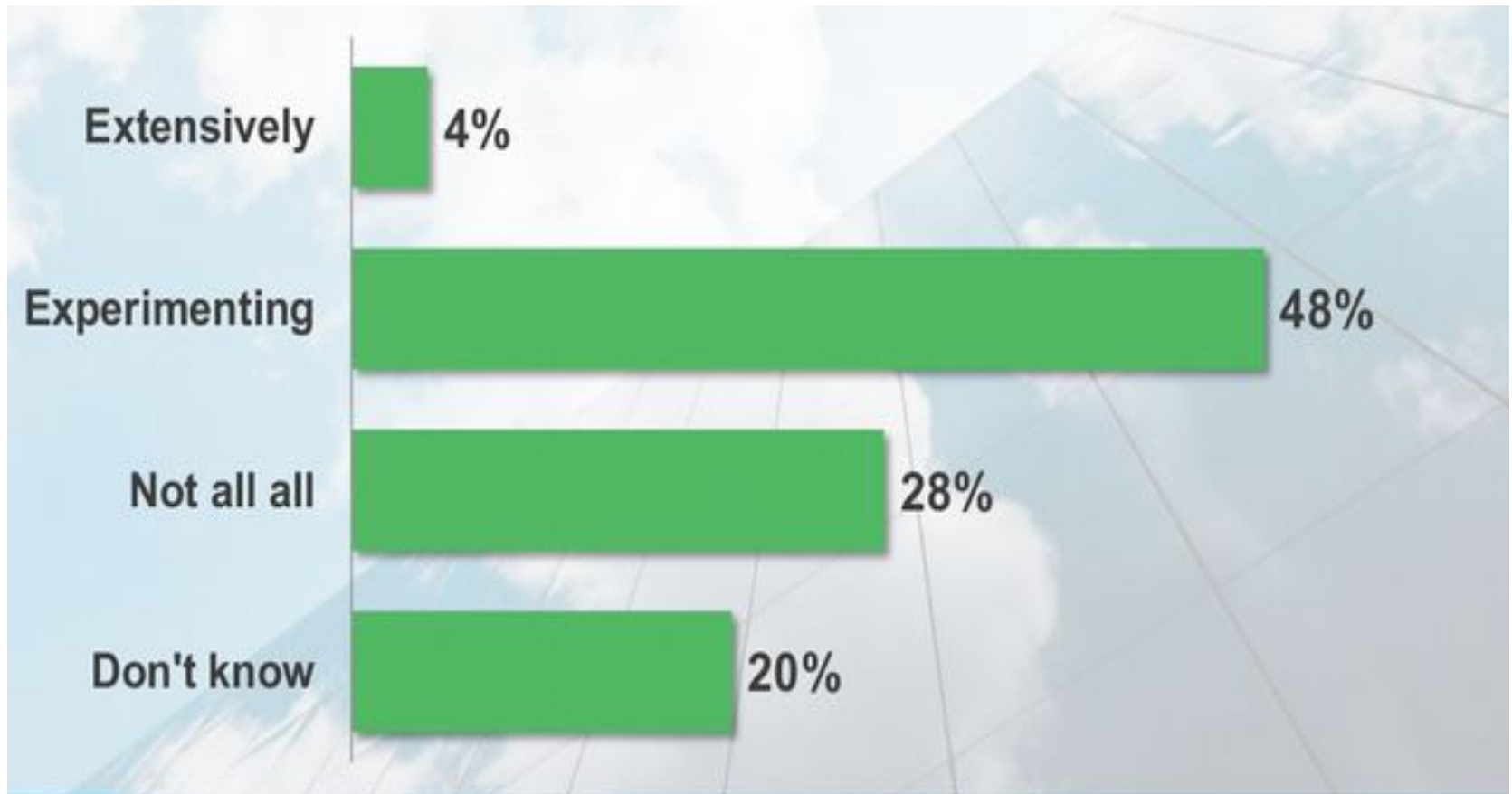




Cloud Adaption
Lifecycle dan
cloud testing

Alasan Perusahaan Memilih Cloud



Cloud Adoption Lifecycle

Holistic Approach Needed To Manage Across Clouds

Planning

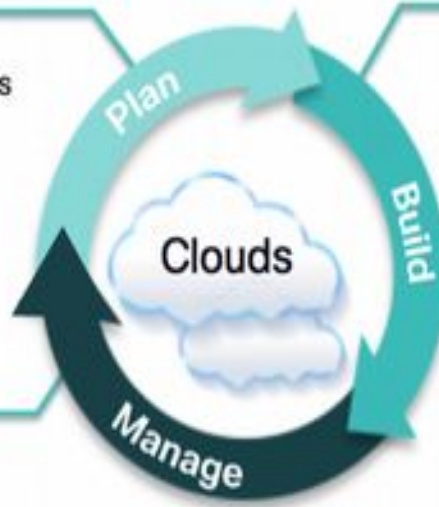
- Cloud monitoring across all clouds
- Holistic cloud strategy and alignment with enterprise architecture
- Budgetary planning
- Costing and business case justification (ROI/TCO)
- Cloud portfolio management

Operations

- User support
- Ongoing management of systems
- Hiring and managing IT personnel
- Approved vendor catalog

Governance

- Cloud management framework
- Cloud management policies, processes, and tools
- Establish Cloud program management office
- Regulatory compliance & audit preparedness

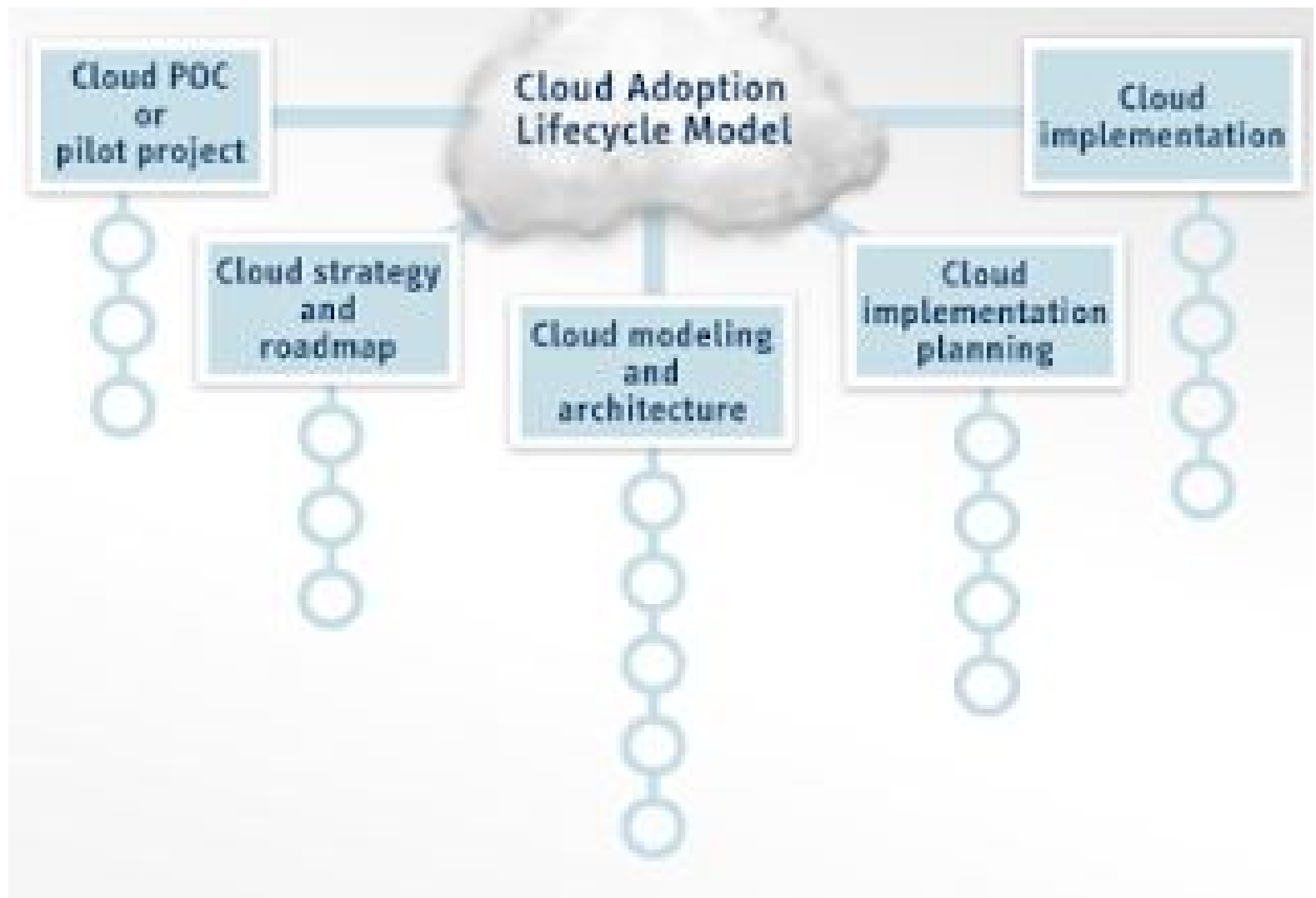


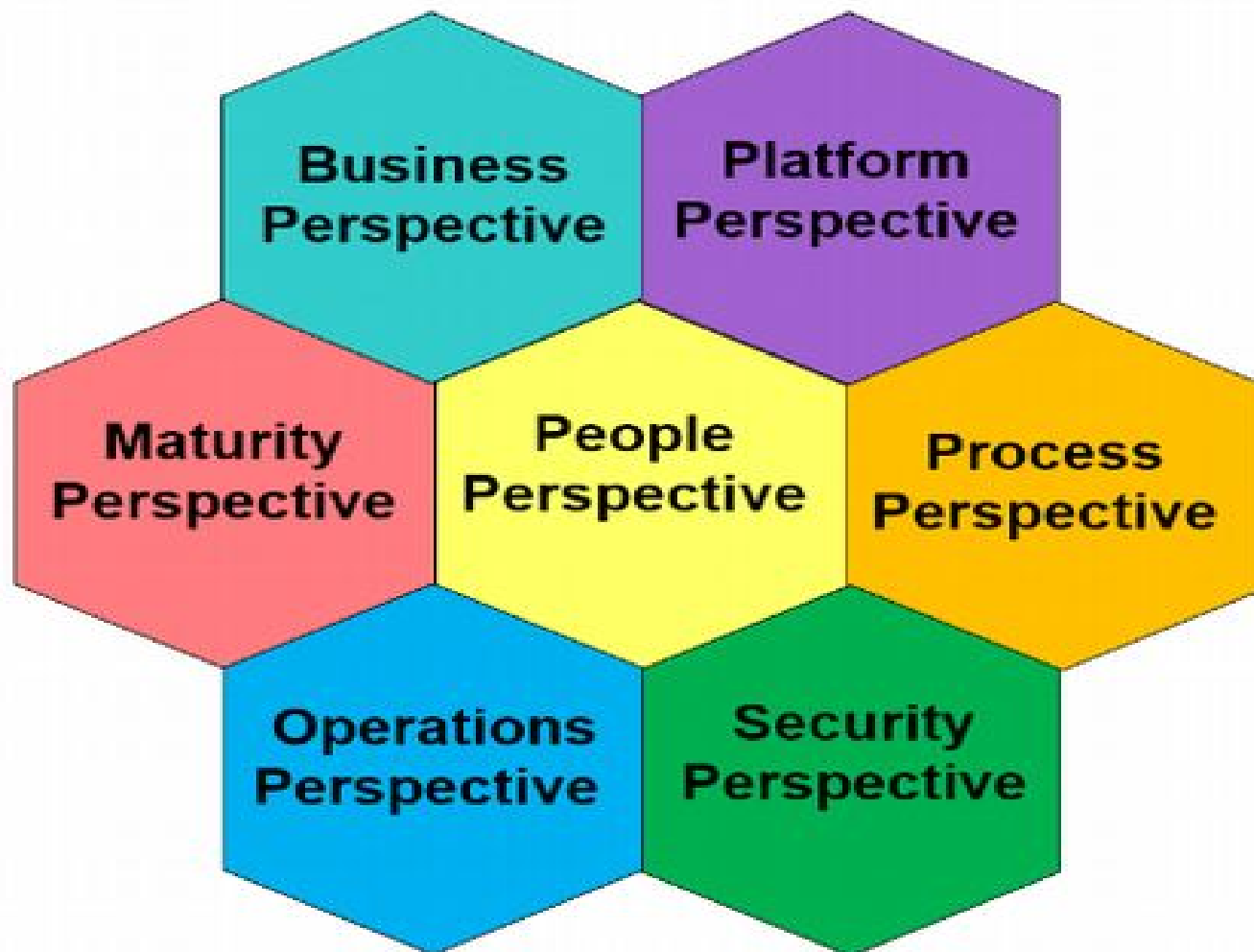
Procurement

- Funding services
- CSP risk assessment and selection
- CSP negotiation and contracting
- Acquisition of assets and 3rd party capabilities to enable cloud readiness

Deployment

- Implementation of new service
- Provisioning
- Migration
- Testing
- Training
- Integration





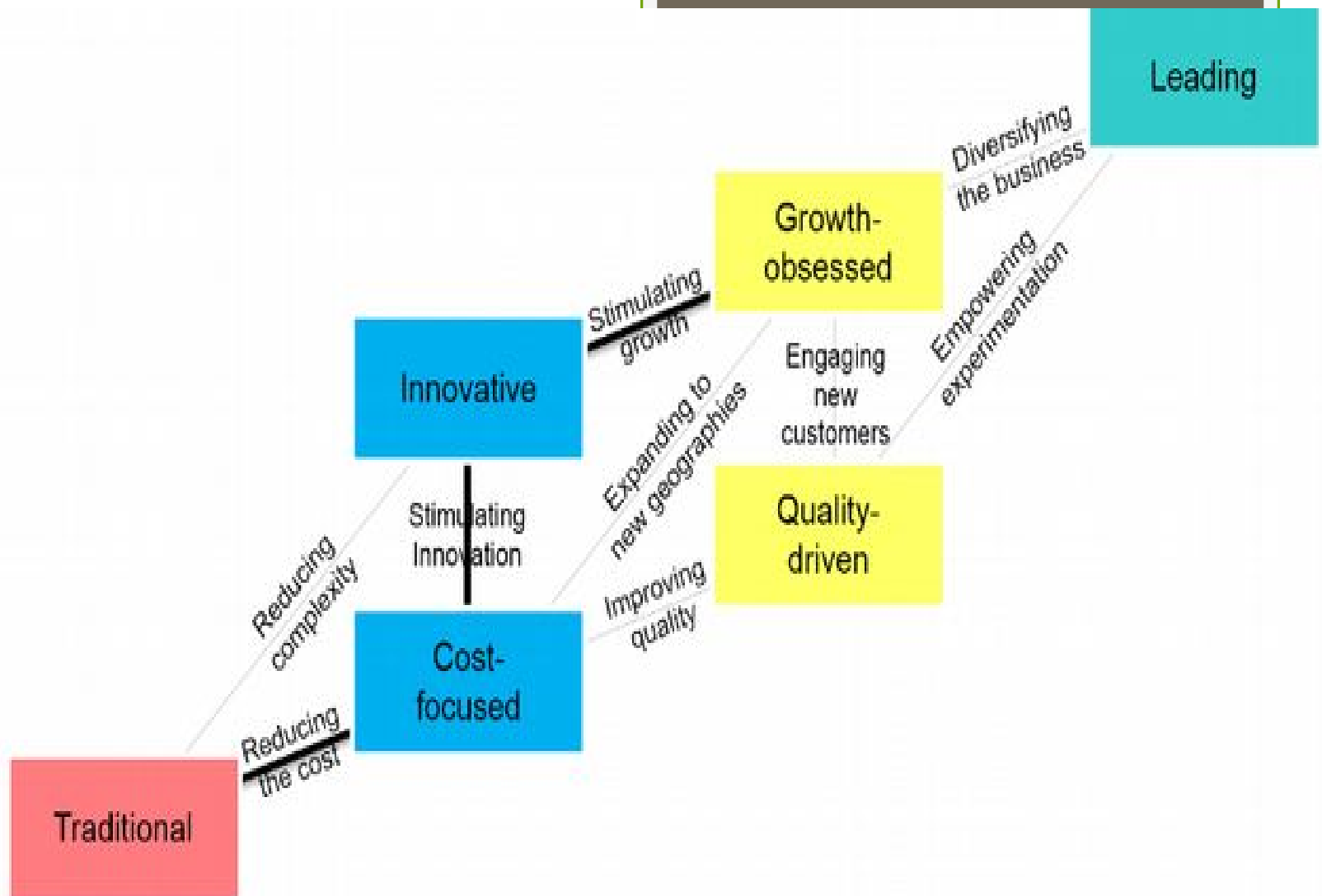
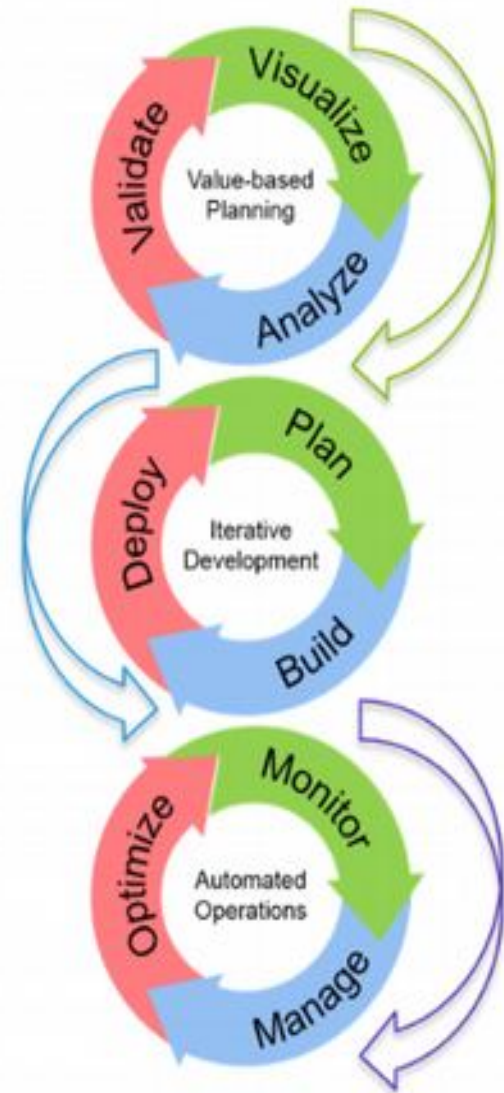


Figure 3: Mapping the Journey to the Cloud



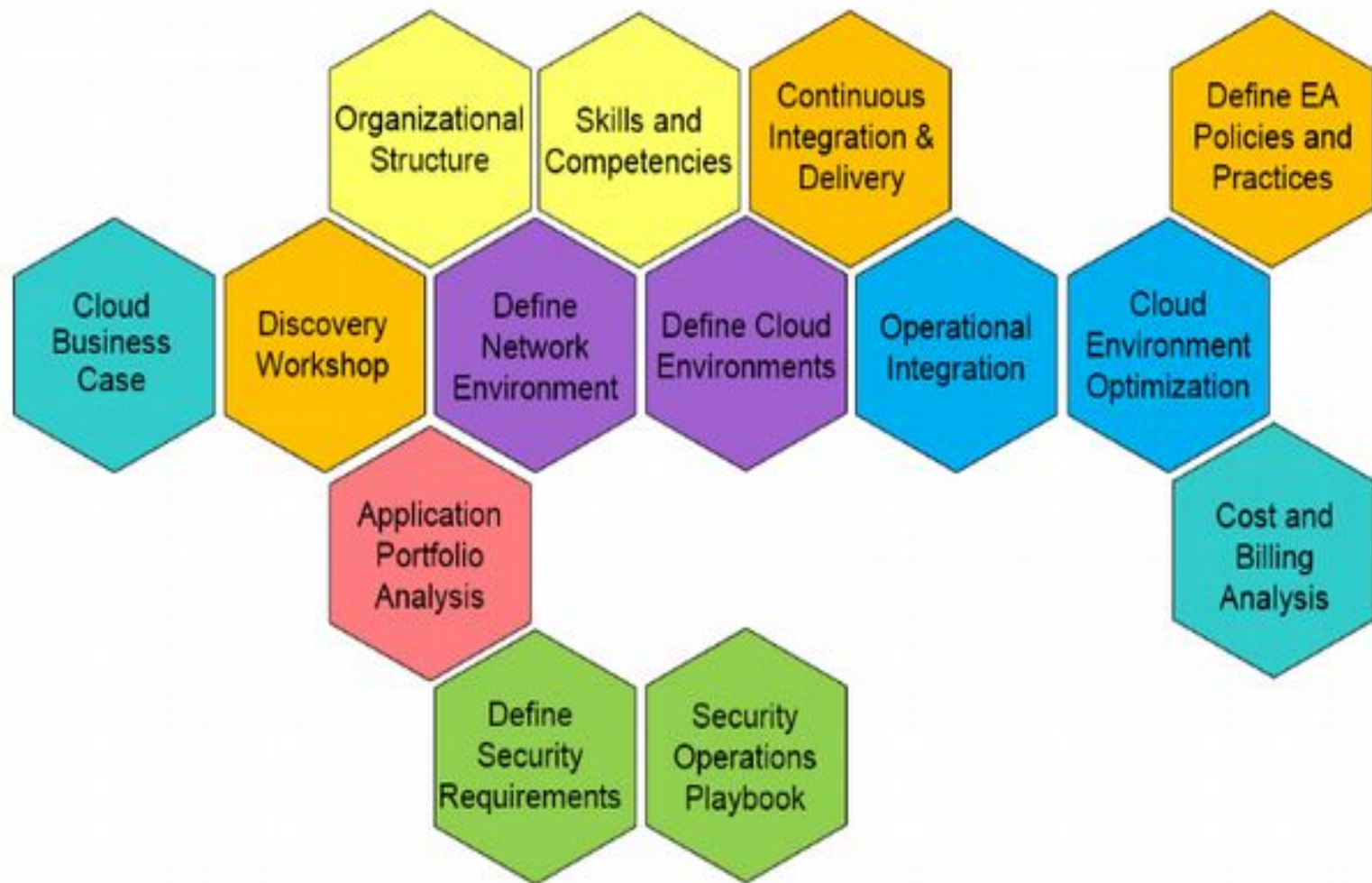
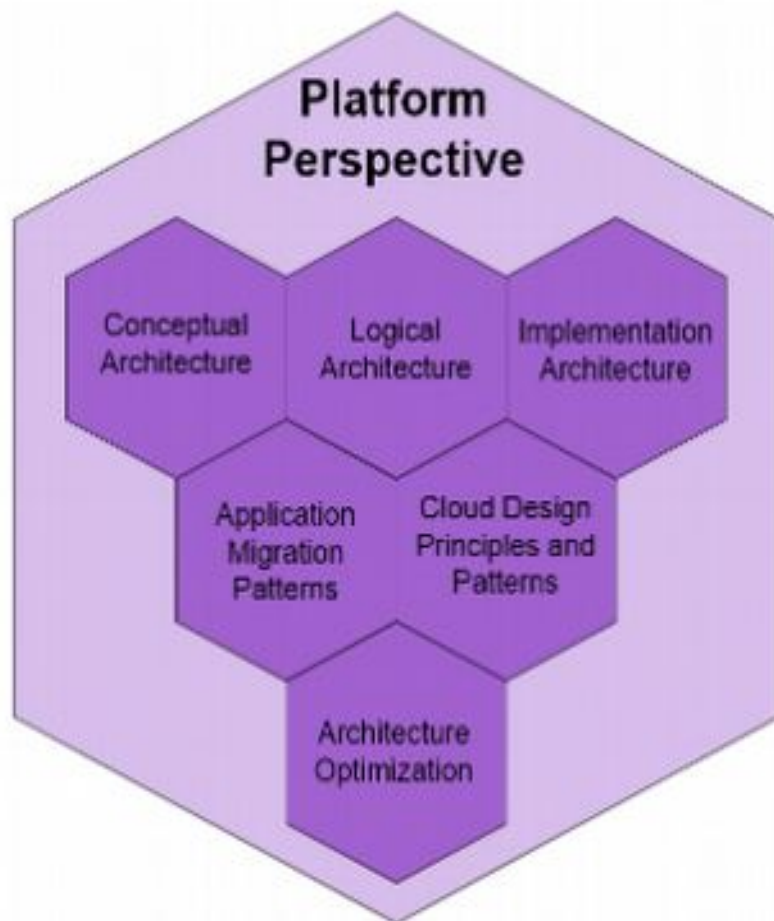
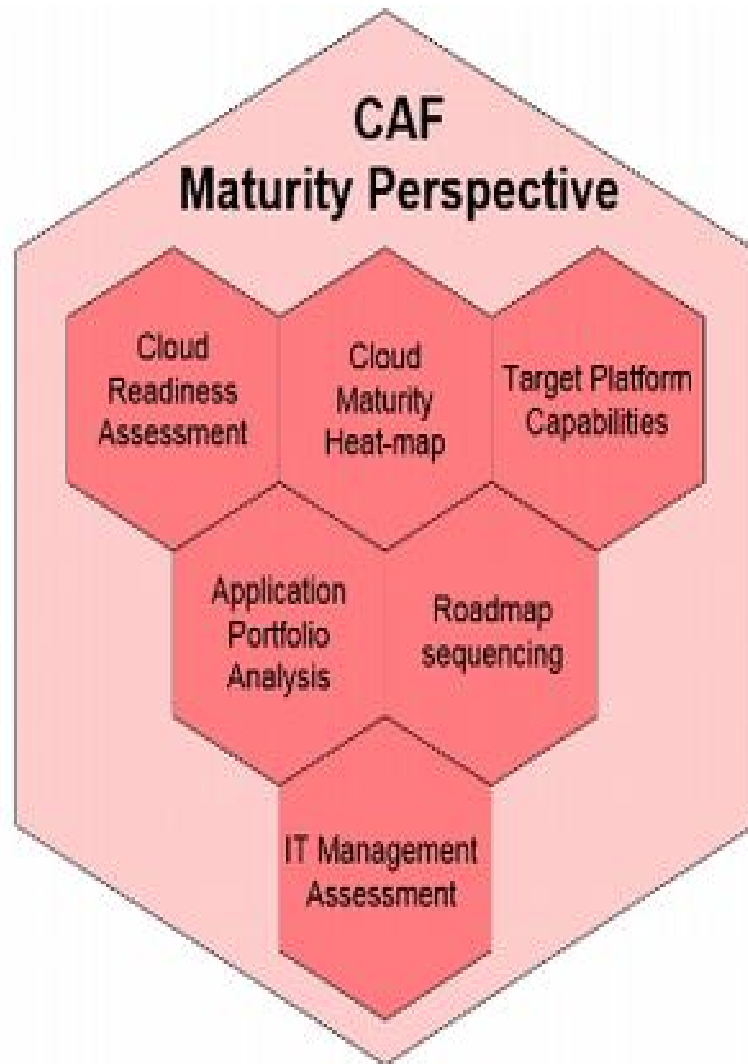


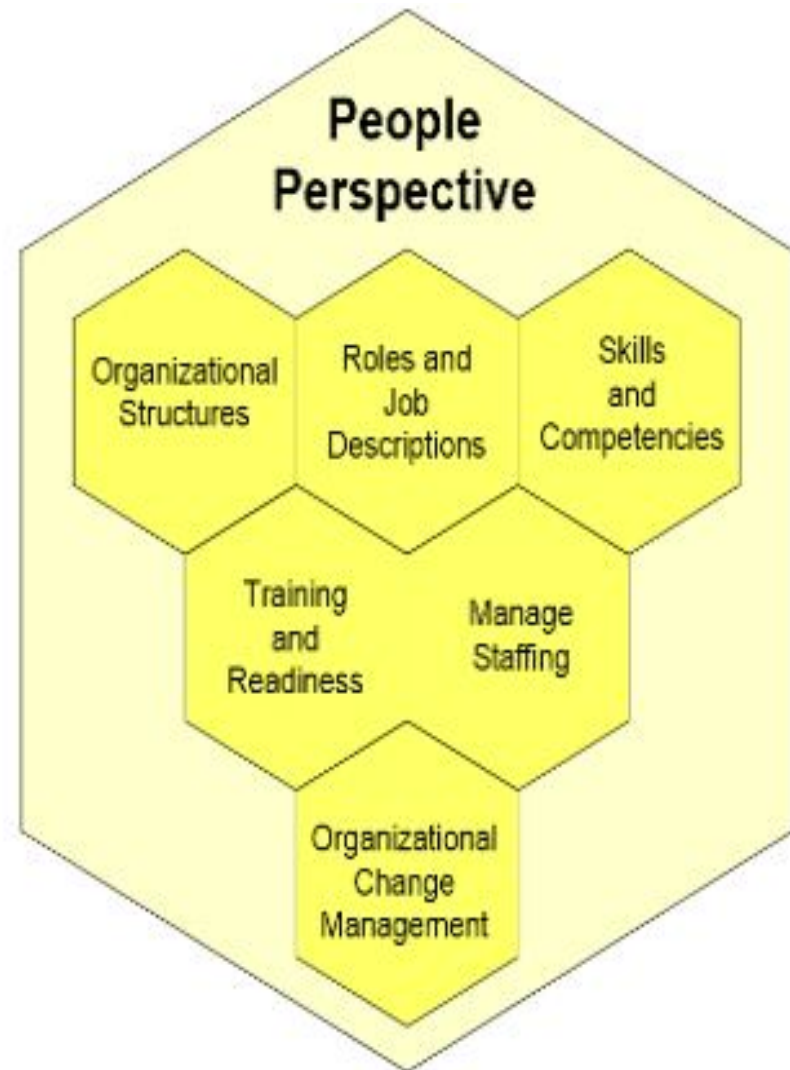
Figure 5: Sample Roadmap for Cloud Adoption



CAF Maturity Perspective



People Perspective



Process Perspective



Operations Perspective



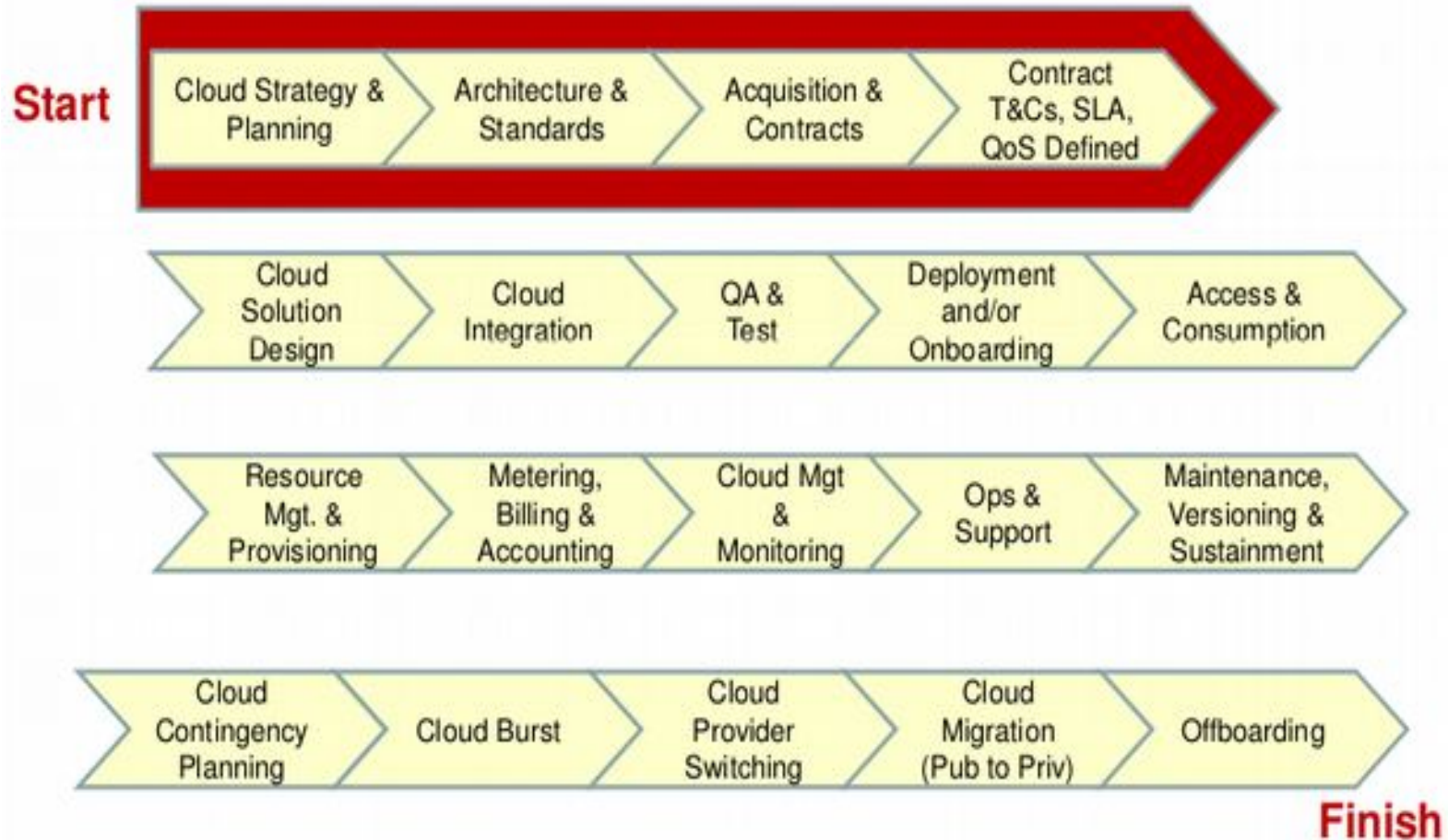
<div> <div>TOGAF ADM Framework</div> <div>The cloud adoption strategy</div> </div>	The preliminary phase	A. Architecture vision	B. Business Architecture	C. Information System Architecture	D. Technology Architecture	E. Opportunities and Solutions	F. Migration Planning	G. Implementation Governance	H. Architecture Change Management
	Initial planning	✓							
	Enterprise capabilities and cloud vision	✓							
	Target architecture and cloud enablers		✓	✓	✓				
	Gap analysis and transition planning					✓			
	Implementation planning						✓		
	Governance	✓	✓	✓	✓	✓	✓	✓	✓

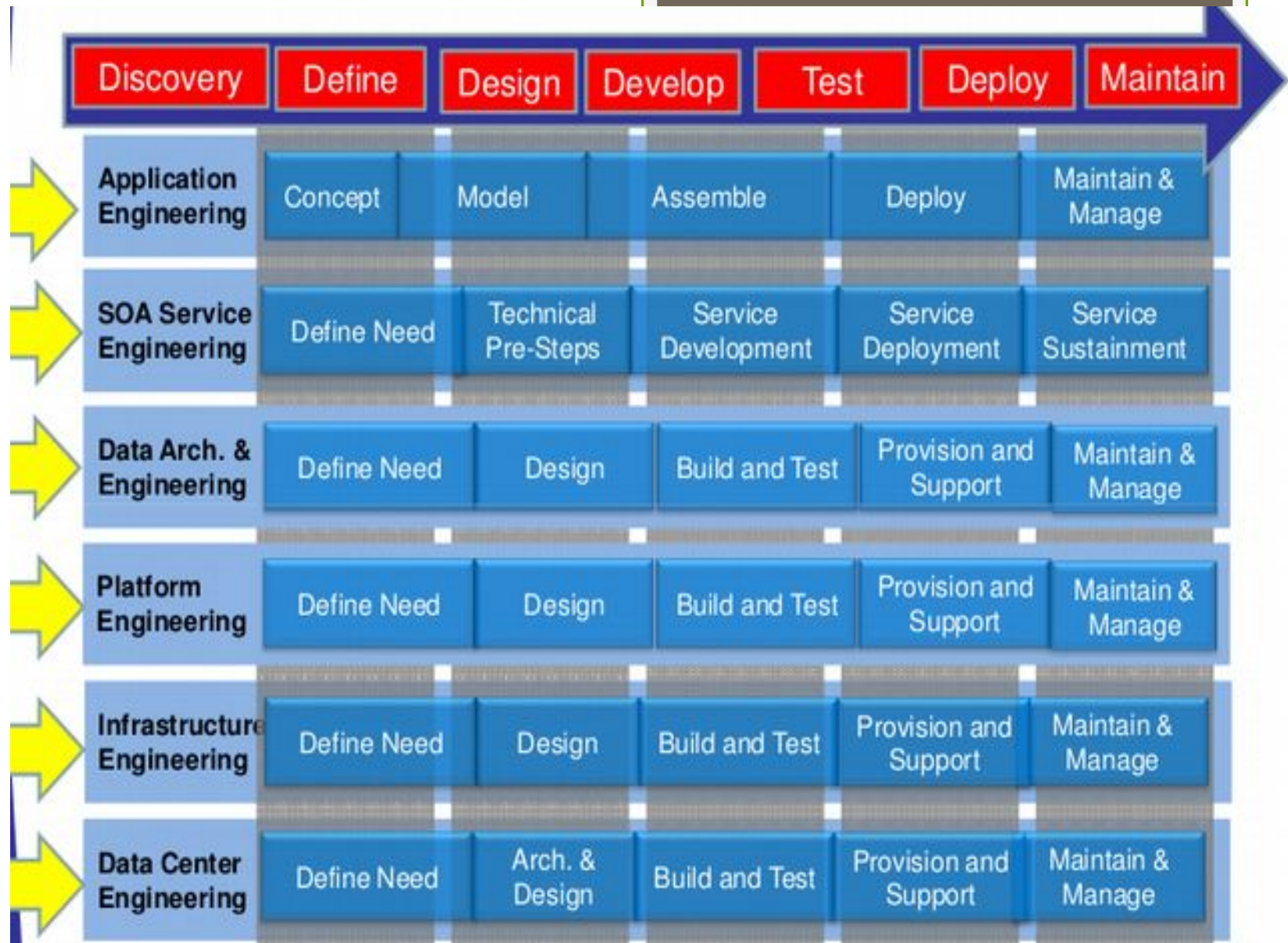
Table 3 Mapping between TOGAF ADM and the cloud adoption strategy

RACI Matrix

		Project Leadership		Project Team Members							External Resources			
Project Deliverable (or Activity)	Role	Service Executive	Service owner	Business user management	System lifecycle Management	Service offering management	System technology architect	Service Roadmap management	Business users	INN	Salesforce	Outsourcing	Telco	
		Component Location												
Implementation planning phase activities														
- Identify and plan the cloud setup efforts - the network configuration and equipment arrangement		C/I	C/A		R	R	C	R	FC			VC	R	
- Design and document the integration requirements and tests		C/I	C/A		R	R	C		FC	R	R	VC		
- Arrange the work statements and define SLAs for a contract with these providers:														
Cloud provider (INN & Salesforce)		C/A	C			R								
Contact center outsourcing									RA					
Telecommunication providers		C/A	C			R								
Implementation governance phase activities														
The execution and compliance assessment														
- The implementation of components used for cloud setup:			C/A		R	R	I	R						
OIC server	INN data center									R		VC		
Media server	Contact center sites									R		VC		
SIP proxy server	Contact center sites									R		VC		
Web server	INN data center									R		VC		
Terminal server	INN data center									R		VC		
Data center server	INN data center									R		VC		
VOIP gateway	Contact center sites									R		VC		
Recording storage	Contact center sites									R		VC		
PSTN network	Contact center sites									R		VC		
MPLS network	Contact center sites											VC	R	
LAN setup	Contact center sites											VC	R	
Premise equipment - desktop, workforce, etc	Contact center sites									R		VC		
- Build, test, and release the user stories					R	R	I	R	BC	R		VC	R	
- Provide trainings and user manual to end users	Contact center sites							R	R	R		VC		
The ongoing operation and update risks														
- Manage incident and problems					C	R	R			R		VC	R	
- Support ongoing cloud operation					C	R	R							
- Analyse and report the infrastructure performance and capacity			I	C	C	R			C					
- Manage relationships with these providers & monitor their service performance:														
Cloud provider (INN & Salesforce)		I	C	C	R	A/R	C		I					
Contact center outsourcing									A/R					
Telecommunication providers		I	C	C	R	A/R	C		I					
Close Phase Activities														
- Create Lessons Learned		IA	I	R	R	R	C	R	C					
- Create Project Closure Report														
Optimize Phase Activities														
- Identify requirements for service improvements			C	R	A/R	R	R	R	R	R	R			
- Approve service improvements		I	A/R	I	R	I	C		I					
- Execute service improvements			I		R		C			R	R			
- Update the architecture and service roadmap			C		R	C	R	A/R						

Cloud Master Governance Lifecycle



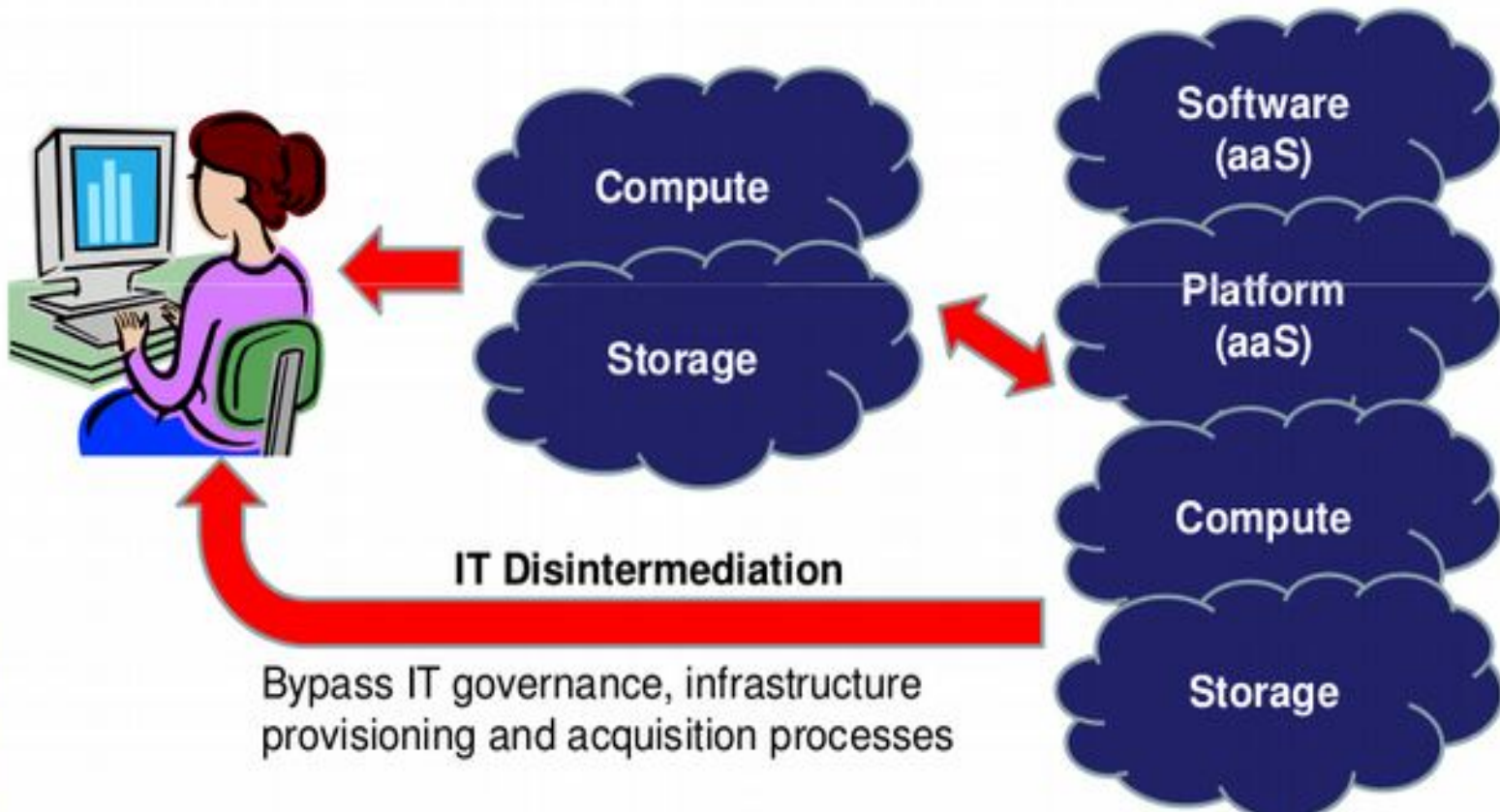


New Role of IT

Internal Cloud Consumer

Internal IT/Cloud Provider

External Cloud Provider



Cloud Testing Services



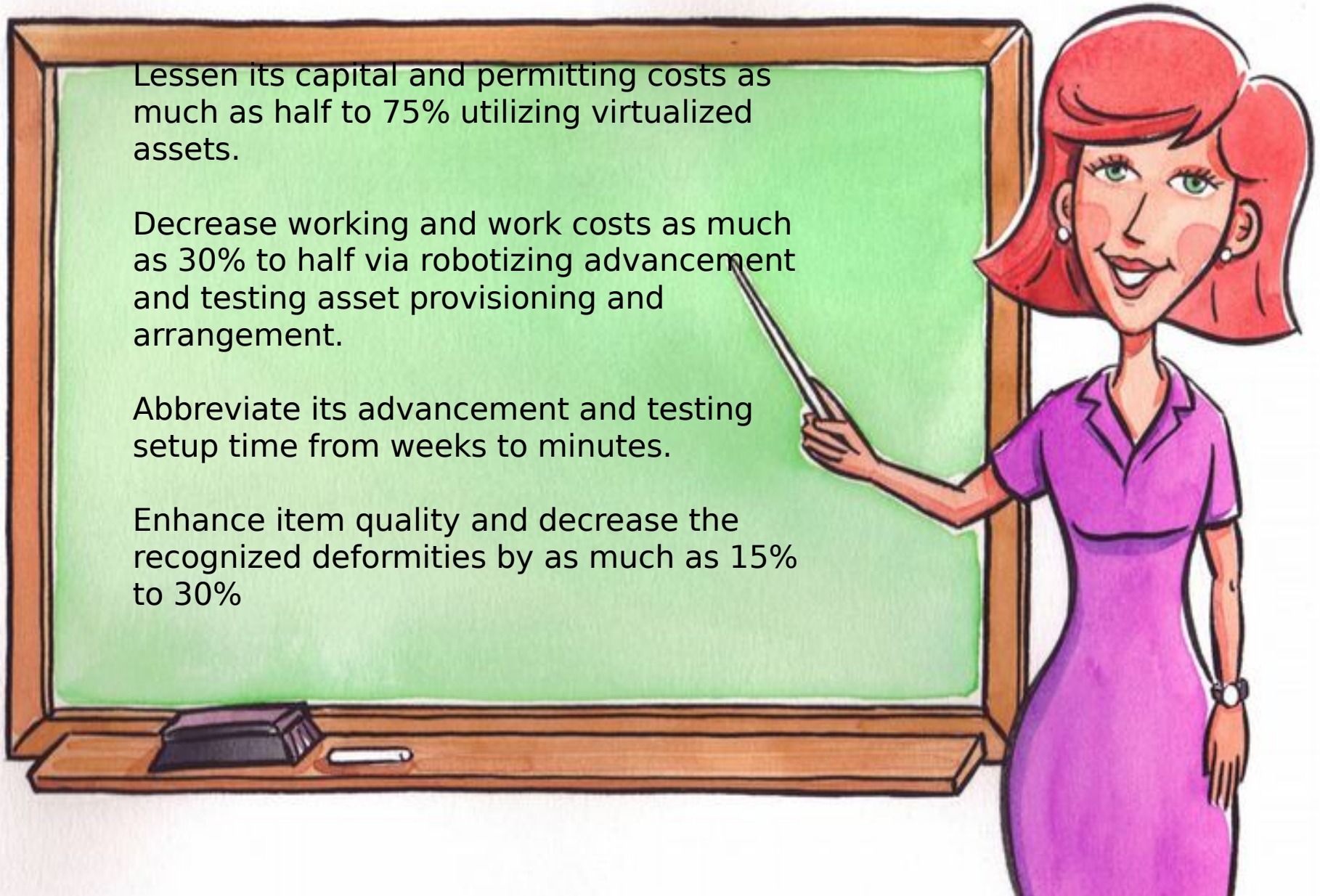
Why is Cloud Testing

Lessen its capital and permitting costs as much as half to 75% utilizing virtualized assets.

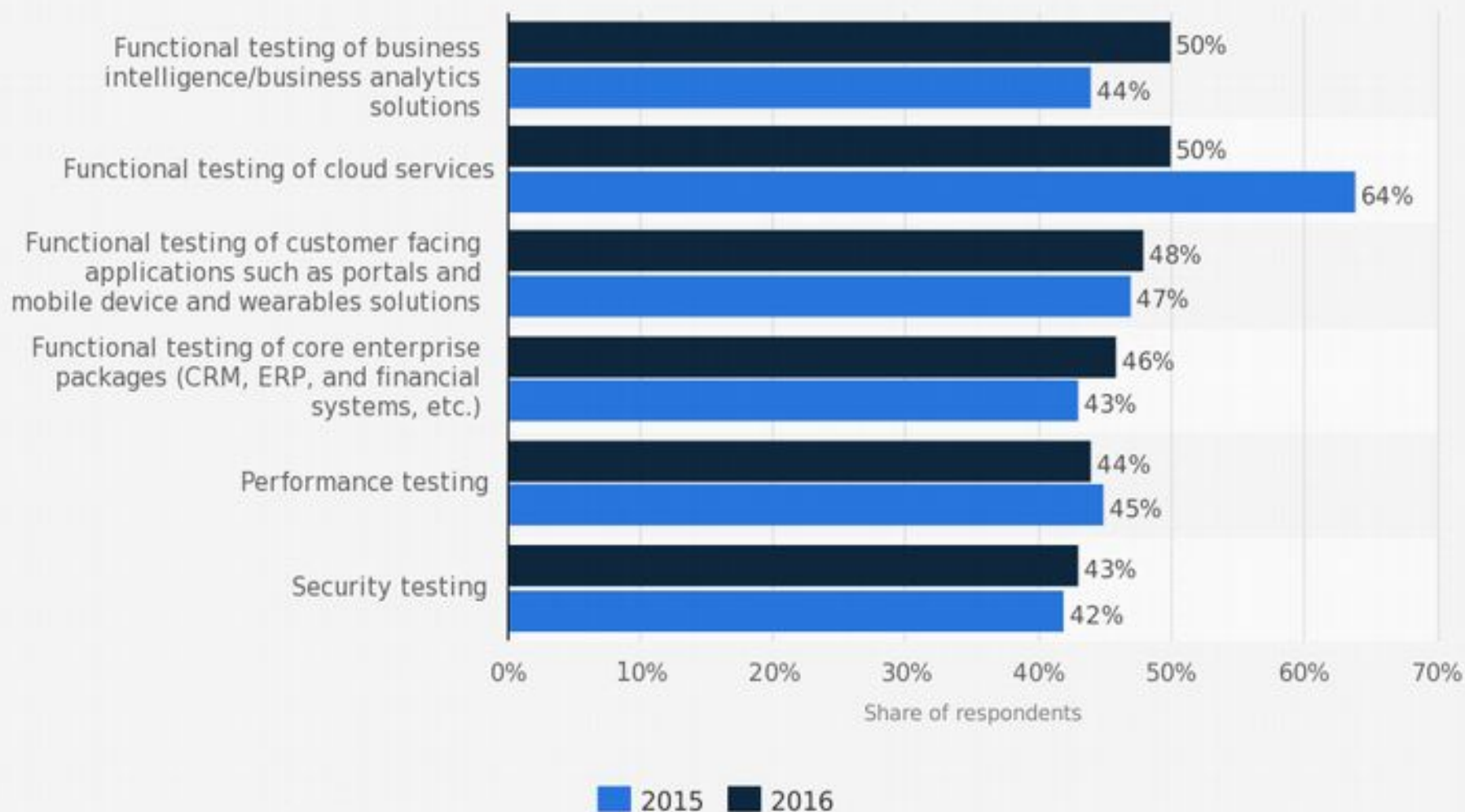
Decrease working and work costs as much as 30% to half via robotizing advancement and testing asset provisioning and arrangement.

Abbreviate its advancement and testing setup time from weeks to minutes.

Enhance item quality and decrease the recognized deformities by as much as 15% to 30%



Level of cloud-based test environment adoption for IT quality assurance and security testing from 2015 to 2016*



Source:
Capgemini; Sogeti; Hewlett-Packard
© Statista 2017

Additional Information:
Worldwide; Capgemini; Sogeti; Hewlett-Packard; 2015 to 2016;
1,600 Respondents; Senior executives in corporate IT
management functions

Source:
Statista



cloud testing is a performance testing process based on cloud computing.

Core Components Of Cloud Testing

There are three core components of **cloud performance testing** which are as follows:

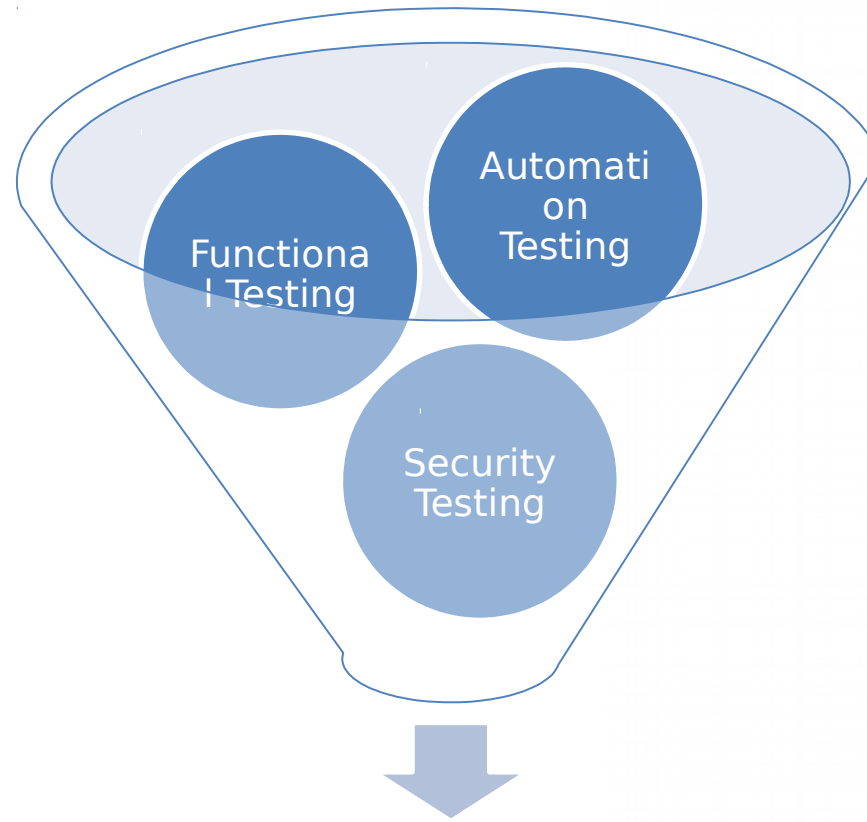
- **Application:** Deals with function testing, storage of data and compatibility of a browser.
- **Infrastructure:** Deals with backups and connection security.
- **Network:** Deals with bandwidths of network and successful data transfer.

Advantages Of Cloud Performance Testing

Cloud testing has a lot of benefits for the software and the testing industries. Some of the imperative benefits of using [cloud performance testing](#) are listed below:

- **Ease Of Implementation**
- **Cost Effective**
- **No Problems Of Hardware**
- **Flexible**
- **Reliable**





Types of

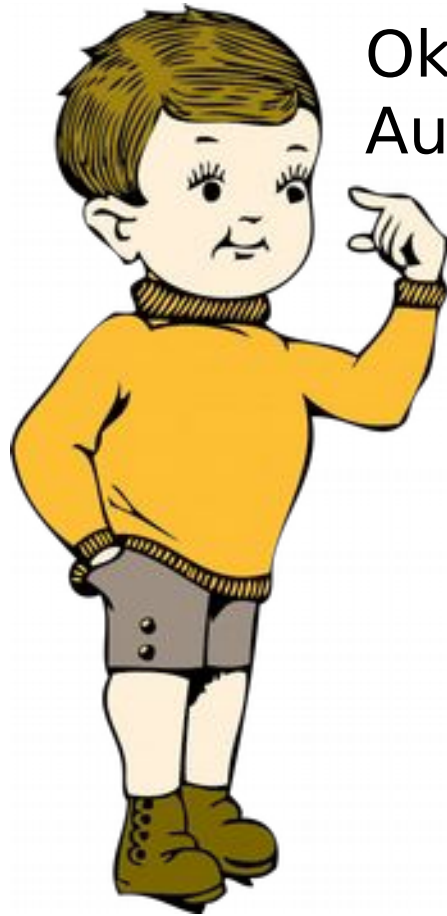


Functional Testing



It is a kind of testing that evaluates software by making sure that the software comes across its necessary functions self-sufficiently and works as expected when combined with other applications.

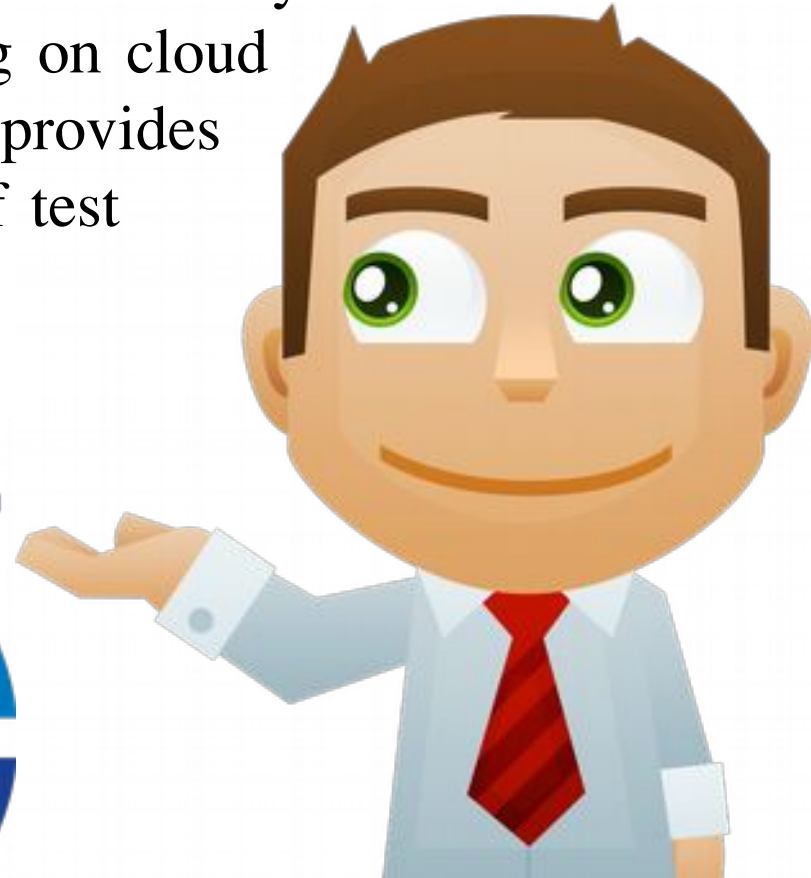
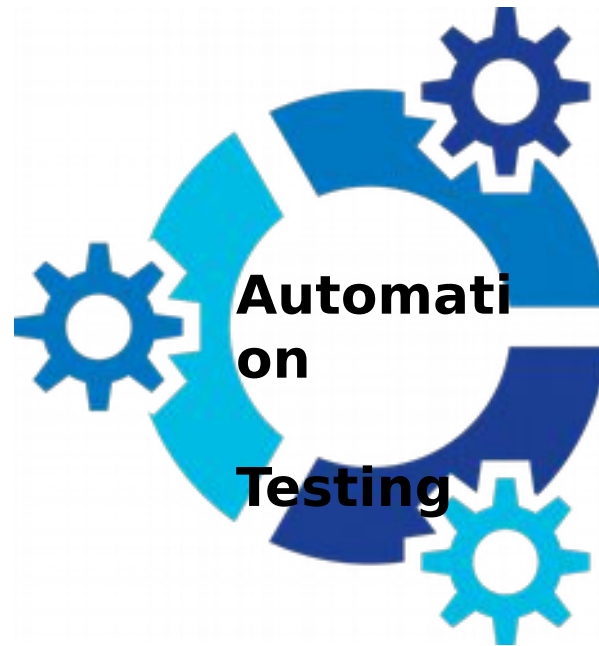
Okay, Then What is
Automation testing???

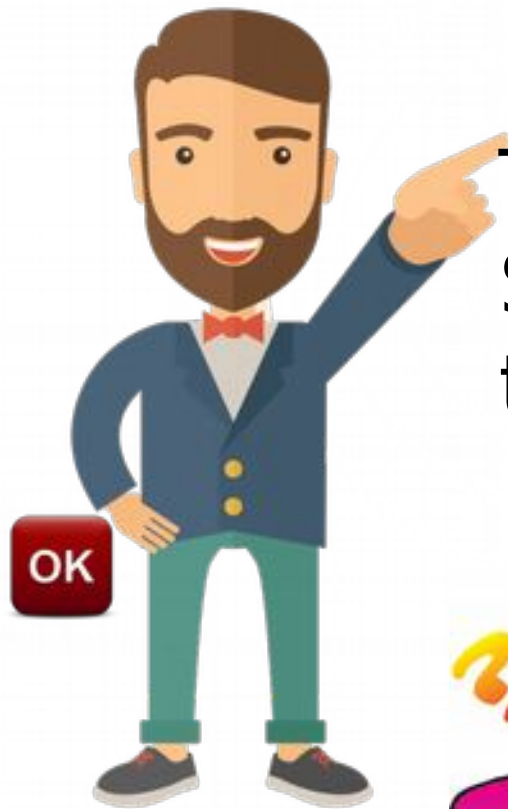


**Automati
on
testing ??**

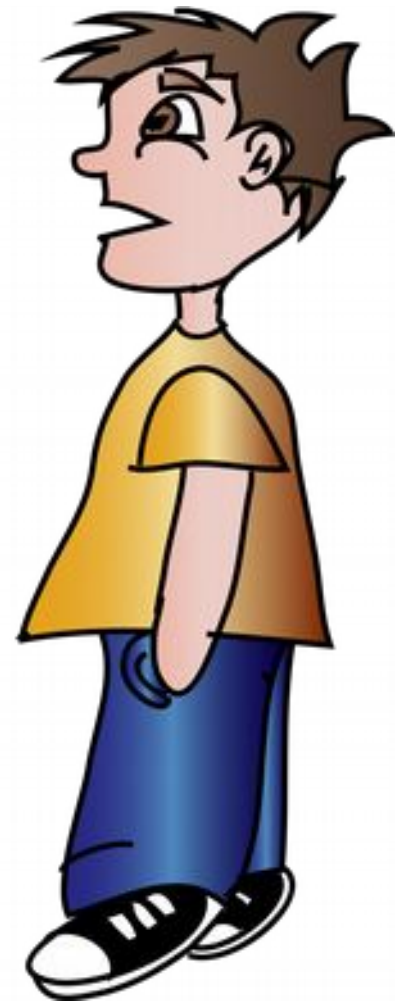


A quicker, more profitable way to implement testing on cloud applications, which provides higher reusability of test constituents.

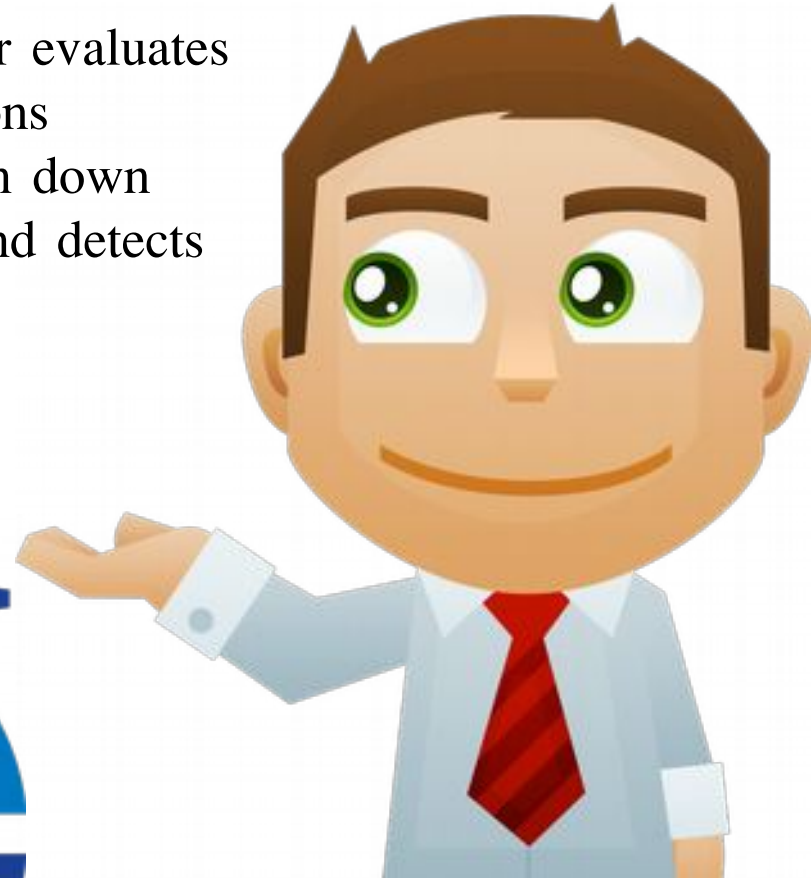


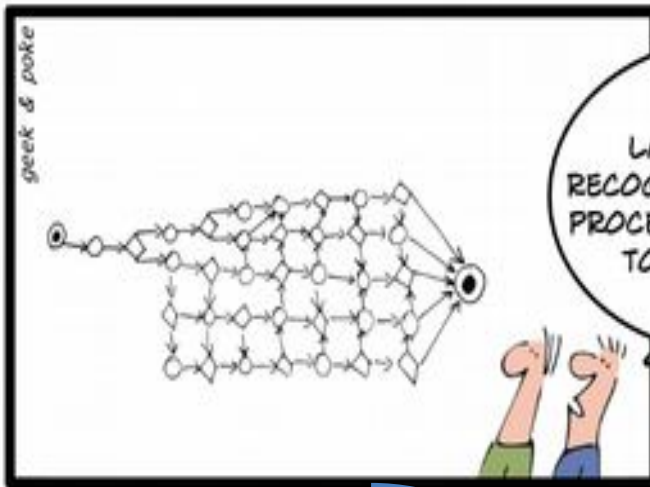


Then what is
Security
testing???



Automated code analyzer evaluates the security of applications functioning on cloud, pin down critical vulnerabilities, and detects memory leaks.





LAST YEAR WE
RECOGNIZED THAT OUR
PROCESSES WERE FAR
TOO COMPLEX

SO WE PUT THEM
INTO THE CLOUD



LET THE CLOUDS MAKE YOUR LIFE EASIER

Test tools sample checklist

- ☐ Platform support
- ☐ Ease of installation
- ☐ Ease of scripting
- ☐ Ease of use
- ☐ Data management
- ☐ Cost
- ☐ Stability
- ☐ Scalability
- ☐ Repeatability
- ☐ Market penetration
(availability of skilled testers)
- ☐ Support
- ☐ Real-time monitoring
- ☐ Real-time load adjustment
- ☐ Dynamic load-adjustment
- ☐ SUT monitoring
 - e.g. UNIX / Windows support
- ☐ Integration with other tools
 - e.g. Wily, dynaTrace, HP diagnostics
- ☐ Limits on load (licence / physical)
- ☐ Scheduled tests
- ☐ IP spoofing
- ☐ Rendezvous points
- ☐ Bandwidth throttling