

*Aegis Identity Software, Inc. presents*  
**Trends in Identity and Access  
Management in Higher Education to  
US Federations**

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# Agenda

- Introduction
- Survey review
- IAM Basics
- Survey results
- Analysis / inferences
  - Identity & Access Management
  - Federation

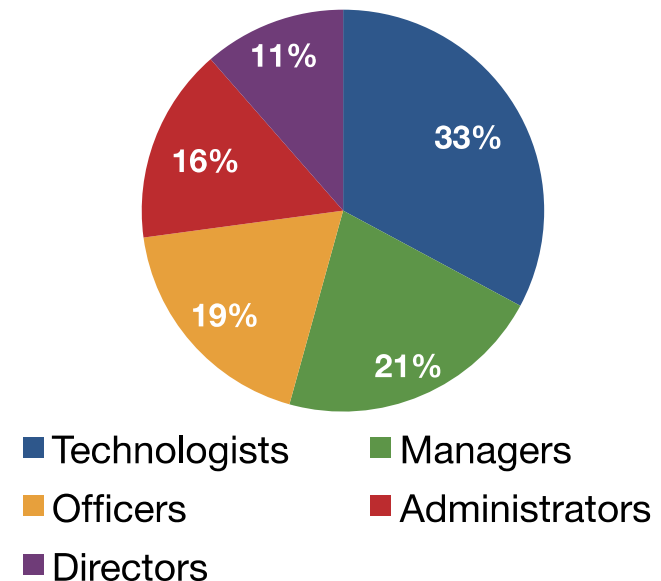
## Survey overview

- Conducted Jan 1, 2012 and Mar 15, 2012
- 8,432 phone calls were placed to institutions of higher education
- 165 live calls and 96 fully completed surveys.
- The data and analysis focused on
  - Use of IAM technologies
  - Drivers of the utilization
  - Challenges on campus or in pursuing the technology
- Focused on foundational IAM (provisioning/pw management)
- Direct inferences can be made in federation

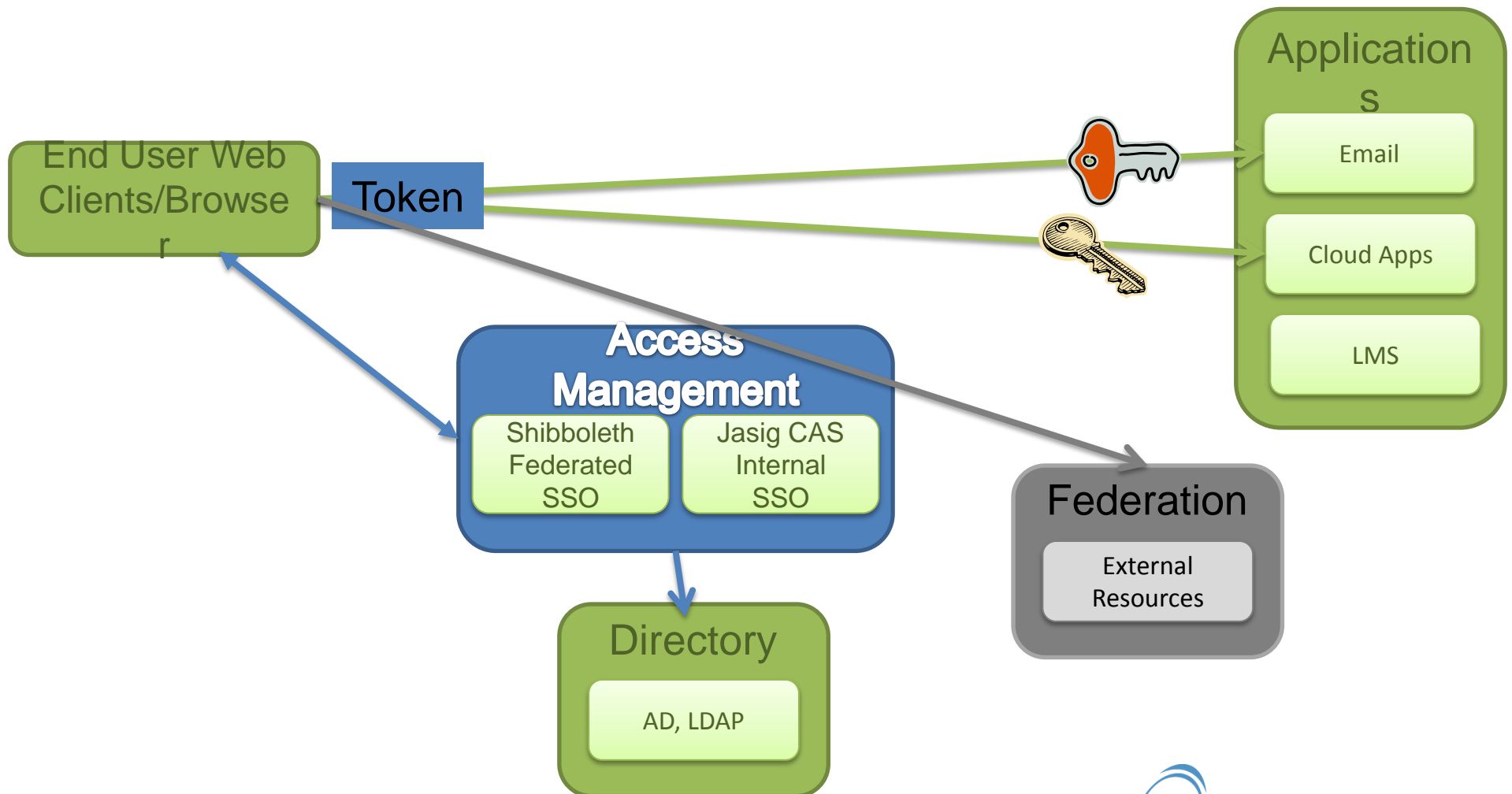
## IAM Survey Framework

- IAM Technology Utilization / Plans
- Business Drivers
- Challenges
- Institutional support, identity solution delivery, and value
- Emerging technologies

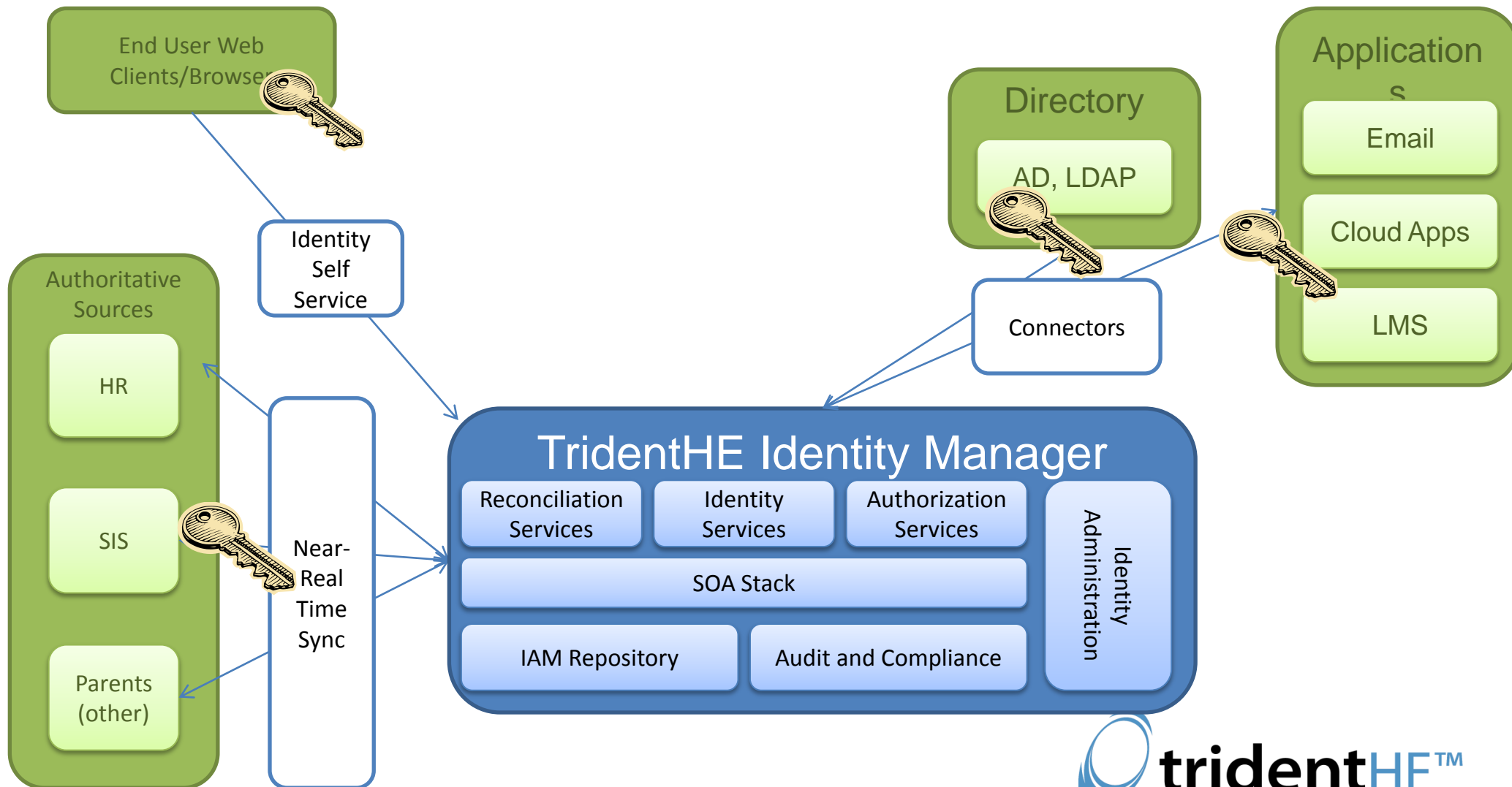
Profile of respondents



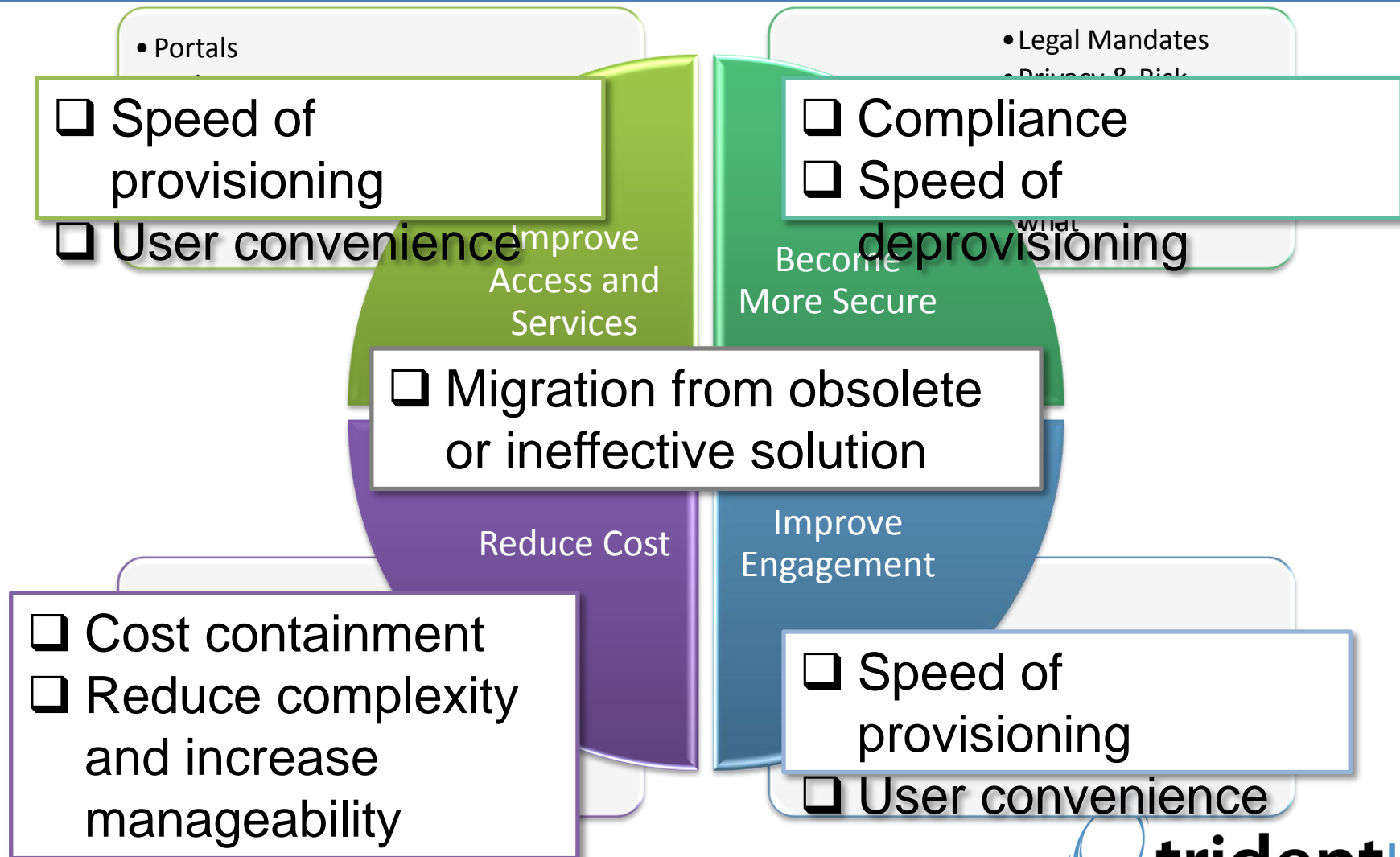
# Single Sign On



# Identity Administration

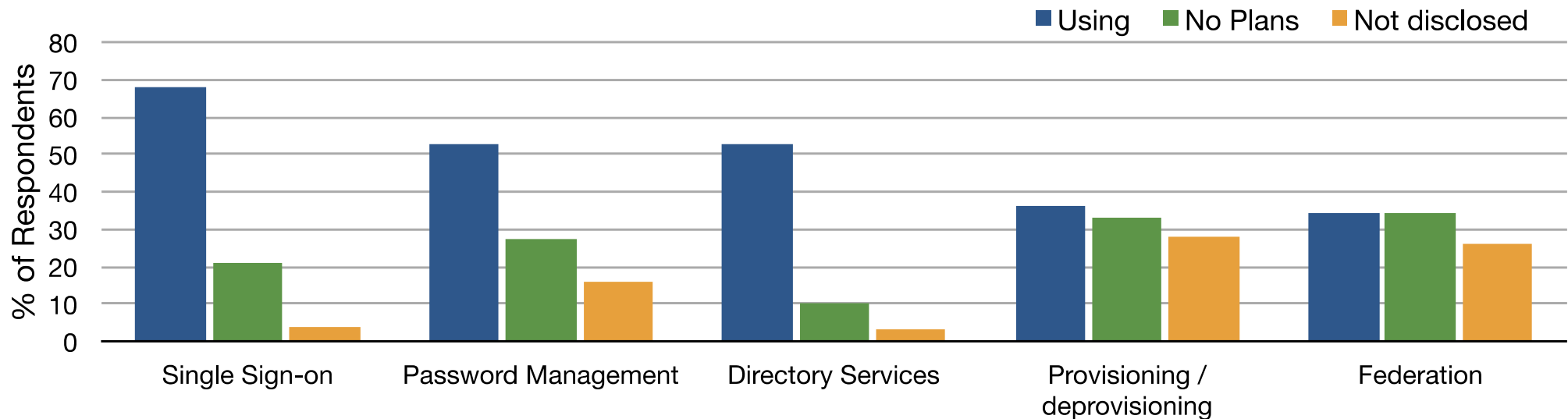


# Identity Management Drivers



# Use of Identity & Access Mgmt

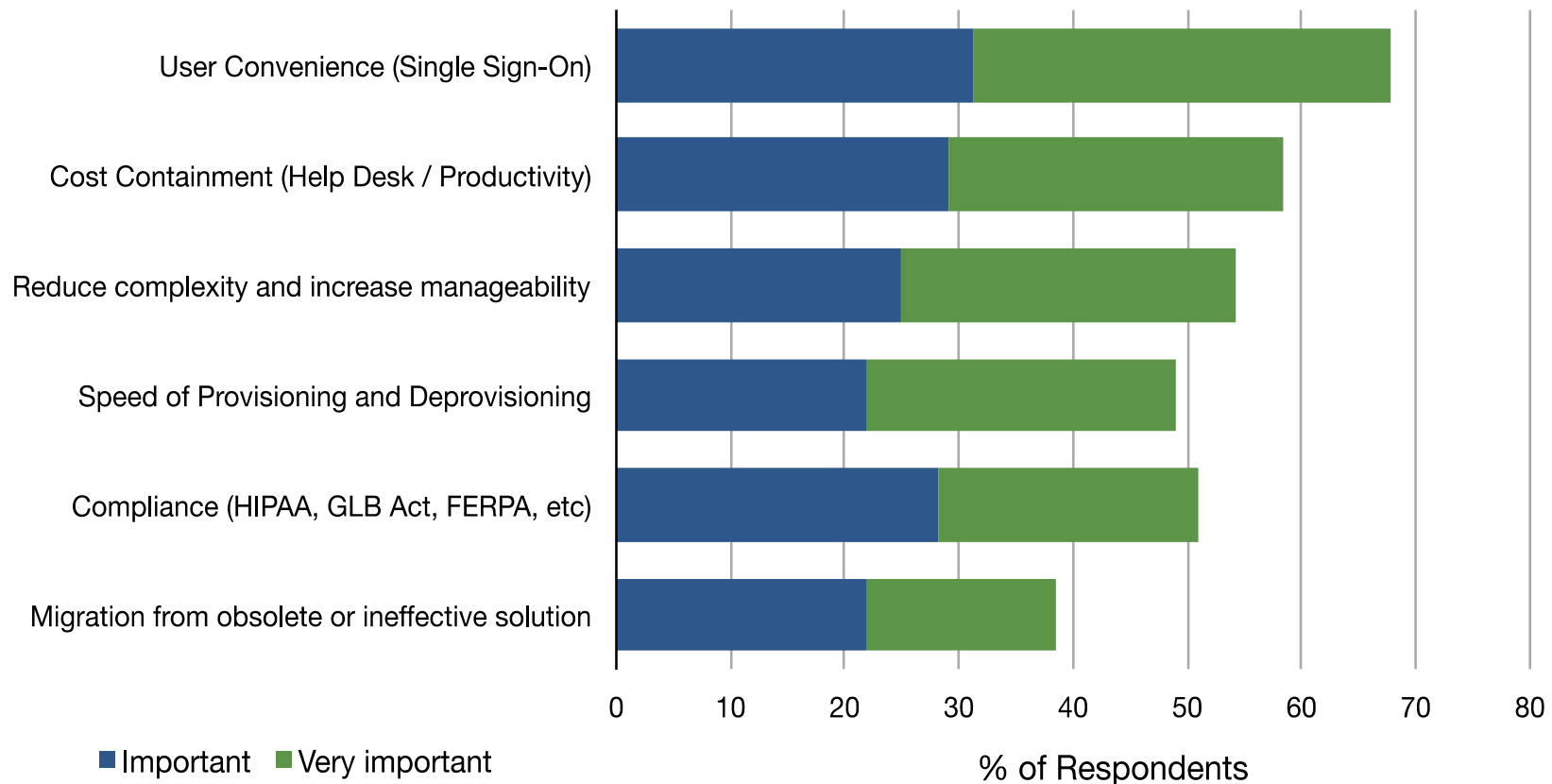
## Use of IAM Technology





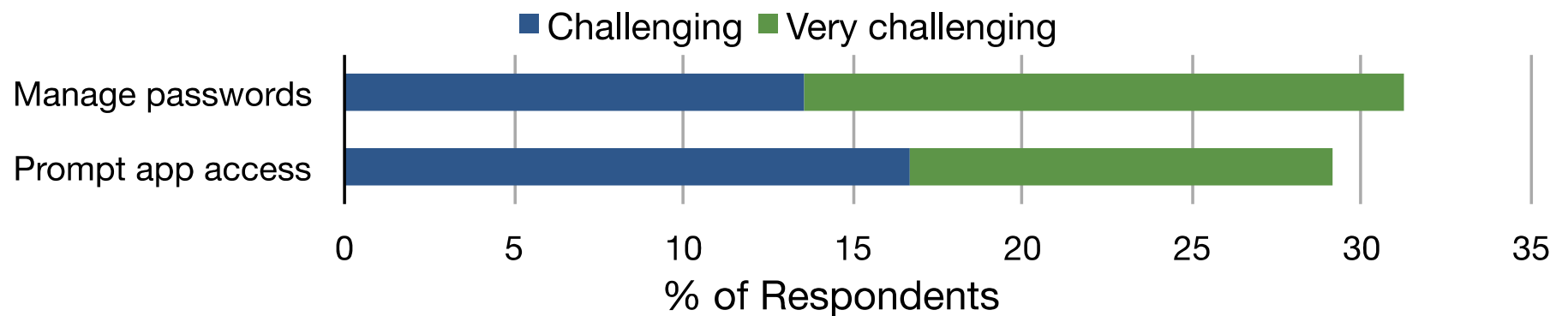
# Drivers

## Drivers for IAM Technology



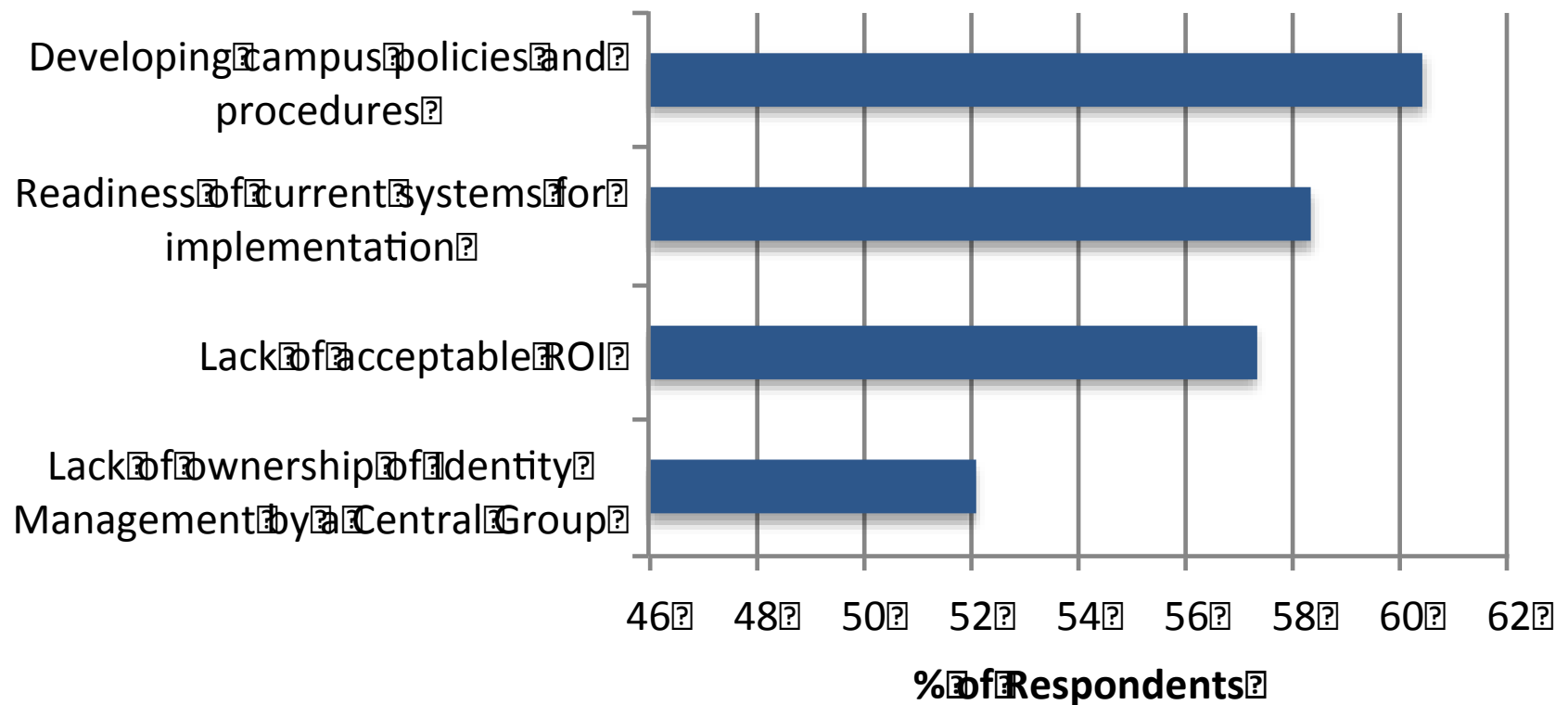
# Provisioning

## Challenge of key IAM Technologies

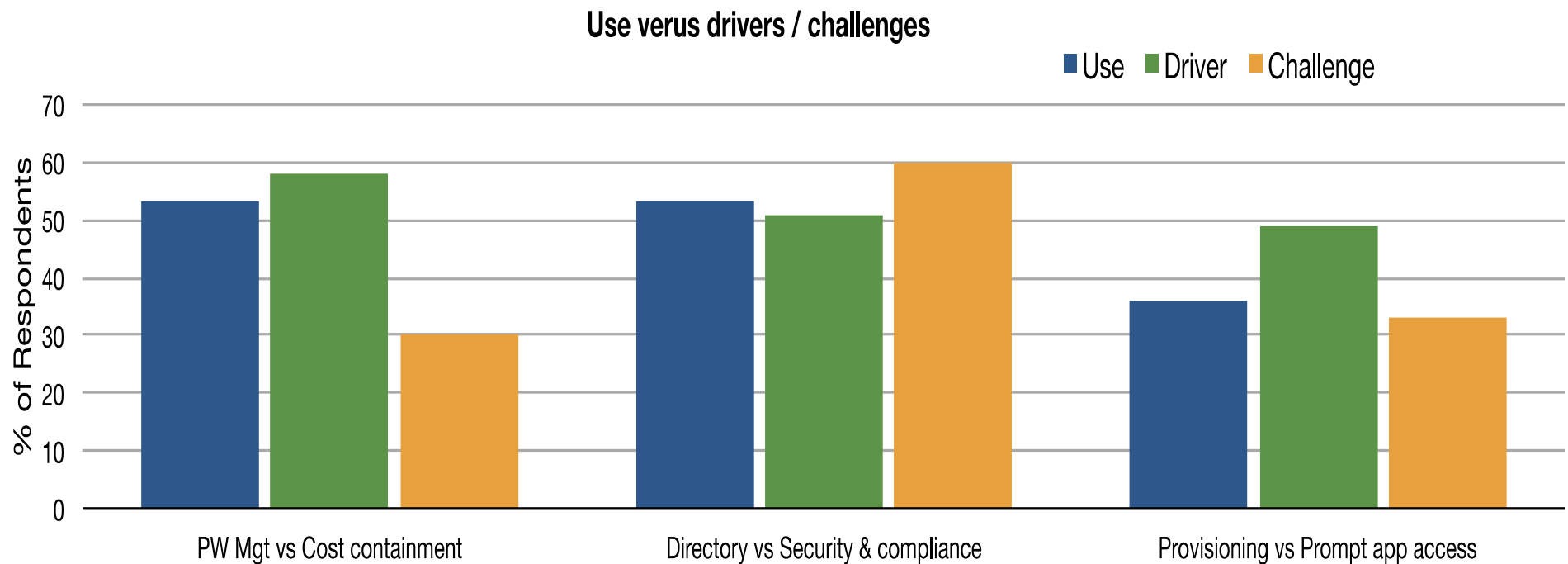


## Challenges - Pursuing IAM

### Challenges to Pursuit of IAM

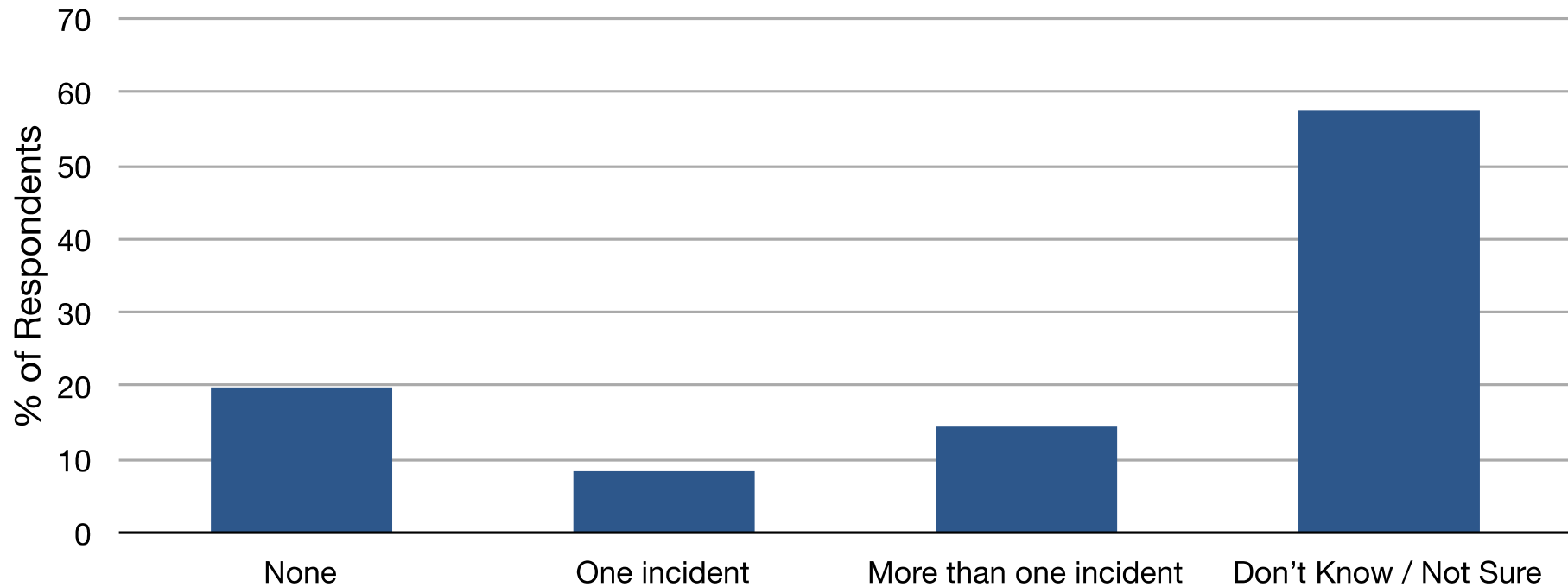


# Comparing Use - Drivers - Challenges



# Security

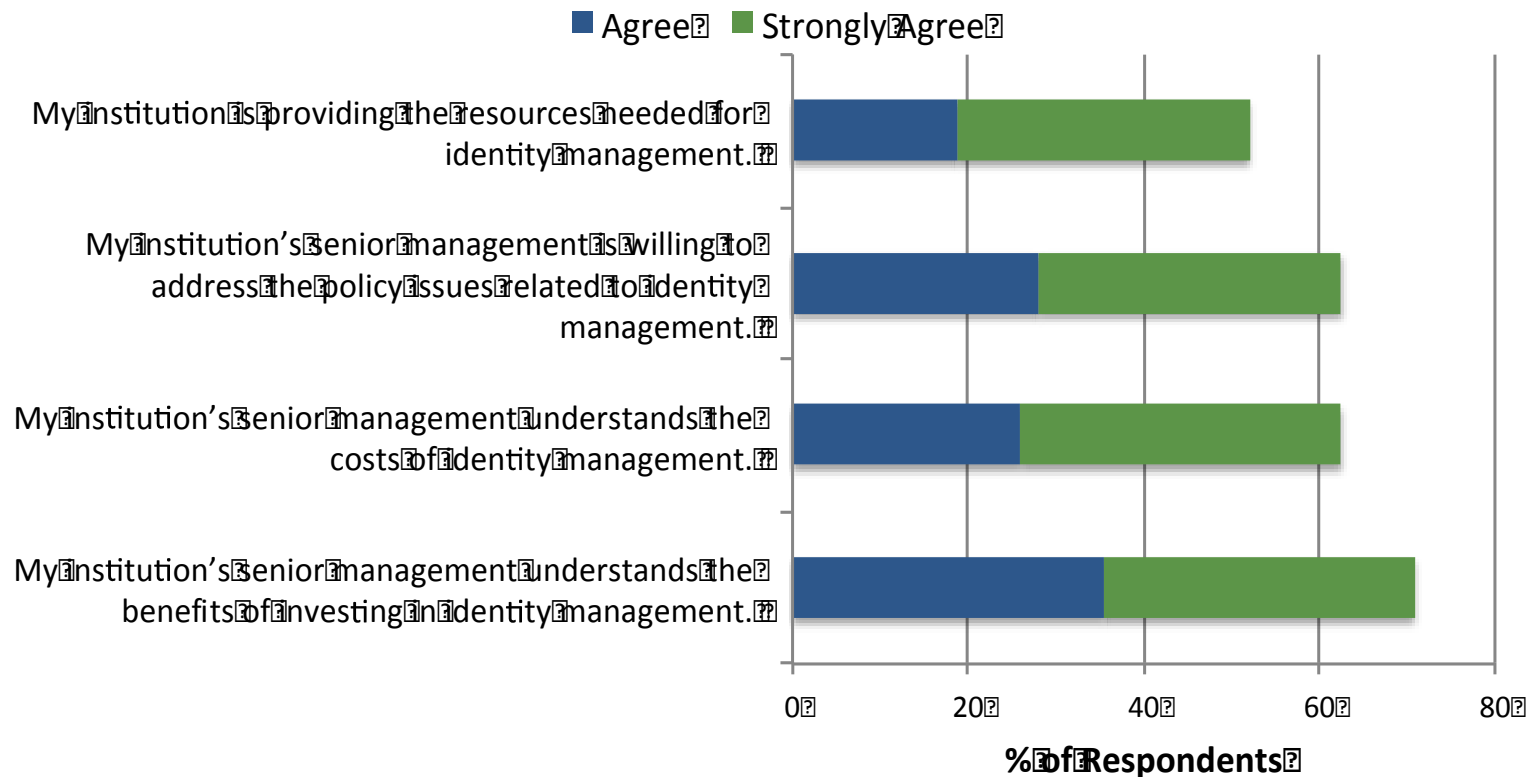
## Significant security incidents experience



How many significant security incidents related to user identification, authentication or authorization has your institution experienced in the past 2 years?

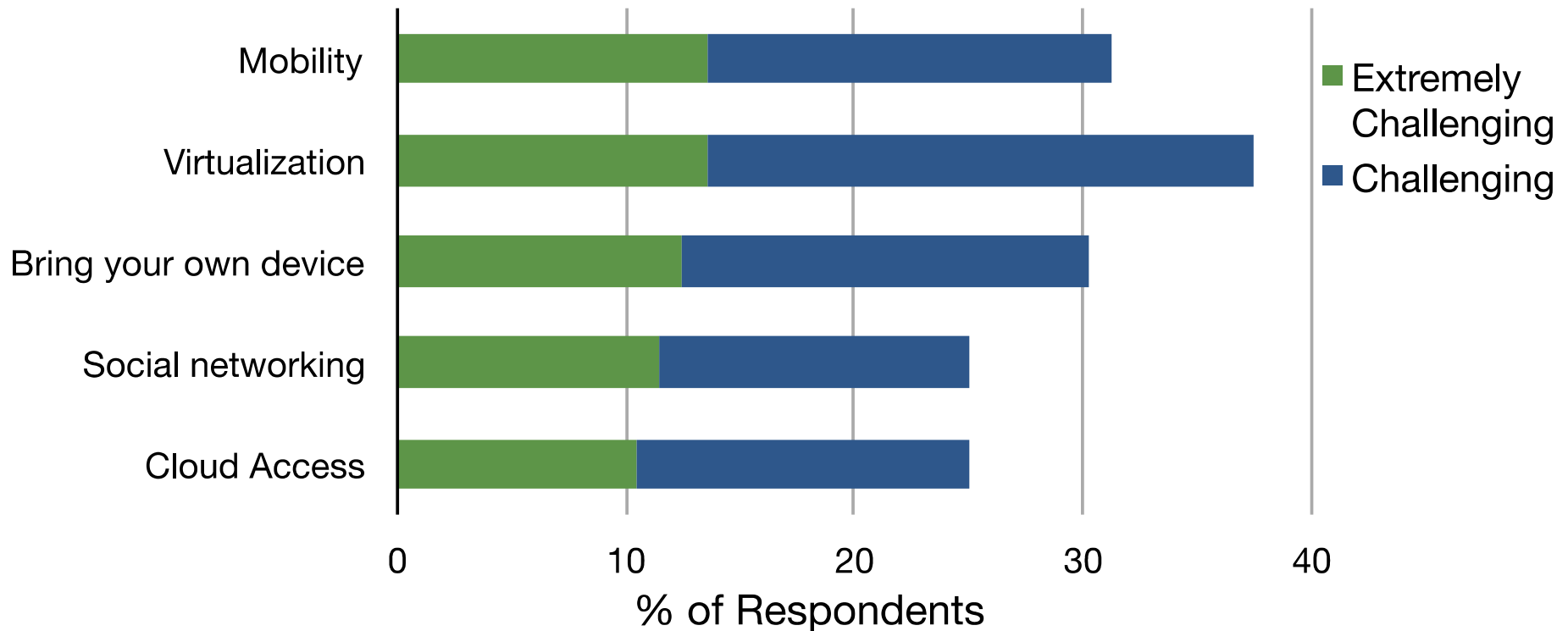
# Executive and Institutional Support

## Institutional support



# Impact of Emerging Technology

## Challenges of Emerging Technologies to IAM



## Findings and Implications

- SSO is utilized and the benefits achieved
- Directory is deployed and ready for IAM
- Password management deployed but the benefits have not been as strong
- Provisioning is underutilized but drivers indicate benefits could be gained
- Federation is emerging – further study is probably warranted (27% did not disclose)
- Institutional support exists
- New campus technologies will impact IAM



## Federation Emergence

- Survey indicates equal numbers of use and no use, as well as no answer
- Clearly a topic but not viewed as strategic
  - 57% in our survey have no plans/no disclosure
- Possibly tied to concerns for management, policy, and user convenience
- Busy with other technical activities

## Causes for divergent growth

- User need vs strategic direction
- Complexity and knowledge of requirements of federation
- Desire to maintain network status quo
- Incorrect implementation of initial technology
- Visibility into what drivers are for federation
- Perceived daunting ramp up
  - tech, policy, Assurance

## Keys to growth

- SSO in heavy use – but identity/attribute management is still developing
- Understanding of risk/reward
- Understanding of expertise in house
  - Will need staff early in process
- More education more often
  - Public awareness
  - Come from their view, not our own

## Challenges and Opportunities

- Parallel activities by community
  - Beginners and Initial Federations
  - Federations of Federations
  - Balance of Acceleration vs Entrenchment
- Protocols
  - Will it be just the next thing? SAML, Oauth, OpenID
- Social nets – same issues as BYOD – but more variations
- App networks – will they be like iPad (fickle users)
- Feds of feds – CAUTION
  - buying networks of the 1<sup>st</sup> dot com bubble