

Notes by CA Amruta Shevde

Ch. 1: Concepts

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Key Governance Practices

IT Compliance Review

Governance

IT Strategy

Internal Controls

IT Steering Com.

Business Value from Use of IT

COBIT 5

IS Assurance

Basics

Dimensions

Benefits (EDDS SHORTS)

- Enterprise Objectives achieved
- Desirable behaviour in use of IT encouraged
- Desired business process implemented & integrated into enterprise
- Strategically aligned decision making
- Stability
- Holistic IT Gov. framework
- Overcoming limitations of organisational structure
- Improving customer business & internal relationships
- Transparent decisions rights
- Satisfaction customer, business & internal

Enterprise Governance

Dimensions:

Corporate Gov. (Conformance)

Business Gov. (Performance)

- Historic View
- Focus on the regulatory req.
- Monitored by Audit Committee

- Forward looking
- Focus on strategy & value creation
- No dedicated oversight mechanism

Points for CG

C-I Cards:

- Compliance with relevant laws & regulations
- Internal Control Systems & IC Practices
- Clause 49 of LA
- Audit Committee or its equivalent oversights the Board
- Risk Management
- Disclosure requirements
- Sarbanes Oxley Act from US

IT Governance

Def: IT Gov. refers to sys. in which directors of enterprise evaluate, direct & monitor IT mngt to ensure effectiveness, accountability & compliance of IT

Key Practices to determine Status of IT Gov in ent.

INHIDER

- Who makes directing, controlling & executing decisions?
- How are decisions made?
- What info is req. to make the decisions?

- What decision making mechanism are required?
- How exceptions handled?
- How governance results monitored & improved?

CG & IT Gov

- Inseparable relationship.
- IT is key enabler of corp. business strategy.

Best Practices of Corp. Gov

I-C A - MIHIR

- IC S strongly implemented
- Conflict of Interest case - special monitoring of risk
- Assignment of responsibilities & decision making authority
- Mechanism for interaction & coop among Bod, Mngt & Auditors
- Incentives to act in appropriate manner
- Hierarchy of approvals
- Info flows appropriate internally & to public
- Risk Mngt functions

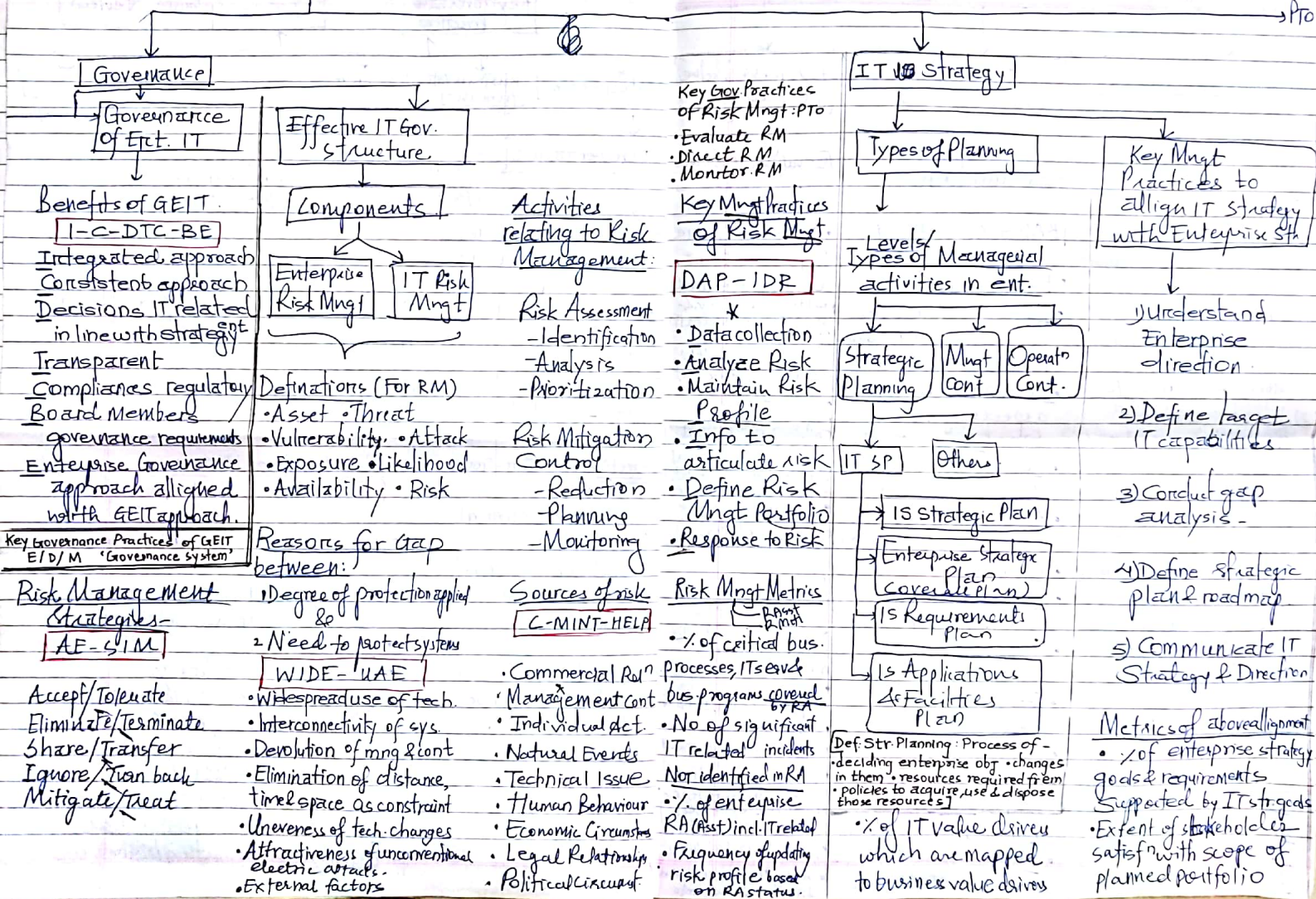
Benefits of IT Gov

VET-COMPU-MA

Nothing about objectives

- Increased value delivered through enterprise IT
- IT becoming enabler for change rather than an inhibitor
- Transparency
- Compliance regulatory
- Optimal ~~obj~~ utilisation of IT resources - *
- Management of IT related risk
- Performance cost better
- User satisfaction with IT services
- Mitigation of IT related risk
- Agility in supporting business needs

Def: A Governance system typically refers to all means & mechanisms that enable multiple stakeholders in an enterprise to have an organised mechanism for evaluating options, setting directions & monitoring compliance & performance to satisfy enterprise objectives



Ch 1 Concepts

Internal Controls

SEC's final rules
US Security & Exchange Coms

CO2 Annual Report to
include 'IC report of Mngt'
over IFR

IC report to contain
1) statement of mngt
responsibility for
estab & maintain IC-FR

2) Identification of
framework used to
conduct eval of IC-FR
3) Mngt assessment
of effectiveness of
IC-FR

+ disclose Material weakness
+ Not to conclude
IC-FR is effective if
1 or more mat. weakness

CO Pub a/c firms attestation
report on mngt's assessment of ICs with
IC components as

per COSO

IC-MICR

Control Environment

Monitoring

Info & Comm

Control Activities

Risk Assessment

IT Steering Committee

Key functions

BAD-SCARE-PISS-RP

- Review budgets
- Approve & monitor key projects by measuring results (Return on Inv.)
- Decisions on key aspects of IT
- Size & scope of IT
- Conflicts to be resolved in IT deployment
- Availability of link IT & its users ensure
- Reviews
- Enterprise goals - IT LT&ST plans
- Projects in all stages review
- Implement of security in enterprise
- Set priorities
- Standards, policies & procedures
- Report BOD regularly
- Performance of IT review

Business Value from use of IT

To evaluate if BV data
Key Mngt Practices

- Evaluate Value Optimisations
- Continually evaluate portfolio of IT inv. & assets. Consider if likelihood of objectives & value at reasonable cost
- Direct VO: Direct Value Mng. Principles & practices to enable optimal value from IT invst. thru their eco. life
- Monitor VO: Goals, Metrics, Issues, corrective actions

Metrics for BV from IT use

- % of IT enabled inv. where benefits monitored full life
- % of IT services where expected benefits realised
- % of IT inv. where expected benefits realised
- % of invst. business cases with defined & approved expected IT costs & benefits
- % of IT services with
- Satisf of stakeholders IT financial info

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Key Governance Practices

OF RISK MANAGEMENT

- Evaluate RM
- Continually examine & judge effect of risk on current & future use of IT
- Consider if risk appetite is appropriate

- Direct RM

Direct RM activities to provide a reasonable assurance that IT RM activities are appropriate

- Monitor RM

Monitor key goals & metrics & deviations & probs, etc. of RM

OF GEIT

- Evaluate Governance Sys.

Continually engage with stakeholders & judge the current & future design of GEIT

- Direct GS: Inform leadership

Obtain support & commitment. Guide processes & practices

- Monitor GS: Monitor effectiveness

performance of GEIT. Assess if operated effectively & provide appropriate oversight of IT

COBIT 5 Business Framework

Developed by Info Sys
Audit & Control Association
ISACA in 1996

Components in COBIT

C-PM-FM

- Control objectives
- Process description
- Maturity Models
- Framework
- Management Guidelines

Benefits of COBIT 5

OH-CRAP-GoBUS

- Objectives enterprise
- Holistic manner for gov. & mngt
- Compliance IT
- Compliance Legal & regulation
- Risk related to IT managed
- All sizes, etc enterprises can use
- Privacy IT related
- Policy development
- Good Practice for IT Mngt
- Optimal value from IT
- Balance between benefits & risk
- User satisfaction
- Security IT related

Ch. 1: Concepts

COBIT 5 framework

Principles of COBIT 5

CAMES

- 1) Covering end-to-end
- 2) Applying Single Integrated framework
- 3) Meeting stakeholder needs
- 4) Enabling holistic approach
- 5) Separating Governance & Mngt

COBIT 5 includes a Process Reference Model.

Domains: 2 Main

Governance

5 Processes

EDM01 to EDM05

Evaluate, Direct & Monitor Practices

EDM

5

Management

4 sub domains

APO 01 to APO 13

Align, Plan & Organize

APO

13

BAI 01 to BAI 10

Build, Acquire & Implement

BAI

10

DSS 01 to DSS 06

Deliver, Support & Service

DSS

6

MEA 01 to MEA 03

Monitor, Evaluate & Assess

MEA

3

Enablers of COBIT 5

COPPPIS ⑦

- Culture, Ethics & Behaviour
- Organisational Structures
- Processes
- Principles, Policies & Frameworks
- People, Skills & Competencies
- Information
- Services, Applications & Infrastructure

[Def: Enablers are factors that individually & collectively influence whether something will work]

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IS Assurance

ML-CORP

Internal Audit activities to evaluate IT governance structure & practices:

- 1) Leadership
- 2) Organisational Structure
- 3) Processes
- 4) Risks
- 5) Controls
- 6) Performance Measurement/ Monitoring

Pro*

IT Compliance review

Acts to protect Investors by corp disc

US
Sarbanes Oxley
+
Oversight by PCAOB

India
• CI-49 LA
• IT Act, 2008
+
Guidance by ICAI to members & CARO, 03

Key Mngt Practices of IT compliance

IOCO

Identify External Compliance Requirements.

Optimize response to external requirements.

Confirm External Compliance

Obtain assurance of external compliance

Metrics to assess compliance

With External laws

- Cost of IT non-compliance (incl fees & settlements)
- No of IT related non comp issues reported or causing public embarrassment
- No of non comp related to contractual agreement with ITSP
- Coverage of compliance assessment

With Internal policies

- No. of incidents related to non compliance to policy
- % of stakeholders who understand policies
- % of stakeholder policies supported by standards & working practices
- Frequency of policy review & update

IS Assurance

Sample areas for GRC Review by Internal Auditors:

SG-E-MIME-FA

- Scope
- Governance
- Evaluate Ent. Ethics
- Risk Management
- Interpretation
- Risk Management Process
- Adequacy of RM Process
- Risk Exposures Evaluation
- Fraud & Fraud Risk eval
- Interpretation
- Enterprise Ethics
- Adequacy of RM Process

Sample areas for review of Assessing & Managing risk

Evaluate -

- RM ownership
- RM accountability
- Kinds of IT Risks
- Defined Risk Tolerance Profile
- Risk assessment Methodology
- Timely reassessment
- Root Cause analysis
- Risk Mitigation
- Risk measurement < Qty Quality
- Risk Action Plan
- Risk Mitigation Measures

Key Mngt Practices for assessing & evaluating TCS

- Monitor IC
- Review Business Process Controls Effectiveness
- Perform control Self assessments
- Identify & report Control deficiencies
- Ensure assurance providers are independent & qualified
- Plan assurance initiatives
- Scope — u —
- Execute — u —

PM Defn to learn

- Threat
- Risk
- Exposure
- Residual Risk
- Likelihood
- Attack
- Counter Measure