Cloud Computing
GreenGov Symposium

Bajinder Paul
Deputy Associate Administrator
General Services Administration

Transforming Federal IT Management

greengov SYMPOSIUM



IT & Electronics – Session 1
The Future of Cloud Computing

October 31, 2011

A Fundamental Shift in IT

greengov SYMPOSIUM

Efficiency, Agility, Innovation

Improved Resource Utilization
Increased Service Responsiveness
On-Demand, Highly Reliable Service
IaaS, Paas, SaaS
Economies of Scale

Leveraging the Cloud



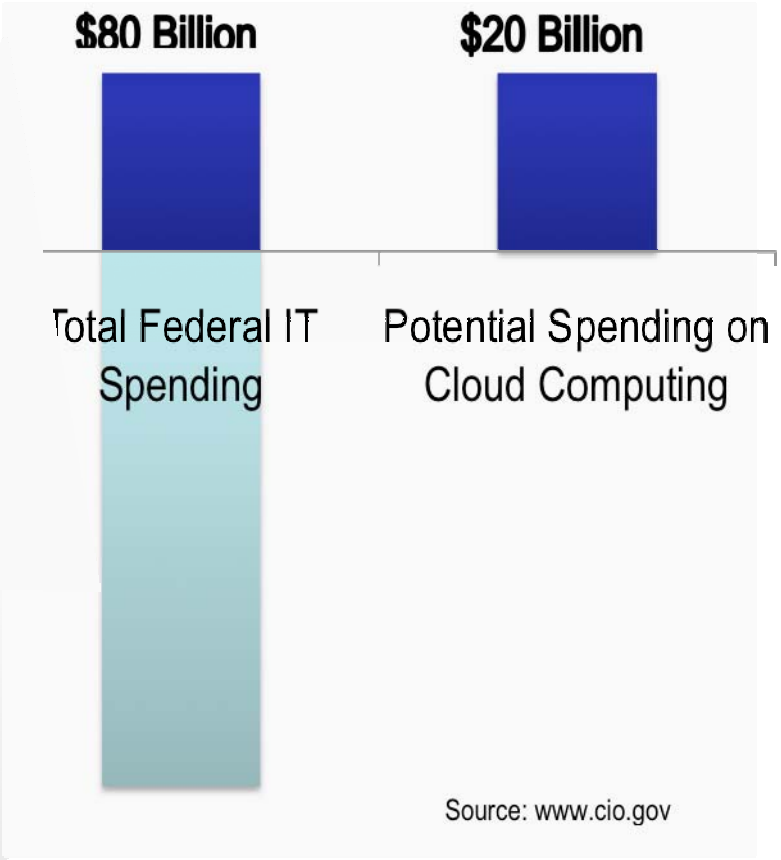


Low Asset Utilization
Fragmented Demand for Resources
Duplication of Systems
Difficult to Manage
Long Procurement Times

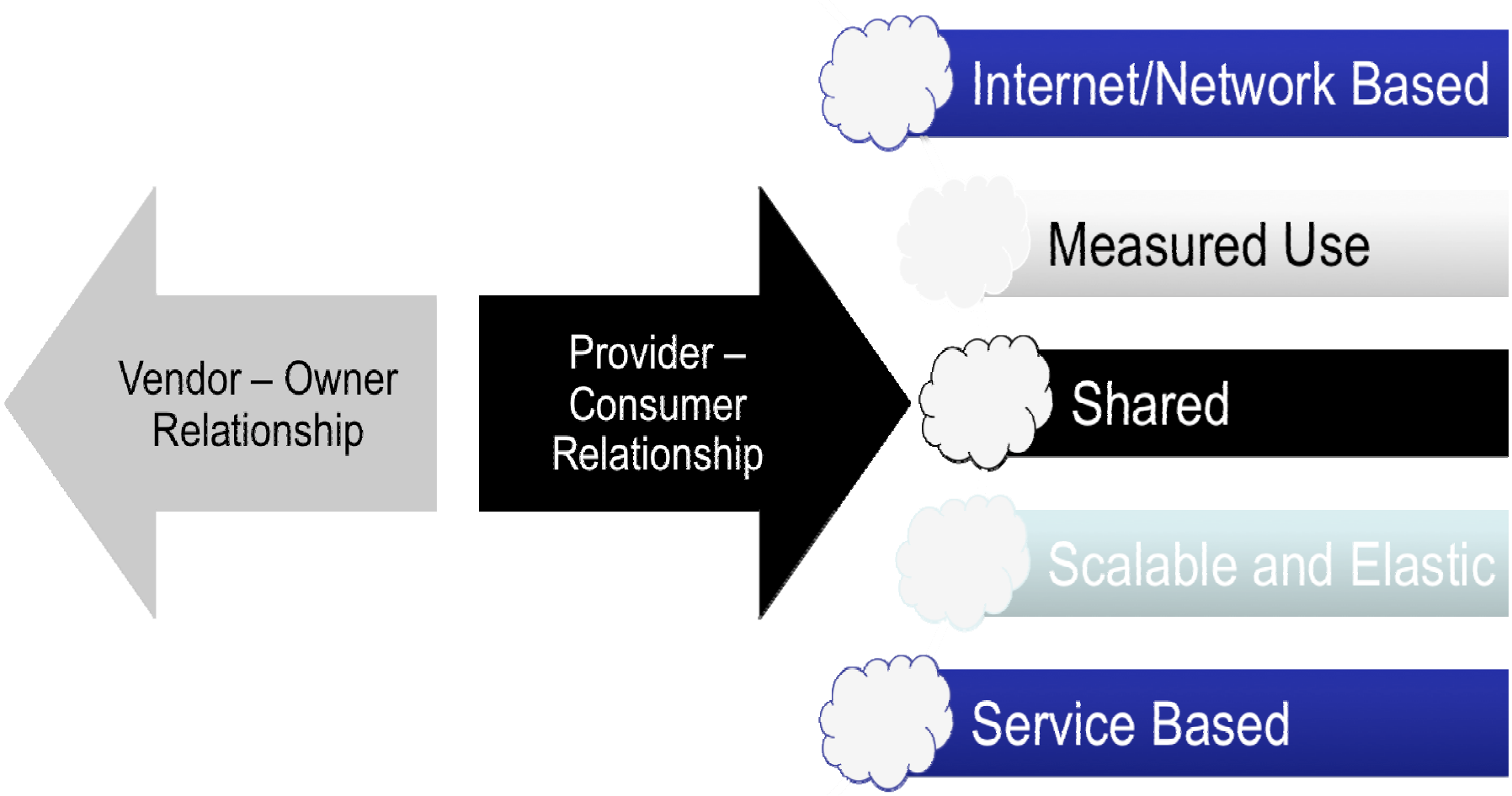
Federal Cloud Computing Strategy
Improving Government Service Delivery

A Fundamental Shift in IT





A Fundamental Shift in IT



Office of Management and Budget (OMB) Perspective: Reforming Federal IT

greengov SYMPOSIUM



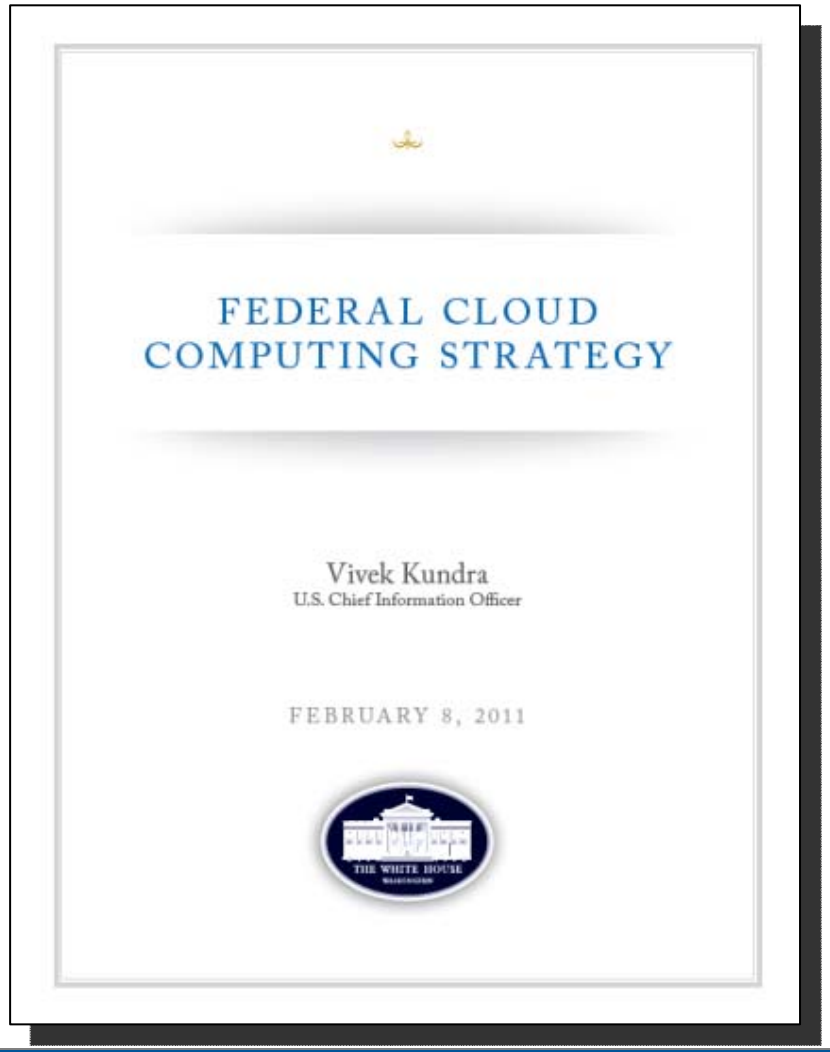
25 POINT IMPLEMENTATION PLAN TO REFORM FEDERAL INFORMATION TECHNOLOGY MANAGEMENT

Vivek Kundra

U.S. Chief Information Officer

DECEMBER 9, 2010

Cloud First Policy



Accelerate the pace in realizing benefits of cloud computing

Require agencies to evaluate safe, secure cloud computing options

Promote leveraging shared innovations and economies of scale

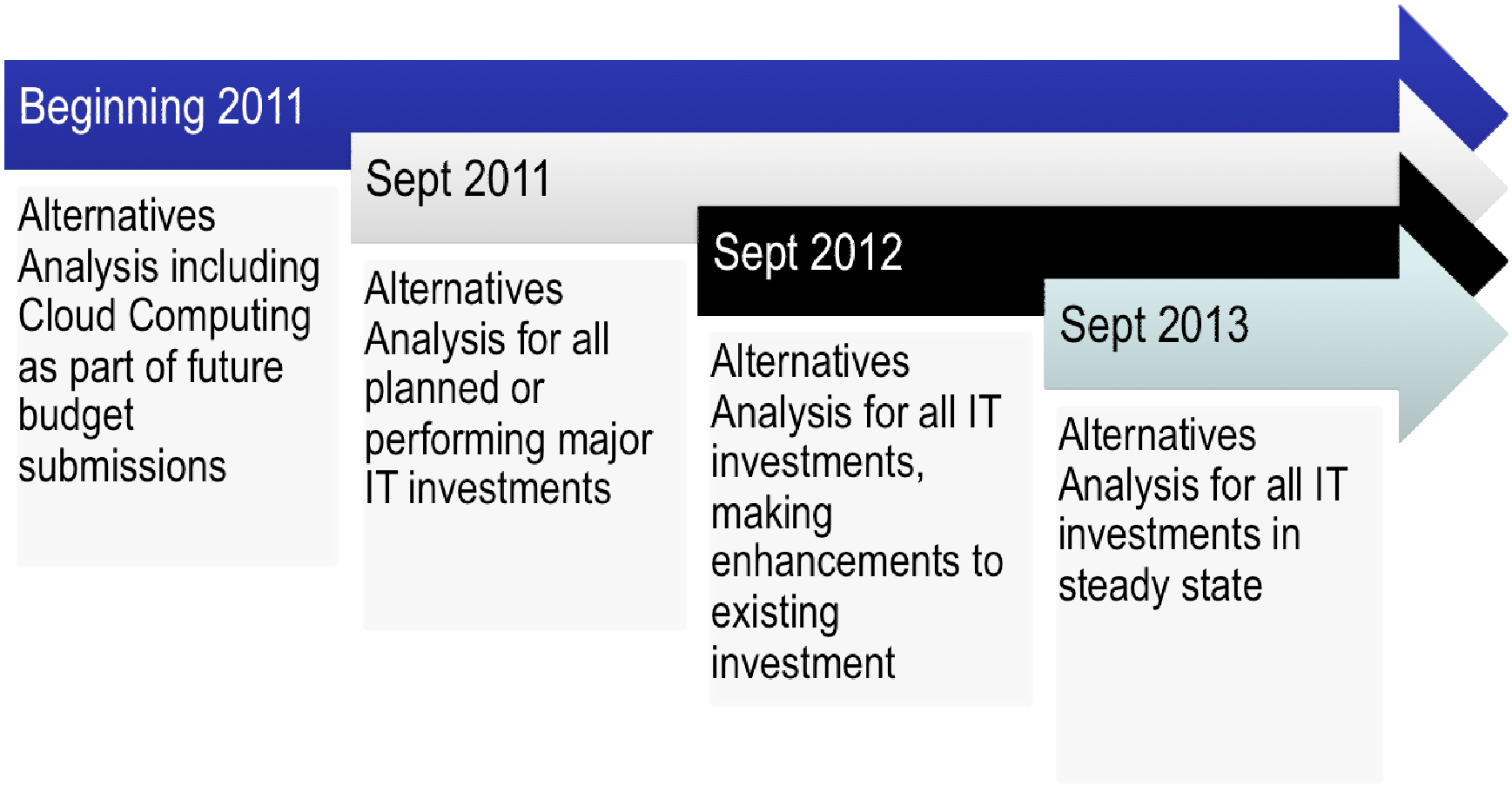
Promote various deployment models

Federal Cloud Computing Strategy

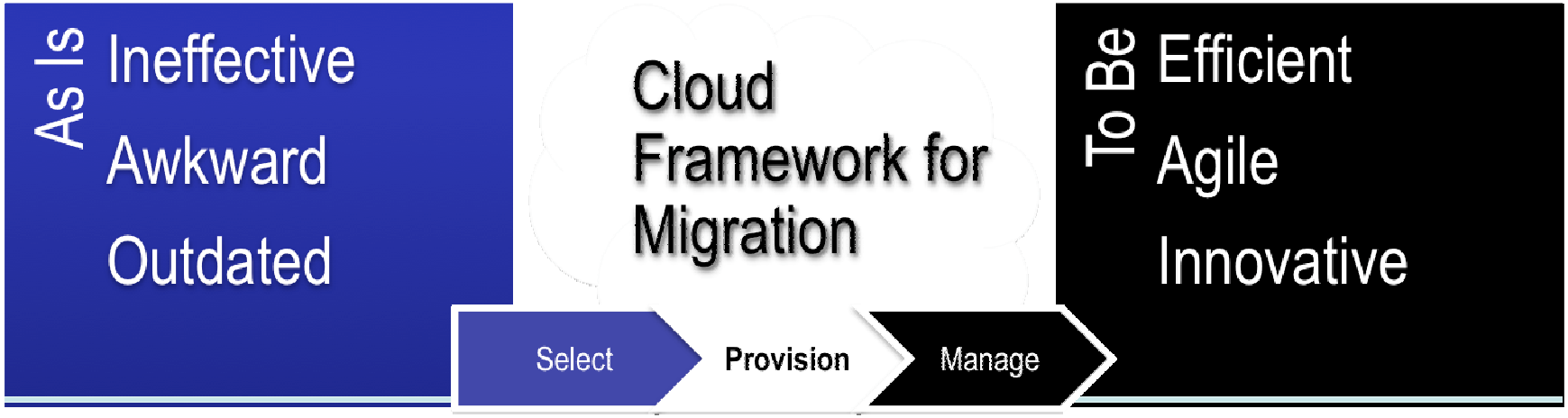
greengov SYMPOSIUM



Economics Driving Transformation



Government that Works

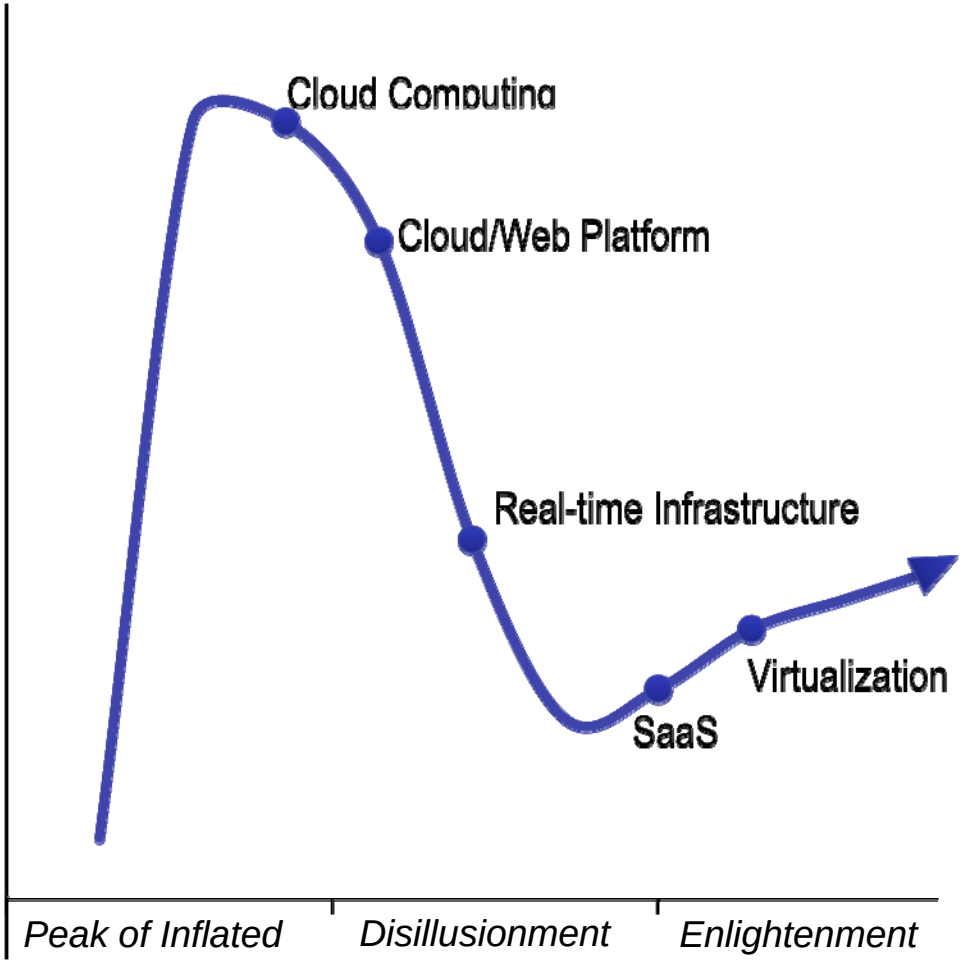


Closing The IT Performance Gap	Leveraging Cloud Computing Services
	Improving the Management of Major IT Initiatives
	Adopting Shared Services Models
	Maintaining Privacy and Security
Governance	CIO Council
	Executive Steering Committee
	Cloud Computing Advisory Council

Delivering Results



More Than Hype



Gartner: Cloud Computing Hype Cycle 2010

Dept. of Army

- Real-time CRM
- Salesforce.com
- $500K v. $54K

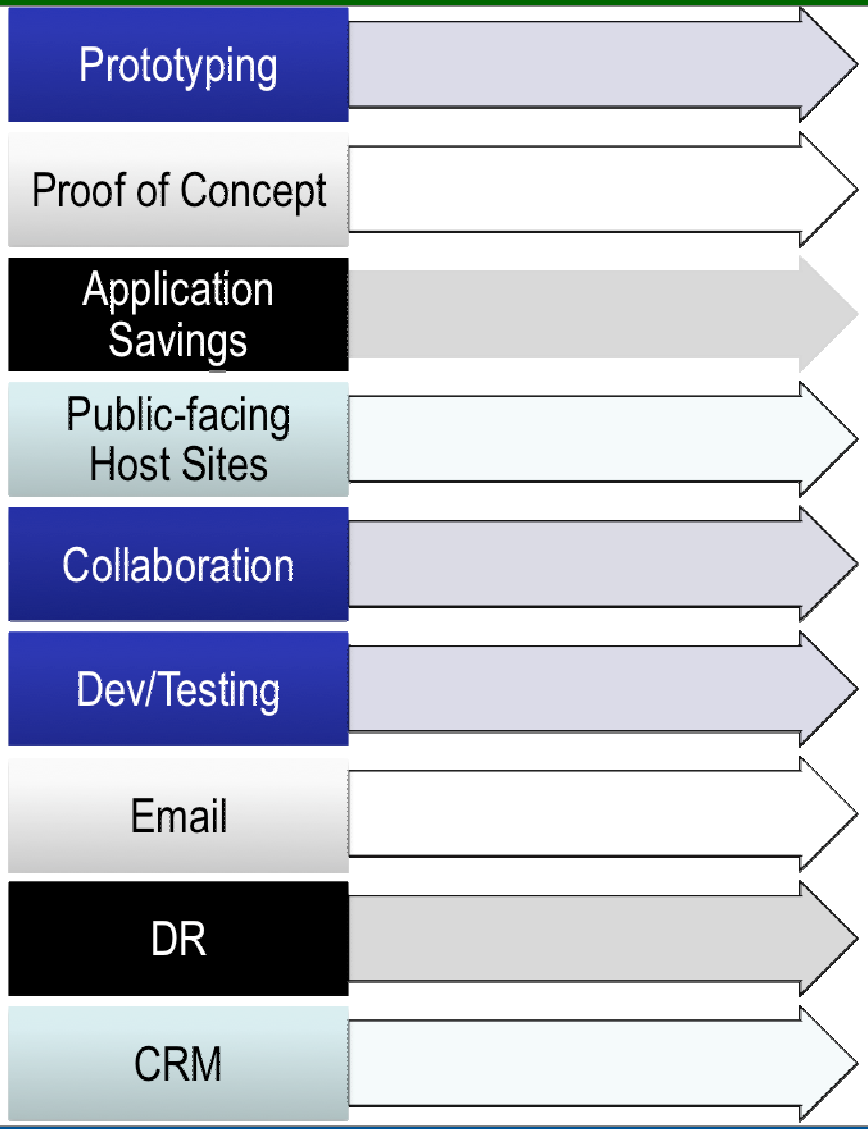
Dept. of Energy

- 5000 Mailboxes
- Google Premiere Apps
- Evaluating Amazon EC2
- Potential Savings $1.5M/5 Years

GSA

- USA.gov Information Portal
- Site Upgrade 9 Months v. 1 Day
- Savings $1.7M

GSA Cloud Computing Deliverables



Deployment Models

- Private Cloud
- Public Cloud
- Community Cloud
- Hybrid

Service Models

- SaaS
- PaaS
- IaaS

Cloud Delivering Results

greengov SYMPOSIUM

Airforce

- Manage self-service, incident management, customer support and analytics
- $4M/Year Manpower Reduction, Response time reduction 2 minutes v. 20 minutes

GSA

- Consolidated emergency notification systems into SaaS product
- Reduced annual maintenance cost $77K v. $17K

SEC

- Handle increase in investor inquiries, up to 90,000 contacts annually
- Reduced response 30 days v. 7 days, paperless system, reduced system configuration months v. minutes

Treasury

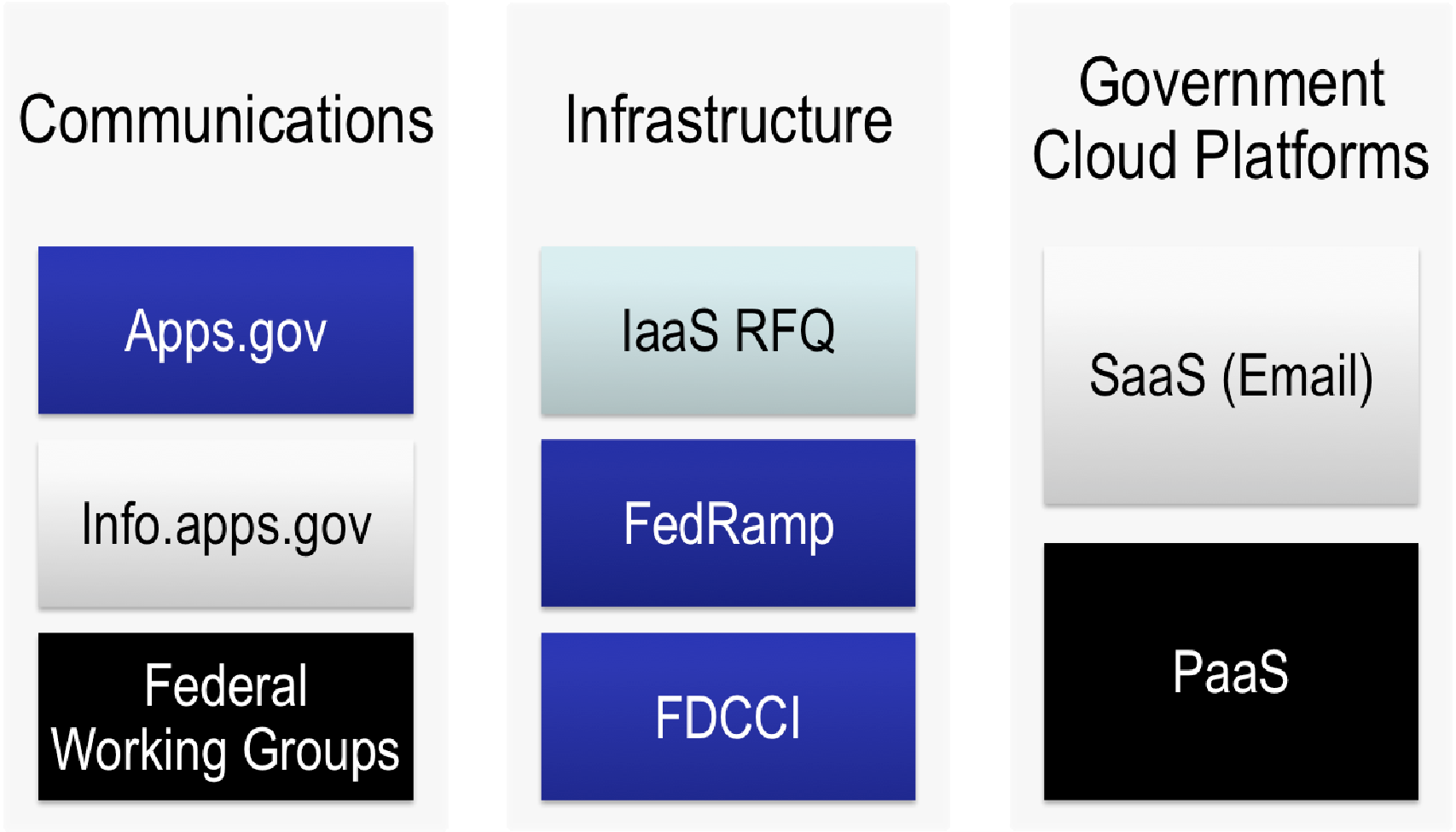
- Moved Treasury vulnerability assessment system to cloud
- 458% increase in scanning, 86% reduction in cost per scan

GSA Federal Cloud Computing Initiatives

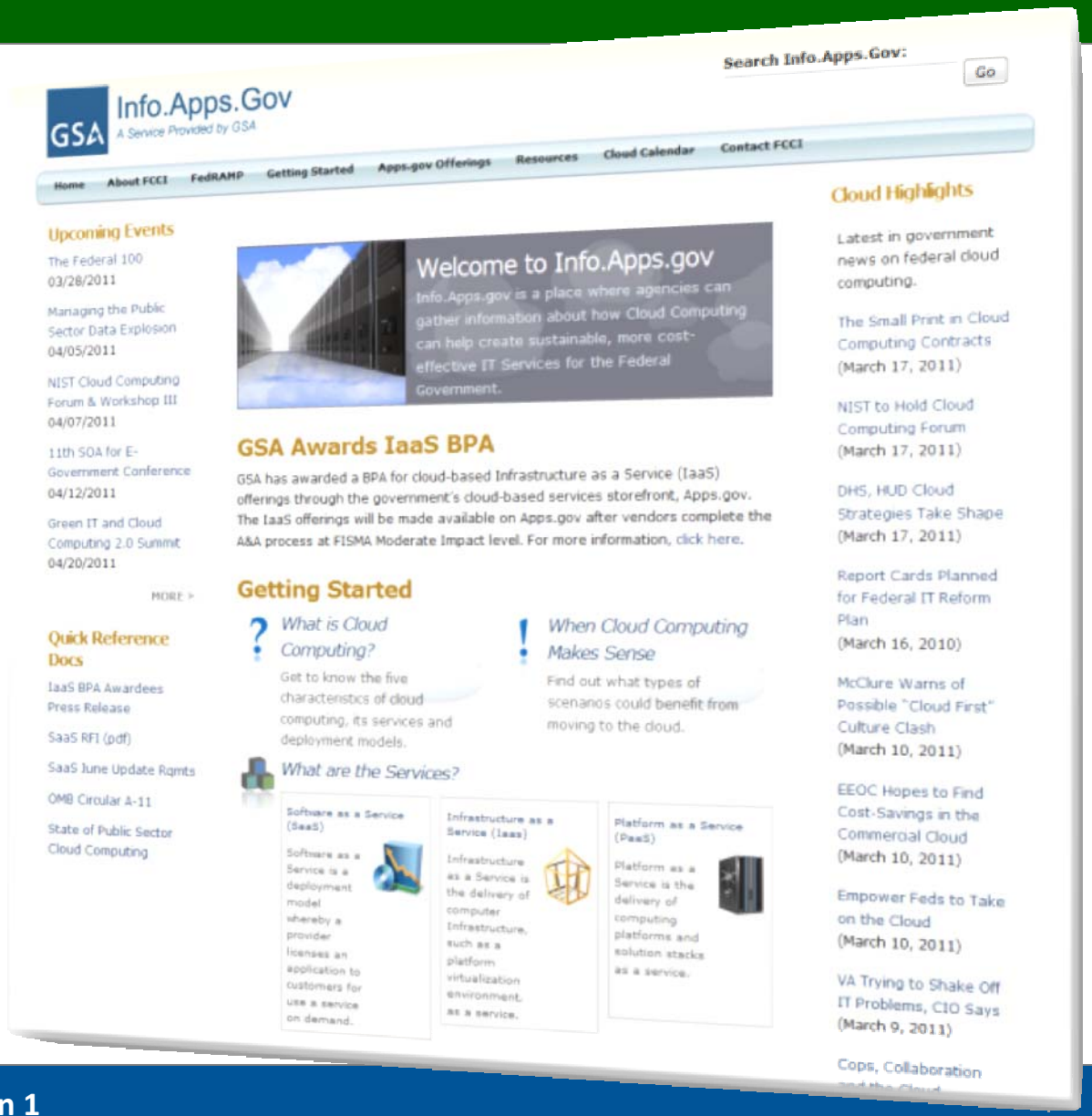
greengov SYMPOSIUM



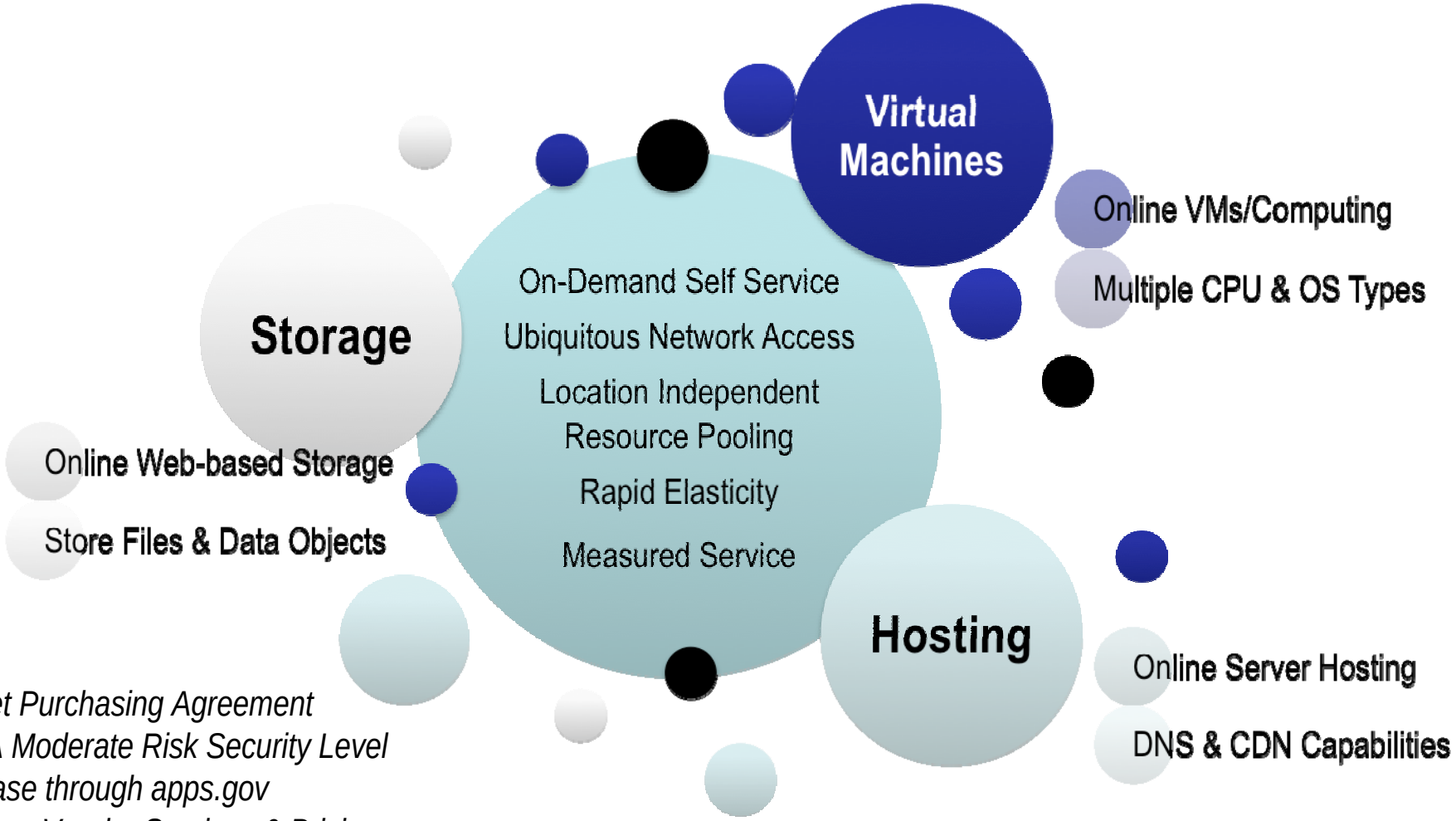
GSA Cloud Computing PMO



Info.apps.gov



Infrastructure as a Service (IaaS) RFQ



Blanket Purchasing Agreement
FISMA Moderate Risk Security Level
Purchase through apps.gov
Compare Vendor Services & Pricing
Strong SLAs

IaaS Awardees

AUTONOMIC RESOURCES

GENERAL DYNAMICS
Information Technology

at&t

CGI

COMPUTER TECHNOLOGIES CONSULTANTS
Your IT Solutions Provider

Insight

verizon

Eyak Tek
Eyak Technology, LLC

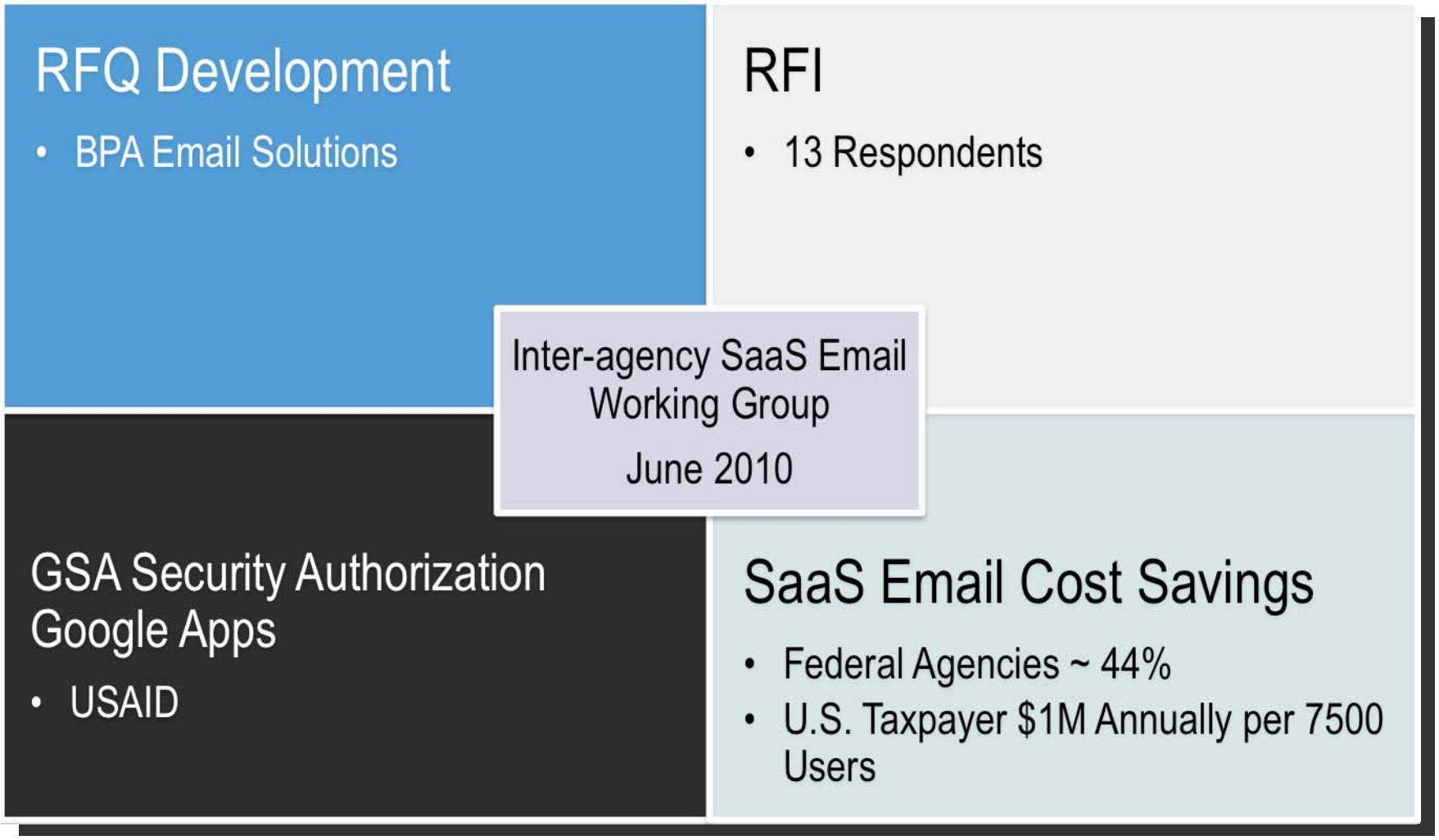
APPTIS

SAVVIS

Computer Literacy World

carahsoft
technology corp

Cloud Email as a Service



Federal Risk and Authorization Management Program



FedRAMP

Authorization

Continuous Monitoring

Federal Security Requirements

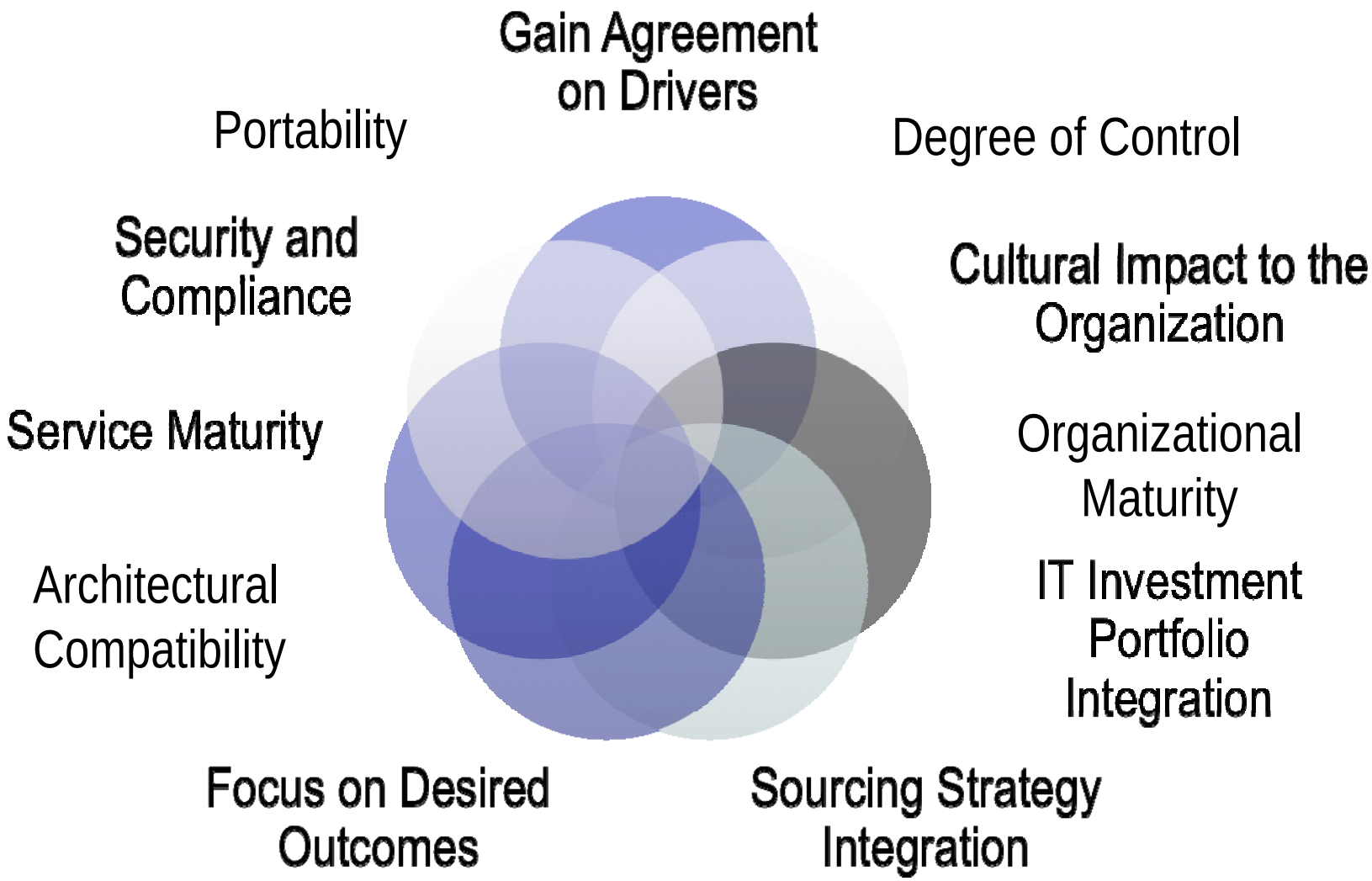
- Duplicative Efforts
- Incompatible Results
- Lengthy Compliance Processes
- Inconsistent application of Federal security requirements

- Cost Savings
- Increased Effectiveness
- Interagency Vetted Approach
- Rapid Acquisition
- Consistent application of Federal security requirements

CIO Strategy



Plan for Successful Cloud Adoption



Questions

