

**JAMES A ROBERTSON AND ASSOCIATES**  
**EFFECTIVE STRATEGIC BUSINESS SOLUTIONS**

**JAR&A**

**Engaging the Board in Strategic  
Information Technology Decisions**

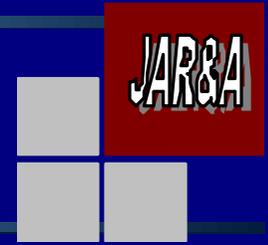


**GIBS Board Leadership Programme**

**Dr James A Robertson PrEng**

**JAR&A<sup>(c)</sup>**  
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# ENGAGING THE BOARD IN STRATEGIC I.T. DECISIONS

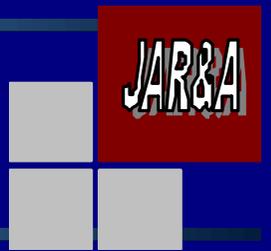


## QUALIFICATION OF WHAT FOLLOWS

- Information technology CAN be deployed in strategically powerful ways
- I.T. can create material bottom line benefit
- Personal benchmark -- doubled turnover in 12 months and created a revenue stream that was sustained for a decade
- BUT many projects fail to meet expectations
- Where is I.T. going?
- How do you achieve success?



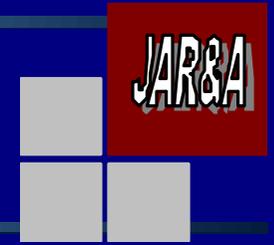
# ENGAGING THE BOARD IN STRATEGIC I.T. DECISIONS -- AGENDA



1. I.T. Governance issues -- failure is rife and Board liability is a reality
2. Strategy -- what causes your organization to thrive?
3. Strategic capability -- delivery -- causing the organization to thrive
4. Essential I.T. knowledge for Board members -- what is I.T. -- really?
5. I.T. the harshest judge of governance -- why I.T. will highlight governance issues
6. Executive custody -- how will you know that you have custody of your I.T.?
7. I.T. strategic alignment case studies -- how I.T. decisions can sabotage business



# CONTEXT: INFORMATION TECHNOLOGY GOVERNANCE DEFINED BY KING



**Governance = Care!**

**Board is responsible for I.T. Systems**

Mervyn King



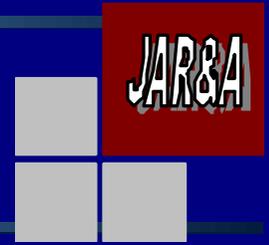
## CONTEXT: INFORMATION TECHNOLOGY GOVERNANCE



1. "This [I.T.] is an area where boards of directors will be named in stockholder suits"
2. "Senior management is not engaged enough in strategic information technology decisions and situations that could put the company at risk."
3. "Information systems could cause the next outbreak of Enron-like corporate scandals."
4. "I.T. is the next corporate disaster waiting to happen"

"Creating an IT Watchdog for the Board by Assembling an I.T. Oversight Committee" presented to the I.T. Governance and Strategy Summit by Professor Rossouw von Solms of Nelson Mandela Metropolitan University quoting Richard Nolan of Harvard Business School in Harvard Business Review

# CONTEXT: INFORMATION TECHNOLOGY GOVERNANCE



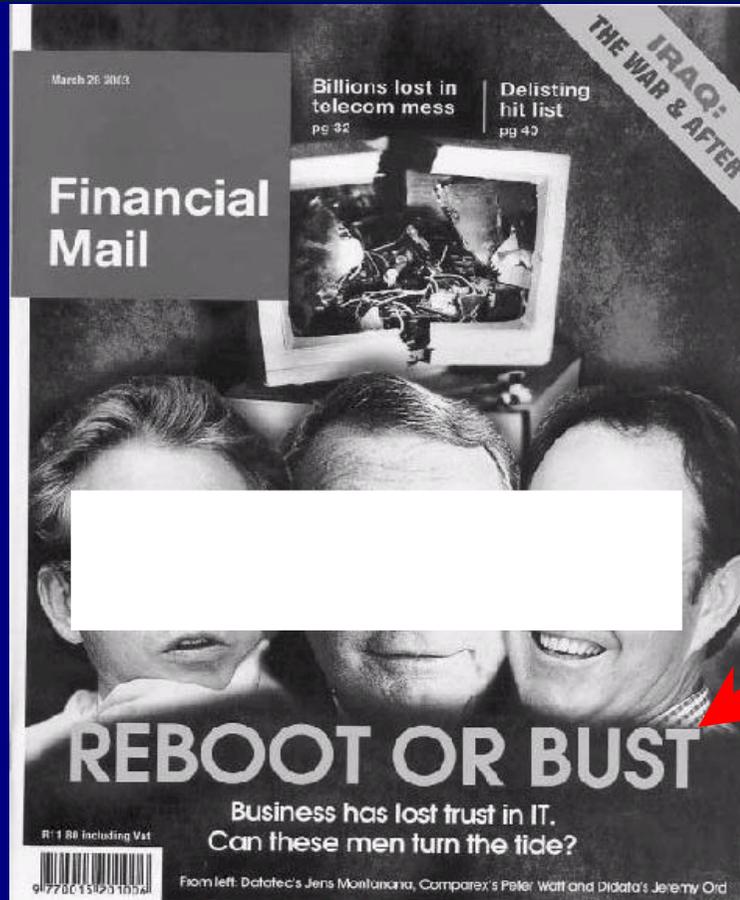
1. I T is now seen as being an integral part of enterprise strategy rather than a mere enabler within organizations
2. Almost all organizations today are absolutely dependent on I.T.
3. Major I.T. Write-Offs
  - After spending seven years and close to **half a billion dollars** implementing a mainframe E.R.P. system, the Dow Chemicals Co stopped and started over with a client-server version
  - Nike -- **\$400 million** against their supply chain management system
  - Disney -- **\$878 million** against its go.com web portal
  - Kmart -- **\$195 million** against supply chain hardware and software
  - Gateway -- **R143 million** against I.T. projects no longer fitting its strategy

“Creating an IT Watchdog for the Board by Assembling an I.T. Oversight Committee” by Professor Rossouw von Solms of Nelson Mandela Metropolitan University at the I T Governance and Strategy Summit



# CONTEXT: INFORMATION TECHNOLOGY AN INDUSTRY CHARACTERISED BY FAILURE

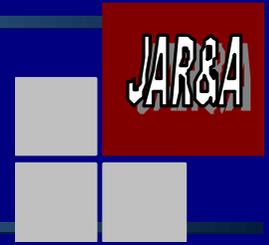
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*“19 out of 20 E.R.P.  
Implementations do  
NOT deliver what was  
promised”*

Duncan McLeod

# CONTEXT: INFORMATION TECHNOLOGY AN INDUSTRY CHARACTERISED BY FAILURE



1. **Seventy percent of I.T. investments fail TOTALLY**
2. Another twenty percent fail to fully satisfy the original business requirement
3. *"19 out of 20 E.R.P. implementations do not deliver "what was promised"*  
**McLeod**
4. Ninety percent of strategic plans fail
5. Seventy percent of B.P.R. investments fail
6. *"Most organisations are not making better decisions than they did five years ago."*  
**Gartner**





# A CRITICAL PRINCIPLE FOR SUCCESS

Engineer Against Failure

JAR&A



**Engineers do NOT design bridges to stand up!**



# A CRITICAL PRINCIPLE FOR SUCCESS

Engineer Against Failure

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Engineers do not design bridges to stand up!

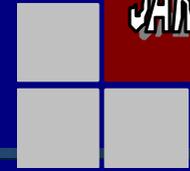
**They design bridges NOT to fall down!**

# MANAGEMENT FOR SUCCESS

## FOUNDATIONS OF THE APPROACH



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1. Buildings stand up, aircraft fly, ships float, machines work, motor vehicles operate, houses keep out the weather, etc
2. Expect the same level of reliability from I.T.
3. A successful solution is one that does NOT FAIL

Reliably -- AND  
people know  
how to use  
them  
effectively and  
profitably

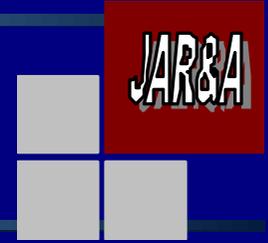
**Success = getting to "NOT failure"**

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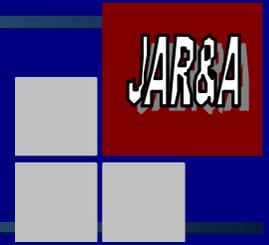
# STRATEGY DEFINED



WHAT IS STRATEGY?



# STRATEGY DEFINED

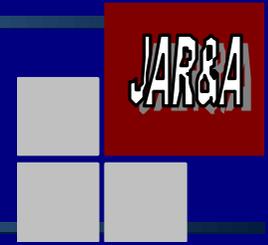


## WHAT IS STRATEGY?

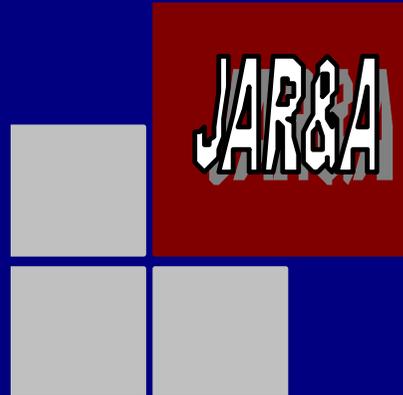
1. The essence of why a business exists and how it thrives
2. Vital context to I.T.
3. I.T. failure is primarily a failure of corporate strategic capability

# STRATEGY DEFINED

Professor Malcolm McDonald



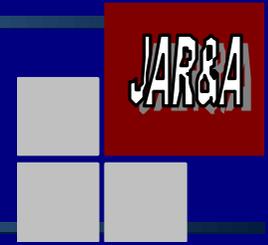
## DOING THE RIGHT THINGS



Professor Malcolm McDonald  
Cranfield School of Management

# TACTICS DEFINED

Professor Malcolm McDonald



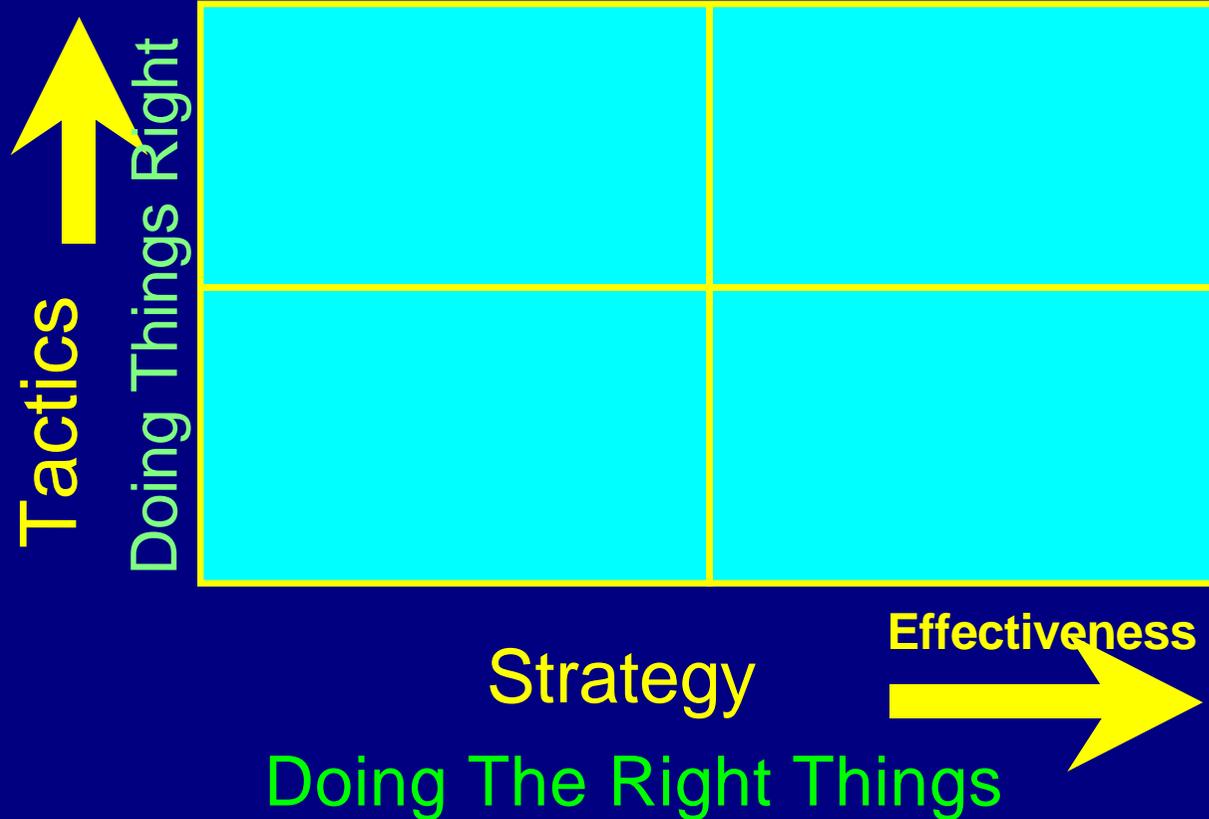
## DOING THINGS RIGHT

Professor Malcolm McDonald  
Cranfield School of Management

# STRATEGY vs TACTICS : A DEFINITION

Professor Malcolm McDonald

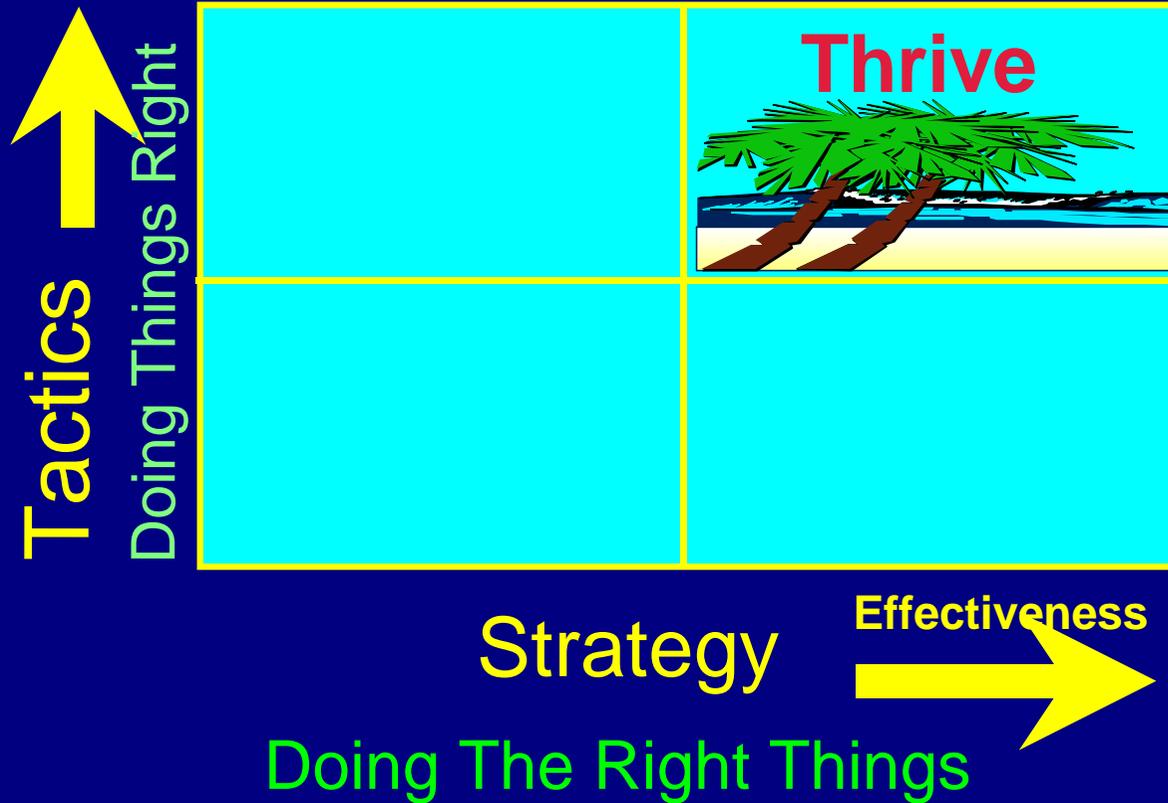
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# STRATEGY vs TACTICS : A DEFINITION

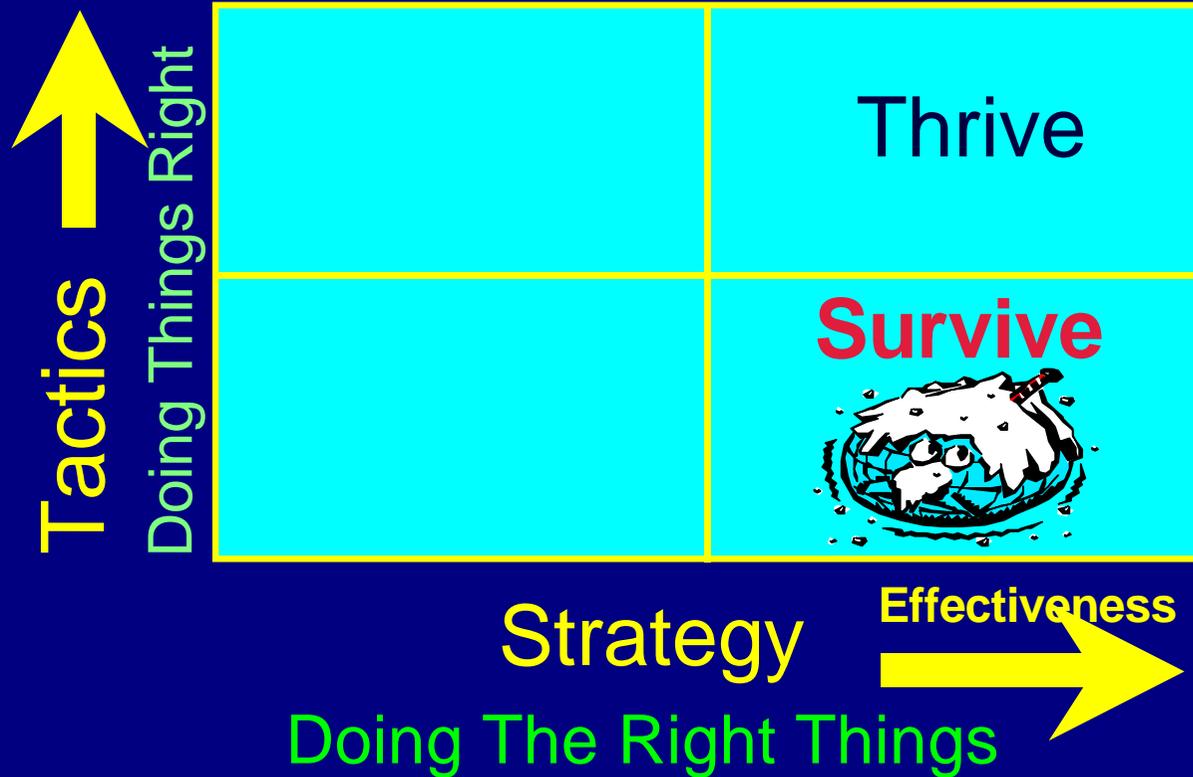
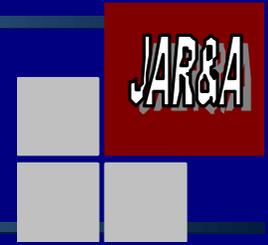
Professor Malcolm McDonald

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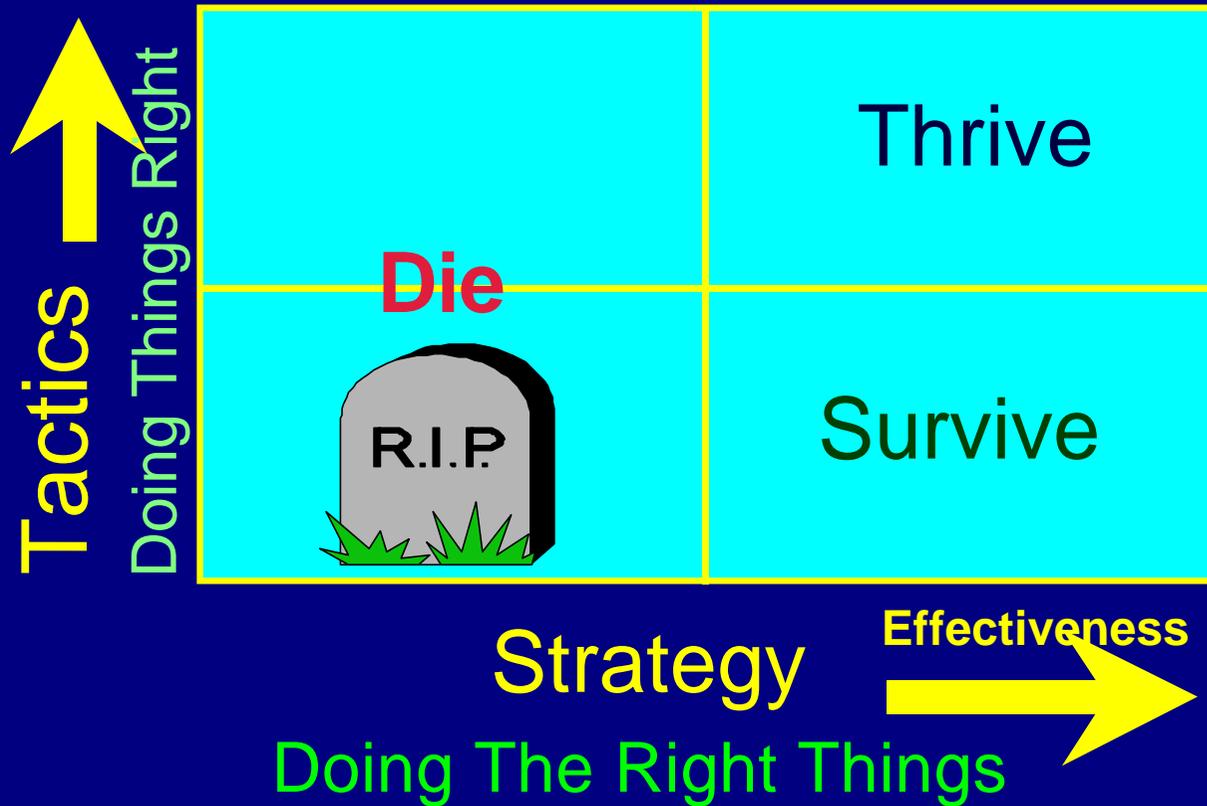
Professor Malcolm McDonald



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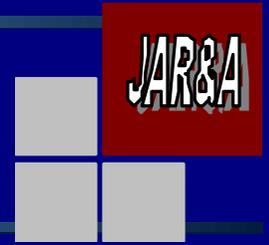


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Professor Malcolm McDonald



# STRATEGY DEFINED

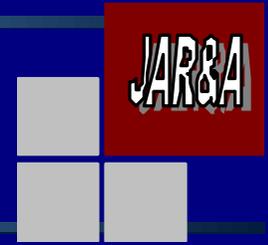


## WHAT IS YOUR ORGANIZATION'S STRATEGY?

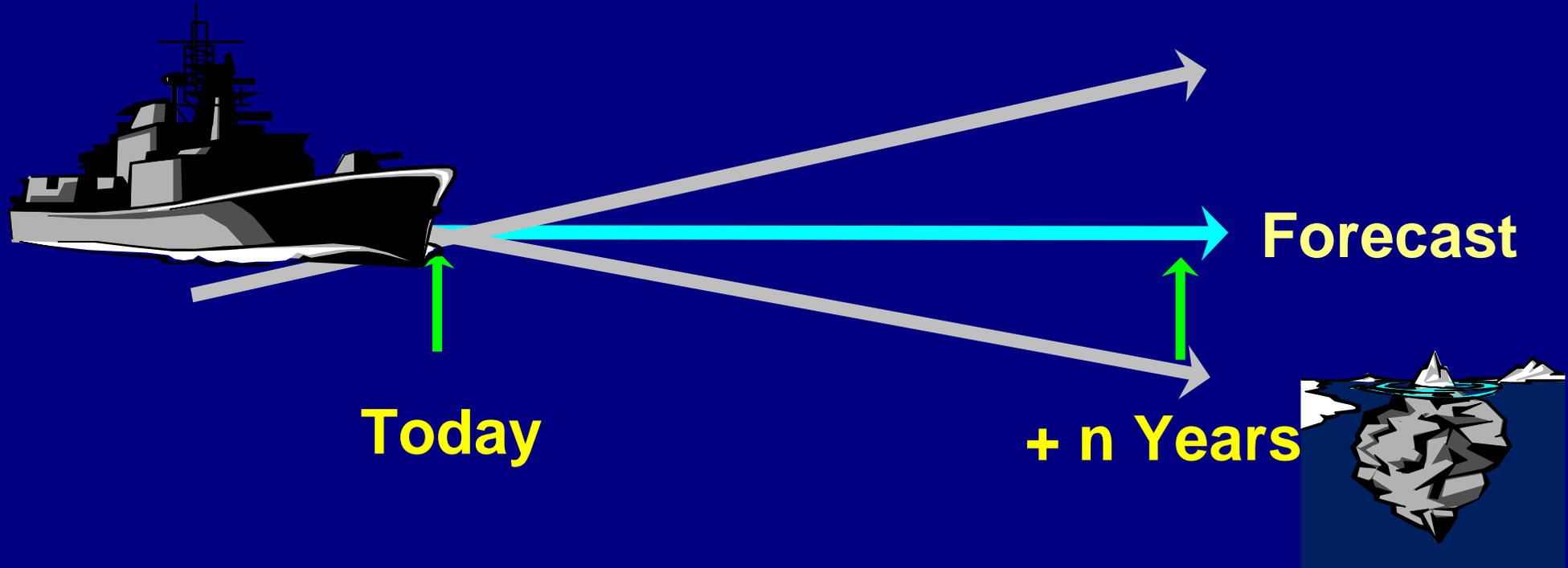
What is the essence of why your  
organization exists and how it thrives?

# THE TIME DEPENDENCY OF STRATEGY

Professor Malcolm McDonald

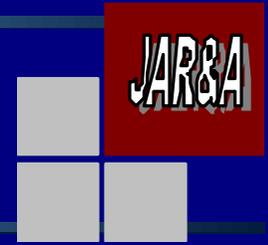


## NOT A FORECAST



# THE TIME DEPENDENCY OF STRATEGY

Professor Malcolm McDonald



**NOT AN OBJECTIVE**

Objective

Forecast



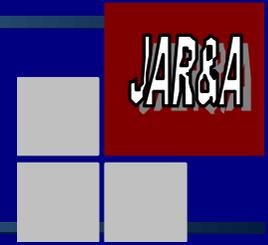
Today

+ n Years

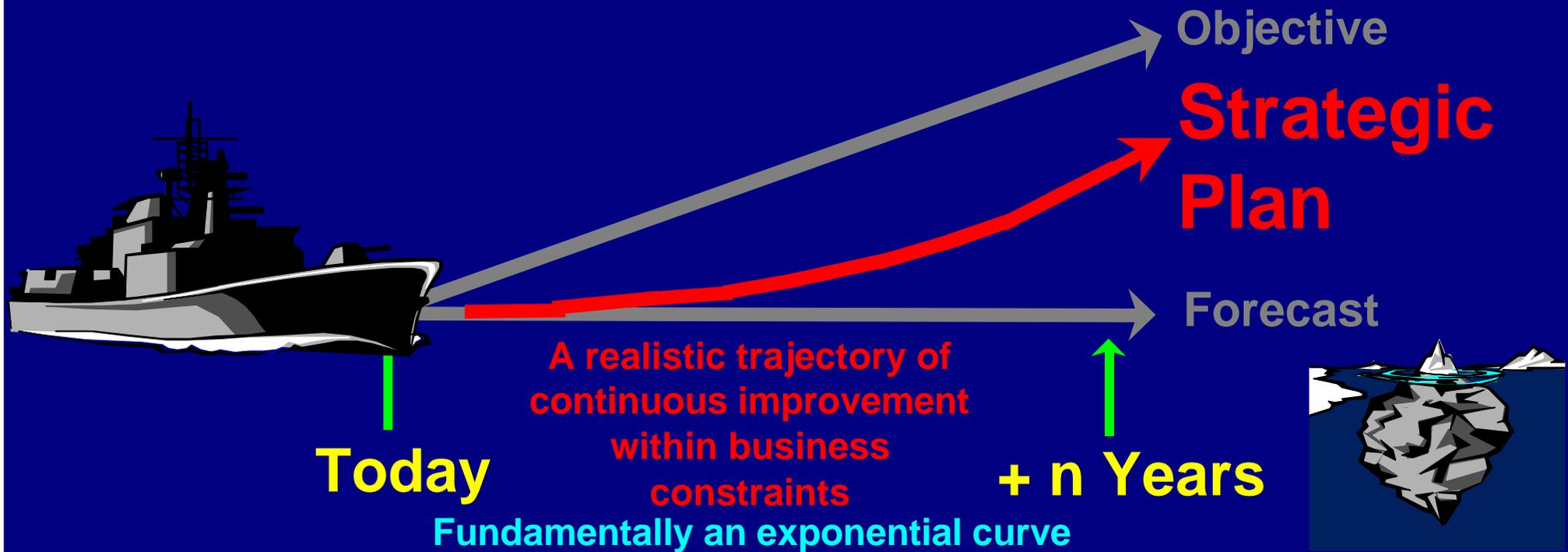


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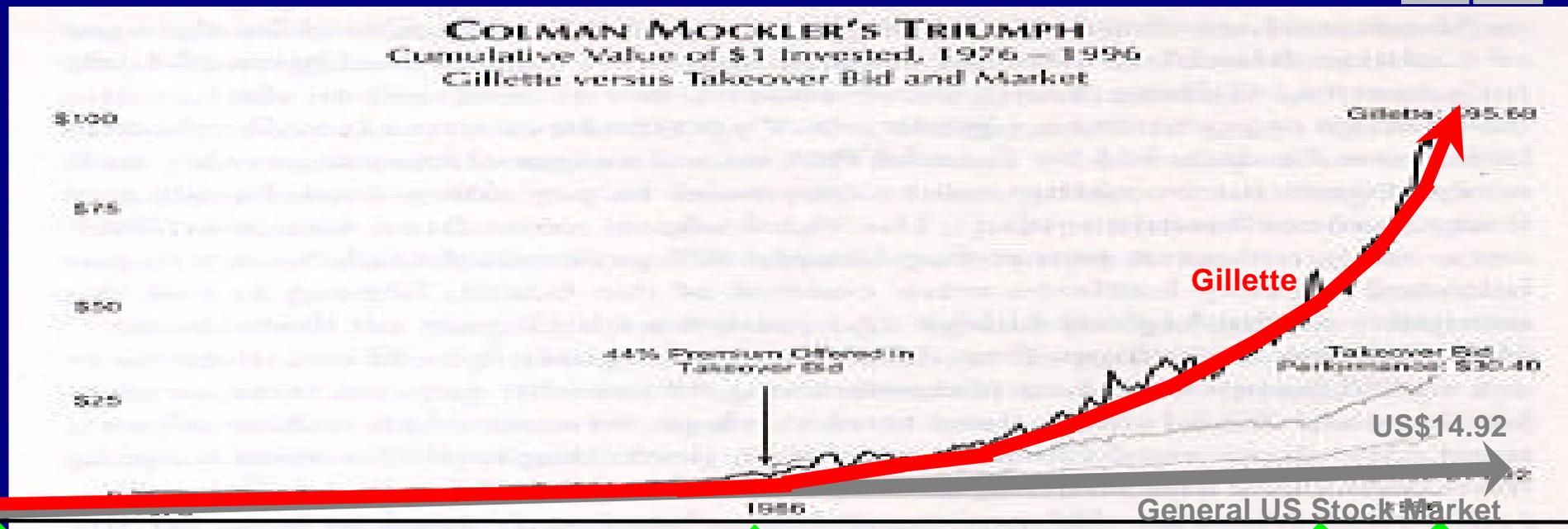


## STRATEGIC PLAN = THE PATH TO COMPETITIVE ADVANTAGE



# FROM GOOD TO GREAT

## THE EXPONENTIAL TRAJECTORY OF GOOD TO GREAT



1975  
 Colman Mockler  
 Appointed CEO

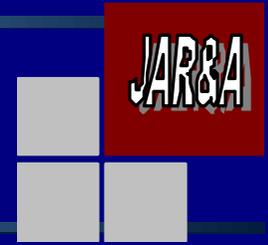
1986  
 Hostile takeover  
 thwarted

1991  
 Mockler  
 retires

1996  
 End  
 Study

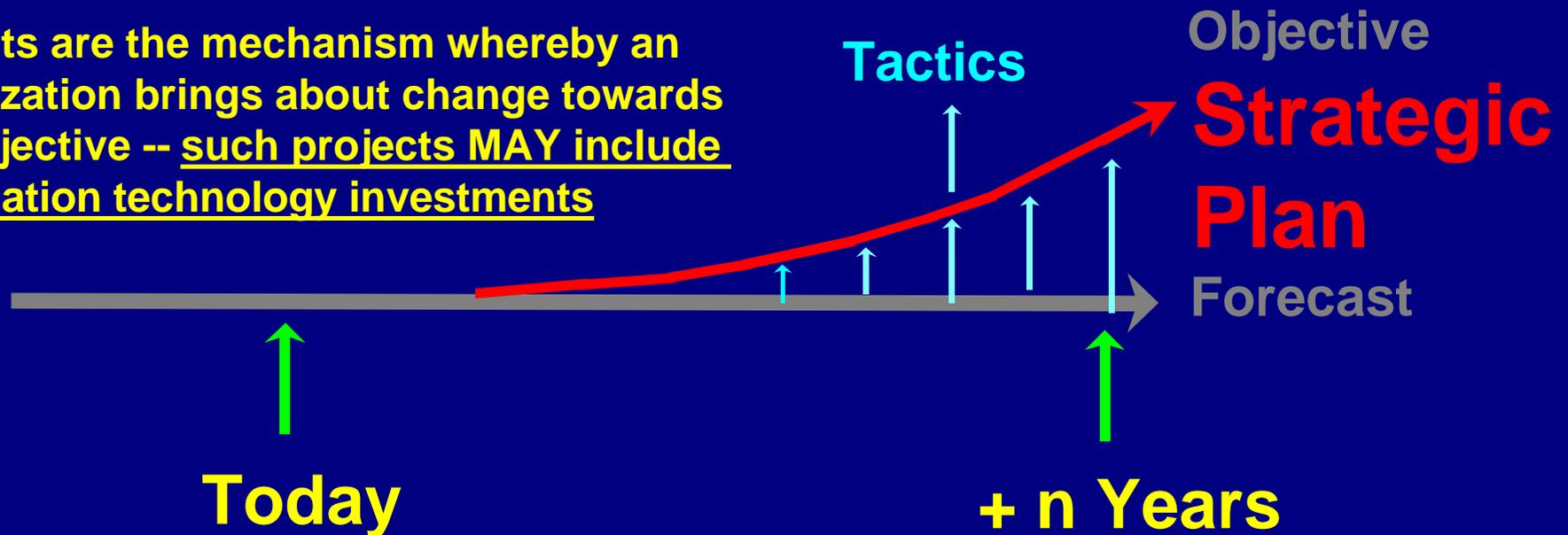
# THE TIME DEPENDENCY OF STRATEGY

Professor Malcolm McDonald



Strategic plans must be future focused  
Design your I.T. solutions for the future - NOT the past

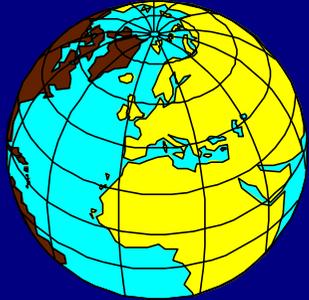
Projects are the mechanism whereby an organization brings about change towards the objective -- such projects MAY include information technology investments



# THE CORE OBJECTIVE -- DIFFERENTIATION

Create Competitive Advantage

JAR&A



## ECONOMIC TRENDS : HISTORICAL DIFFERENTIATORS

- 60's Production
- 70's Sales
- 80's Finance
- The 90's and 2000's
  - Excess supply
  - Single division cannot solve
  - A boom is unlikely!!
- Strategic Issues are Vital

Implies a Holistic, Integrated Business Approach Including Effective I.T.

# THE CORE OBJECTIVE -- DIFFERENTIATION

Create Competitive Advantage

The logo for JAR&A, featuring the letters 'JAR&A' in a stylized, bold, white font with a black outline, set against a red rectangular background.

## ECONOMIC TRENDS : WHERE ARE WE NOW?

- Sixty years after World War II we live in an age like no other
- The differentiators of past decades are necessities for survival
- How will corporations differentiate themselves and grow in the next ten years?
- Notwithstanding the 70% outright failure rate of I.T. investments)

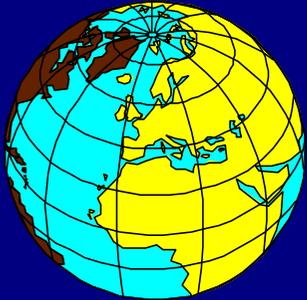
Implies a Holistic, Integrated Business Approach Including Effective I.T.

# THE CORE OBJECTIVE -- DIFFERENTIATION

Create Competitive Advantage

JAR&A

## THE KEY DIFFERENTIATORS IN 2000 AND BEYOND



- Market Focused Strategy
- Utilization of the Human Resource
- Effective Management Decision Making

**World Competitiveness Report; McDonald & Others**

**Requires Information To Make The Right Decisions**

# STRATEGY DEFINED

## SO --- WHAT IS STRATEGY?

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### 1. STRATEGIC CONSTANTS

- The reason the organization exists
- Strategic value proposition - what is the essential value we deliver?
- Strategic driving force - what propels us?
- Values - how do we conduct ourselves?
- **What we will NOT do**



### 2. STRATEGIC VARIABLES - CHANGE INCREMENTALLY

- Strategic vision - where are we going?
- Strategic objective - what we are aiming to achieve?
- Strategic / competitive environment - SWOT, differentiators, alienators, market factors, etc

Core strategy is constant (Porter, Robert)

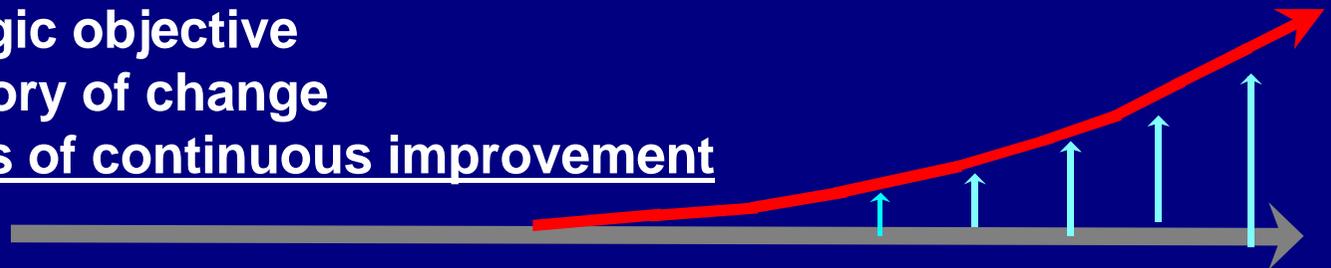
# STRATEGY DEFINED

SO --- WHAT IS STRATEGY?

JAR&A

## 3. STRATEGIC PLAN

- Specific, detailed projects and activities designed to achieve the strategic objective
- Maps out a trajectory of change
- Living plan -- basis of continuous improvement



## 4. STRATEGY IS NOT

- NOT Strategems - wheeling or dealing or manipulation
- NOT a way of doing things or a method or a way of running projects or operating a business
- Should NOT change every year
- NOT three days at a conference venue once a year



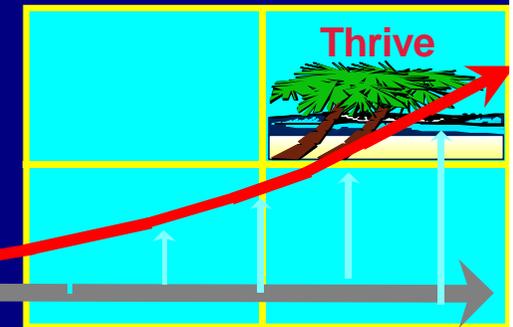
# STRATEGY DEFINED

SO --- WHAT IS STRATEGY?

JAR&A

## 5. STRATEGY IS

- Multifaceted, complex, abstract, holistic
- Requires cognitive thinking to define, describe and translate into action
- Describes the essence of the market forces that impact the business and how the business interacts with the market in order to succeed and plans to interact with the market in the future
- Strategy impacts every facet of the organisation



The essence of why an organization exists and how it thrives

# STRATEGIC ALIGNMENT

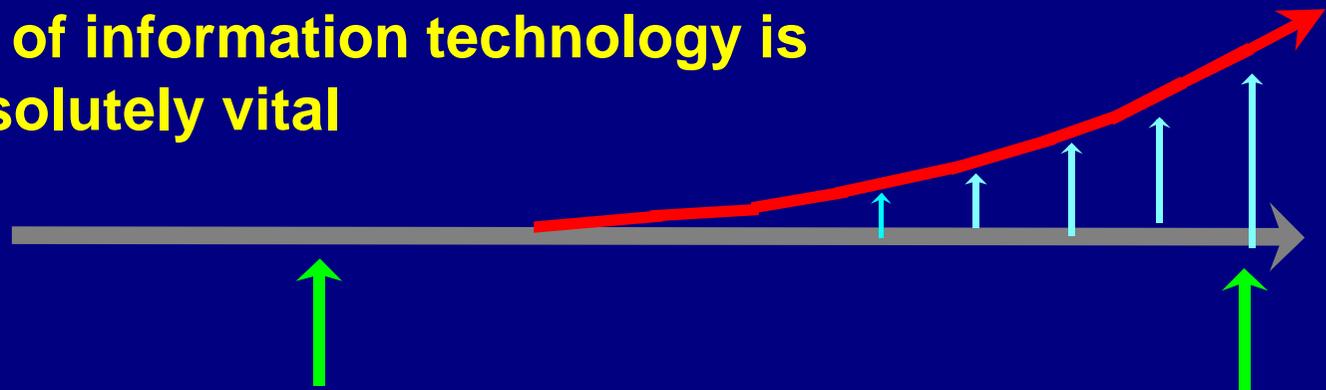
Defined

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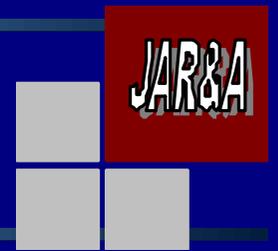
1. If you don't know where you are going, any road will get you there!
2. Strategic alignment is about defining where the business wants to go and then aligning all activities to support the business to reach that destination



**Strategic alignment of information technology is absolutely vital**



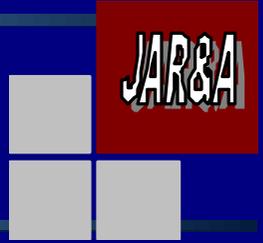
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# ESSENTIAL BUSINESS KNOWLEDGE

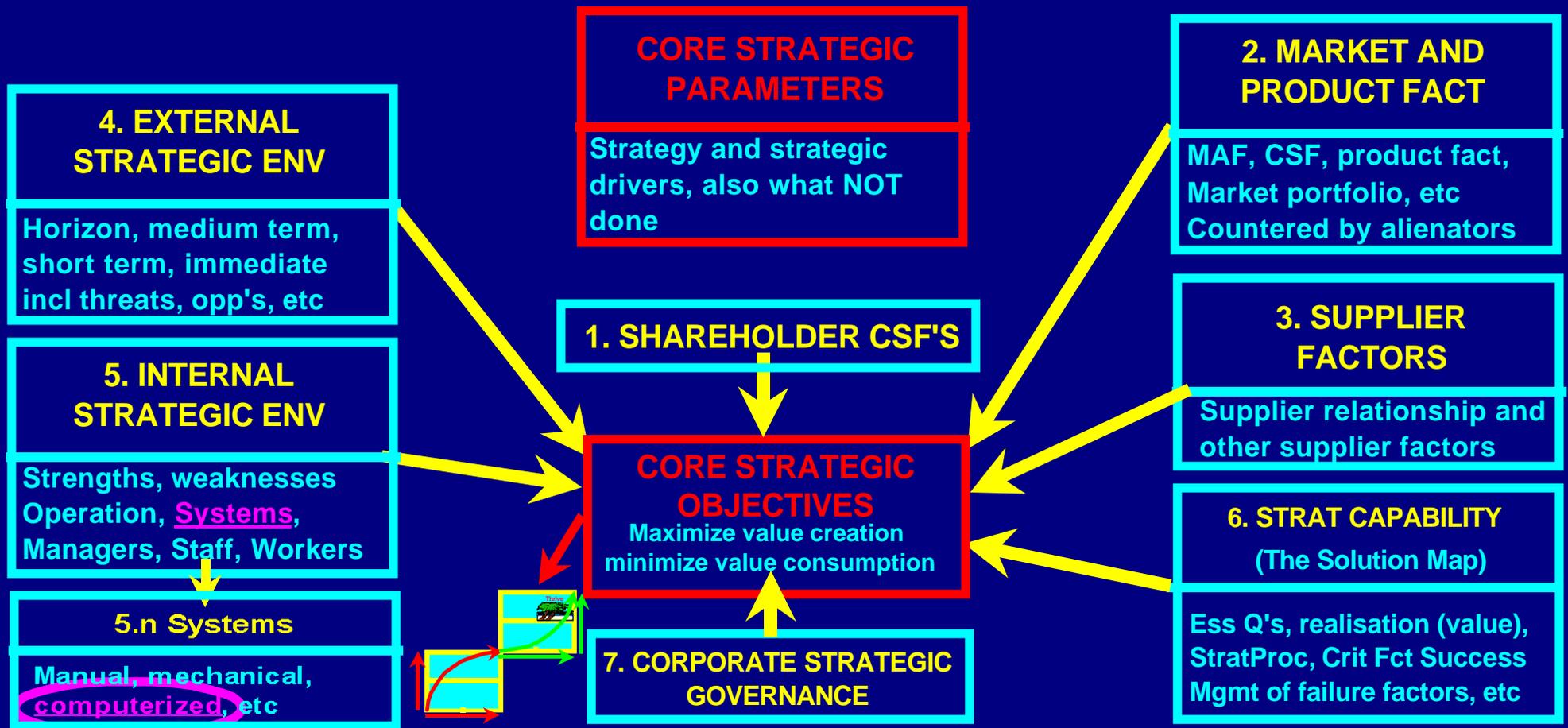
## ESSENTIAL COMPONENTS OF STRATEGY



1. Core economic driver
2. Core human resource driver
3. Core market differentiator / value proposition / sales or marketing method
4. Core customer / market / user
5. Core asset / product / natural resource / size / growth
6. Core technology / capability / know-how / distribution
7. Essential reason the organisation exists (generally NOT profit)
8. Core values
9. Other

# STRATEGIC MAPPING

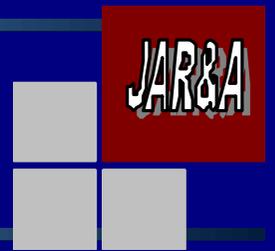
Mapping and Managing the Strategic Environment and Objectives



Technology is a small part of the entire cognitive picture of why an organization exists and how it thrives

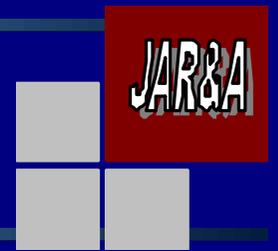


# THE ESSENCE OF STRATEGIC CAPABILITY IN THE I.T. CONTEXT



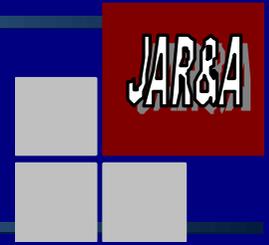
1. Clear, concise definition of why the organization exists and how it thrives
2. Concise prioritized definition of the core strategic drivers
3. Concise prioritized definition of how the organization interacts with shareholders / owners, customers / markets, suppliers, external and internal environment
4. Effective management of projects to deliver the expected business value outcome on time and on budget
5. Effective management of factors causing failure
6. Executive custody -- strategic governance -- ensure doing the right things
7. Overall strategic efficiency -- doing right things? -- now do them well

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3. *"19 out of 20 E.R.P. implementations do not deliver "what was promised"*  
McLeod
4. Ninety percent of strategic plans fail
5. Seventy percent of B.P.R. investments fail
6. *"Most organisations are not making better decisions than they did five years ago."*  
Gartner



# ESSENTIAL TECHNOLOGY KNOWLEDGE

## I.T. KNOWLEDGE FOR INFORMED DECISIONS

The logo for JAR&A, featuring the letters 'JAR&A' in a stylized, bold font with a red background.

1. Computers Are Adding Machines (On / Off Switches)
2. Databases Are Warehouses
3. Automation Software Products Are Like Machines
4. Networks Are A Postal Service
5. Graphics is A Presentation Or Navigation Aid - Versus Text
6. Validation Codes Are the Primary Way Computers Know About Your Business
7. People and Business Strategy Determine the Value Delivered

# ESSENTIAL BUSINESS KNOWLEDGE

## BUSINESS KNOWLEDGE FOR INFORMED I.T. DECISIONS

The logo for JAR&A, featuring the letters 'JAR&A' in a stylized, white, outlined font on a red rectangular background.

1. Every organisation has a fundamental reason it exists -- strategy
2. Money is only a medium of exchange and measurement of perceived value by people
3. Only humans create, destroy and determine value
4. Ways of being create or destroy value
5. Ways of doing create or destroy value
6. Service or supply to others creates exchangeable value
7. The rest -- technology, assets, etc

# ESSENTIAL TECHNOLOGY KNOWLEDGE

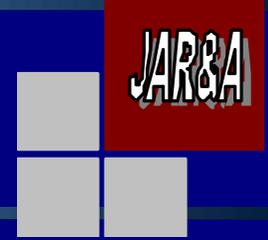
## I.T. INVESTMENT DRIVERS

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1. Fashion / corporate peer pressure / fear / vendor driven obsolete
2. Truly obsolete / worn out
3. Badly maintained / not sustainable
4. Stabilization / consolidation of existing infrastructure and capability
5. Increased capacity to support growth
6. Productivity / efficiency opportunities -- do more with what you have
7. Strategic efficiency and innovation



# CAUSES OF INFORMATION TECHNOLOGY INVESTMENT FAILURE

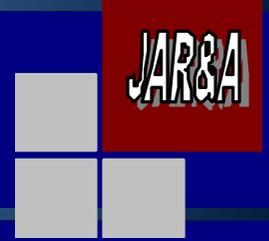


- 65%
1. Information technology mythology (30%) ← Manage at ALL levels Reality checks
  2. Lack of executive custody and inappropriate policies (20%)
  3. Lack of strategic alignment (15%)
  4. Lack of an engineering approach (12%)
  5. Poor data engineering (10%)
  6. People / soft issues (8%)
  7. Technology issues (5%)





# INFORMATION TECHNOLOGY PITFALLS



1. Excessive unqualified enthusiasm
2. Fashion
3. Business ignorance by technologists
4. Technology ignorance by business leaders
5. Abdication of responsibility by business
6. Sales driven I.T. service providers
7. Lack of ethics and accountability

# WHAT IS SABOTAGE?

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- A conscious or unconscious response to unwanted or threatening change that results in actions that hinder, delay, obstruct, damage or wreck a change initiative
- Coming late, leaving early, "too busy" ...
- "Project hero" -- "my way so you clone me no matter how inefficient for the computer system"
- Fear of unemployment, pride, holding on to personal investment in the legacy, etc
- Frequently difficult to identify
- Requires clear leadership and constructive actions and psychology

Natural and almost inevitable at some level unless effectively managed

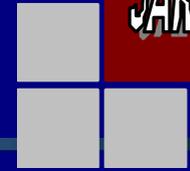
**I.T. IS ALL ABOUT PEOPLE!**



# MANAGING FOR SUCCESS

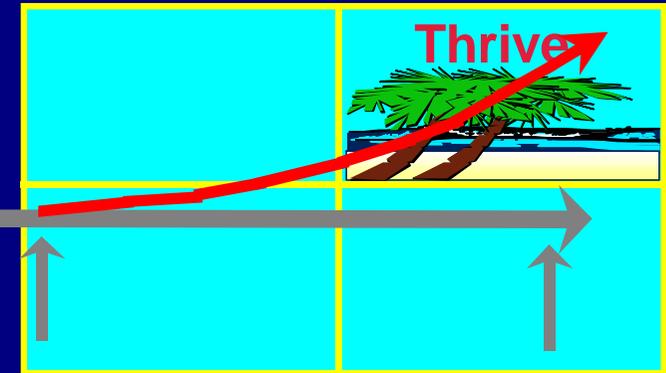
## MANAGEMENT COMPONENTS (% FOR SUCCESS)

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1. **25% -- Executive Custody and Policy**
2. **18% -- Strategic Architecture**
3. **16%-- Strategic Alignment**
4. 14% -- Business Integration and Optimization
5. 12% -- Project Schedule, Budget and Resource Management
6. 10% -- Data Engineering and Information Management
7. 5%-- Technology Components

59%



The first three require quality EXECUTIVE decisions and limited time

# WHERE IN THE WORLD IS I.T. GOING? WHERE SHOULD YOU FOCUS YOUR ATTENTION?

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1. Dramatic failures, litigation and legislation (5%)
2. Software company shake outs (6%)
3. Long software product life spans (7%)
4. Less is more (10%)
5. Executives take custody (20%)
6. Emphasis shifts to decision support (22%)
7. Corporate level solution innovation (30%)



**Radical redefinition  
of the industry**



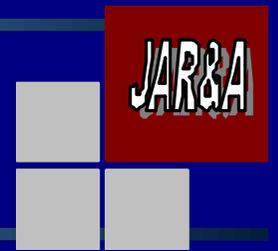
**Leading edge  
technology mothballed**



**Run of the mill  
technology worlds most  
successful aircraft**

**A challenging and exciting place to be**

# ENGAGING THE BOARD IN STRATEGIC I.T. DECISIONS -- AGENDA



1. I.T. Governance issues -- failure is rife and Board liability is a reality
2. Strategy -- what causes your organization to thrive?
3. Strategic capability -- delivery -- causing the organization to thrive
4. Essential I.T. knowledge for Board members -- what is I.T. -- really?
5. I.T. the harshest judge of governance -- why I.T. will highlight governance issues
6. Executive custody -- how will you know that you have custody of your I.T.?
7. I.T. strategic alignment case studies -- how I.T. decisions can sabotage business

# THE HARSHTEST JUDGE OF GOVERNANCE

The logo for JAR&A, featuring the letters 'JAR&A' in a stylized, white, outlined font on a red rectangular background.

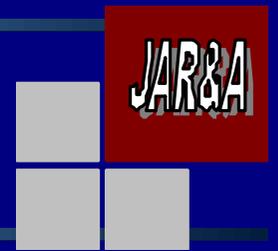
1. Bad I.T. decisions can wreck your business
2. I.T. Strategy is a BUSINESS responsibility
3. I.T. Strategy is NOT about technology policy it is about business initiative
4. Definition of strategy should be a concise, high intensity, business executive activity
5. I.T. is a collection of tools and tools should work all the time
6. I.T. will harshly judge executives who abdicate responsibility
7. There is a huge opportunity for creative thinking to define concise ways for I.T. to add REAL VALUE in your organization!

# THE HARSHTEST JUDGE OF GOVERNANCE

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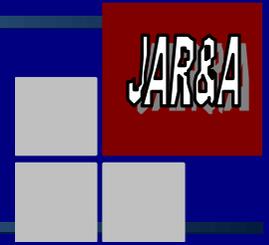
1. Computers are dumb and abstract -- they ONLY do what a human being tells them
2. They will never exceed the abstract, intuitive (gut) decision making capability and leadership of a group of human beings who collectively have centuries of knowledge and experience i.e. the board
3. If you get an I.T. project wrong it will simply NOT deliver -- no matter how much you talk it up -- engineer against failure

# ENGAGING THE BOARD IN STRATEGIC I.T. DECISIONS -- AGENDA



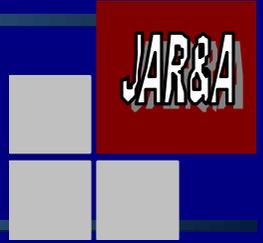
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# EXECUTIVE INVOLVEMENT



How involved should executive management  
be in I.T. Strategy?

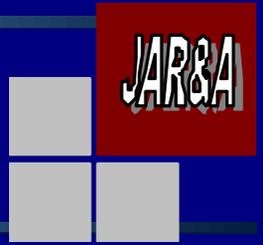
# EXECUTIVE INVOLVEMENT



**How involved should executive management  
be in I.T. Strategy?**

**How involved should executive management  
be in business strategy?**

# EXECUTIVE INVOLVEMENT



**How involved should executive management  
be in I.T. Strategy?**

**How involved should executive management  
be in business strategy?**

**Executive Custody is an attitude, a state of mind, NOT a  
large amount of work**

# COMPONENTS OF ACHIEVING EXECUTIVE CUSTODY

JAR&A

1. Leadership -- 50%
2. Engagement -- 30%
3. Prove it works -- 5%
4. Make it work -- 15%

*I.T. IS ALL ABOUT  
PEOPLE!*

Executive Custody is an attitude, a state of mind, NOT a large amount of work



# CRITICAL EXECUTIVE QUESTIONS

JAR&A



Questions Every Executive Should Answer Before Saying "YES"

1. Do I have a clear definition of the value proposition that I own now and can communicate to the rest of the organization?
2. Do I have a clear definition of how the outcome will be accomplished?
3. Is there real acceptance of the real effort and investment required?
4. Is there real business commitment?
5. Am I (CEO / sponsoring executive) willing to be held accountable?
6. Am I willing and able to hold the responsible executive / manager accountable?
7. Am I willing and able to hold the service providers and vendors accountable?



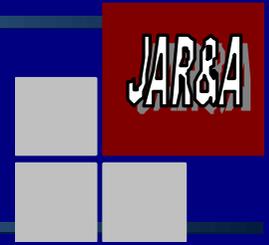
# WHAT IS EXCELLENCE?

## THE CRITICAL COMPONENTS OF CORPORATE EXCELLENCE

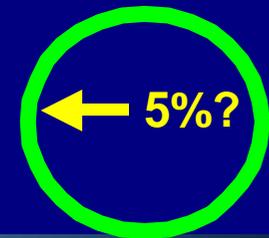
1. Leadership (Strategic and Operational) -- 28%
2. Governance and Custody -- 20%
3. Strategic Definition -- 18%
4. Strategic Capability -- 16%
5. Standards and Policies -- 8%
6. Systems, Methods, Tools, etc -- 6%
7. Continuous Improvement -- 4%

*I.T. IS ALL ABOUT  
PEOPLE!*

# CRITICAL FOCUS AREAS FOR EXECUTIVE CUSTODY

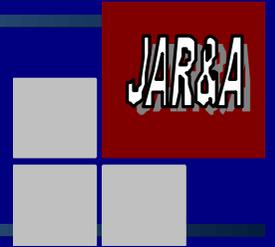


1. Creating and delivering value to customers
2. Differentiating from competitors
3. Motivating and leading personnel
4. Meeting and exceeding owner expectations
5. Building exceptional partnerships with suppliers
6. Integrating and optimizing the business
7. Day to day operational efficiency and effectiveness



# MANAGING FOR SUCCESS

## CRITICAL COMPONENTS OF EXECUTIVE CUSTODY



1. CEO leadership, clarity, purposefulness, empowerment of subordinates, etc
2. Availability, effectiveness and efficiency of executives
3. Executive team role clarity, commitment, team work, constancy of purpose, etc
4. Business optimization
5. Strategic solution architecture
6. Technology and technical capability
7. Other aspects required to achieve executive custody = ownership "plus"

# EXECUTIVE CUSTODY

## Role of executives in Strategic Leadership



*A key responsibility of executives is innovation that will generate high bottom line value outcomes*

*that is Strategic outcomes*

*Executives therefore define the role of information technology in creating sustainable competitive advantage*

# HOW TO STRATEGICALLY POSITION I.T.

## THE ESSENCE OF I.T. INVESTMENT SUCCESS

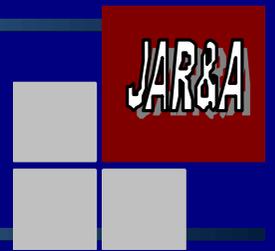


JAR&A

1. Determine why your organization exists and how it thrives -- one sentence -- and then core drivers and strategic map
2. Determine where I.T. is getting in the way
3. Modify accordingly
4. Determine where I.T. can be used by BUSINESS PEOPLE as a tool to assist the business in its endeavours to thrive
5. Procure or modify accordingly
6. Communicate a clear intention -- leadership
7. Make it work -- this is a business action

Clear, concise, intuitive, cognitive thinking, communication and action by business executives -- the rest is grind by the business including the I.T. team

# ENGAGING THE BOARD IN STRATEGIC I.T. DECISIONS -- AGENDA



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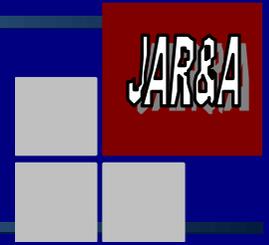
# ENGAGING THE BOARD IN STRATEGIC I.T. DECISIONS



## CASE STUDIES

- 1. Fertilizer manufacture to custom recipe on credit coupled with a “no customization” E.R.P. policy**
- 2. Short turnaround service promise coupled with manual printout and entry in the warehouse**
- 3. Service beyond the call of duty coupled to a consultant who says “that is an unfair question” (about what is the essential driver of the business)**

# ENGAGING THE BOARD IN STRATEGIC I.T. DECISIONS



## CASE STUDIES

All these failures could have been prevented by any executive with a clear understanding of the strategy of the business noticing that there was something that did not fit and acting appropriately

### I.T. IS JUST LIKE ANY OTHER PART OF THE BUSINESS

Manage strategically -- what is the essence of why the business exists and how it thrives?

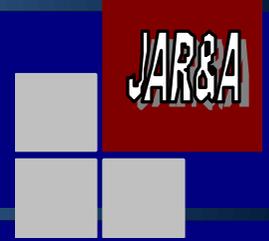
1. What are the (three) most important insights you gained from this lecture?
2. What are the (three) most important actions you propose arising from this lecture?
3. What is your single most significant long term goal arising from this lecture?

**Write it down**

If you gain an insight into something new and do not take some action within 48 hours the chances are you never will

Justin Cohen citing Bill Gates

# ACKNOWLEDGEMENTS AND DEDICATION



I would like to acknowledge  
the contributions and inputs of all my clients, associates, staff and families  
without whom the work on which this presentation is based would not have  
been possible

Particularly my father and mother, Angus and Thelma, whose love and support  
for all my endeavours made it possible for me to gain this knowledge.

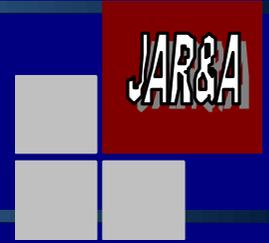
I also acknowledge Fiona and Ingrid for all they contributed  
and Sandra and Helene for their unreserved love and giving

This presentation is dedicated to  
The glory of the Eternal Creator  
who is the source and reason for our existence

*Psalm 136:5 "To Him who by wisdom made the heavens, for His  
mercy endures forever;"*



# ENGAGING THE BOARD IN STRATEGIC I.T. DECISIONS



## QUESTIONS ?

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