

CULTURE CHANGE

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INDEPENDENCE,
INGENUITY





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 **BLAVATNIK**
SCHOOL of GOVERNMENT


The Blavatnik School of Government is a global school pursuing a vision of better government, stronger societies, and richer human opportunities across the world. We examine practices of government in all continents, recognising that societies work in different ways but can learn from one another. We explore challenges and opportunities which demand international cooperation.

Insights on global news, politics and events:




Indian Elections: Should I aspire to become a Modi, RaGa or Kejriwal?

I often ask myself – whom should I consider a role model if I get into electoral politics someday? This is indeed an increasingly relevant question in an Indian context as we...




Are we living in an Orwellian state?

Edward Snowden is now a household name. Judgements about his actions vary: is he a traitor or heroic whistleblower? Regardless of your views, his revelations are having the effect he intended. In an interview just after the initial disclosures, he claimed...




Paving the Way for a New Politics and a New Economics: Thomas Piketty's New Book

Thomas Piketty's book, *Capital in the Twenty-First Century*, has been getting quite a lot of attention in public policy circles. Why are some people so exc...




Climate progress from the bottom up



Ukraine Versus the Vultures

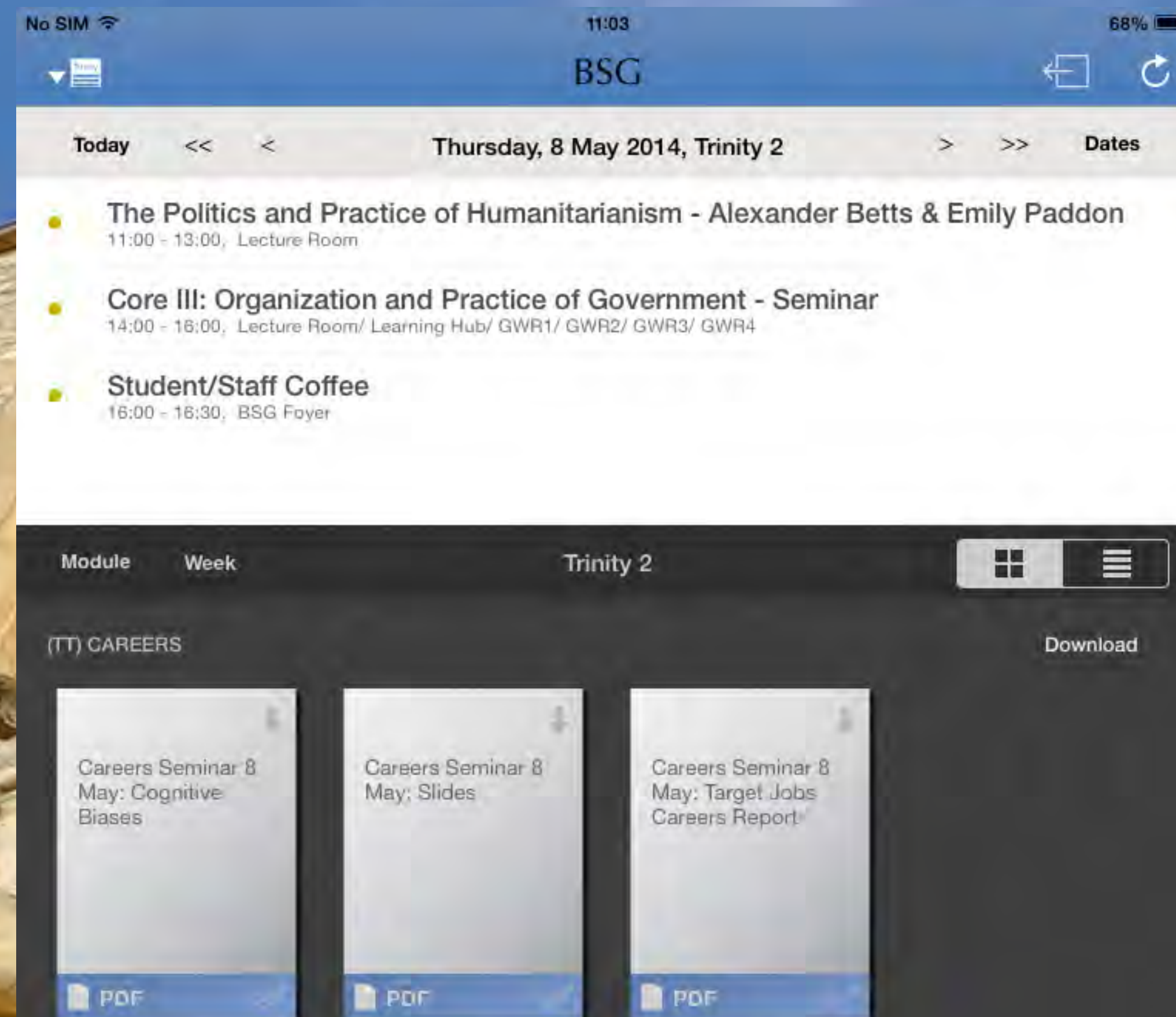
Amid all of its other troubles, Ukraine



Globalizing the Fed

Should the United States worry about

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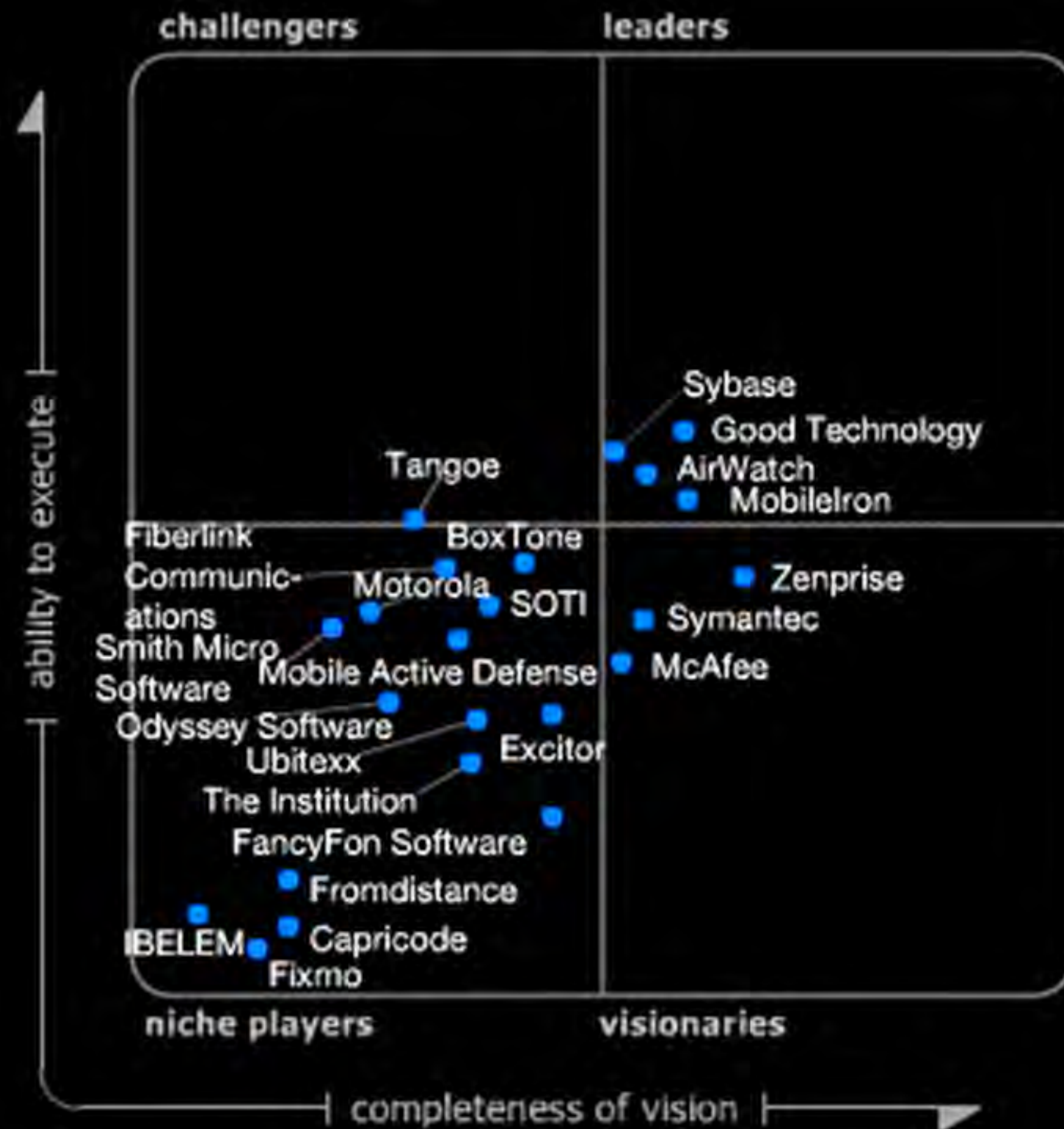


MOBILE DEVICE MANAGEMENT

Enterprise mobility is driven by the need for seamless, yet secure, access to corporate information **anytime, anywhere and from any device.**


Mobile device management (MDM) systems play a key role in enabling a multi-OS/multi-device strategy. MDM systems help enterprises expand the use of mobile devices in the workforce, moving toward an environment in which both enterprise-furnished and bring your own device (BYOD) employee-owned devices can coexist in a secure, controlled environment.

MAGIC QUADRANT FOR MDM



Note : The MDM Market

A number of vendors assessed for this Magic Quadrant were not included, because they did not meet our criteria; however, many of them offer some type of MDM software or services. Examples include:

JAMF
software 



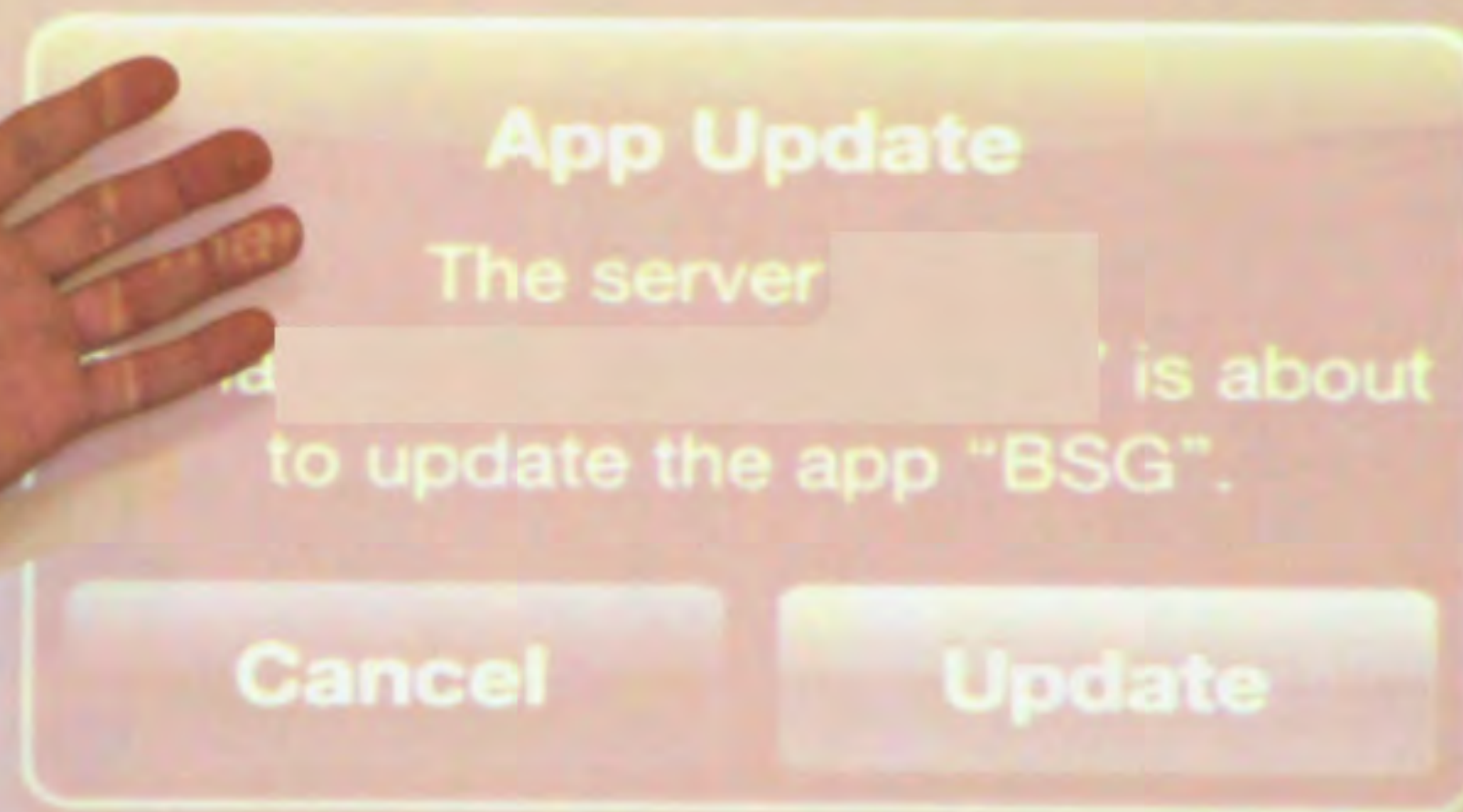
Mobile Oxford



OxRegister



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ENTERPRISE MOBILITY MANAGEMENT

Enterprise mobility management (EMM) suites consist of **policy** and **configuration management** tools and a **management overlay for applications and content** intended for mobile devices based on smartphone OSs.

They are an evolution from **previous-generation mobile device management** (MDM) products that lacked application and content management. IT organisations and service providers use EMM suites to deliver IT support to mobile end users and to maintain security policies.



EMM COMPLIANCE CHECK



Enterprise mobility management (EMM) suites [...] consist of a **management overlay for applications and content** [...]

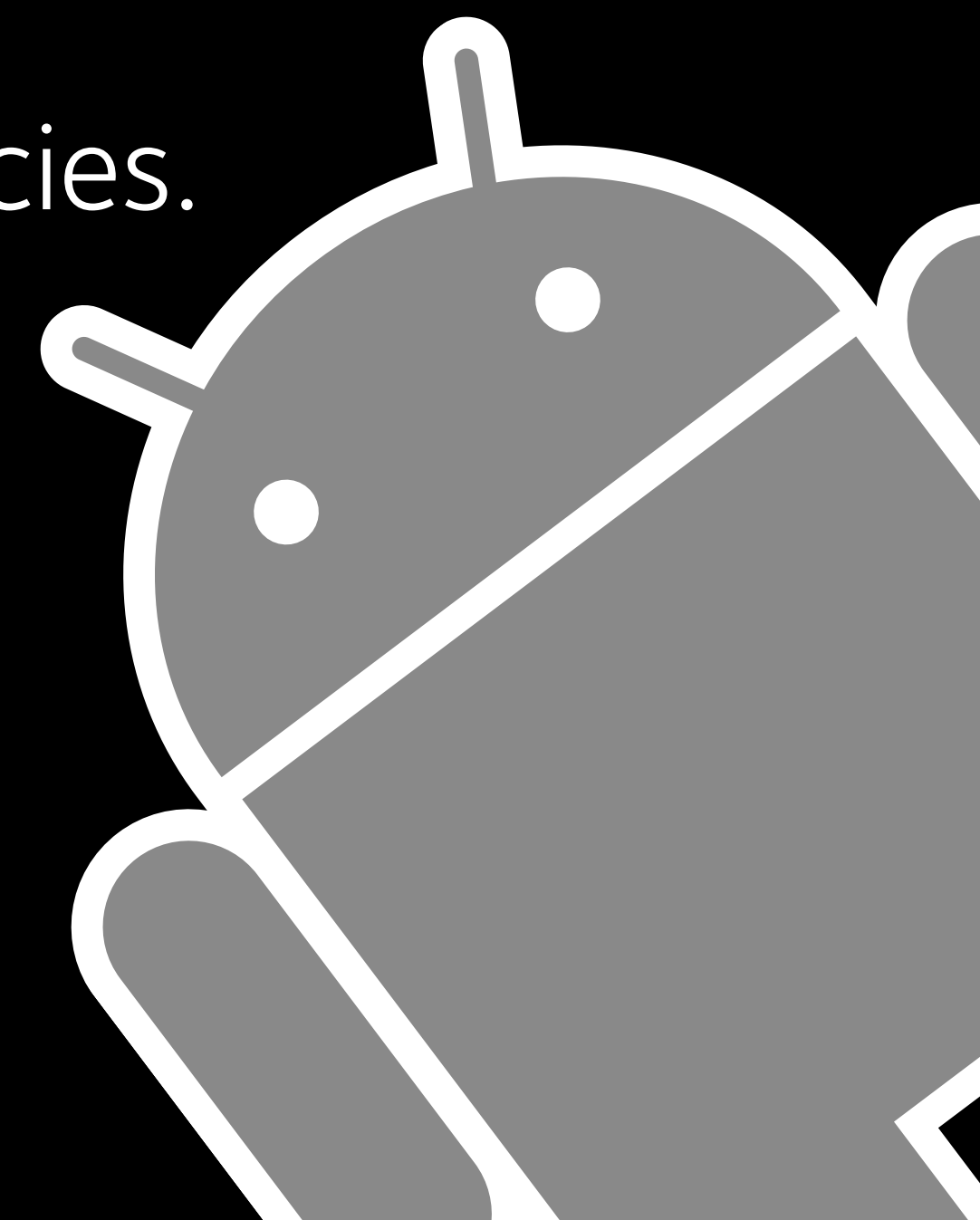
- ✓ BSG App is deployed as managed App
- ✓ Content controlled via Sakai virtual learning environment

IT organisations [...] use EMM suites to [...] maintain security policies.

- ✓ Profiles and restrictions controlled via JSS

[...] enabling a **multi-OS/multi-device strategy** [...]

- ✗ iPad only





LESSONS LEARNED



- Avoid vendor lock-ins
- Use HTML5 content wherever possible
- Use (in App) Single-Sign-On
- Protect content using proper encryption (e.g. TLS, per App VPN)
- Embrace open standards
- Facilitate Open Source technology wherever possible

Orchard



Product for all University units, departments and colleges

- Software as a Service
- Fully integrated in the Oxford environment
- Full iOS MDM (Provisioning, Profiles, Apps, eBooks)
- Limited Android MDM
- Casper Focus
- Consultancy and project support



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EMM suites consist of [...] a management overlay for applications and content intended for **mobile devices based on smartphone OSs**.



Product for all University units, departments and colleges

- Centrally managed OS X environment
- “One size fits all” approach
- Weekly software maintenance for selected applications
- Dedicated help desk for Mac users
- “Beta” support for MacBooks



OLD VS NEW STYLE?

Orchard DEPLOYMENT MODEL



Partitioning



OS X



Updates



Directory
Binding



Config



Branding



Apps



Weekly
Maintenance

Orchard DEPLOYMENT MODEL



Apple DEP



Updates



Directory
Binding



Config



Branding



Apps



App Store

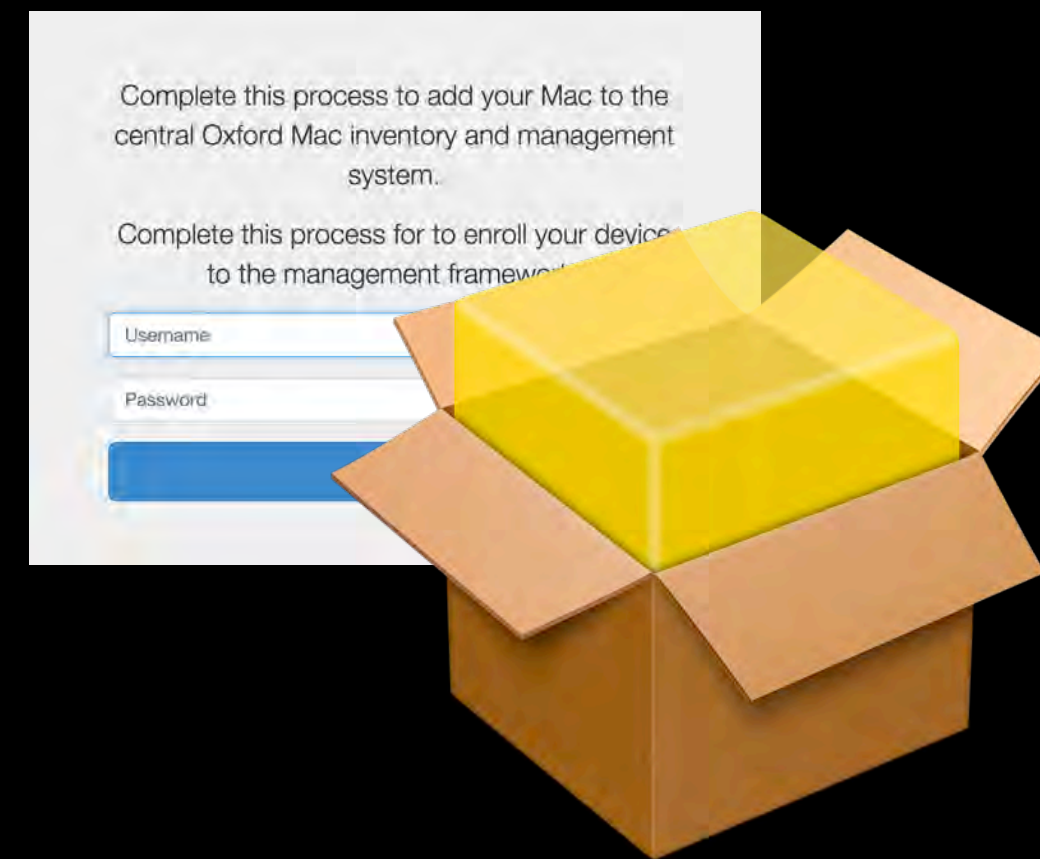


Weekly
Maintenance

DEPLOYMENT WORKFLOWS



NetBoot & Imaging



Enrolment



OS Upgrade



DEP / MDM



PLANTING

Prerequisites:

- Standardised partitioning for workstations and laptops
- JAMF management framework installed

Planting is a custom ~~action~~^{event} trigger^{event}:

- Management Account and remote access
- Security settings
- Kick off existing deployment workflow



DEVICE ENROLMENT PROGRAM

- Use MDM to install a custom plist
- Run a script
- Download required components
- Kick off the planting process



DEP / MDM

FUTURE OF NETBOOT

- Factory reset – deliver ‘vanilla’ OS X
- Add just a Desktop icon to enrolment page
- Automate NetBoot image creation
using Ben Tom’s
<https://github.com/macmule/AutoCasperNBI>





MAC APP STORE



MAC APP STORE PRODUCT USAGE RULES

Except as otherwise set forth herein, [...]

(ii) If you are a commercial enterprise or educational institution, you may download a Mac App Store Product for use by either (a) a single individual on each of the Mac Computer(s) used by that individual that you own or control, or (b) multiple individuals on a single shared Mac Computer that you own or control. **For example, a single employee may use a Mac App Store Product on both the employee's desktop Mac Computer and laptop Mac Computer, or multiple students may serially use the Mac App Store Product on a single Mac Computer located at a resource centre or library.** For the sake of clarity, each Mac Computer used serially by multiple users requires a separate licence.

MAC APP STORE STRATEGY



- Facilitate Volume Purchase Program (VPP2)

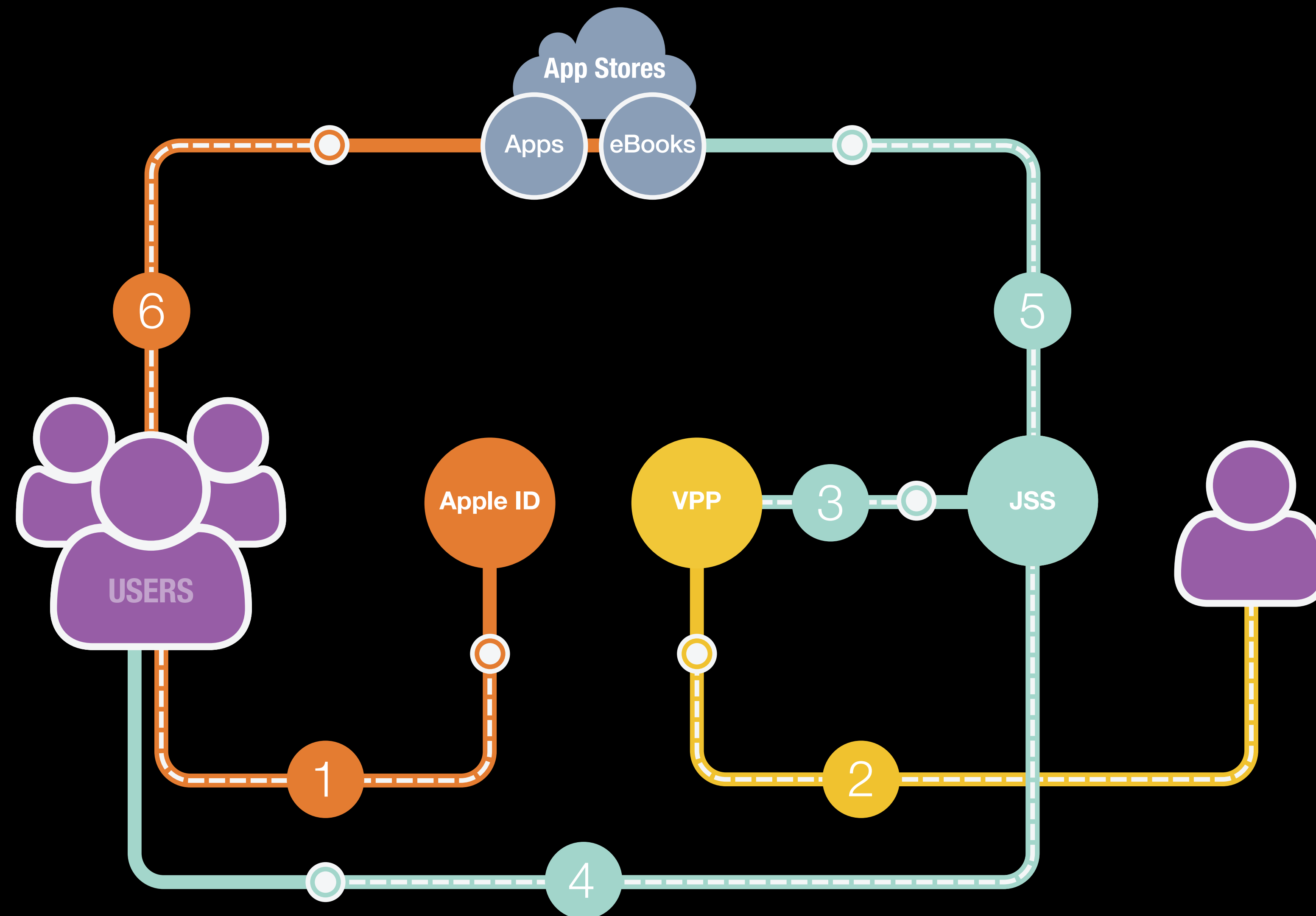
http://images.apple.com/education/docs/VPP_Education_Guide_EN_Feb14.pdf

- Casper Suite has nice integration with VPP

<http://resources.jamfsoftware.com/documents/technical-papers/Simplifying-Device-Enrollment-and-Content-Distribution-using-DEP-VPP-and-the-Casper-Suite-v9.4-or-Later.pdf>

- Add users to `_appstore` local access control group
- Configure App Store using MCX or Profile
- Ensure appropriate policies and HR guidelines are in place

VPP2 WORKFLOW



NON-APP STORE STRATEGY

- Automate packaging
autopkg / aampporter
- Deploy via
 - Munki 2
 - Casper Policy & Smart Group





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Orchard DESKTOP



- Orchard branded JAMF Software Server cluster
- Centralise and automate repetitive tasks
- Empower departmental IT Support Staff
- Delegate user support
- Multiple service levels
- Release early, release often – be prepared to fail





Orchard SERVICE LEVELS



MOBILE

Full featured Mobile Device Management:

- Provisioning
- Profiles
- Apps
- eBooks
- Casper Focus

DESKTOP INVENTORY

Full visibility and daily updated inventory of the OS X fleet.

Plus 6 months trial of:

- Self Service for site licensed Apps
- Information Security Best Practice Profile
- Remote Support tool

DESKTOP MANAGEMENT

Full featured Apple workstation management

- Multiple service tiers
- ITSS has full control over their fleet
- All well known Oxford Mac Desktop features
- Access to management tools (Casper Suite)



THANK YOU

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<http://mju.ng/give>