



# P12 – GRC: Ecosystem In The Cloud

Presented by:

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# Agenda

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- Understanding GRC
- Metamorphosis of GRC – Stage 1
- Metamorphosis of GRC – Stage 2
- Approach for implementing GRC
- Metamorphosis of GRC –Stage 3
- GRC – Ecosystem in the Cloud (Metamorphosis of GRC – Stage 4)
- GRC in Cloud – Pros & Cons
- Case Study
- SaaS offerings by GRC vendors
- Key Questions for SaaS provider

# Understanding GRC

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## **Governance, Risk & Compliance (GRC)**

GRC typically encompasses activities such as corporate governance, enterprise risk management (ERM) and corporate compliance with applicable laws and regulations.

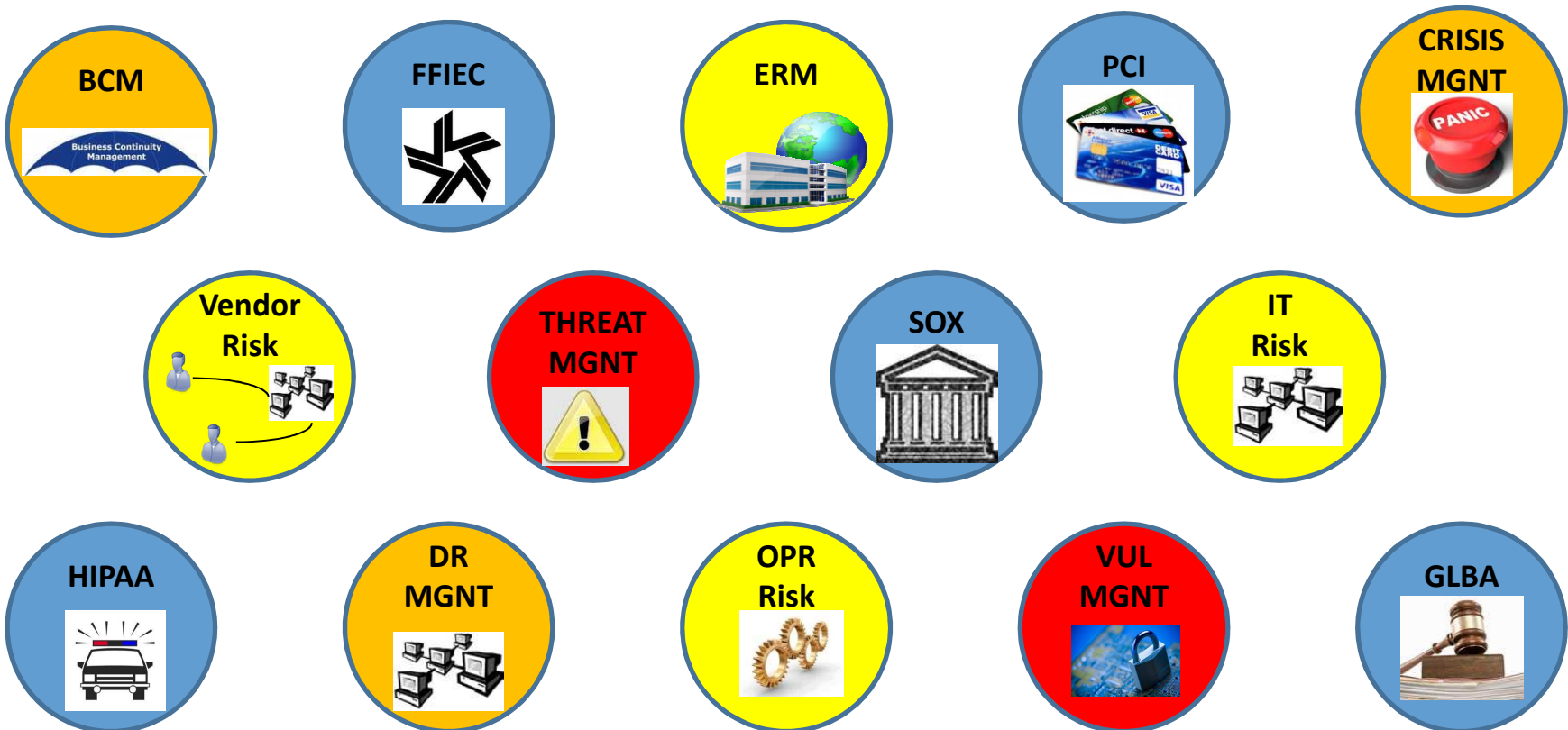
**Governance** describes the overall management approach through which senior executives direct and control the entire organization, using a combination of management information and hierarchical management control structures.

**Risk Management** is the set of processes to responds appropriately to risks that might adversely affect realization of the organization's business objectives.

**Compliance Management** means conforming with stated requirements (internal, industry, state, federal, clients etc)

# Metamorphosis of GRC: Stage-1

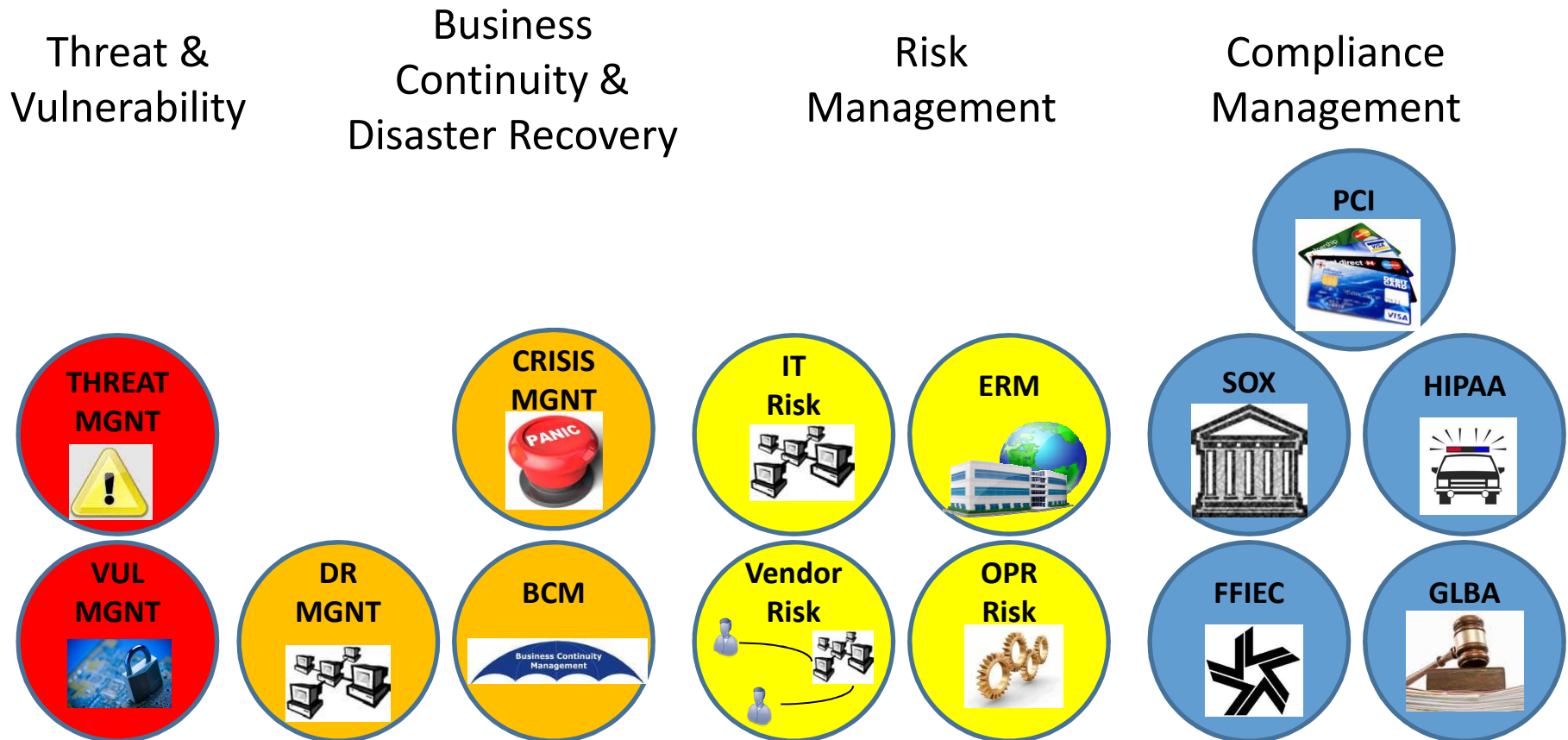
- Initial years where each team operated within their own SILO / independent environment.





# Metamorphosis of GRC: Stage-2

- Stage-2: Limited collaboration between similar teams



# Why GRC – Key Drivers

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Organizations, faced with increasing competitive challenges in the market place, are driven towards adopting technology to address their governance, risk and compliance needs.

## **Business Transformation**

- Companies are constantly going through changes to their organizational hierarchy
  - Mergers and Acquisitions
  - Restructuring
  - Globalization

## **Cost Reduction**

- Abundance of pervasive legacy systems
- Manually intensive business processes and control systems.

## **Compliance Management**

- Increase regulatory compliance needs
- Pressure to reduce cost of compliance
- Reduced headcounts requires employees to focus on core business.

## **Increase Efficiency**

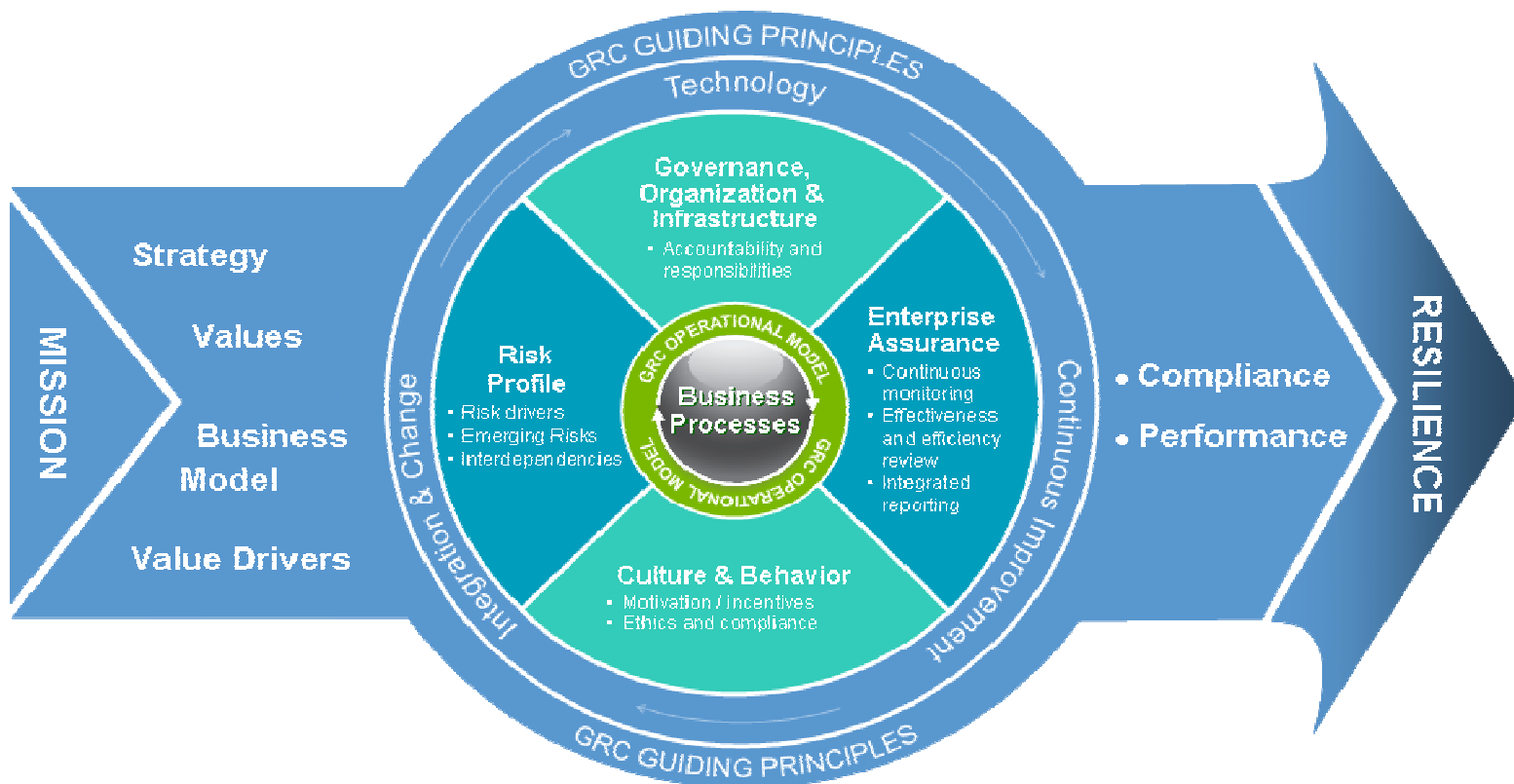
- Lack of visibility across the enterprise.

## **Business Decision-Making Support**

- Lack of real time data.

# Holistic Framework

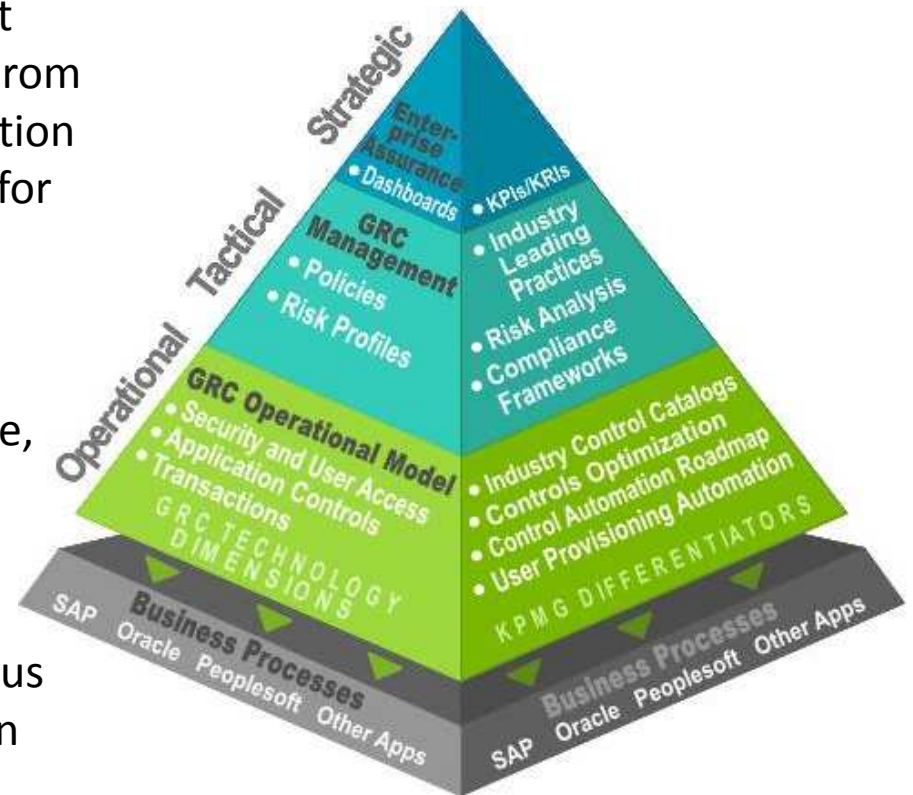
A holistic approach for establishing a successful and sustainable GRC Framework within the organization.



# GRC Tool Capabilities

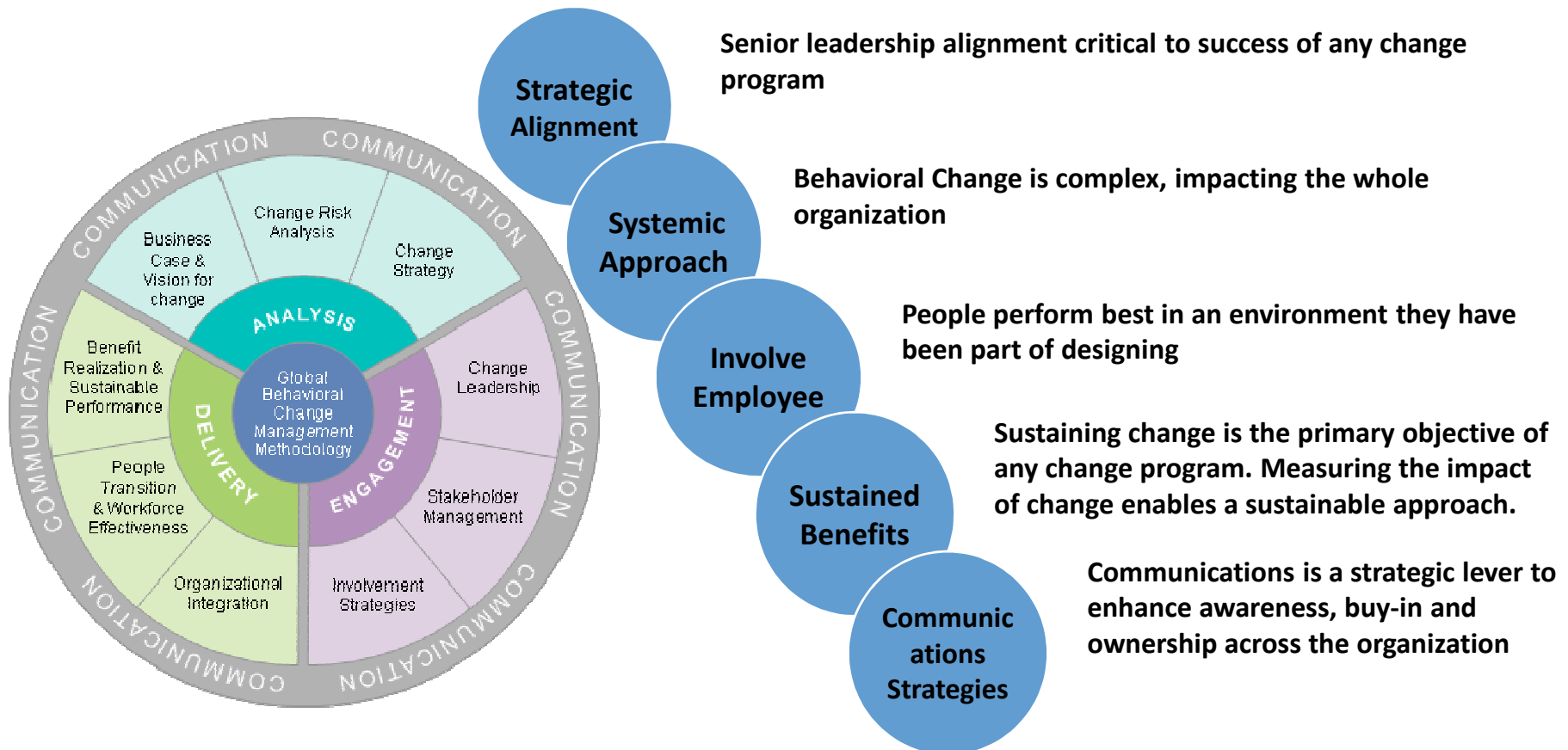
Governance, Risk, and Compliance (GRC) tool capabilities can be broadly classified into three major dimensions as follows:

- **Strategic** – The layer at which management monitors risk and enterprise governance. From a tools perspective, this includes the definition of Risk Monitors, Dashboards and Reports for providing strategic monitoring capabilities.
- **Tactical** – The layer at which an enterprise defines its governance structure, risks, and compliance needs. From a tools perspective, this is the layer where risk and compliance needs can be defined and automated for testing and monitoring.
- **Operational** – The layer at which continuous monitoring is performed by the tools within specific business processes.



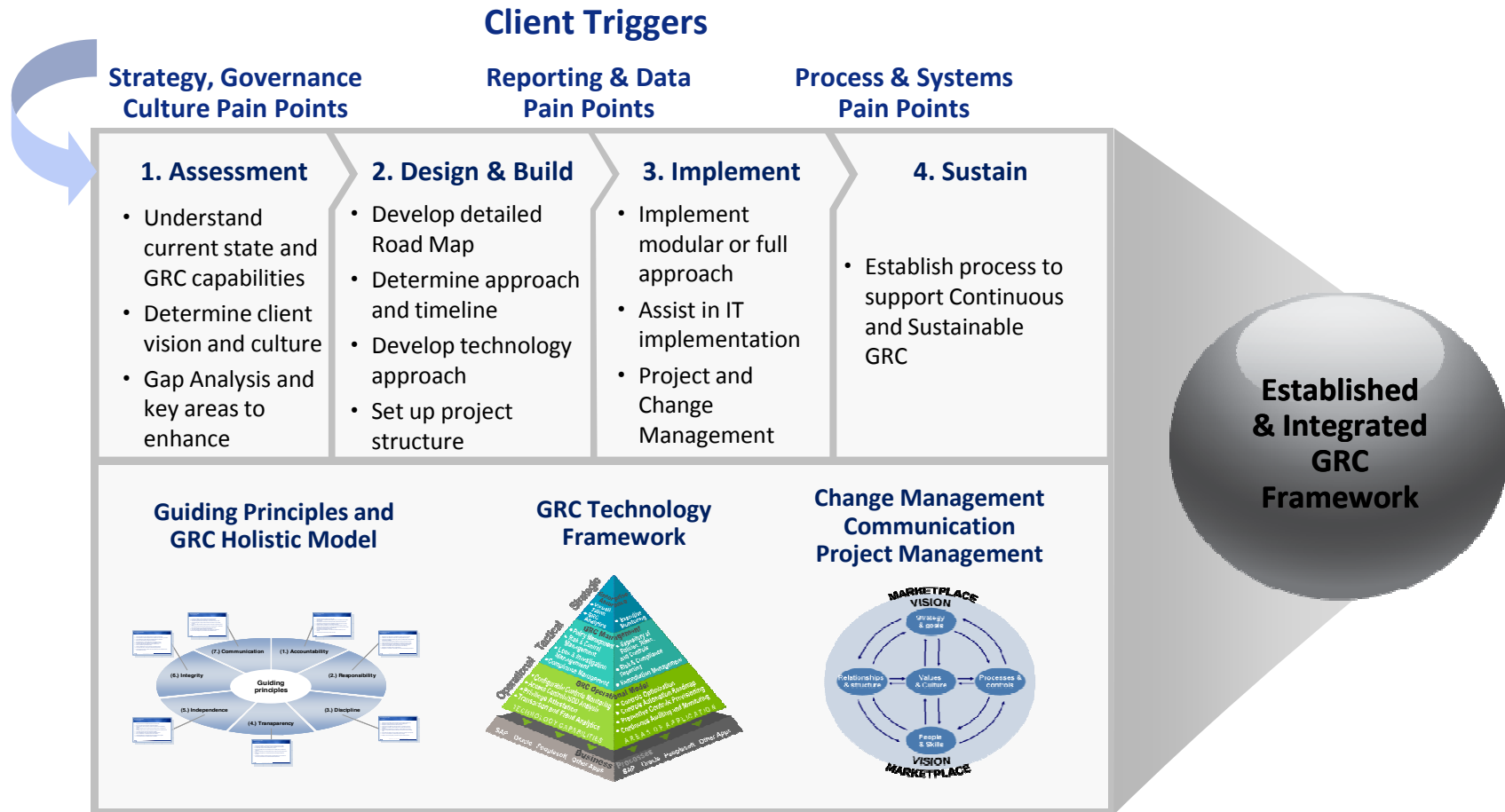
# Behavioral Change Management

Behavioral and culture change is very critical for enterprise wide GRC deployment. Key principles for managing behavioral & cultural change for GRC are:



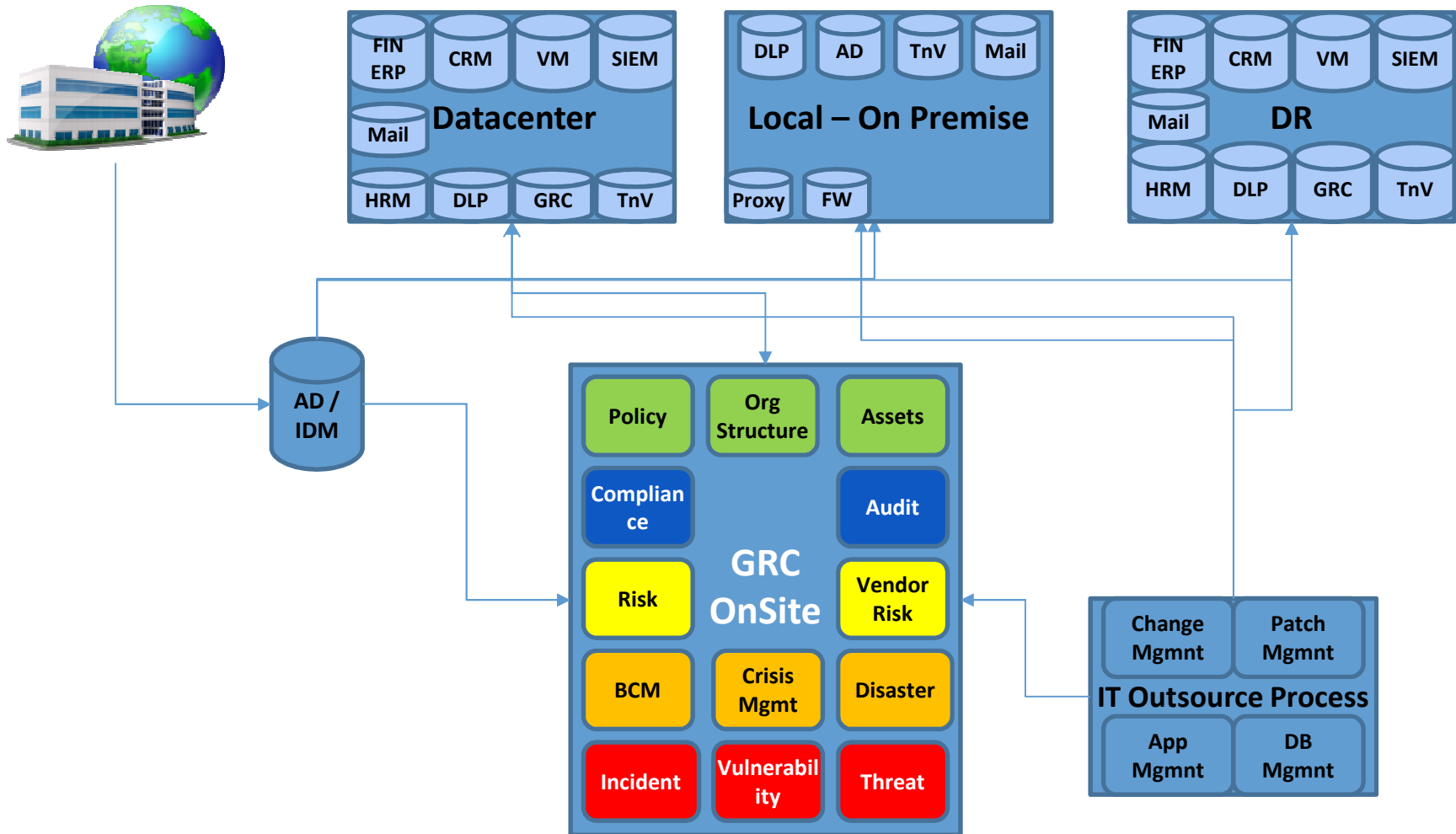


# Approach to Implementing GRC





# Metamorphosis of GRC: Stage-3



# Benefits of GRC

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Increased **consistency and transparency** from enterprise-wide alignment of GRC structures and processes.

Increased **efficiencies** from automated workflow and reporting of GRC processes.

A **centralized view of GRC** issues, events and unresolved findings and improved accountability and tracking.

**Cost optimization** from leveraging data and processes across departments (e.g., control testing data, risk data, etc).

**Real Time reporting** across organization level on risk exposure and compliance.



# GRC Ecosystem in the Cloud

“SaaS is starting to shake things up in areas like CRM (customer relationship management) and human resources, where it is replacing on-premises systems. SaaS is also making some inroads in GRC (governance, risk and compliance) and application development”

-Forrester-

A dark blue world map with white outlines of continents and countries, serving as a background for the footer text.

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# Understanding The Cloud Operating Environment

Cloud Environment = Internet-based data access & exchange + Internet-based access to low cost computing & applications

Cloud Environment Characteristics:

On-Demand Self-Service

Internet Accessibility

Pooled Resources

Elastic Capacity

Usage-Based Billing

## Cloud Service Models

**Software as a Service**

*Business operations over a network*

**"SaaS"**

**Platform as a Service**

*Deploy customer-created applications to a cloud*  
**"PaaS"**

**Infrastructure as a Service**

*Rent processing, storage, network, other computing resources*  
**"IaaS"**

## Cloud Deployment Models

**Private**

Operated for a single organization

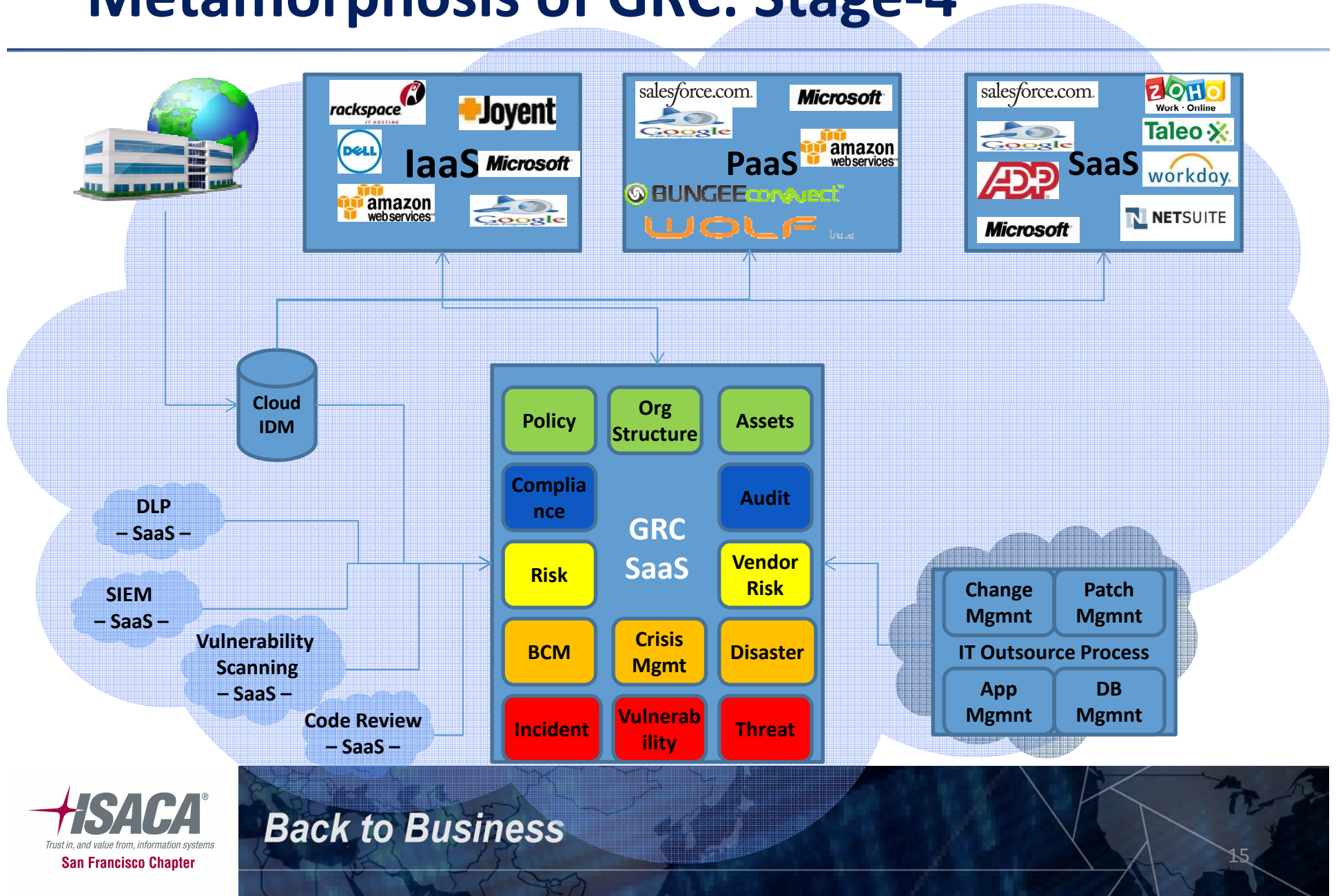
**Public**

Available to the general public or large industry group, owned by an organization selling cloud services

**Community**

Shared by several organizations, supporting a specific community

# Metamorphosis of GRC: Stage-4





# GRC in Cloud – Pros & Cons

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## Pros

- Low cost of ownership:
- Low effort on maintenance of Infrastructure
- Standardization of Governance process
- Possible Replacement for Legacy Technologies
- Easy to Scale

## Cons

- Integration with other applications
- Limited control over Access Management of Infrastructure
- Limited visibility of SaaS provider operations, data handling, security etc



# Case Study

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## Onsite

Goal: To implement enterprise wide GRC solution to manage risk and compliance effectively.

Implemented following modules:

- Enterprise Asset management;
- Risk Management;
- Compliance Management;
- Exception Management
- Vendor Risk Management

## SaaS

Goal: To implement enterprise wide GRC solution to manage risk and compliance effectively.

Implemented following modules:

- Enterprise Asset management;
- Risk Management;
- Compliance Management;
- Exception Management
- Vendor Risk Management
- Policy Management

# Case Study

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## Onsite

Infrastructure required

- Primary site
- DR site
- Separate third party instance in DMZ

HW Maintenance required

- Primary site
- DR Site

Pricing

- Priced per module

# of users

- > 30000 (Active users <10,000)

## SaaS

Infrastructure required

- None

HW Maintenance required

- None

Pricing

- Priced per user

# of users

< 500

# SaaS offerings by GRC vendors

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- Normally GRC SaaS vendors provide following:

## **Business Benefits**

- Up and running instantly
- Quick time to market
- Low cost to get started

## **Infrastructure Maintenance**

- Application Upgrades
- Hardware Installation
- Hardware Maintenance
- Operating System patches

## **Security**

- Intrusion Detection
- Firewall
- Virus Protection
- Monitoring

## **Continuity**

- Daily Backups
- DR Facility (may be)

# Key Questions for SaaS provider

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1. What will the service do?
2. How thorough is the vendor's service-level agreement?
3. How much will data backup cost, and how quickly can you get at data once it's been backed up?
4. How is intellectual property handled?
5. Do the vendor's policies and procedures map to mine well enough for me to comply with HIPAA, SOX and any other regulations that might apply?
6. Where is my data?
7. Is the data encrypted?
8. Is the vendor bound to give me physical access to the servers housing my data?

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# Questions





# Thank You

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&  
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