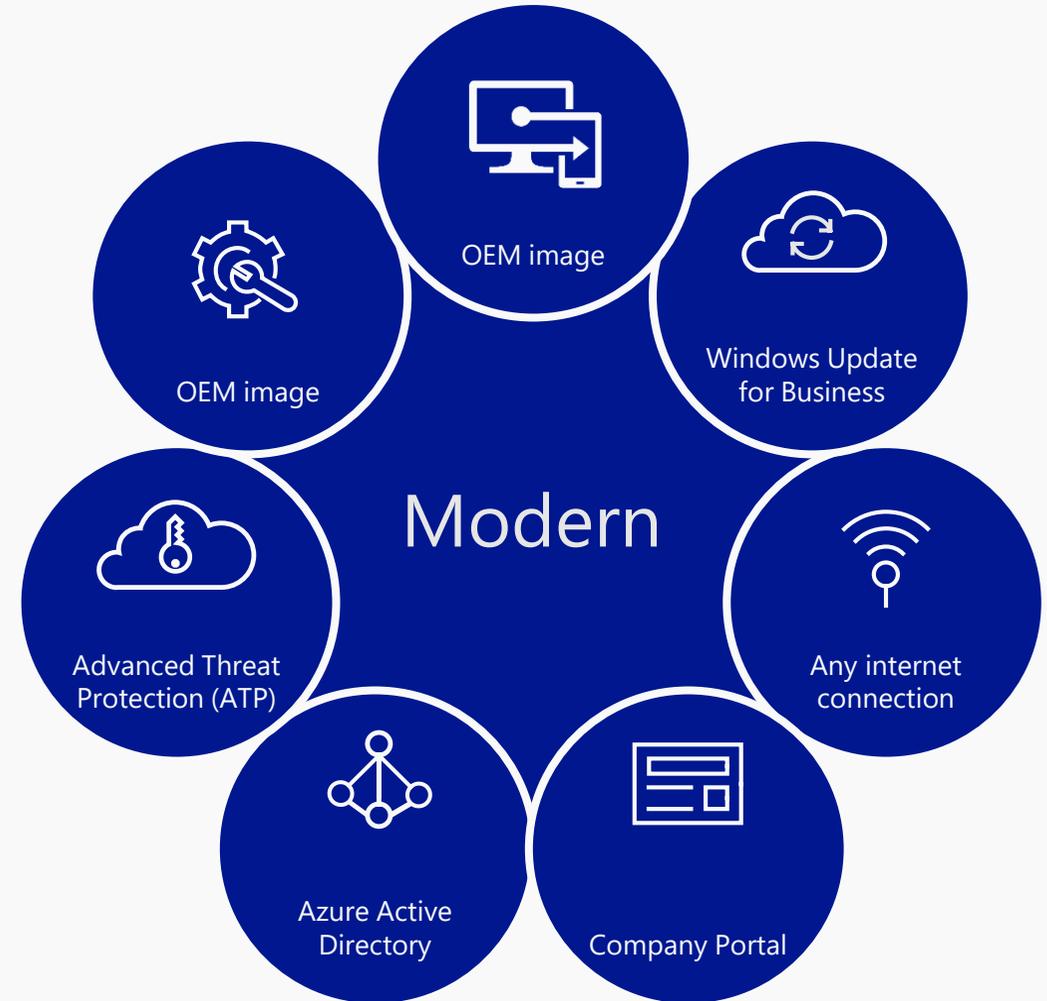
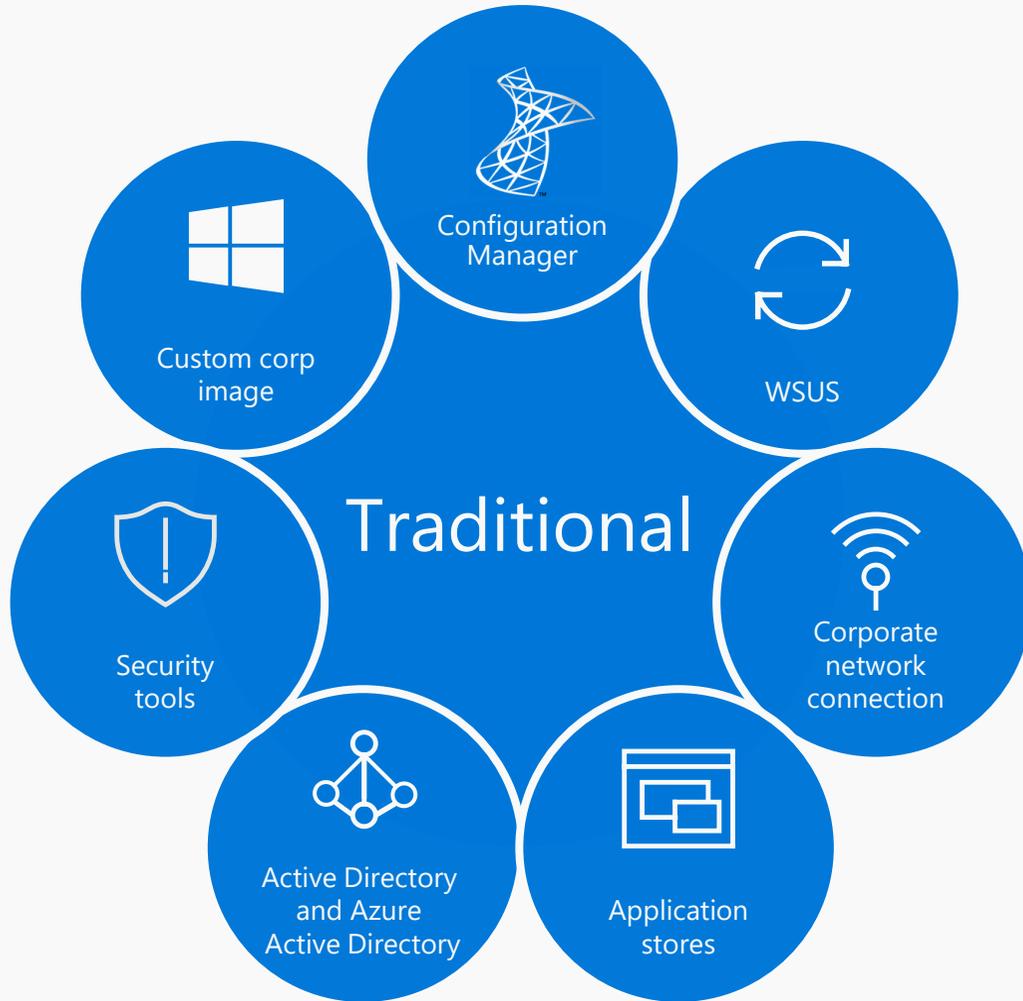
Device management tasks are **transparent to the user**



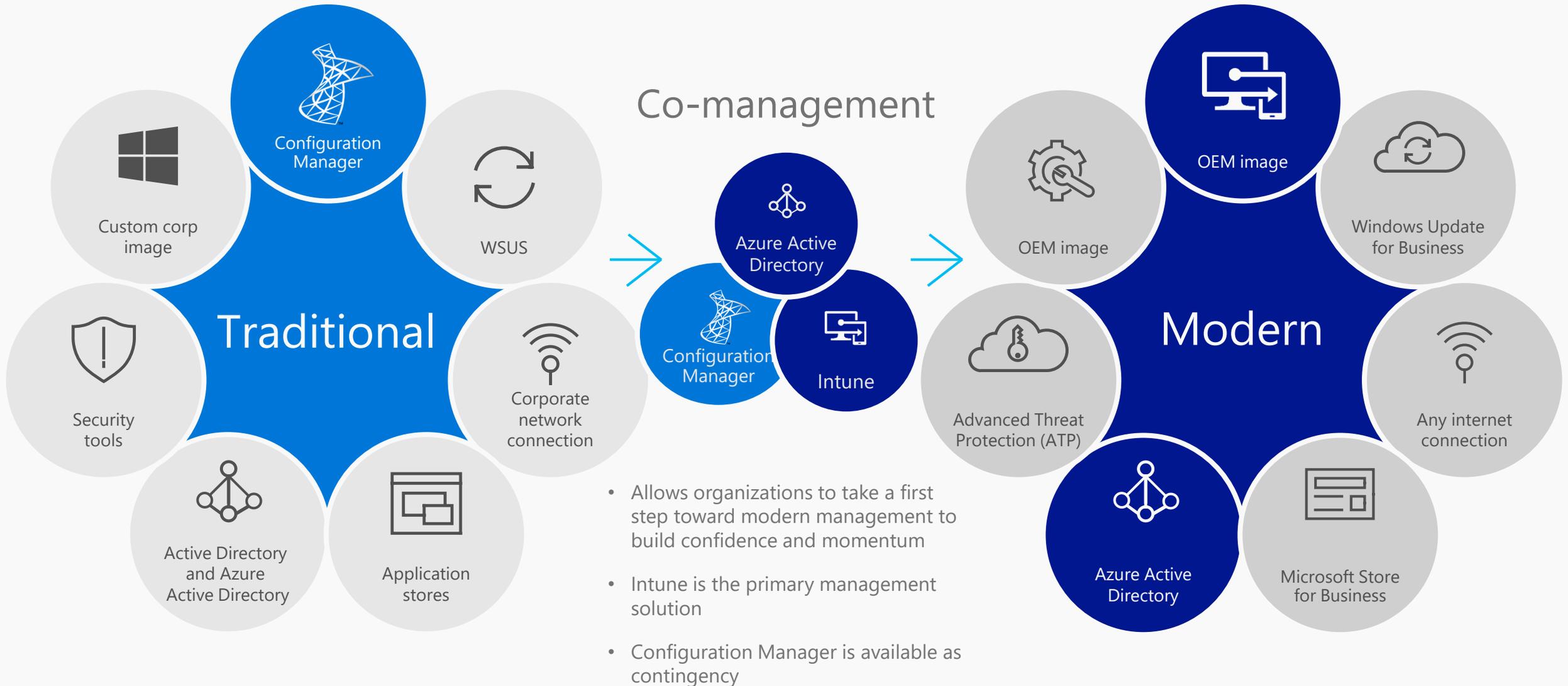
Can **efficiently manage all devices** through the cloud using a **single console with integrated telemetry and automation**

Have confidence their **IP is secure, and environment will remain stable**

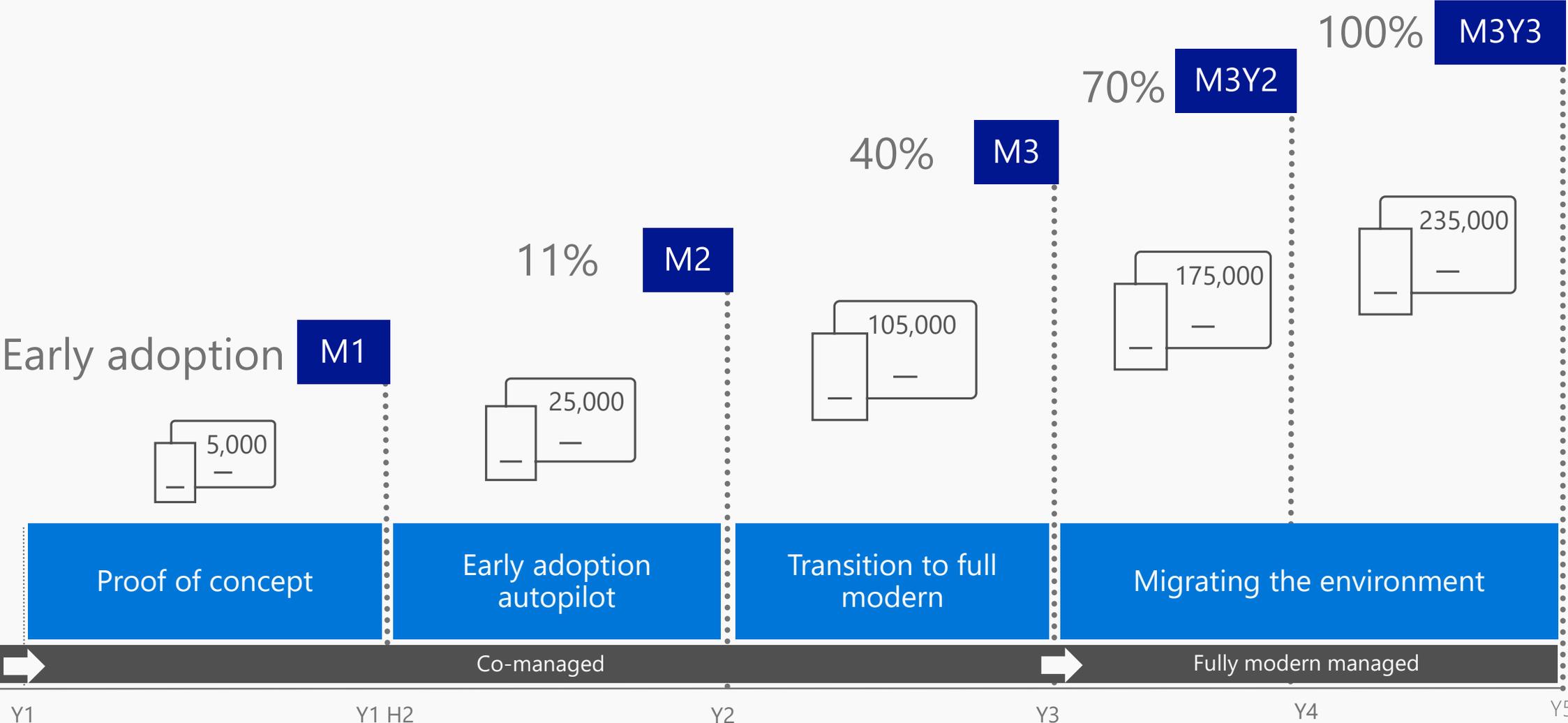
Revolution



Evolution



Our migration



*Where apps available through Microsoft Store



Lessons learned

Lessons learned

User experience



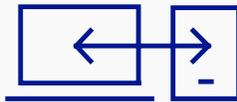
- Configuration Manager OSD pre-caching the build locally before install and improved OSD user notifications update
- Windows Update for Business user interface to schedule update

Adopt agile processes



- Iterate and use proof of concept > pilot > broad deployment
- Build culture to fail fast and move forward
- Don't forget the user community

Compatibility



- Focus on the critical business apps (the top 10 percent)
- Use desktop analytics
- Stop testing apps for monthly quality updates
- Use EmIE to determine how sites open

Windows Update for Business



- Start doing POCs and pilots to enable broad adoption
- Use delivery optimization to minimize internet egress

Go modern



- Start evaluating minimum security requirements
- Build roadmap to adopt using Azure AD, Active Directory, and co-management

Resources

Access all IT Showcase resources at Microsoft.com/ITShowcase

- [Overview of Windows as a service](#)
- [Keeping Windows 10 devices up to date with Microsoft Intune and Windows Update for Business](#)
- [How Microsoft uses Dynamics 365 to manage Windows Update releases](#)
- [Preparing your organization for a seamless Windows 10 deployment](#)



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