

RSA® Conference 2015

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Adaptive & Unified Approach to Risk Management and Compliance via CCF

Vishal Kalro

Manager, Risk Advisory & Assurance Services (RAAS)
Adobe
@awish11



CHANGE

Challenge today's security thinking



Disclaimer

All the views presented here are my own and not of the organization with which I am employed or was employed with. The material presented here is for educational purpose only and is up to the discretion of the participant as to how to make best use of it.

Agenda



Setting The Stage & Reality Check



Eureka - Adaptive and Unified Approach
via. CCF



Future Is NOW



Q&A



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Setting The Stage & Reality Check



Sightings

Source PWC's Information Security Breaches Survey 2015

90% of large organizations had a security breach up from 81% year a go

32% of the respondents in 2015 haven't carried out any form of security risk assessment

26% of the respondents don't evaluate how effective their security expenditure is

What comes to
your MIND?

IRS sued over data breach that affected **330,000** people

To battle Cyber attacks **CEO's** need to act more like **Military**

Hackers drop **Zero days** opens FireEye **fire sale**

Airport Computer **System Outages** Reported Nationwide

In Spite Of Networks Being Designed With **99.99 % Availability** There Are System Outages & Downtime

In An Event Of A Breach, It Takes Longer Then Expected To Contain The Situation

Millions Of \$\$'s Spent On Security & Compliance Fail To Provide A Reasonable Assurance

Source SOPHOS Security Threats Trend 2015

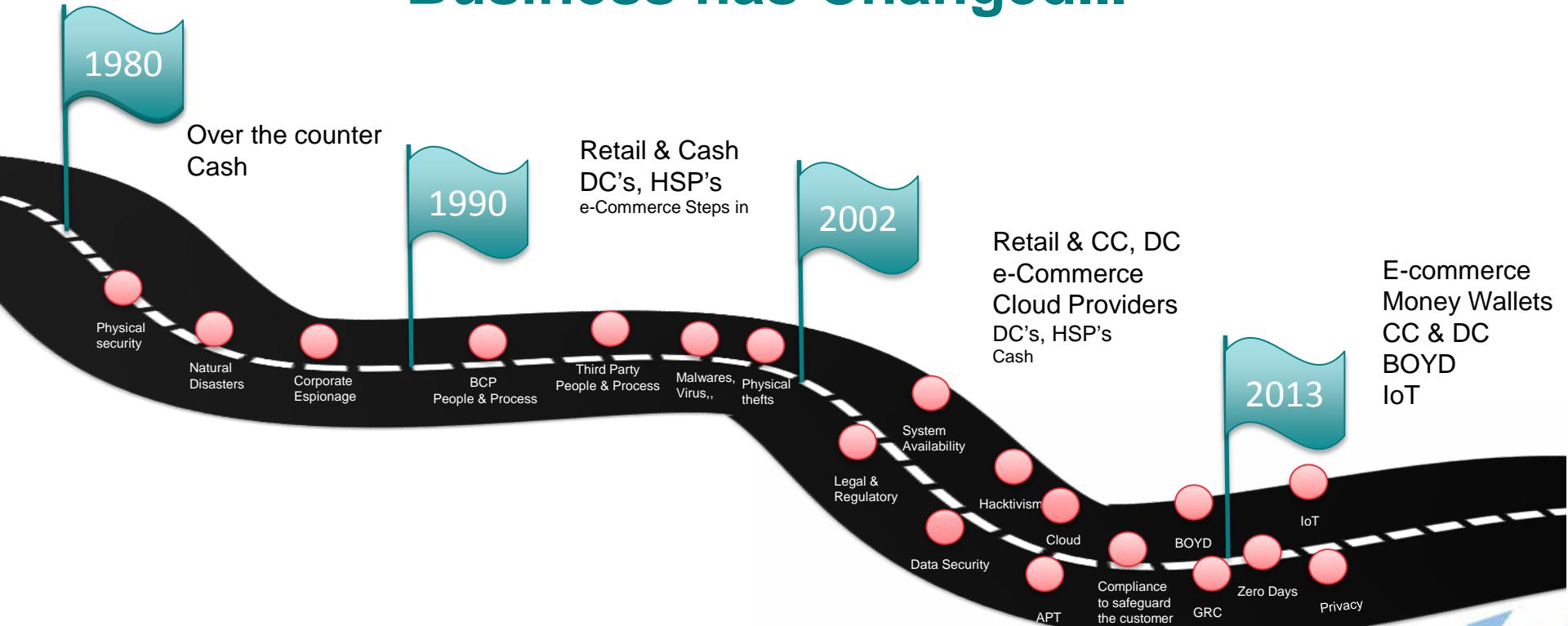
IoT attacks move from PoC to mainstream

More major flaws in widely-used software that had escaped notice by the security industry over **the past 15 years**

Regulatory landscape forces greater disclosure and liability

Global skill gap continues to increase, with **incident response** and **education** a key focus

Business has Changed...

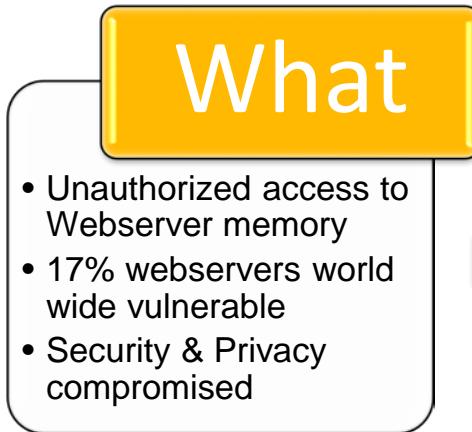


...& so has the Risk Landscape

Heartbleed

- Code reuse
- Programming errors in popular OpenSSL library

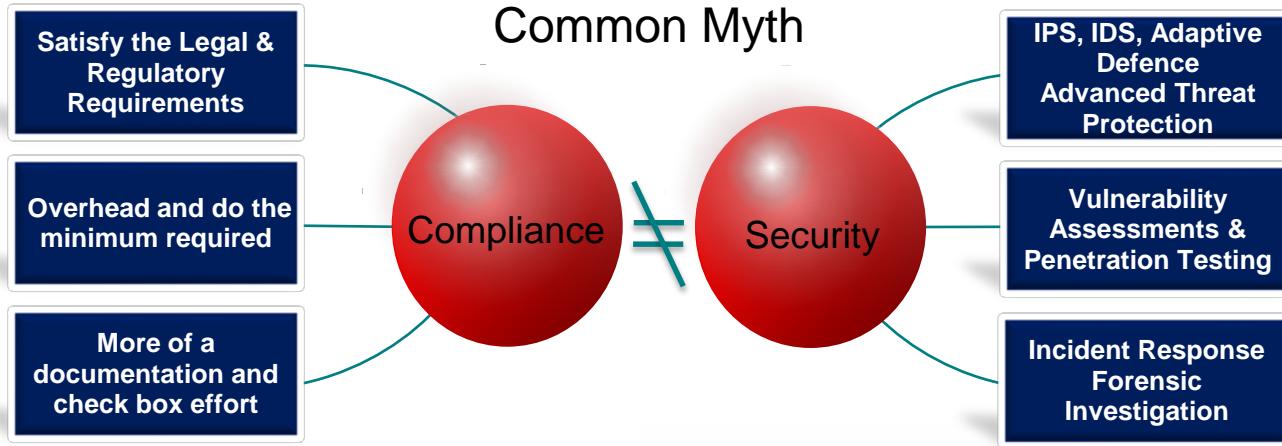
Why



Equilibrium –

- A well orchestrated and functional Incident Response process
- Robust asset management program
- Religiously followed system hardening process
- Security should be the soul of SDLC

Reality Check - Compliance vs. Security



Progressive Mind Shift



Compliance as an *enabler, motivator and budget driver* for Security
 Security best practices lead to *successful Compliance*
All round minimum Security can be achieved by Compliance
 Compliance, a *periodic Security health review* by means of *audit*

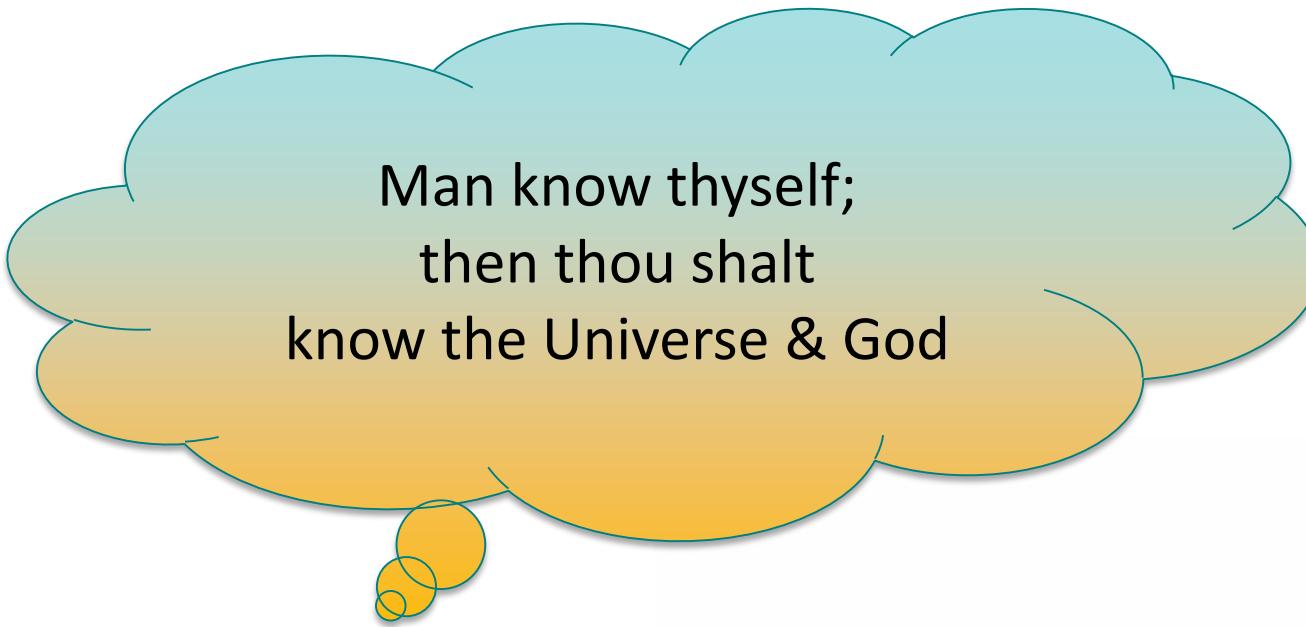
Security Assurance – Core Competency & Priority

- ◆ **Information Security** is a core competency for any service
- ◆ Era of “**just trust us**” is over – we need assurance!
- ◆ Vendor Priority – **Protecting Customers** and their data
- ◆ Security, data privacy & sovereignty are **prerequisites**
- ◆ Compliance **accelerates** the Sales and has become a **Competitive Advantage**



Eureka - Adaptive And Unified Approach via. CCF

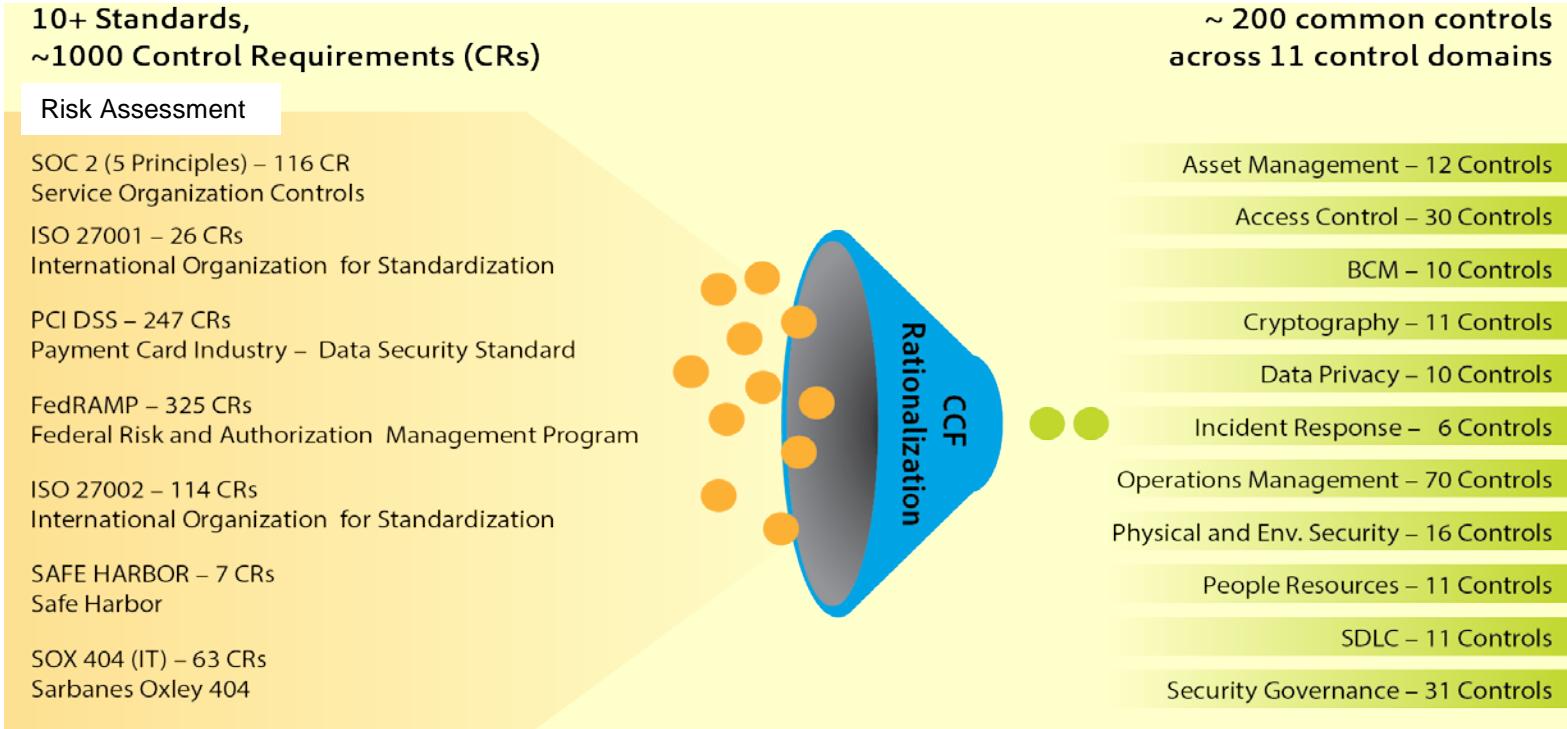




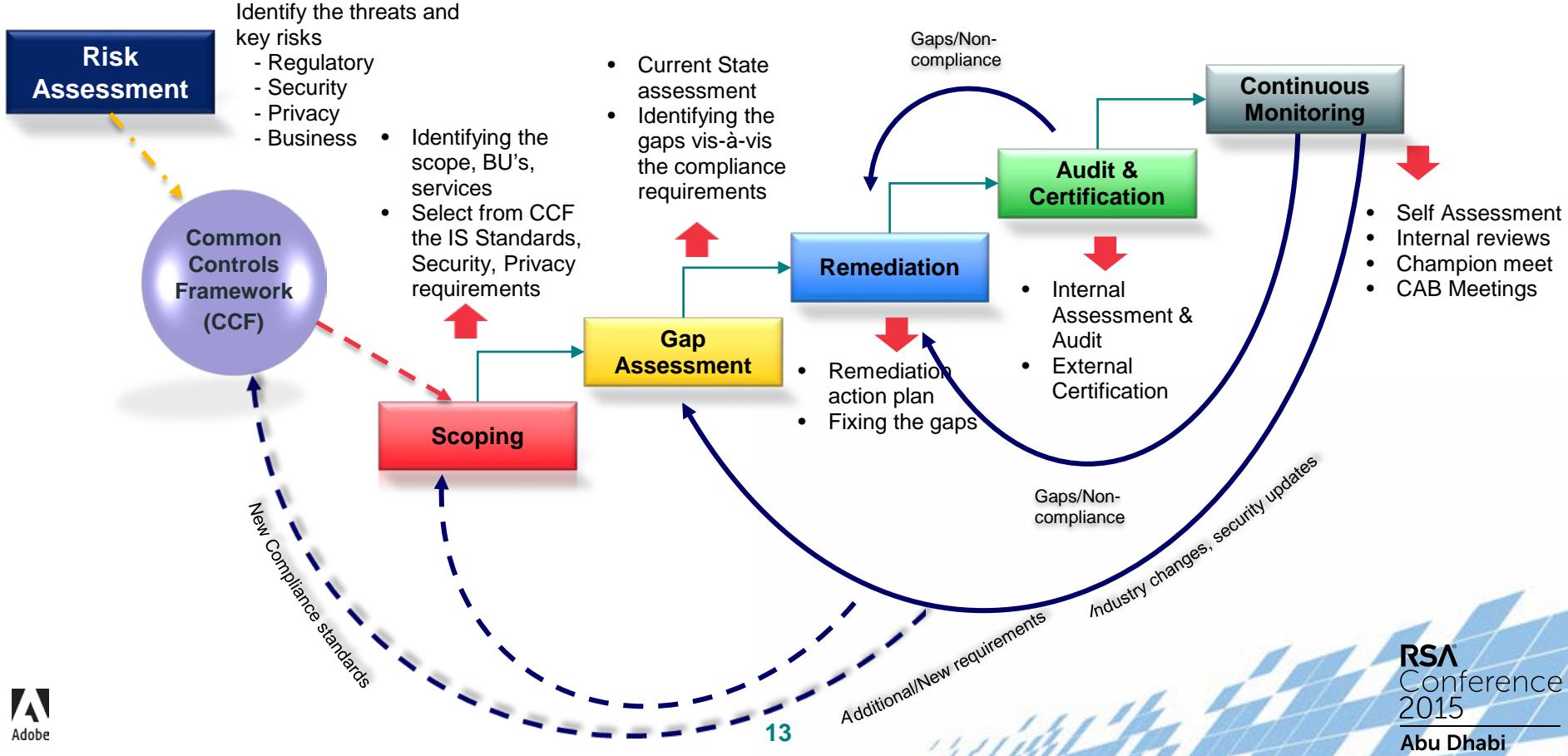
Man know thyself;
then thou shalt
know the Universe & God

- Pythagoras

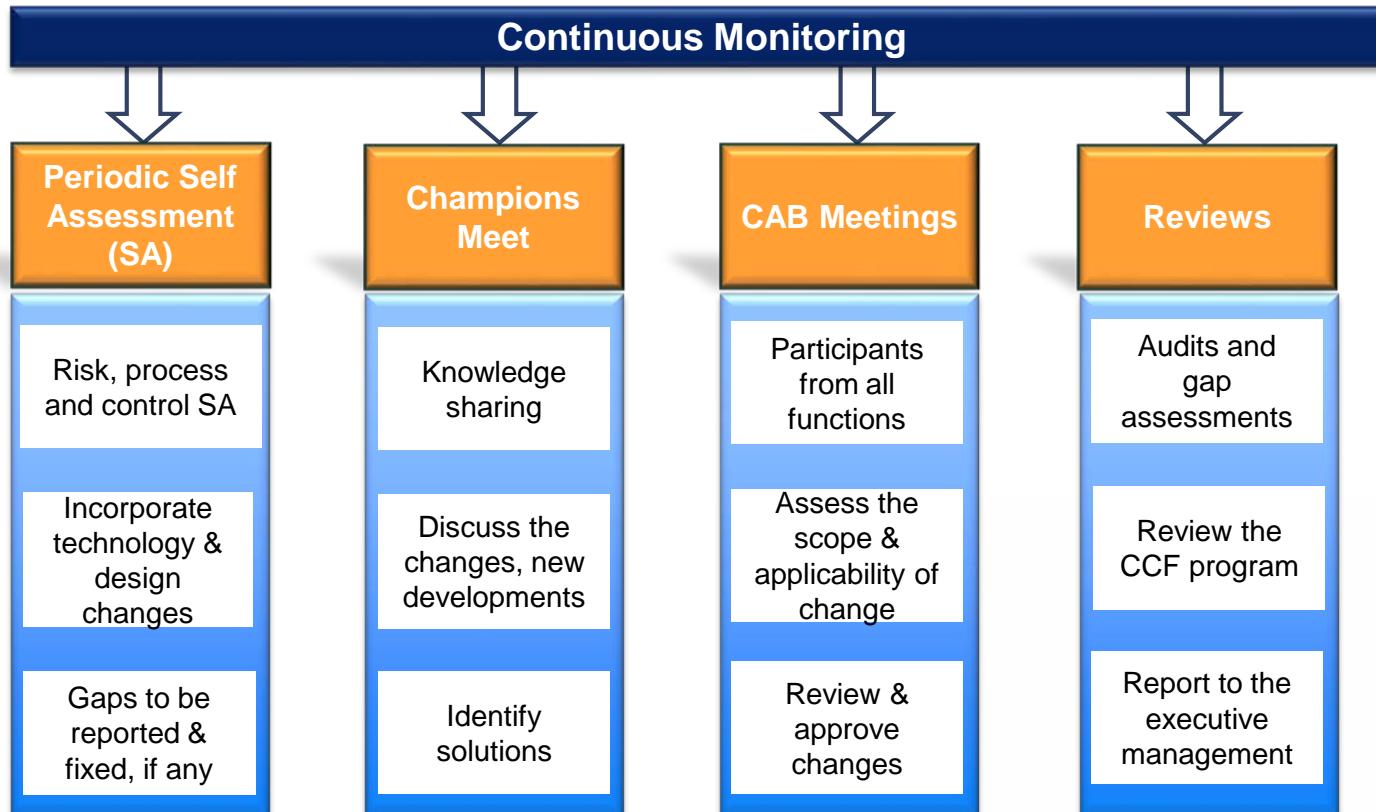
Common Control's Framework (CCF)



Roadmap To Assurance via CCF

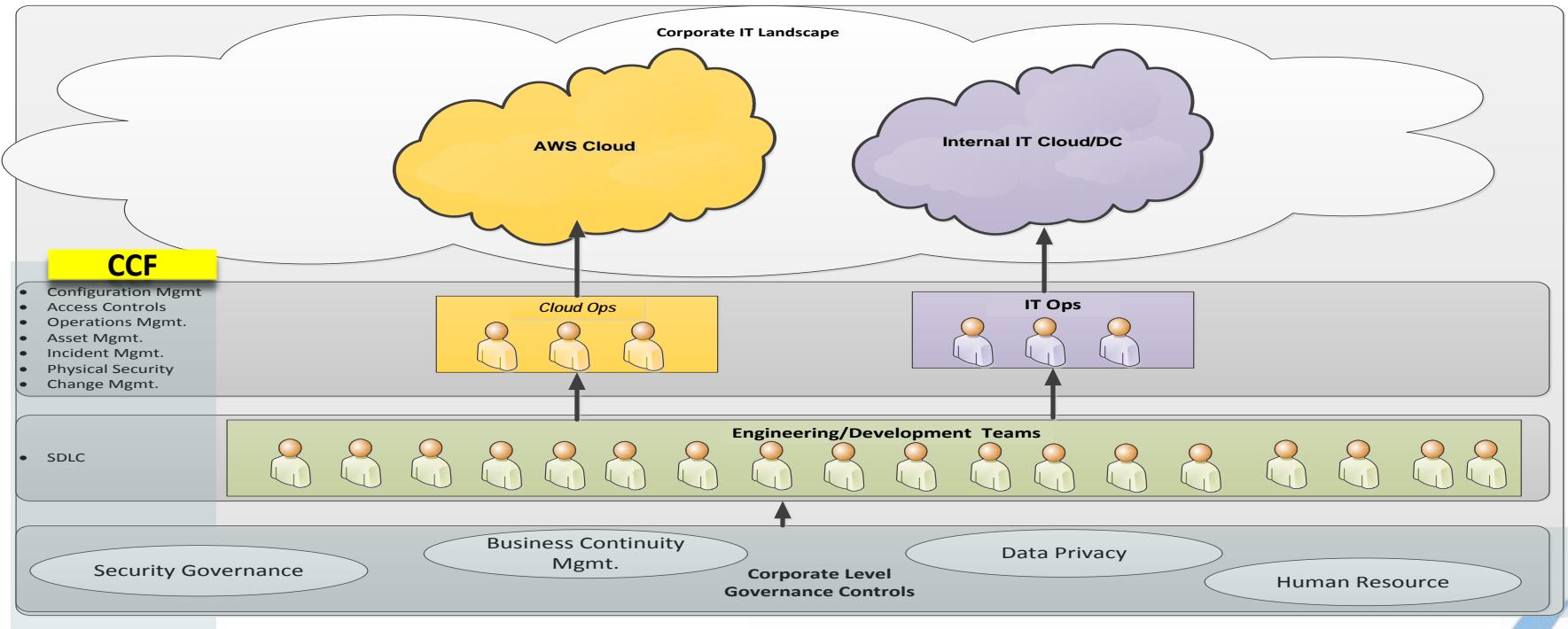


Making CCF An Ongoing Journey



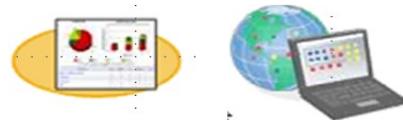
Gaps, inputs, security intelligence, industry updates etc. feed into CCF

CCF Conceptual Model



Leverage GRC Technology For Sustainable CCF Compliance

Integrated
Compliance
Dashboard



Governance, Monitor compliance activity on various levels with real-time reports and dashboards

Standardized
Compliance Activity



Automate processes using Assessment and Survey workflow with Issue Escalation

Efficiently Plan,
Scope, and Deploy



Leverage integrated program and organizational scoping to efficiently deploy compliance assessments

Centralized Program
Repository



Integrate compliance program and centrally store files, data, evidence, and results

Automated Controls
Monitoring



Automate control monitoring using event-driven, exception-based criteria

Building Blocks of A Successful CCF Program

Executive Support

Representation from All Departments

CCF - CAB

CCF - PMO

GRC Program

FAITH, Commitment & Intent



CCF



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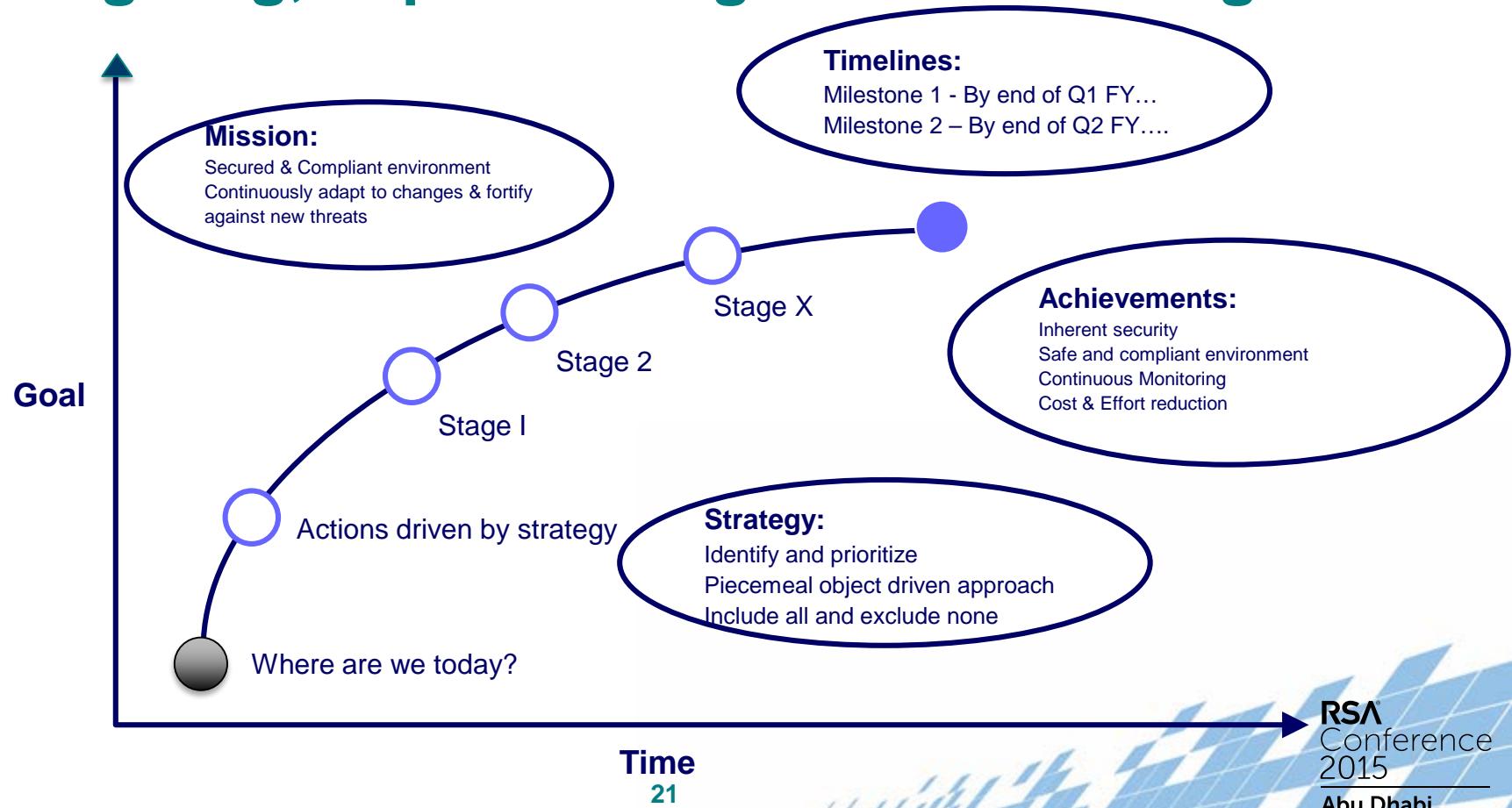
0 Is The Key

- ◆ Know Thyself –
 - Develop a high level blueprint of key businesses, IT Operations, different teams, process workflows etc.
 - This Blueprint will be your CCF Conceptual Model
 - Conduct Risk Assessment to identify key risks and threats
 - Make a list of Compliance Standards that your organization needs/wants to comply with – Regulatory, Legal, Customer safeguard, Value proposition etc.
 - Depending upon your business some may be a mandate, some maybe good to have, some may be required by end of next year and so on
 - Put a timeline to each of these requirements

Step After 0

- ◆ Develop your own Common Controls Framework (CCF)
 - Take a piecemeal approach, don't rush to build it in a day.
 - Leverage your current Policies, Procedures, Technology & Controls to develop your own CCF.
 - CCF should cut across all business functions, IT & related operations, teams etc.
 - Output of Risk Assessment should feed into CCF
 - Setup a CCF CAB and have representations from all key departments – IT, Legal, Security, Engineering, Business, Marketing & Sales etc.
 - Make CCF into an intelligent self sustaining program.

Strategizing, Implementing And Continuing



Benefits Of A Matured CCF Program

- ◆ Secure & Compliant Environment
- ◆ Risk Management & Compliance = reasonable Security Assurance
- ◆ Self Adaption To Changes And Protection Against New Threats
- ◆ Redundant Security Programs And Investments Minimized
- ◆ Lot Of \$\$\$\$\$\$'s Saved
- ◆ Legal, Regulatory And Compliance Requirements Satisfied
- ◆ Edge Over Competitors And Makes A Better Business Proposition



Thank You!

Q&A



Catch me if you want to, at -

vishal.kalro@icloud.com

@awish11