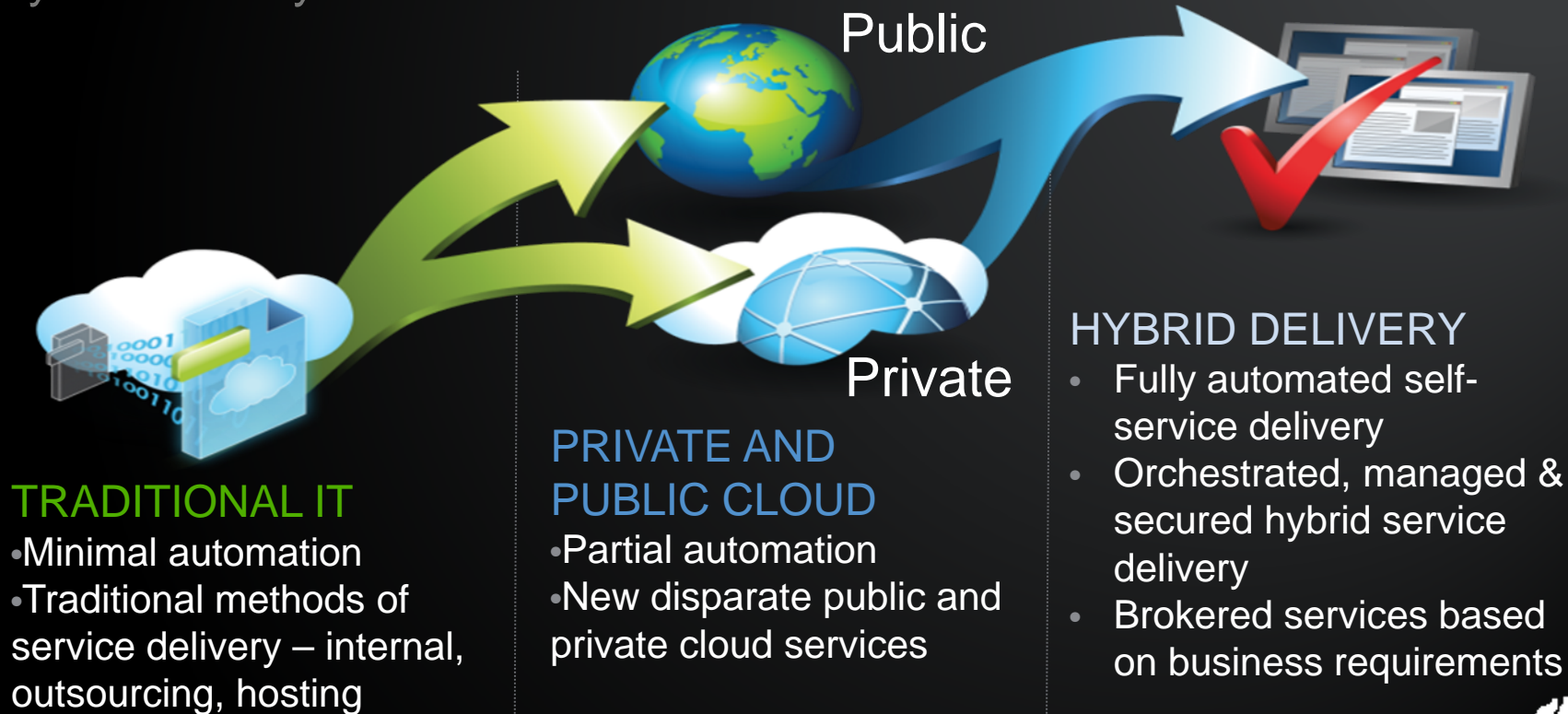


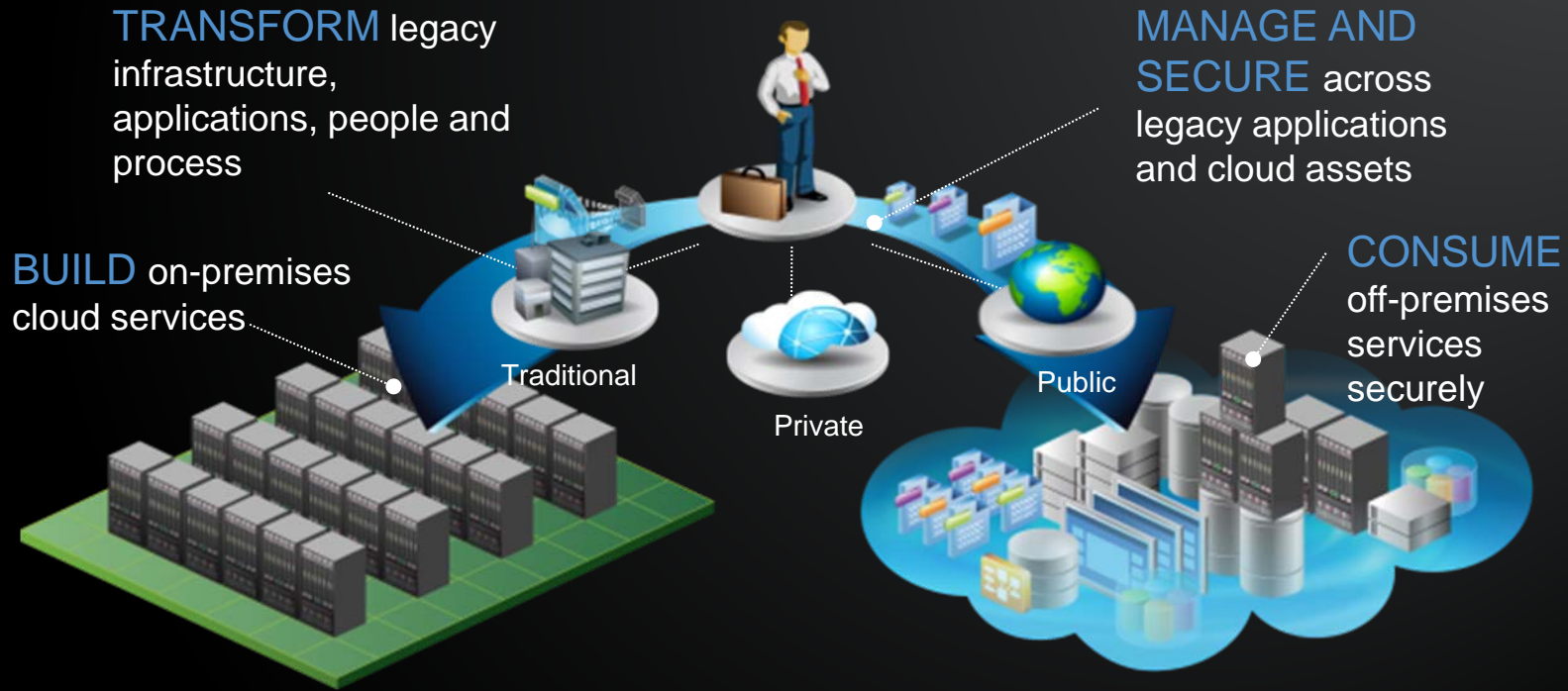
Evolving business models

Hybrid delivery mix and cloud

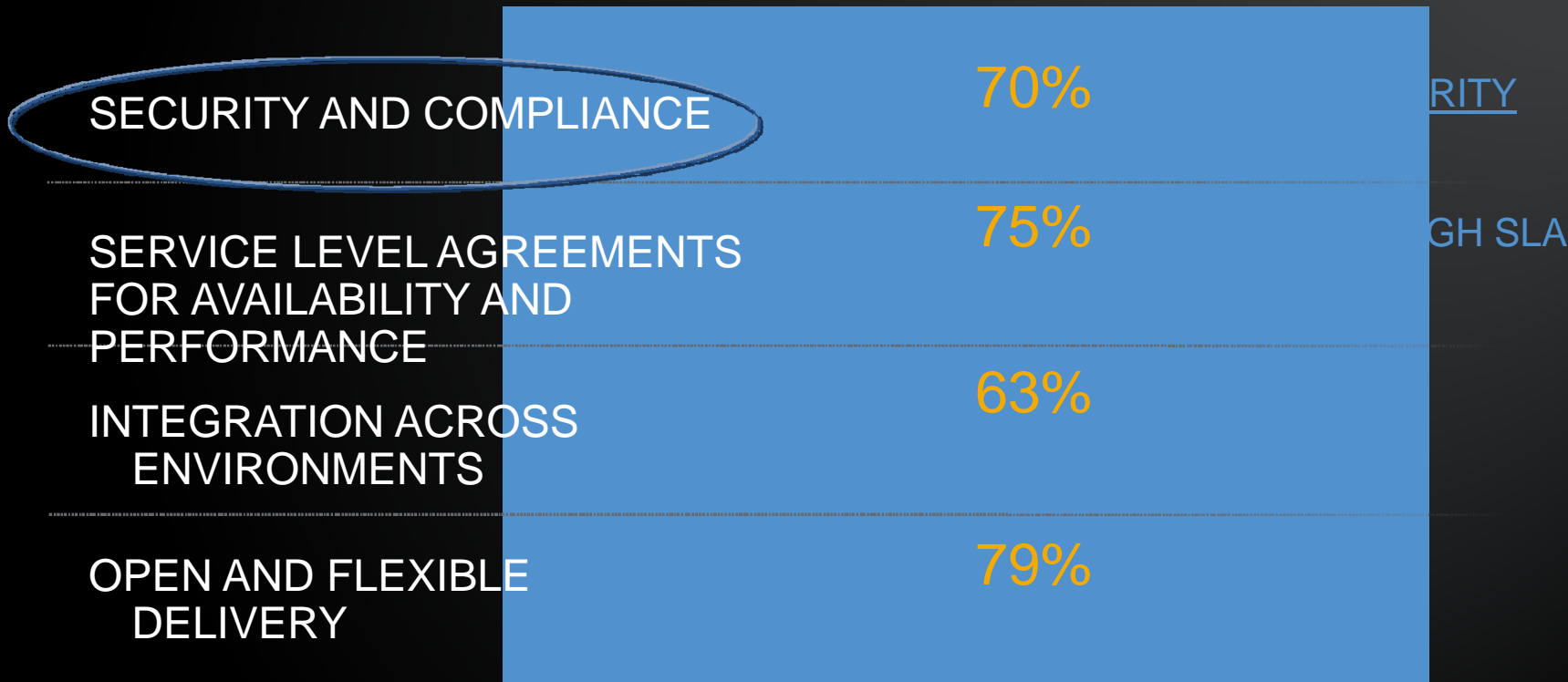


Strategic Role of CIO Changing

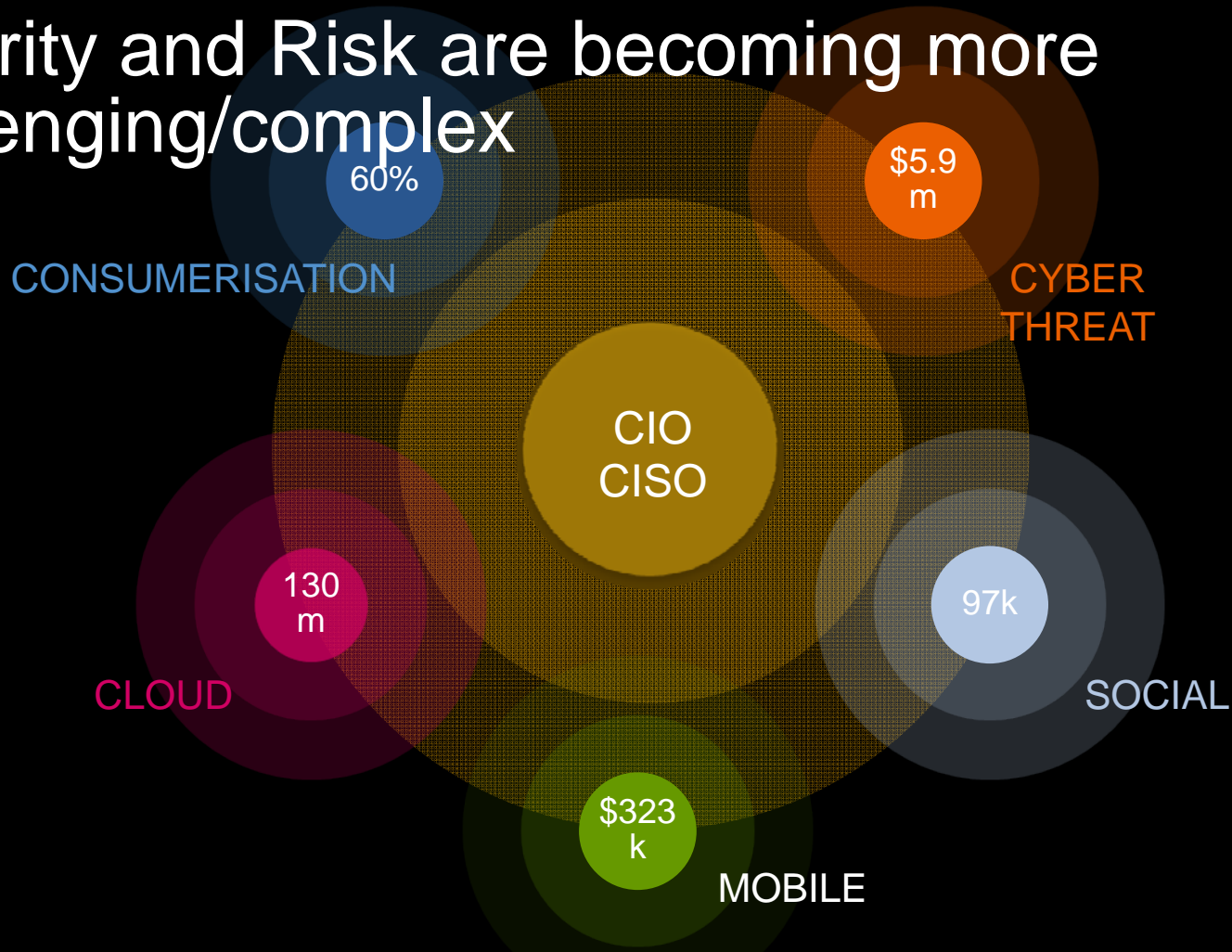
CIO becomes the builder and broker of services in Hybrid Delivery



CIO barriers to cloud adaption



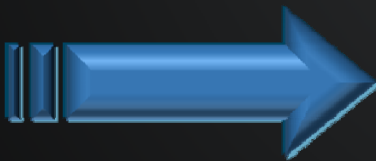
Security and Risk are becoming more challenging/complex



Security in Hybrid Cloud Era

From

- IT and product focused
- Defensive and reactive
- Fragmented
- Internal data governance



To

- Business risk focused
- Built-in and proactive
- Centralized
- Hybrid data governance

HP/CSA RESEARCH

THE 7 DEADLY CLOUD SECURITY RISKS

1. Abuse and Nefarious Use of Cloud Computing
2. Insecure Application Programming Interfaces
3. Malicious Insiders
4. Shared Technology Vulnerabilities
5. Data Loss/Leakage
6. Account, Service & Traffic Hijacking
7. Unknown Risk Profile

<http://www.cloudsecurityalliance.org/topthreats>



Top Threats to Cloud Computing V1.0

Prepared by the
Cloud Security Alliance
March 2010

HP is a member

March 2010

Cloud Security Alliance

Prepared by the



Cloud security business needs beyond just threats

“Cloud Security Alliance” Threat mitigation

- Abuse and Nefarious Use of Cloud Computing
- Insecure Application Programming Interfaces
- Malicious Insiders
- Shared Technology Vulnerabilities
- Data Loss/Leakage
- Account, Service & Traffic Hijacking
- Unknown Risk Profile

Process related Threat mitigation

- Virtual machine lifecycle threats
- Remote access threats
- Data lifecycle threats
- Identity and access management threats
- Cloud-bursting threats

Regulatory Compliance

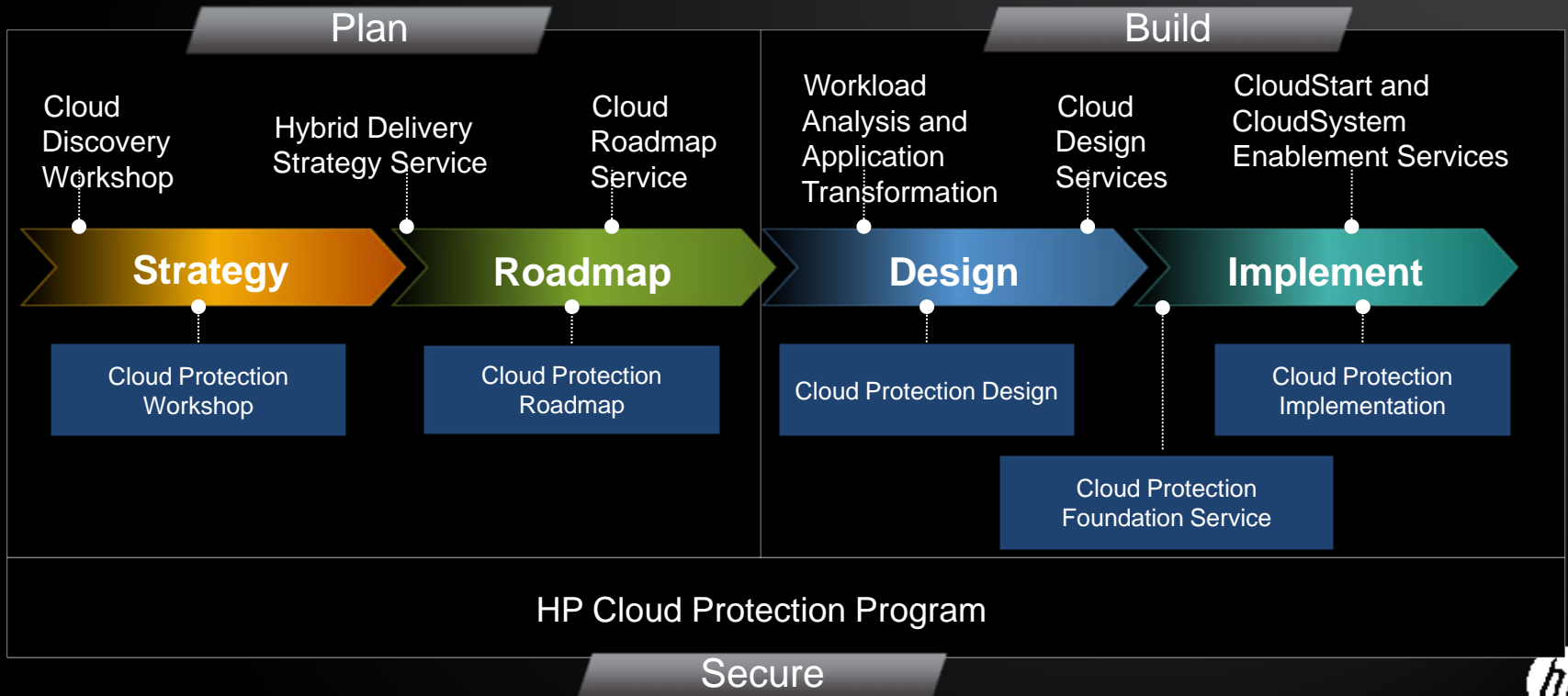
- PCI DSS
- HIPAA
- FISMA
- ISO 27001

Secure Business Operations

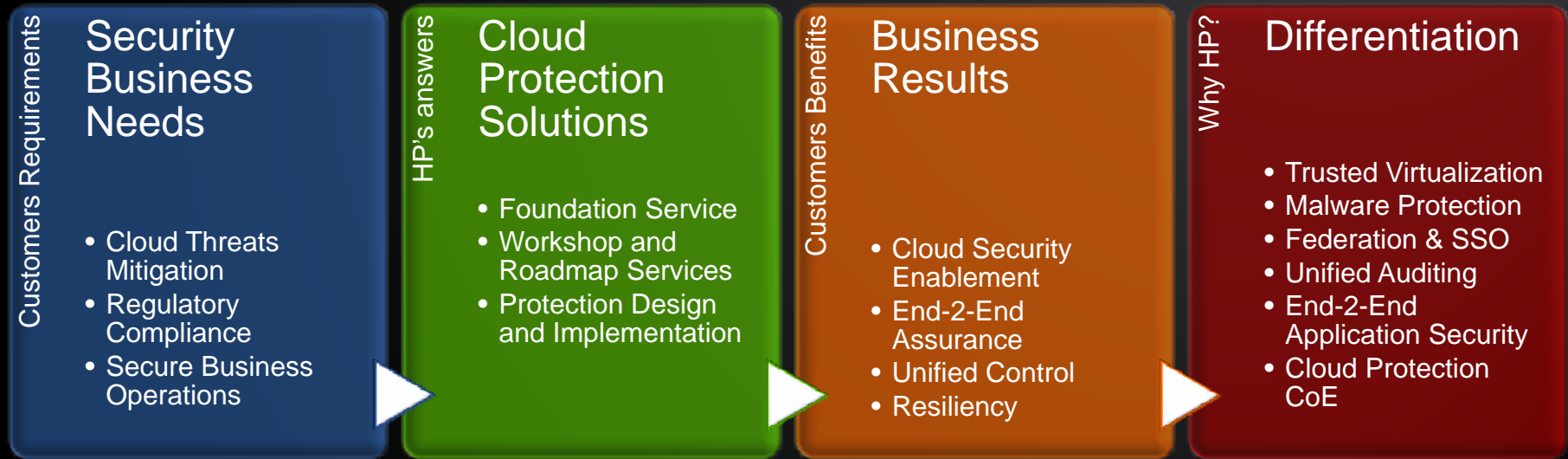
- Availability
- Accuracy
- Access
- Agility



Building security into cloud strategy, design and implementation



HP Cloud Protection Value Framework



Cloud Protection - Technical Innovations

Trusted Virtualization

Detect and Block infected VMM
Location-based VM Migration

Malware Protection

Protect VMM, VM OS, host OS and communications

Federation & SSO

Simple federation and SSO between hybrid clouds and public CSPs

Unified Auditing

SIEM and Audit for the entire cloud and legacy infrastructure

End2End App Security

End2End software assurance for the cloud (PaaS – SaaS)

HP Labs & broad integration expertise

HP and partners technology

HP Cloud Protection Center of Excellence

HP Cloud Protection Reference Architecture (Functional View)

