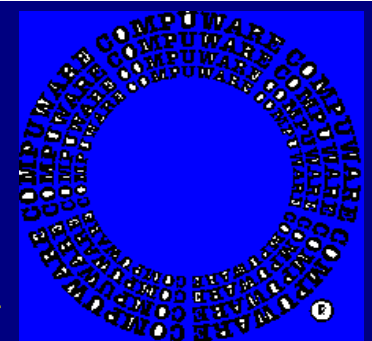
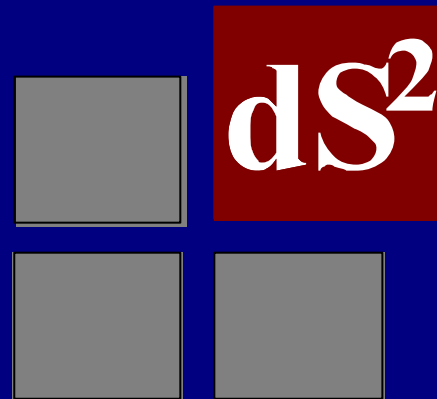


**WHY 70% OF CORPORATIONS
ARE DISSATISFIED WITH I.T.**



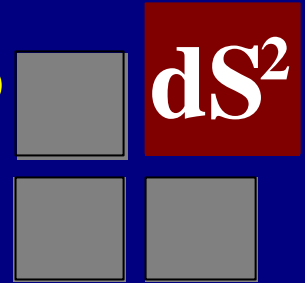
**HOW TO AVOID DISSATISFACTION
IN YOUR ORGANIZATION**



TURNING VISION INTO COMPETITIVE ADVANTAGE

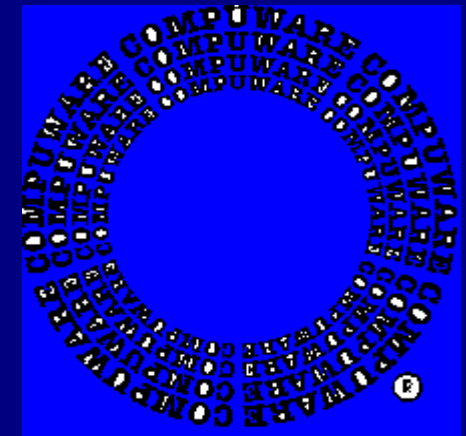
**Dr James A Robertson PrEng
Managing Director: Differentiated Strategic Solutions (Pty) Ltd**

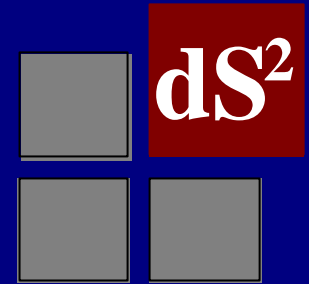
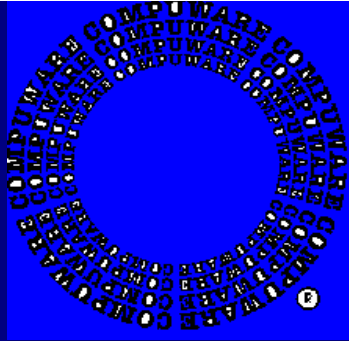
WHY 70% OF CORPORATIONS ARE DISSATISFIED AND HOW TO AVOID DISSATISFACTION



- **Introduction**
- **Why corporations are dissatisfied : Business Issues**
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- **How to respond to the challenge**
- **Conclusion**

COMPUWARE EXECUTIVE FORUM, MUNICH, OCTOBER 1995



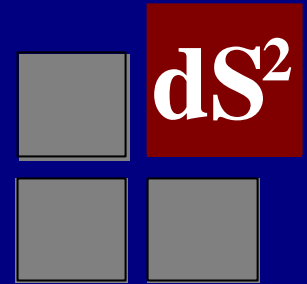


WHAT IS THE BUSINESS

CONTEXT OF I.T.?



IN SEARCH OF EXCELLENCE (PETERS)

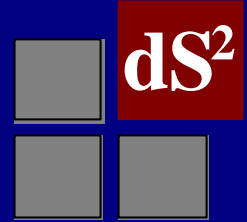


43 "EXCELLENT" COMPANIES

HOW MANY ARE LEFT ?



IN SEARCH OF EXCELLENCE (PETERS)



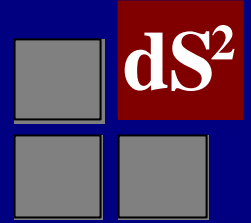
OF THE 43 "EXCELLENT" COMPANIES

ONLY 14 LEFT AFTER 5 YEARS

ONLY 6 LEFT AFTER 8 YEARS

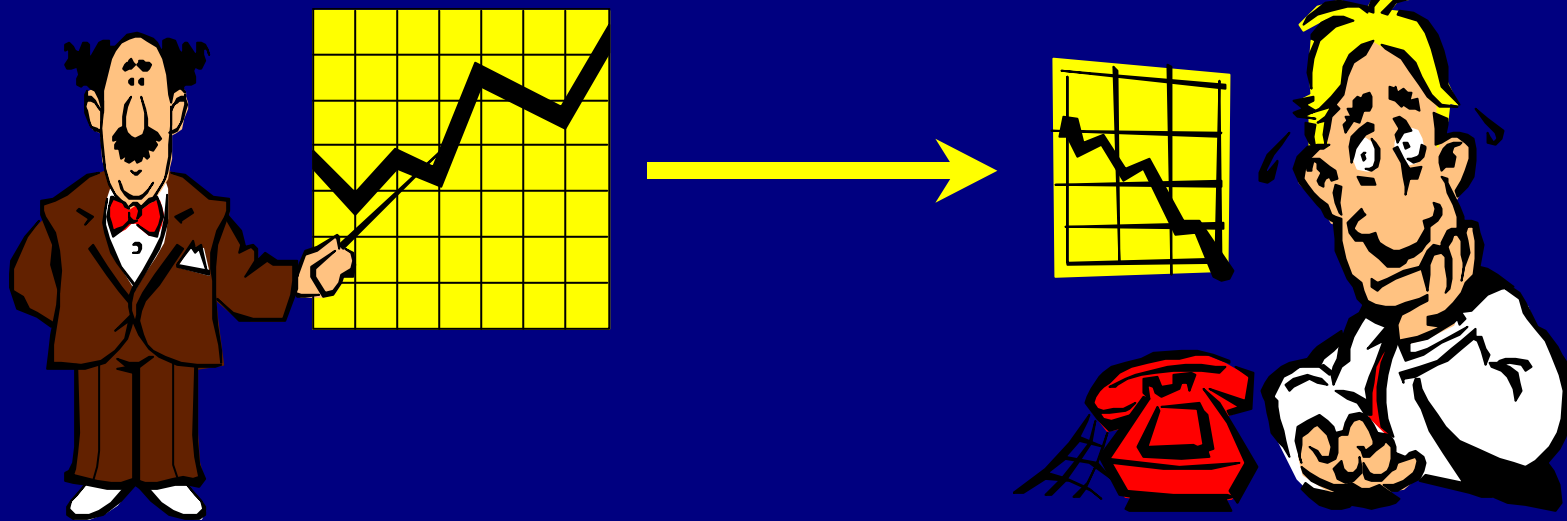


(Pascale R.T. "Managing On The Edge")



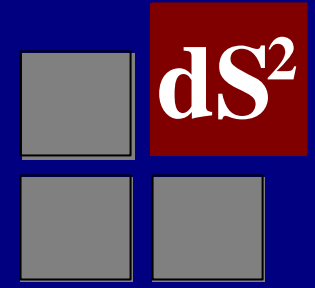
OF 11 ANNUAL AWARDS AS TOP BRITISH COMPANIES

4 HAVE COLLAPSED !!



McDonald 1994

WHY STRATEGY IS IMPORTANT



EXCEPTIONALLY
HIGH PROFITS TODAY

APPEAR TO BE CORRELATED WITH
LOW OR NO PROFITS TOMORROW



Malcolm McDonald (1994)

I.T. IS NOT MEETING EXPECTATIONS IN MORE THAN 70% OF SA COMPANIES

- **MBA Program**
- **150 Students**
- **Two Groups**
- **Average age 40**
- **Middle to Senior Management**

Survey by Dr James Robertson : GIMT, July / August 1994



MORE THAN

70%



OF MAJOR COMPANIES
ARE DISATISFIED WITH
THEIR I.T. INVESTMENT



WHY?



THIS PRESENTATION BRIEFLY OUTLINES WHAT WE BELIEVE ARE MOST OF THE CAUSES AND BY IMPLICATION THE SOLUTIONS

MORE THAN

70%

OF MAJOR COMPANIES
ARE DISSATISFIED WITH

THEIR B.P.R. INVESTMENT

WHY?



INTRODUCTION : ECONOMIC TRENDS

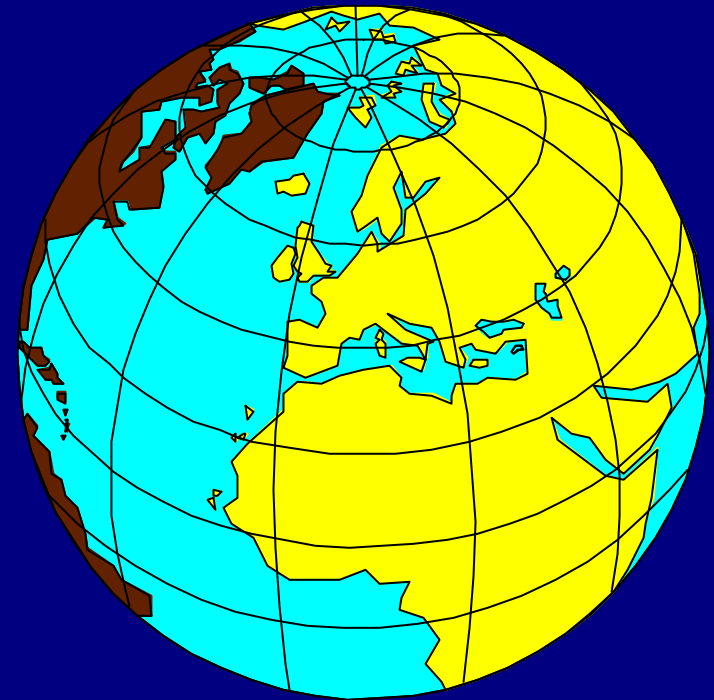
- Increased Competition
- Flattening Organization Structures
- Globalisation
- Industries in Decline
- Business Environment Changing
- Shortening Product Life Cycles
- Sudden opportunities

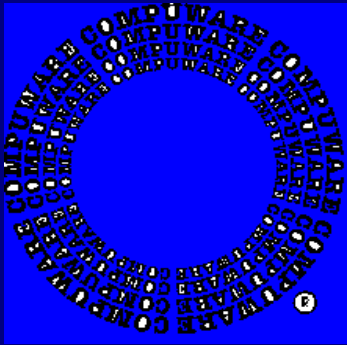


dS^2

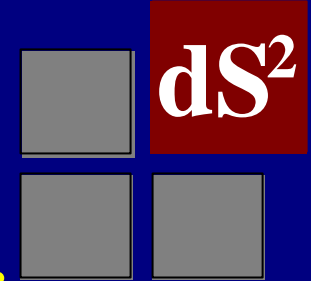
THE CHALLENGE OF THE 90'S

*Getting the right
information, to the right
people, at the right time
and in the right place
in order to make the
right decision!*





ECONOMIC TRENDS

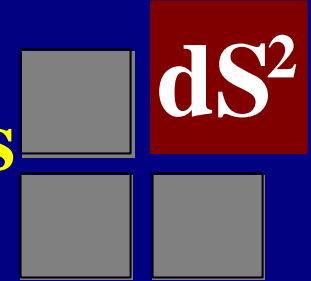


HISTORICAL DIFFERENTIATORS:

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

REQUIRES INFORMATION TECHNOLOGY

THE KEY DIFFERENTIATORS IN THE 90's

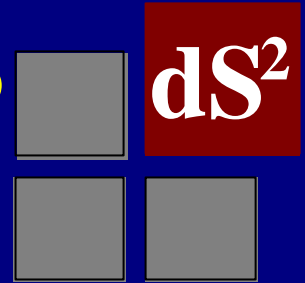


- Marketing Strategy
- Personnel
- Effective Management Decision Making

**World Competitiveness Report
McDonald & Others**

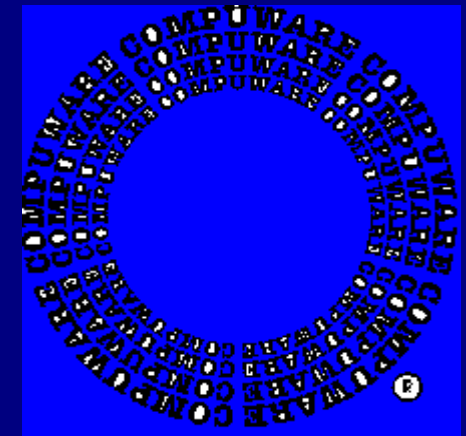
**THE RIGHT STRATEGIES AND TACTICS
(Requires Information)**

WHY 70% OF CORPORATIONS ARE DISSATISFIED AND HOW TO AVOID DISSATISFACTION



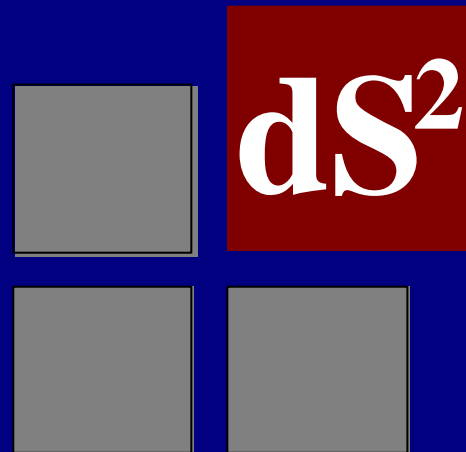
- Introduction
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- **Why corporations are dissatisfied : People Issues**
- **Why corporations are dissatisfied : I.T. Issues**
- **How to respond to the challenge**
- **Conclusion**

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WHY TECHNOLOGY IS NOT MEETING EXPECTATIONS

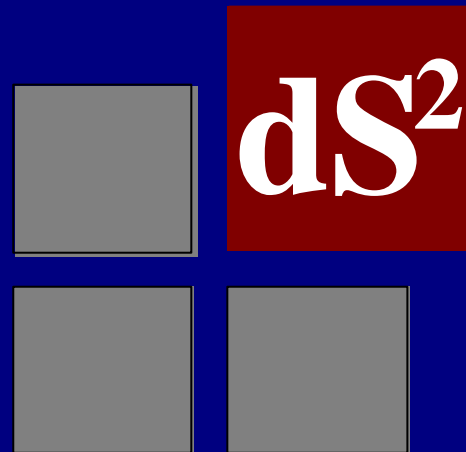
WHAT IS STRATEGY?



Professor Malcolm McDonald
Cranfield School of Management

STRATEGY DEFINED

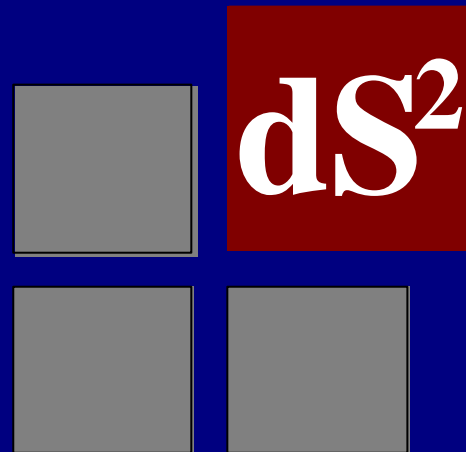
DOING THE RIGHT THINGS



Professor Malcolm McDonald
Cranfield School of Management

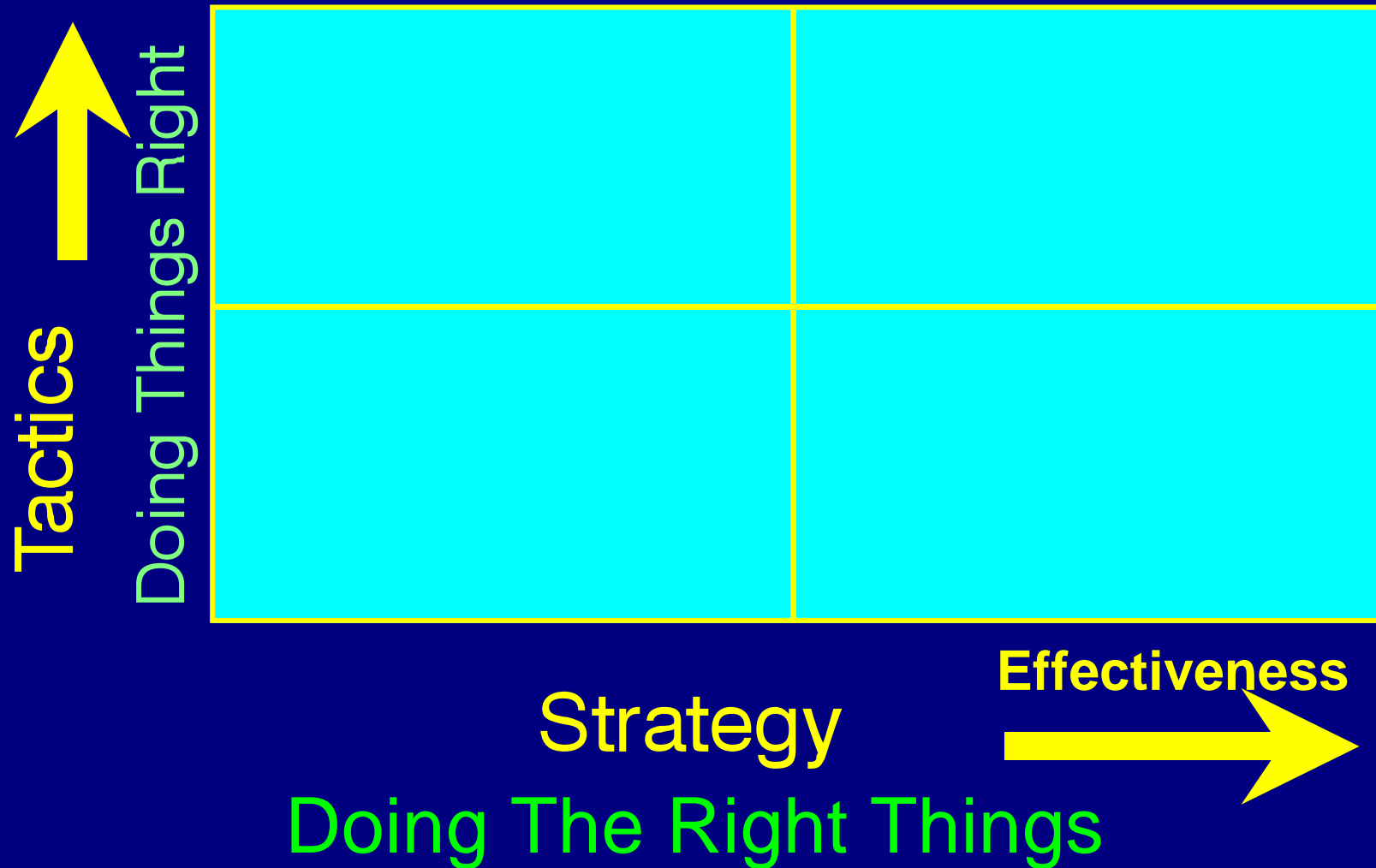
TACTICS DEFINED

DOING THINGS RIGHT



Professor Malcolm McDonald
Cranfield School of Management

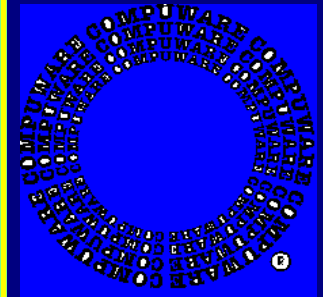
STRATEGY vs TACTICS : A DEFINITION



STRATEGY vs TACTICS : A DEFINITION

dS²

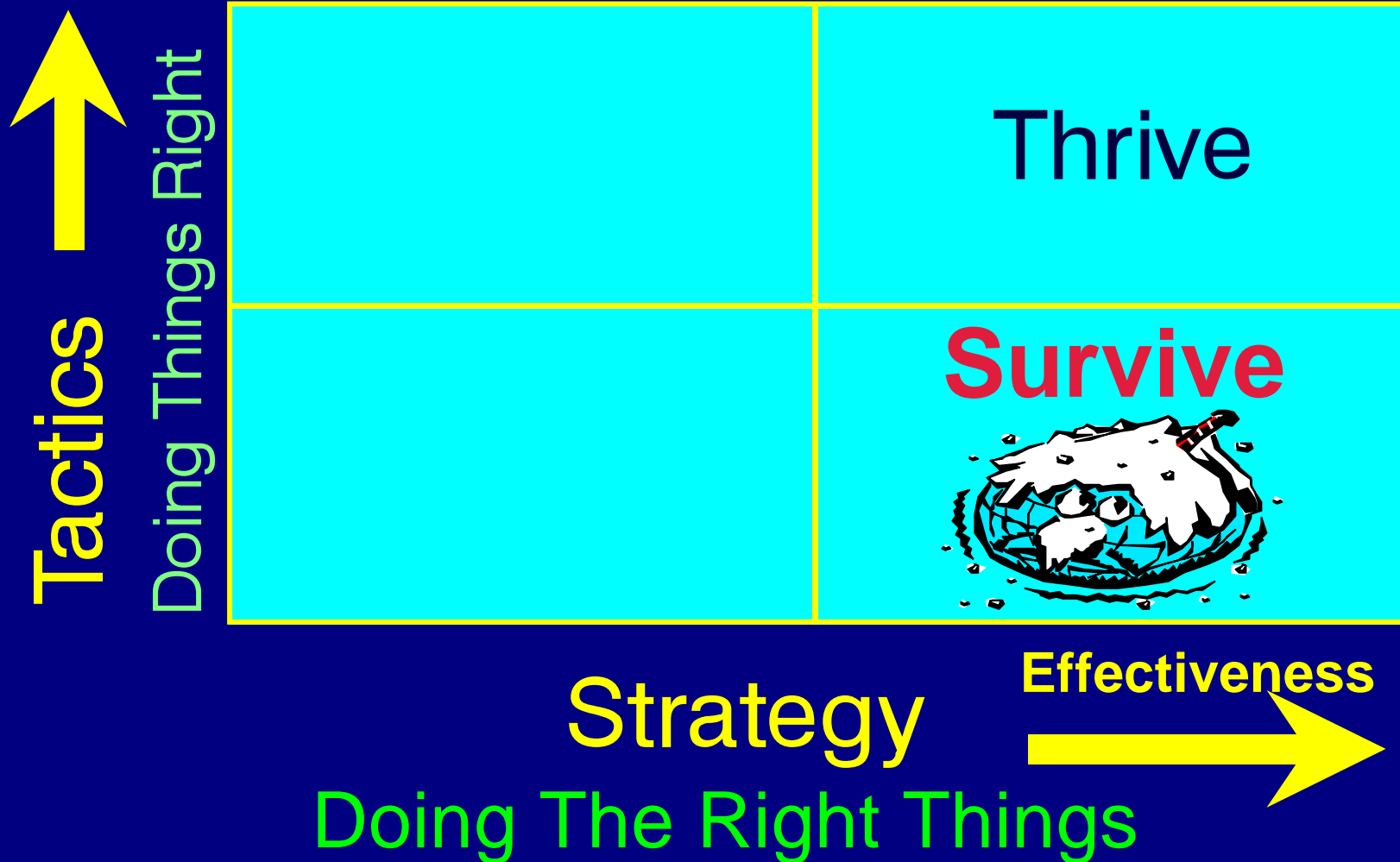
Tactics ↑
Doing Things Right



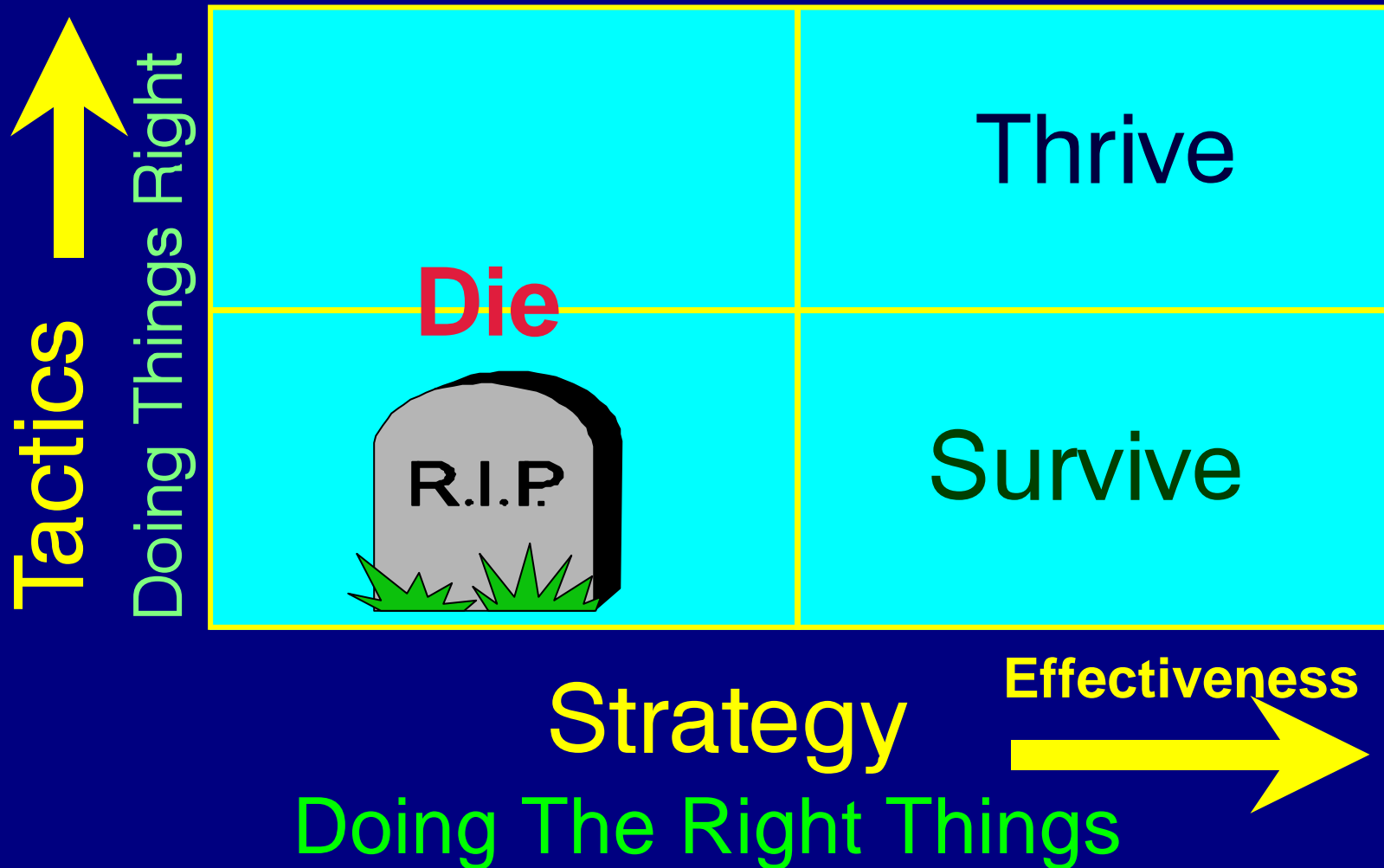
Strategy → Effectiveness

Doing The Right Things

STRATEGY vs TACTICS : A DEFINITION



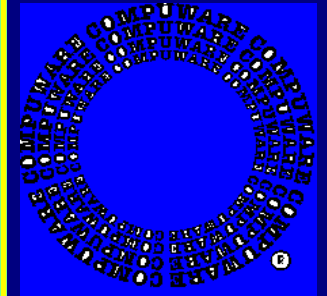
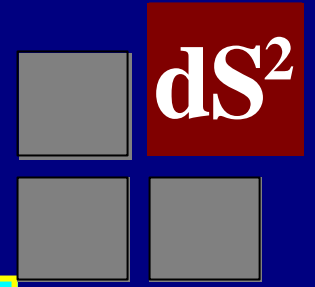
STRATEGY vs TACTICS : A DEFINITION



STRATEGY vs TACTICS : A DEFINITION



**ORGANIZATIONS MUST DO
THE RIGHT THINGS WELL TO
GAIN COMPETITIVE ADVANTAGE WITH I.T.**



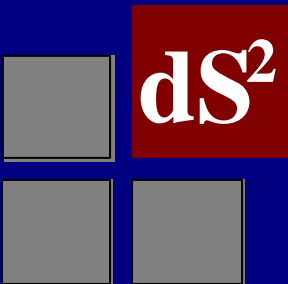
Tactics ↑
Doing Things Right

Die Fast	Thrive
Die Slowly	Survive

Strategy → Effectiveness
Doing The Right Things

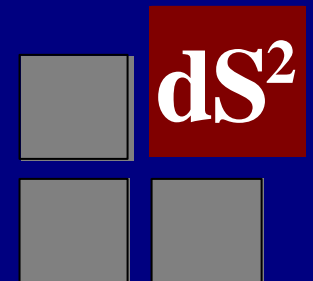
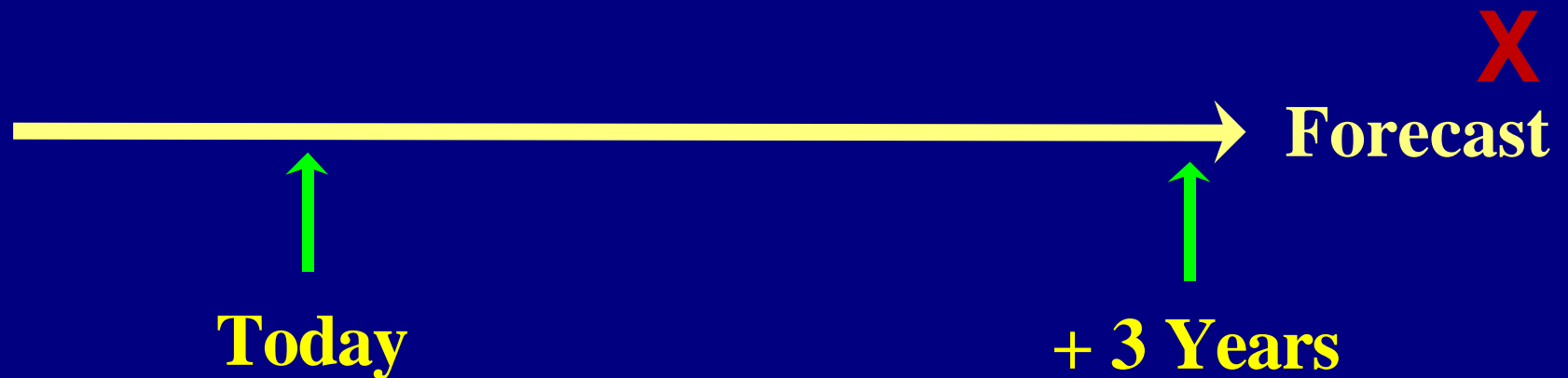
THE TIME DEPENDENCY OF STRATEGY

- DISTINGUISHING BETWEEN :
 - Forecasts
 - Objectives
 - Strategy and Tactics

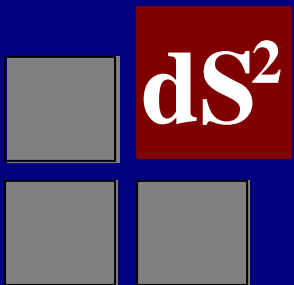
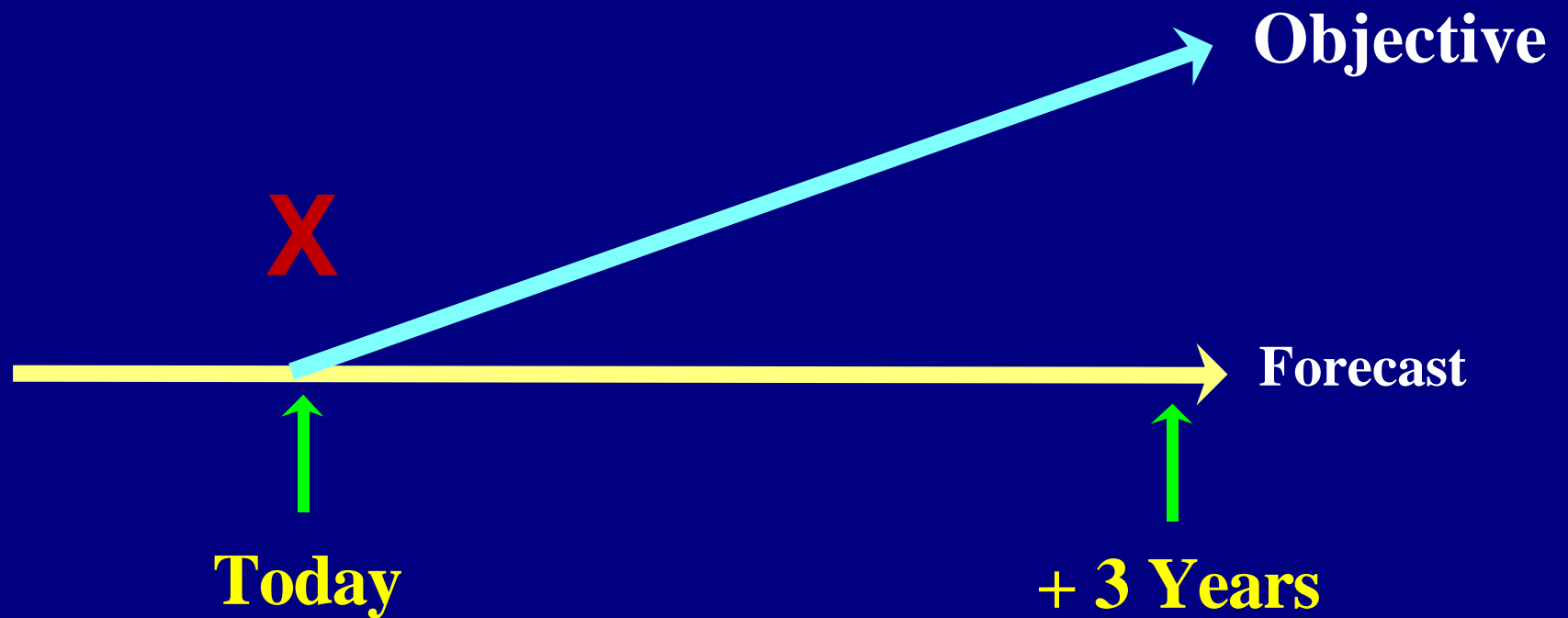


WHAT IS THE STRATEGIC PLANNING PROCESS ?

NOT A FORECAST



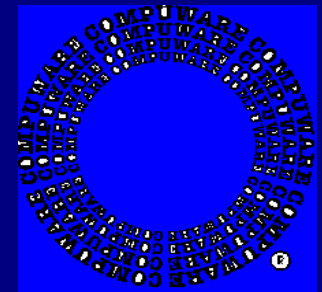
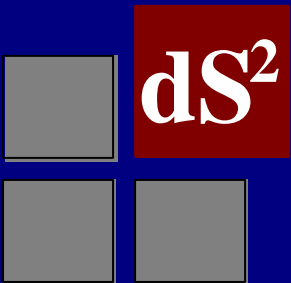
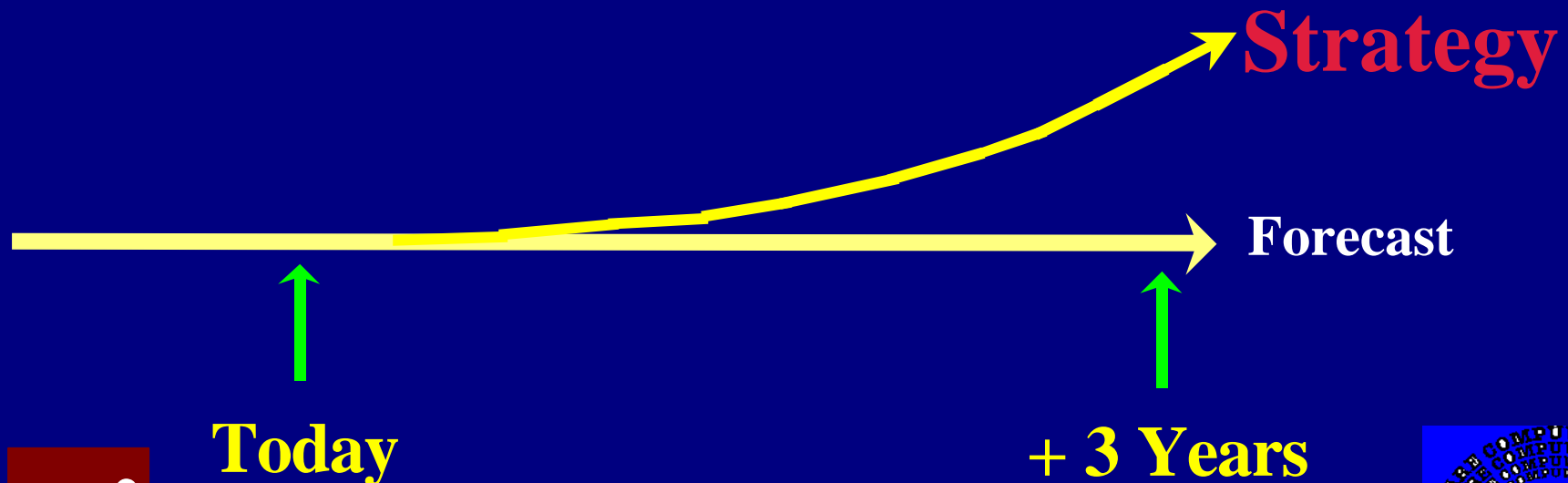
NOT AN OBJECTIVE



THE PATH TO WORLD CLASS CAPABILITY

**YOUR .
. COMPANY**

Objective



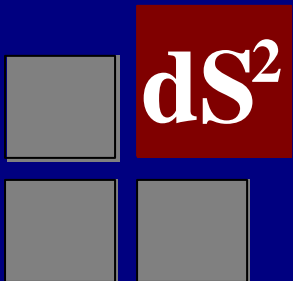
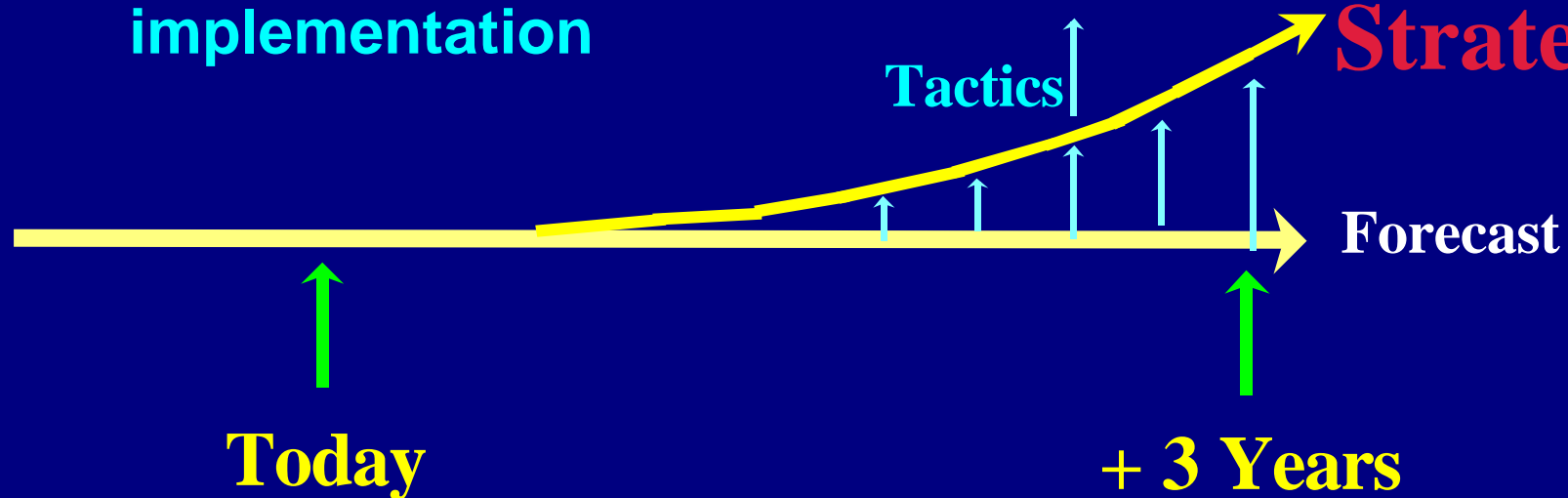
ALL UTILIZATION MUST BE STRATEGICALLY (FUTURE) FOCUSED

Effective I.T. is vital to delivering information for effective decision support and strategy implementation

YOUR . COMPANY

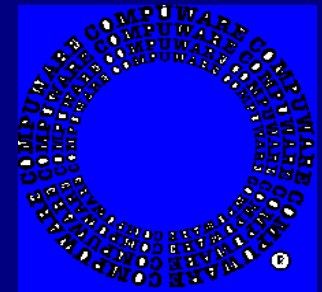
Objective

Strategy



DESIGN YOUR SYSTEMS FOR THE FUTURE

NOT THE PAST



SYSTEM LIFE CYCLE CHARACTERISTICS

dS²

Investment to support strategy must be made relatively early in technology life cycle in order to Create Competitive Advantage



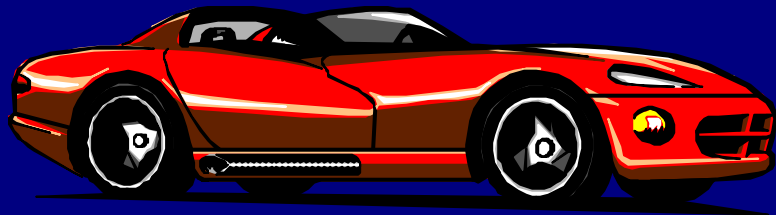
SO YOU WANT IT

CHEAP



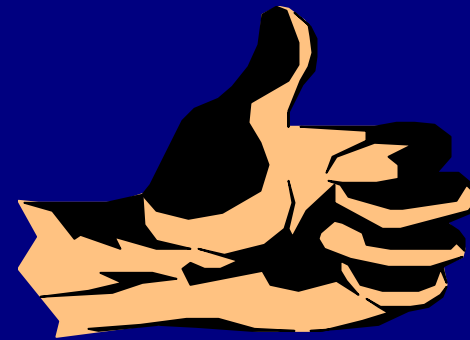
AND

FAST



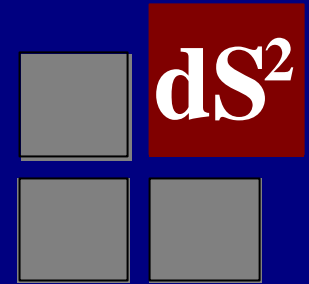
AND

GOOD ?



PICK ANY TWO !

STATUS OF THE SOFTWARE DEVELOPMENT INDUSTRY



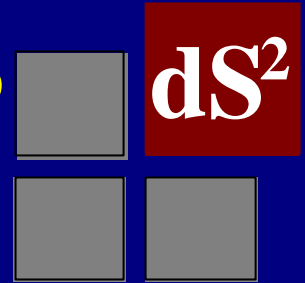
The Technology is Capable of Delivering
the Expected Benefits

BUT

The issues dealt with in this presentation must be
dealt with

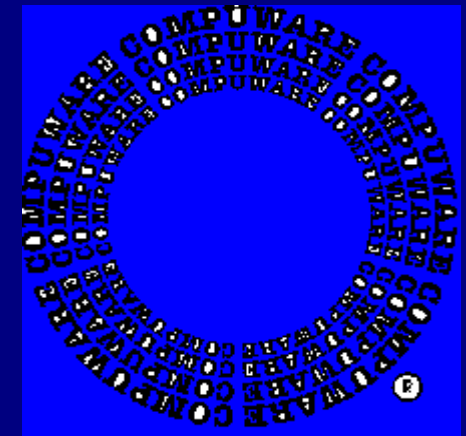
**TECHNOLOGY IS ONLY AN ISSUE
WHEN IT DOES NOT DELIVER**

WHY 70% OF CORPORATIONS ARE DISSATISFIED AND HOW TO AVOID DISSATISFACTION



- Introduction
- Why corporations are dissatisfied : Business Issues
- **Why corporations are dissatisfied : People Issues**
- Why corporations are dissatisfied : I.T. Issues
- How to respond to the challenge
- Conclusion

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INFORMATION TECHNOLOGY EXPERIENCE

Perceived Poor Performance Results From:



- Technology Obsession
- Abstractness
- Ignoring the Human Factor
- Focus on "Productivity"
- Lack of Executive Involvement / Understanding



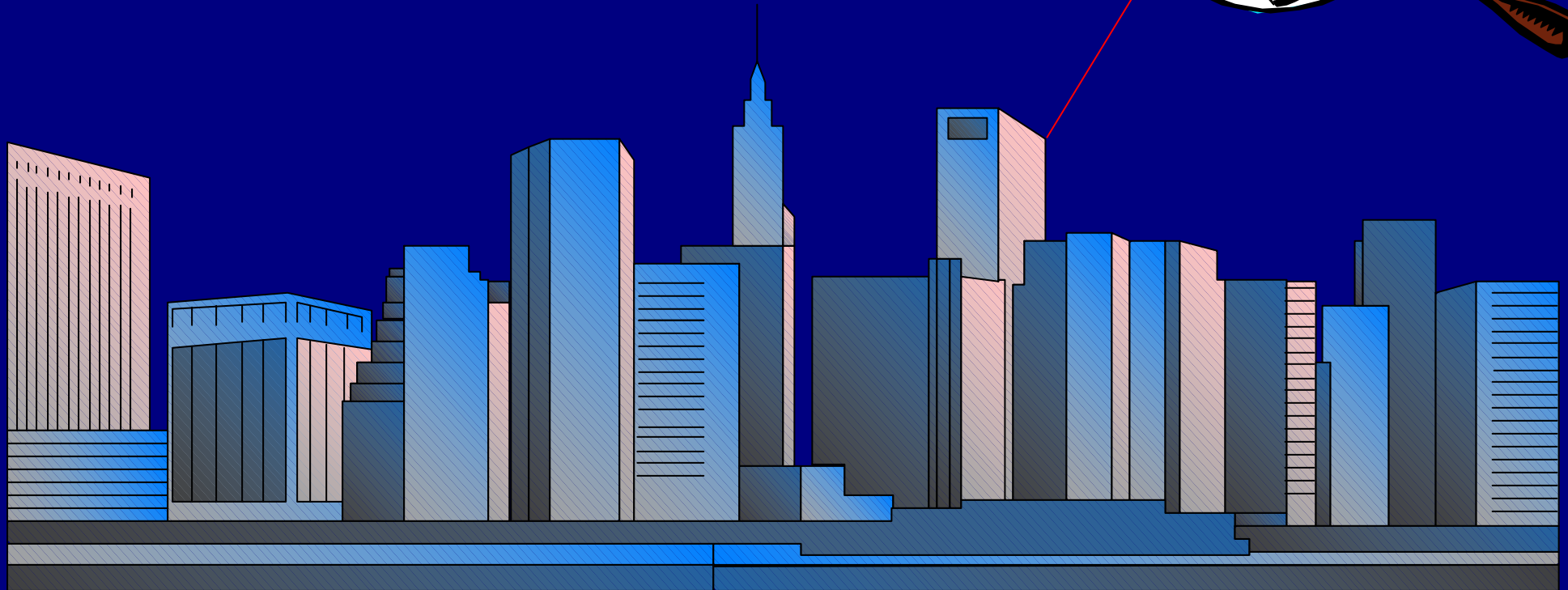
**PEOPLE DETERMINE THE SUCCESS
OF "THE SYSTEM"**



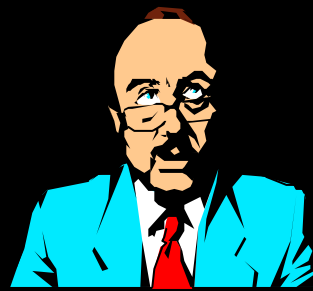
dS²

WHY TECHNOLOGY IS NOT MEETING EXPECTATIONS

ABSTRACTNESS



ABSTRACTNESS



dS²

MEASUREMENT ACTION GENERATOR

Collect
Collate
Summarise
Synthesize
Present

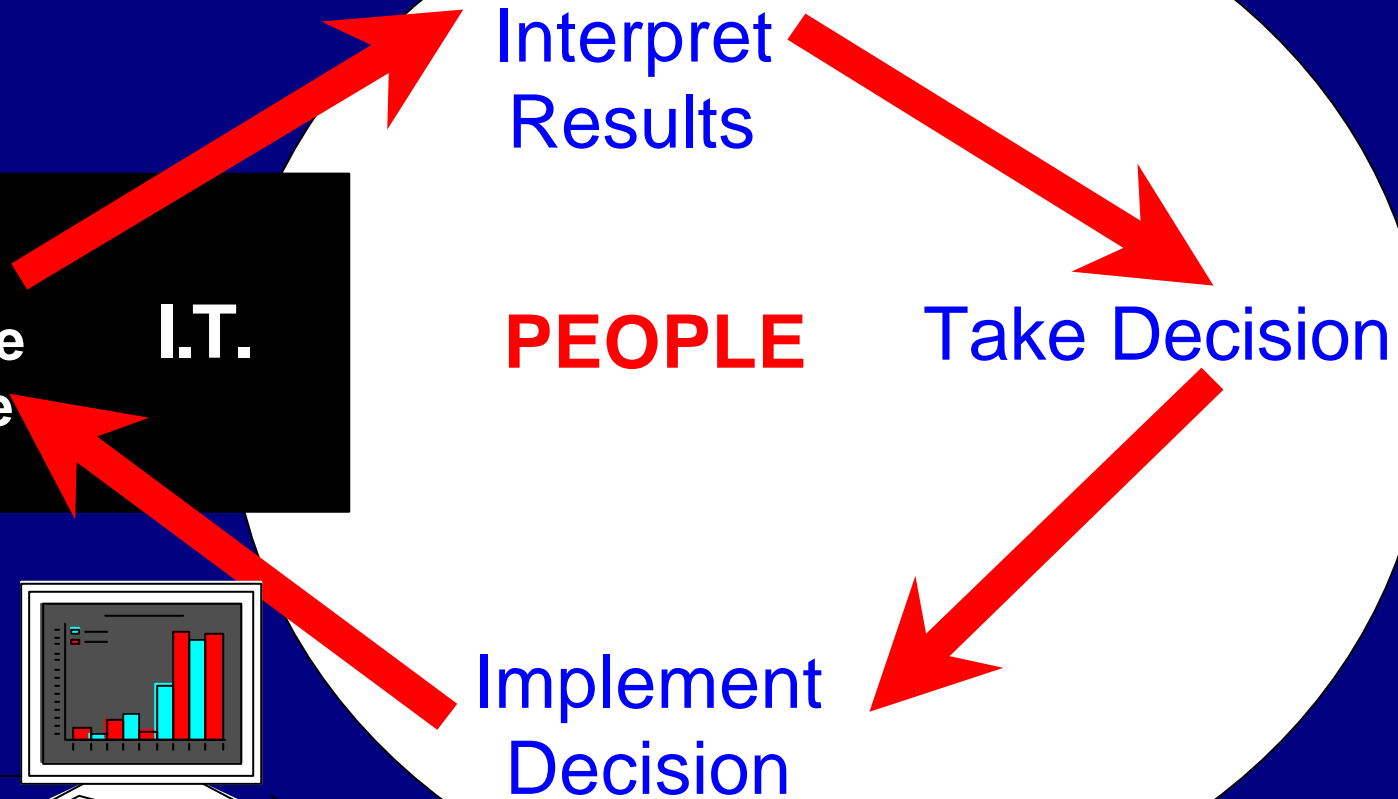
I.T.

Interpret
Results

PEOPLE

Take Decision

Implement
Decision



BUT

**THE DECISION SUPPORT SYSTEM
INFORMATION PYRAMID**

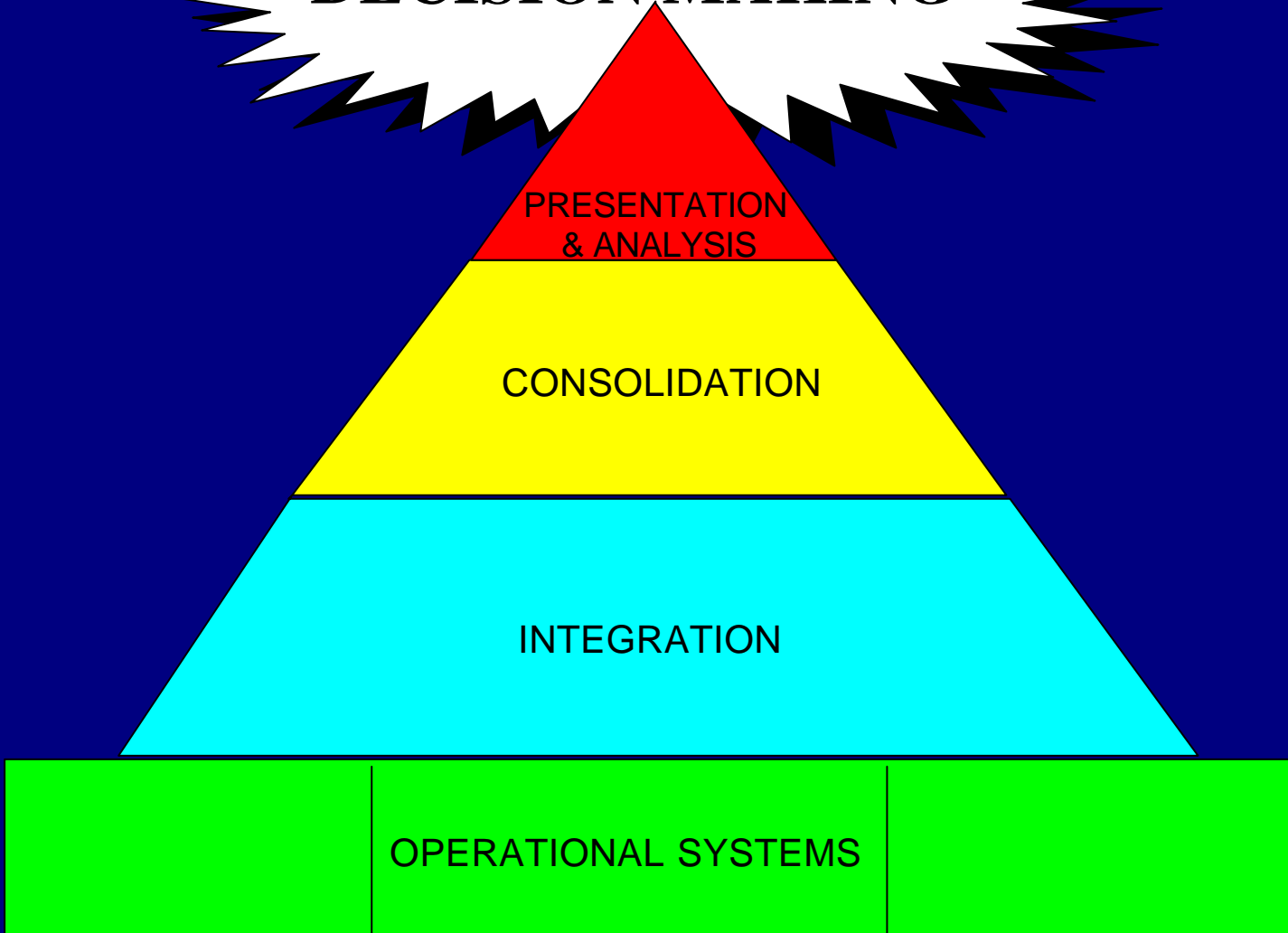
DECISION MAKING

PRESENTATION
& ANALYSIS

CONSOLIDATION

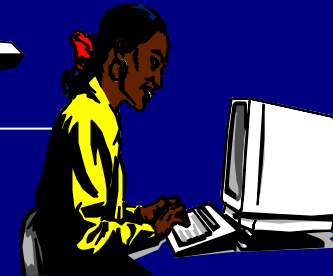
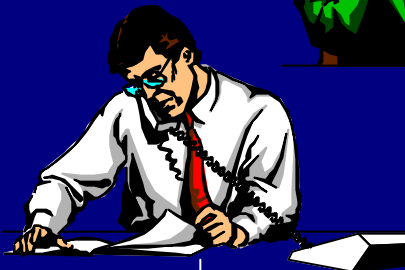
INTEGRATION

OPERATIONAL SYSTEMS



BUSINESS PROCESS REDESIGN / RE-ENGINEERING?

Conventional Organizations:



Collect
Collate
Summarise
Synthesize

Sometimes Interpret
& Act

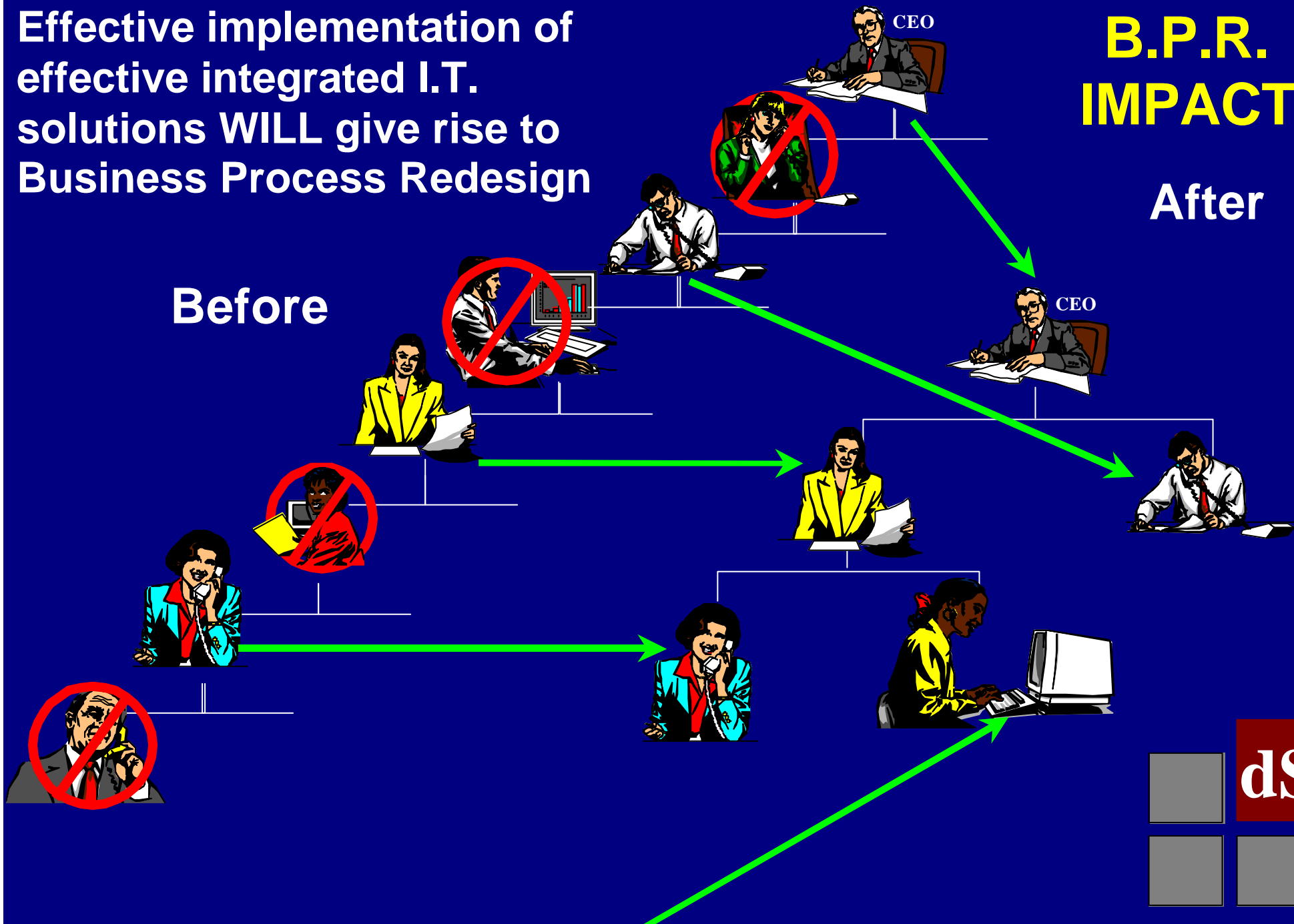
Present Information

Effective implementation of effective integrated I.T. solutions WILL give rise to Business Process Redesign

**B.P.R.
IMPACT**

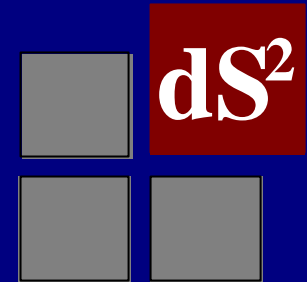
After

Before



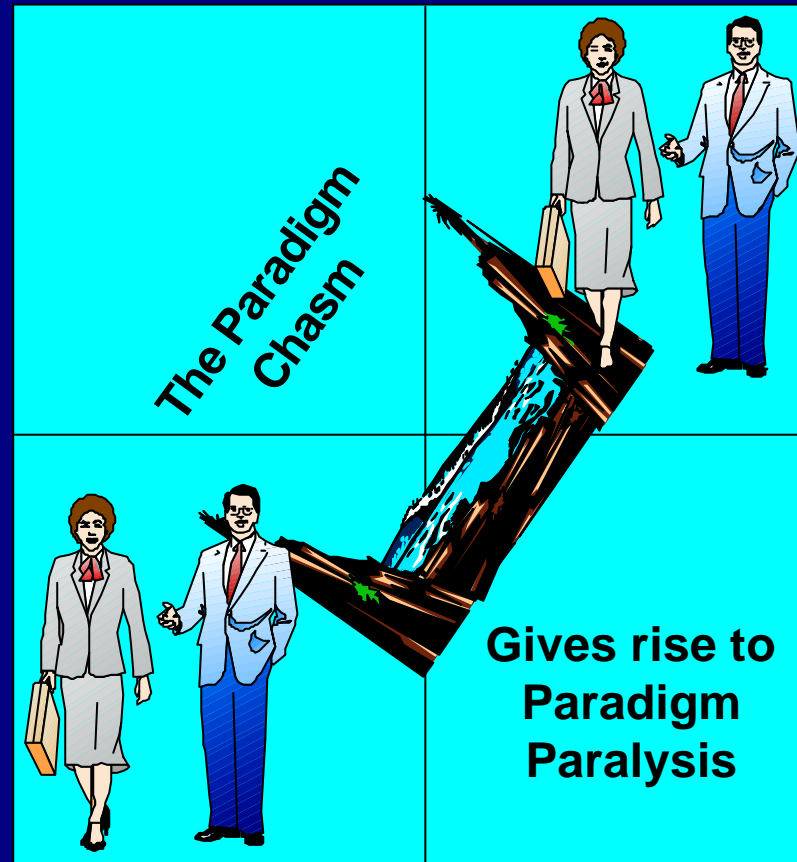
IMPLEMENTATION CONSIDERATIONS

THE PARADIGM FACTOR



RELATIONSHIP

INNOVATOR



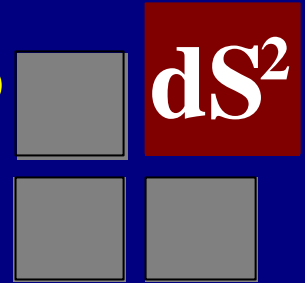
IT Project Champion

Potential users

ADMINISTRATOR

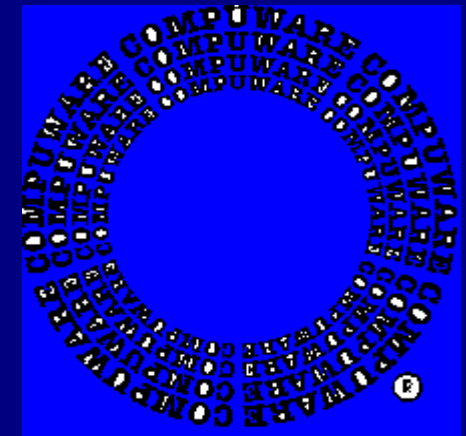
RESULTS

WHY 70% OF CORPORATIONS ARE DISSATISFIED AND HOW TO AVOID DISSATISFACTION



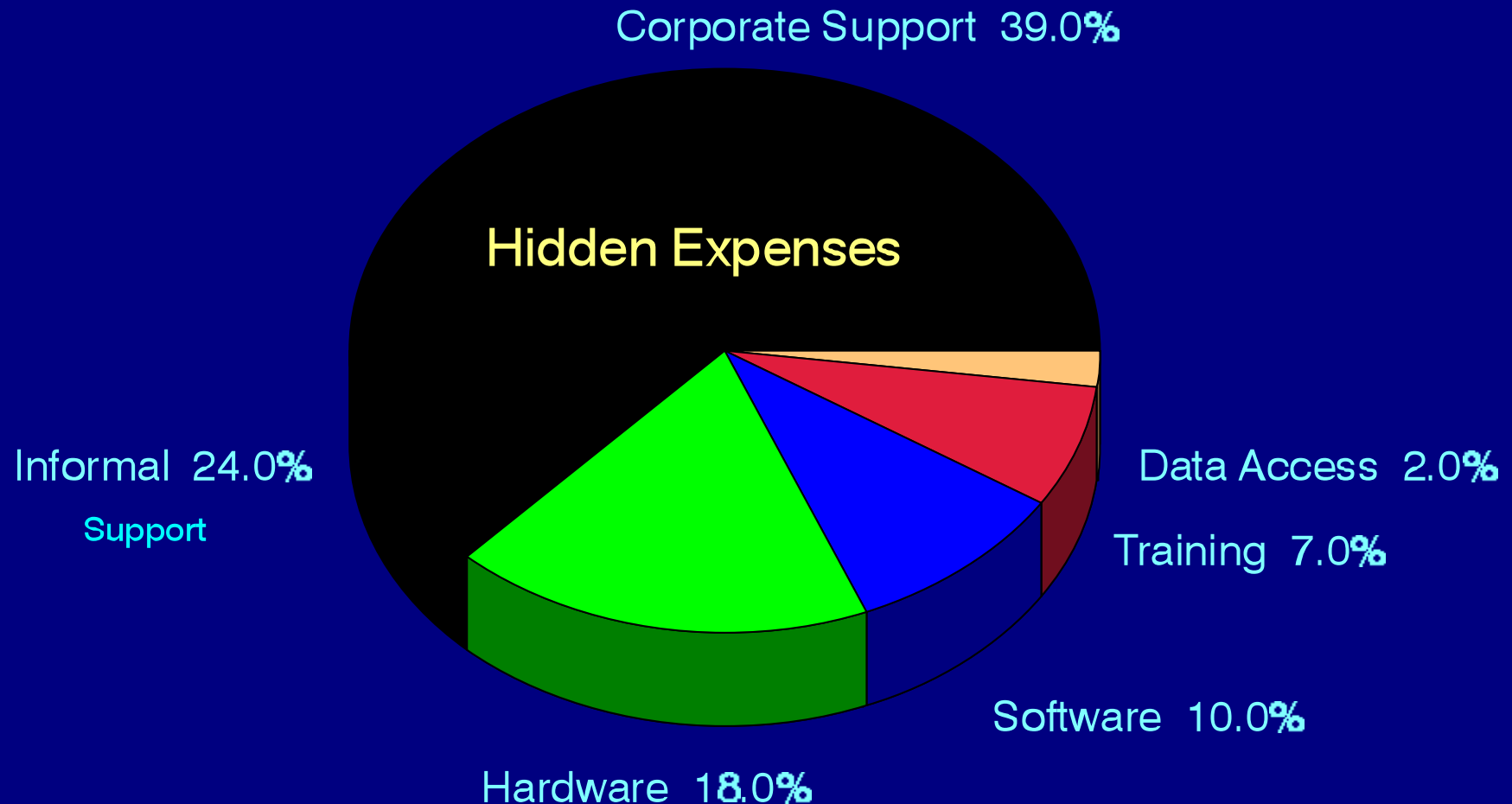
- Introduction
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- Why corporations are dissatisfied : People Issues
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- Conclusion

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THE MEASURED COST OF COMPUTERS

(As Percent of Total Cost)



(Depreciated over 3 years) **After Benjamin (1989)**

TECHNOLOGY IS NOT THE KEY ISSUE

Technology is only important if it does not perform

e.g. EIS

Adhoc query
&
report writer

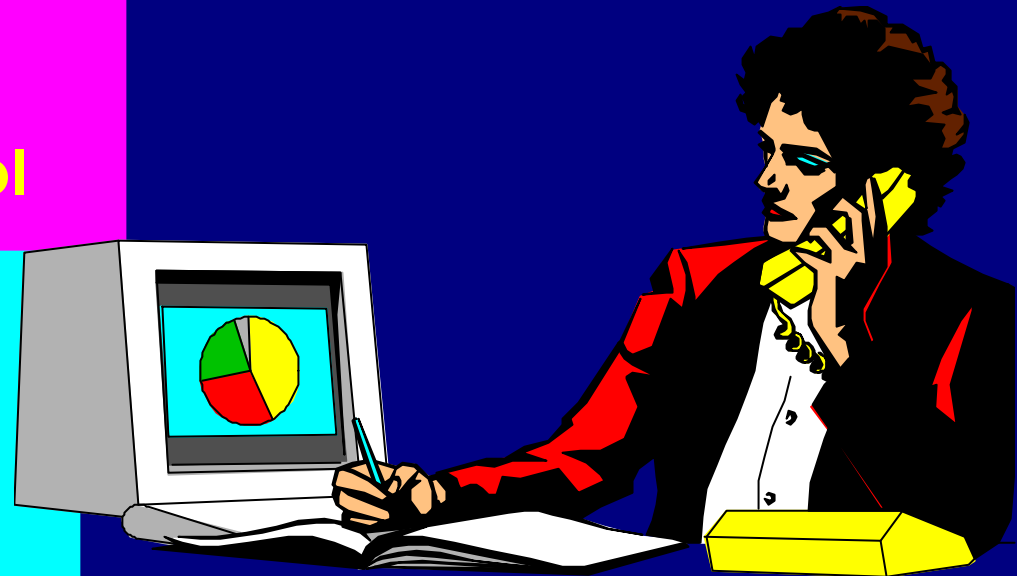
EIS tool

Simulation

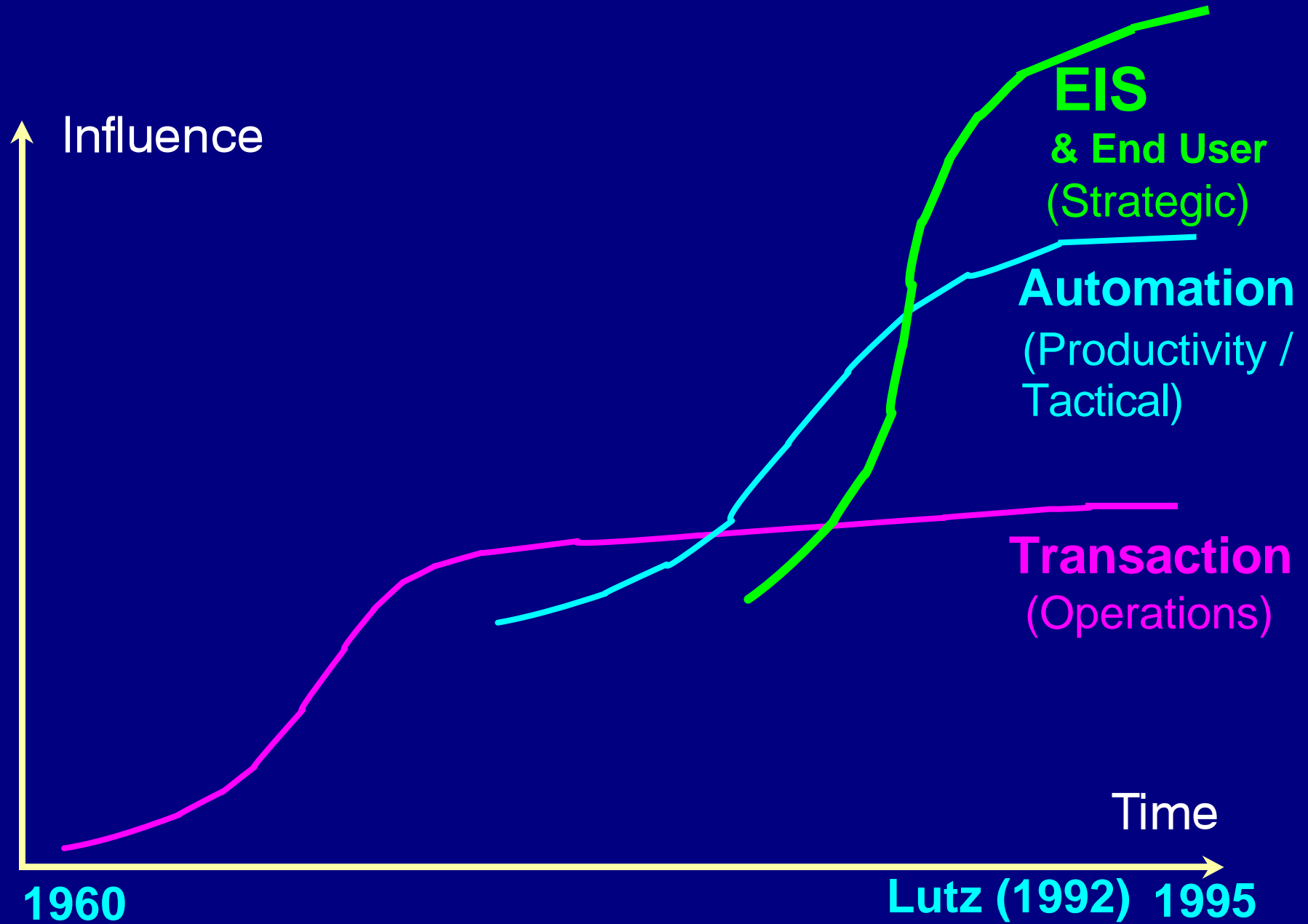
Spread-
sheet

Statistical
Analysis

GIS

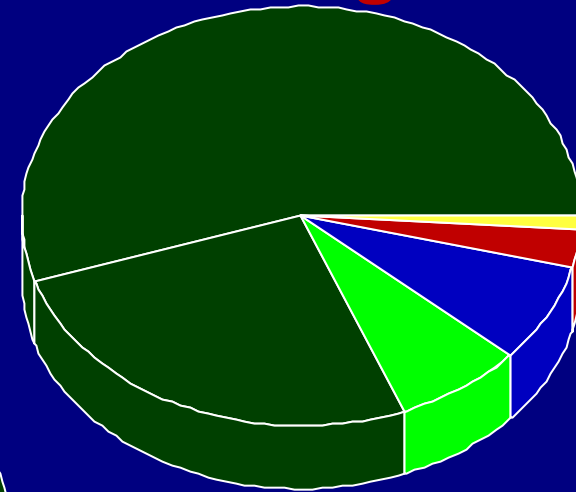


INFORMATION TECHNOLOGY TRENDS



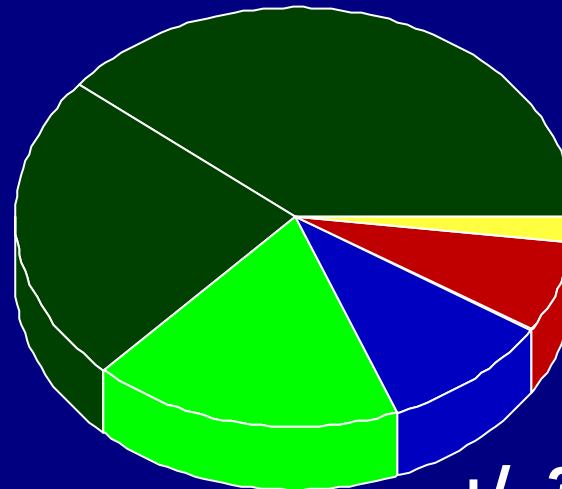
THE COST OF COMPUTER SYSTEMS

Strategic



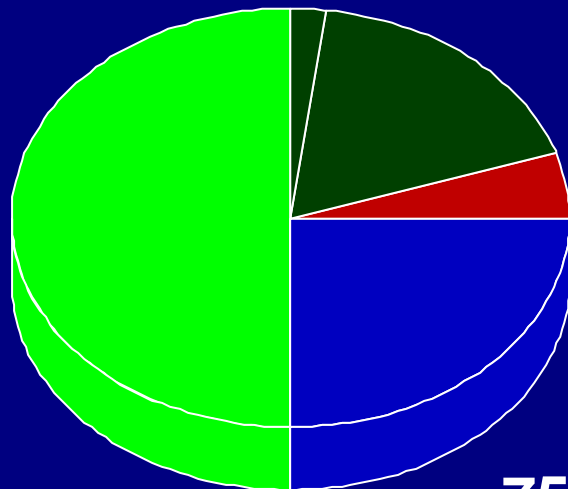
<15%

Tactical



+/- 30%

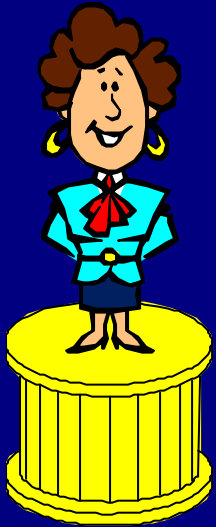
Operational



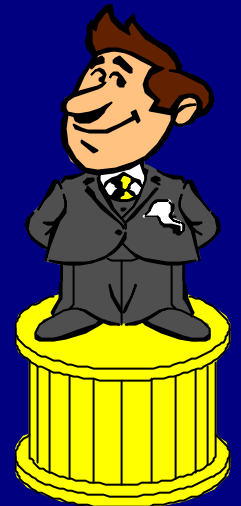
>75%

Percentage Hardware & Software Cost

THE COST OF COMPUTER SYSTEMS



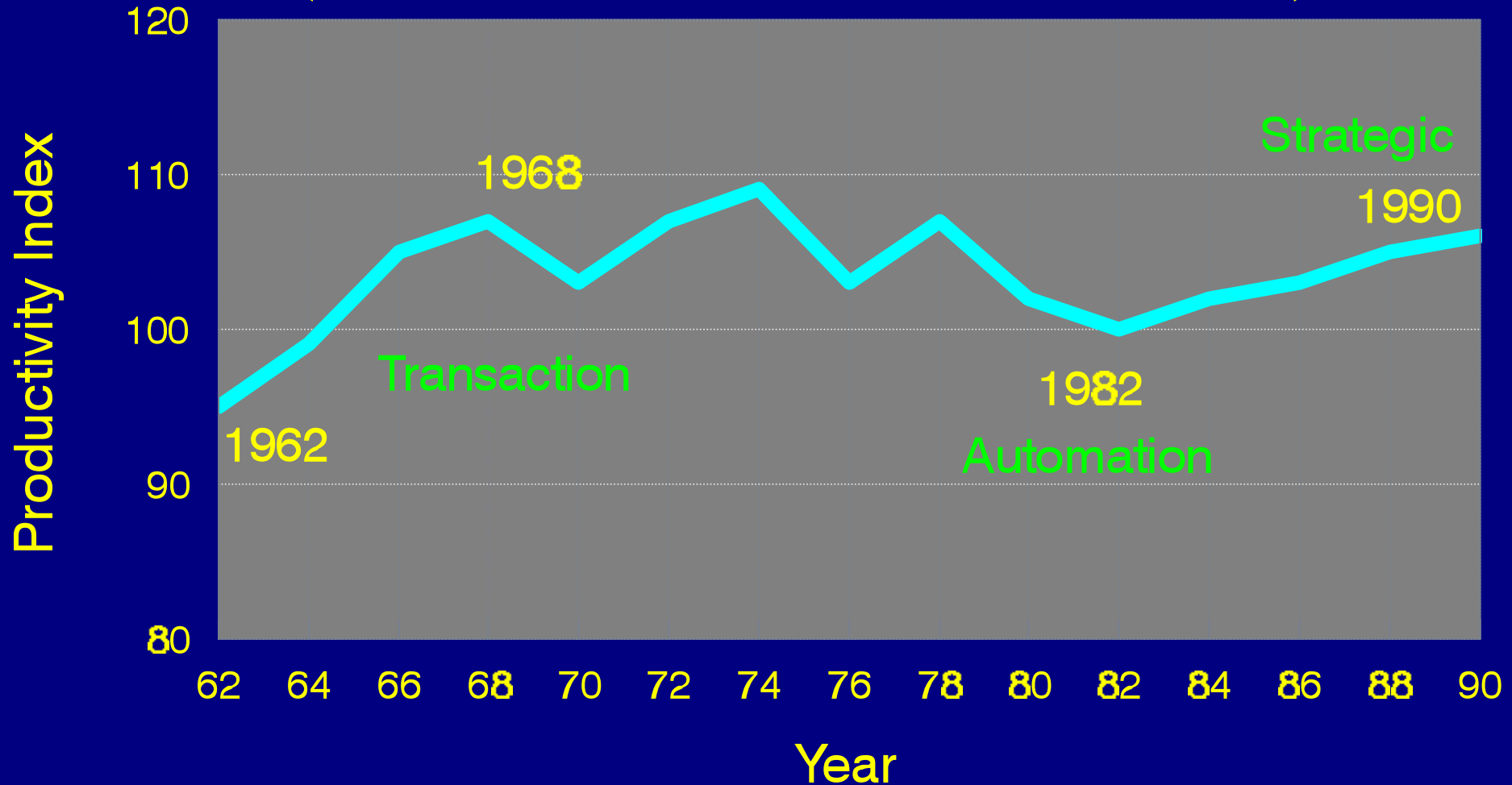
- The Human Element is The Major Cost in Strategic Systems



- The Technology Element (Hardware and Software) is The Major Cost in Operational Systems

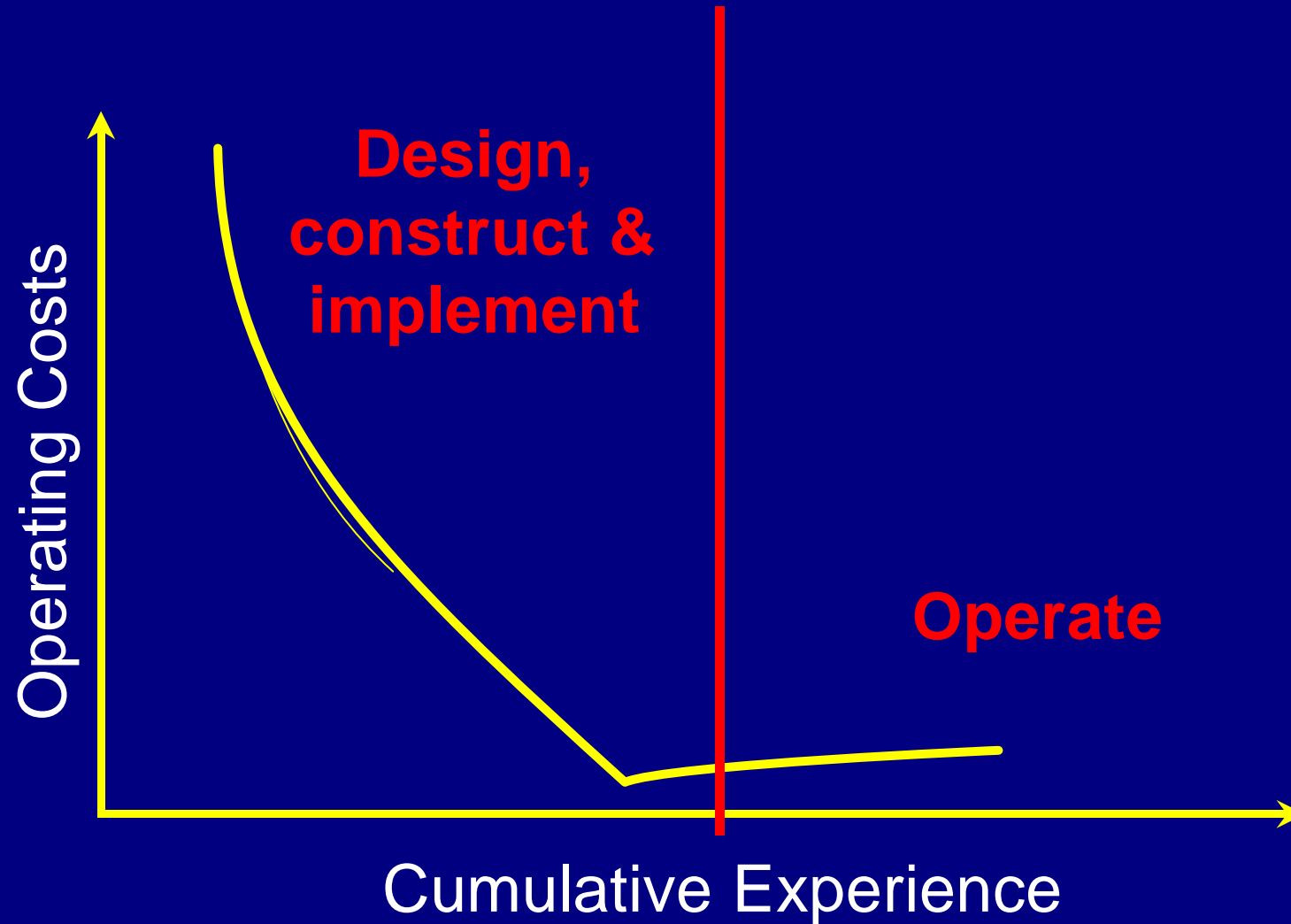
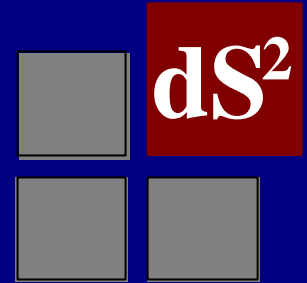


INFORMATION TECHNOLOGY EXPERIENCE (BANKING AND AIRLINES - USA)



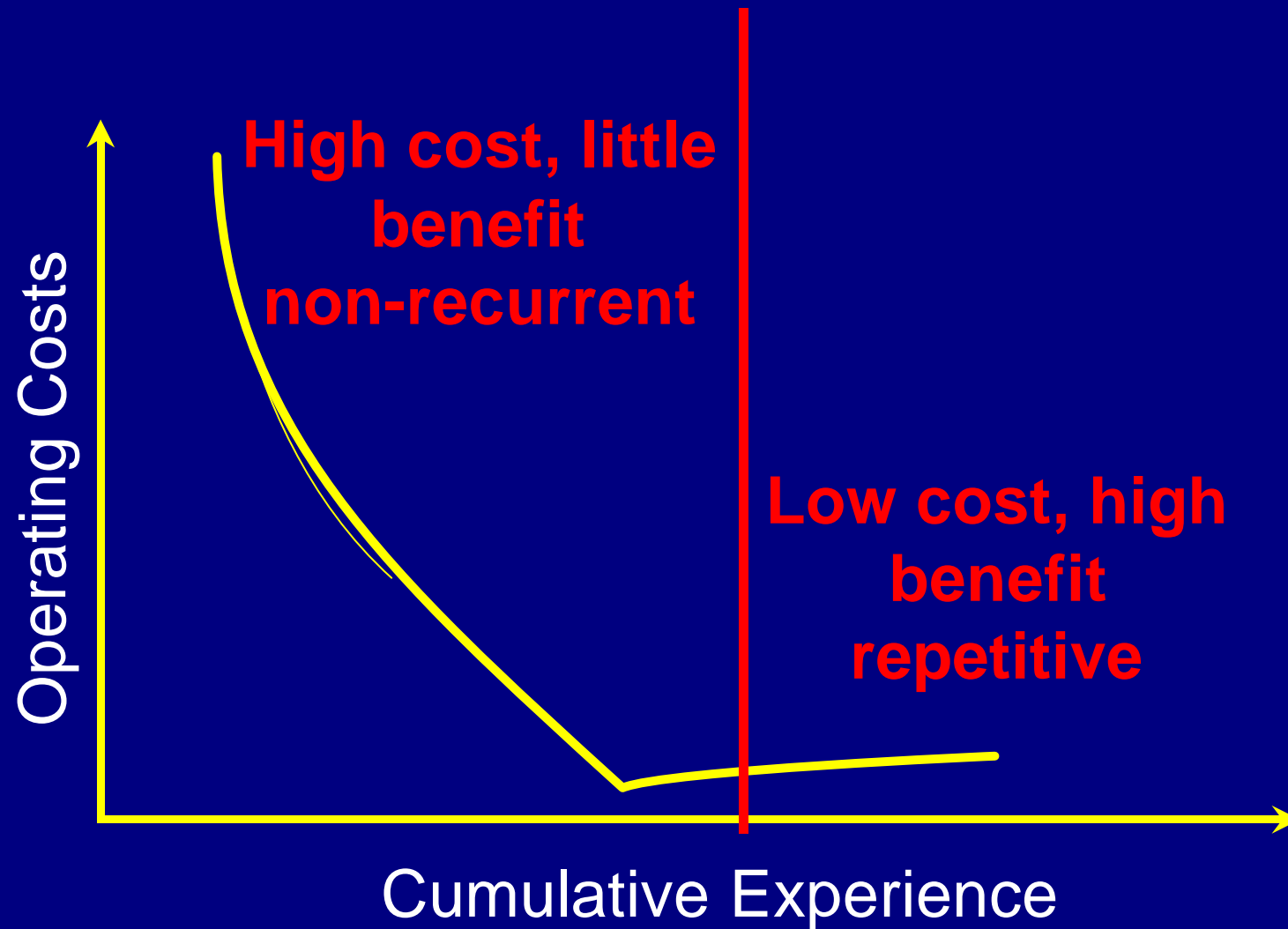
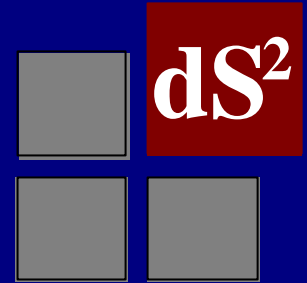
Stephen S Roach (Harvard Business Review, October 1991)

THE COST - EXPERIENCE CURVE

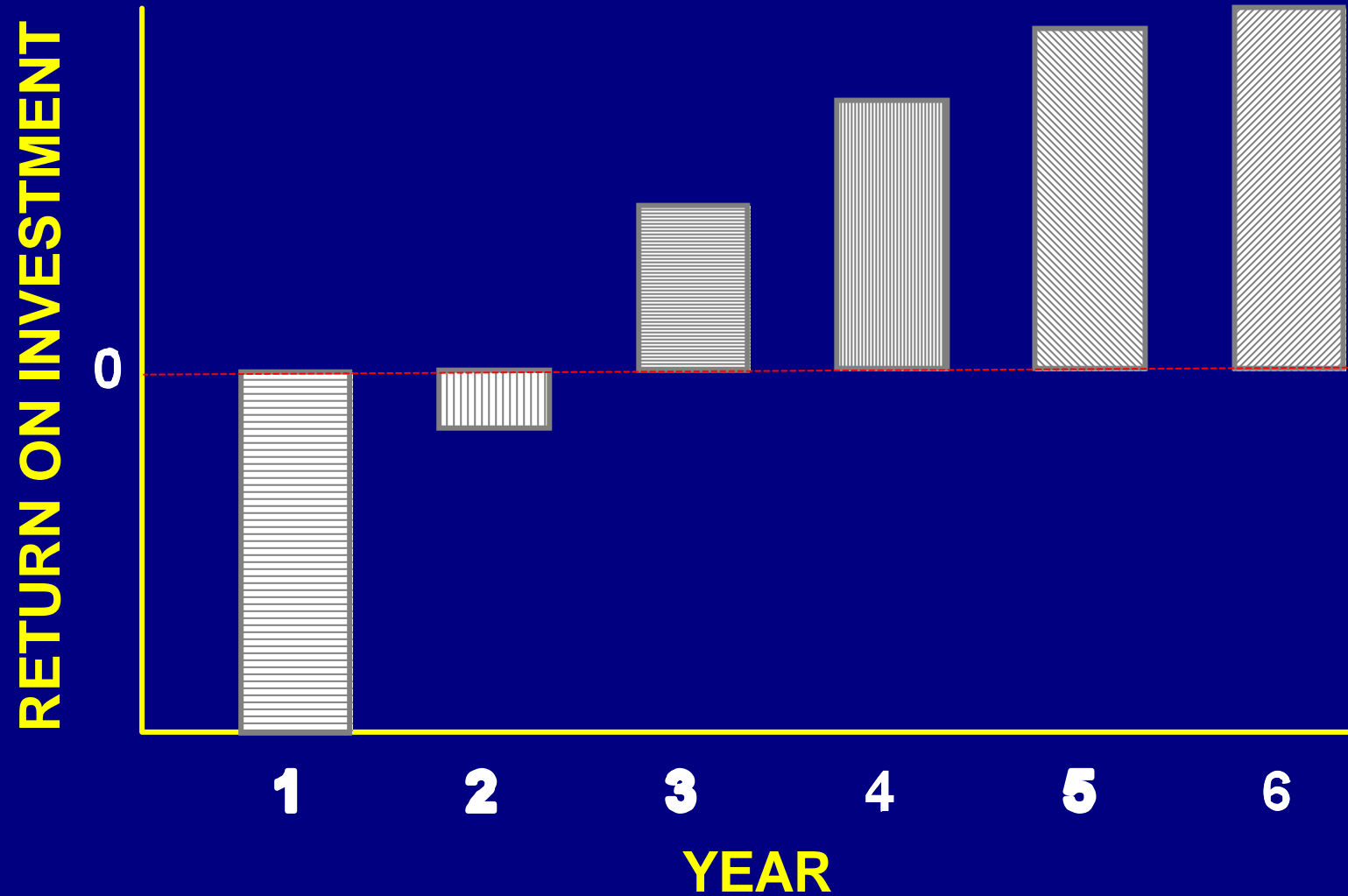
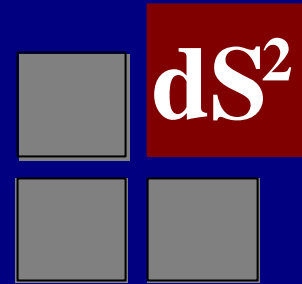


McDonald (1994)

THE COST - EXPERIENCE CURVE



POSTULATED RETURN ON INVESTMENT FOR IT

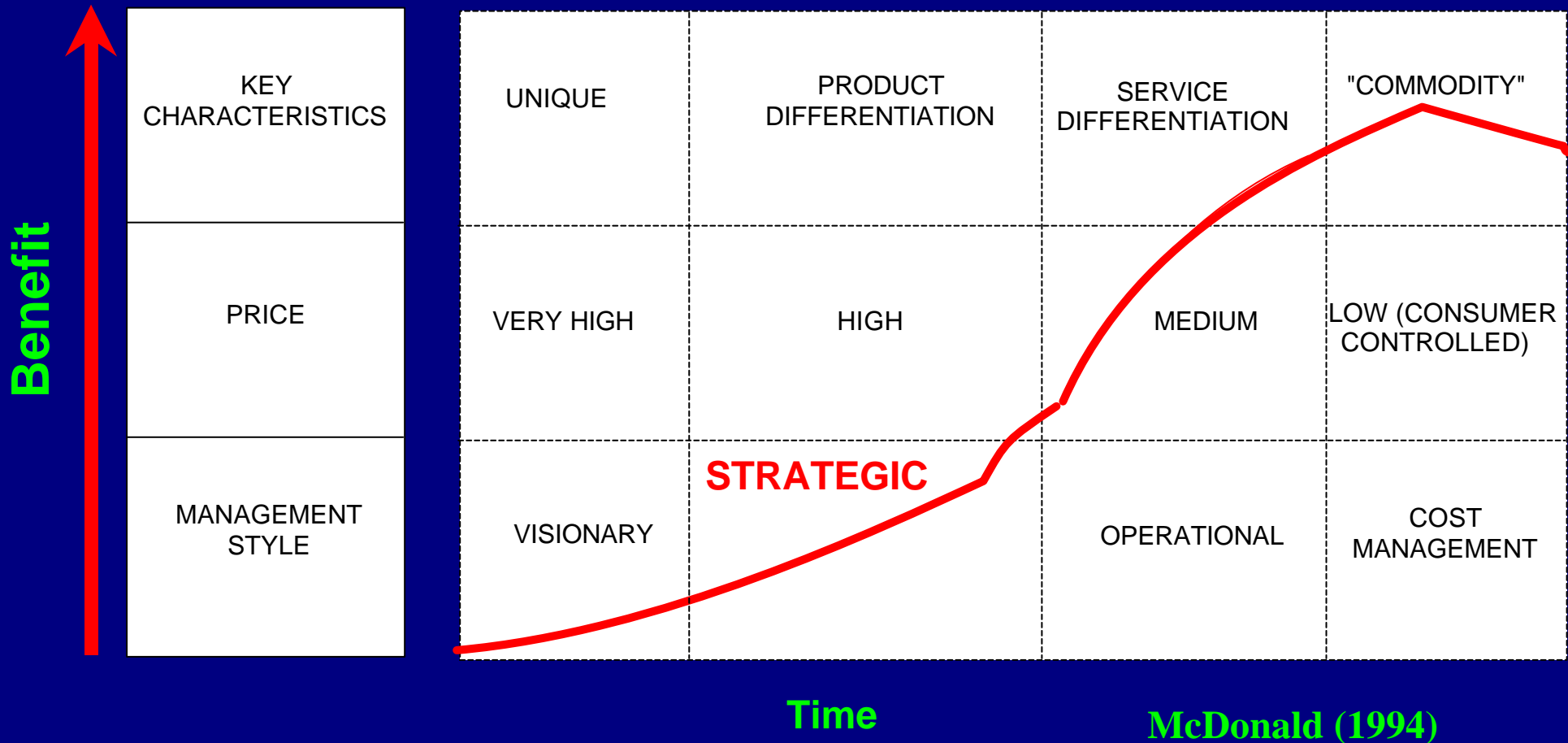


After McDonald (1994)

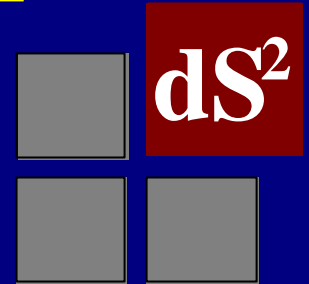
SYSTEM LIFE CYCLE CHARACTERISTICS

dS²

Investment to support strategy must be made relatively early in technology life cycle in order to Create Competitive Advantage



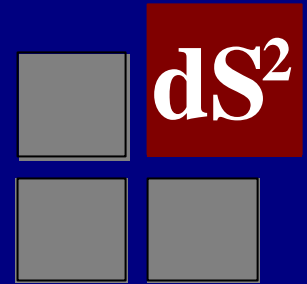
BENEFITS FROM I.T. INVESTMENT



- Take time before they are fully evident
- Are only achieved if the system is well designed and well implemented
- Are strategic and tactical in nature more than direct financial benefit

**WHAT VALUE COMPETITIVE ADVANTAGE
GAINED OR LOST?**

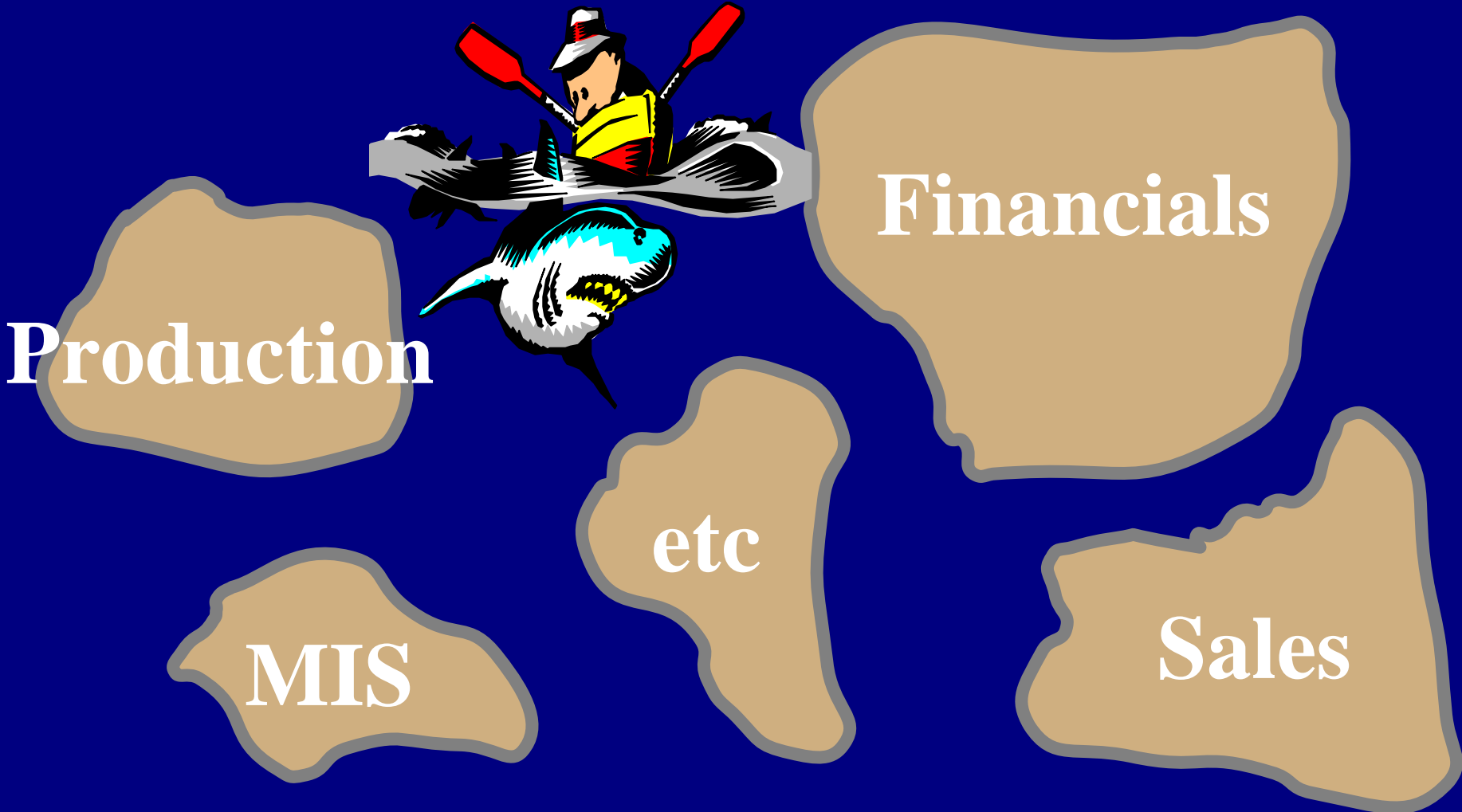
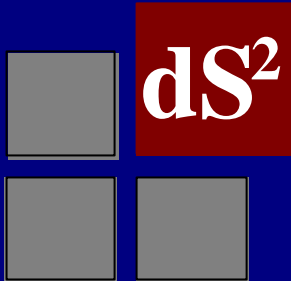
RETURN ON INVESTMENT



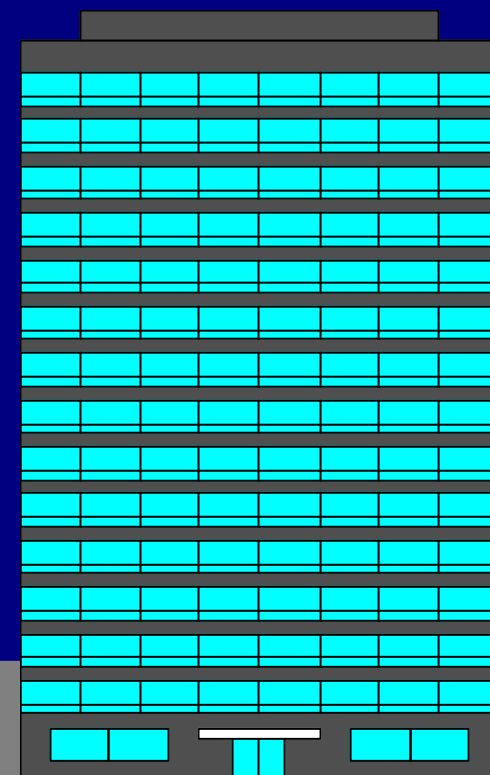
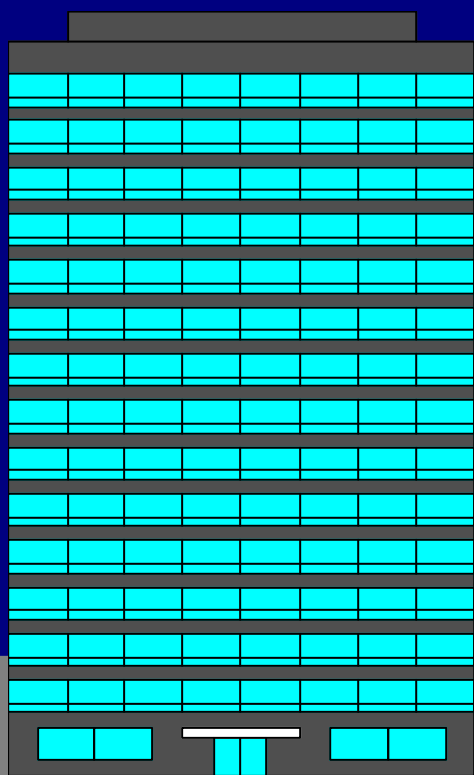
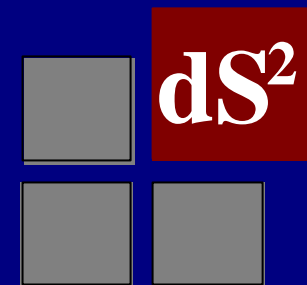
- Will take time before realized
- Requires 100% support from management

CAPITALIZE I.T. INVESTMENT!

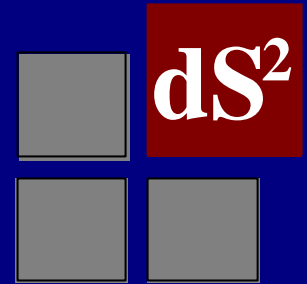
ISLANDS OF INFORMATION



ISLANDS OF INFORMATION



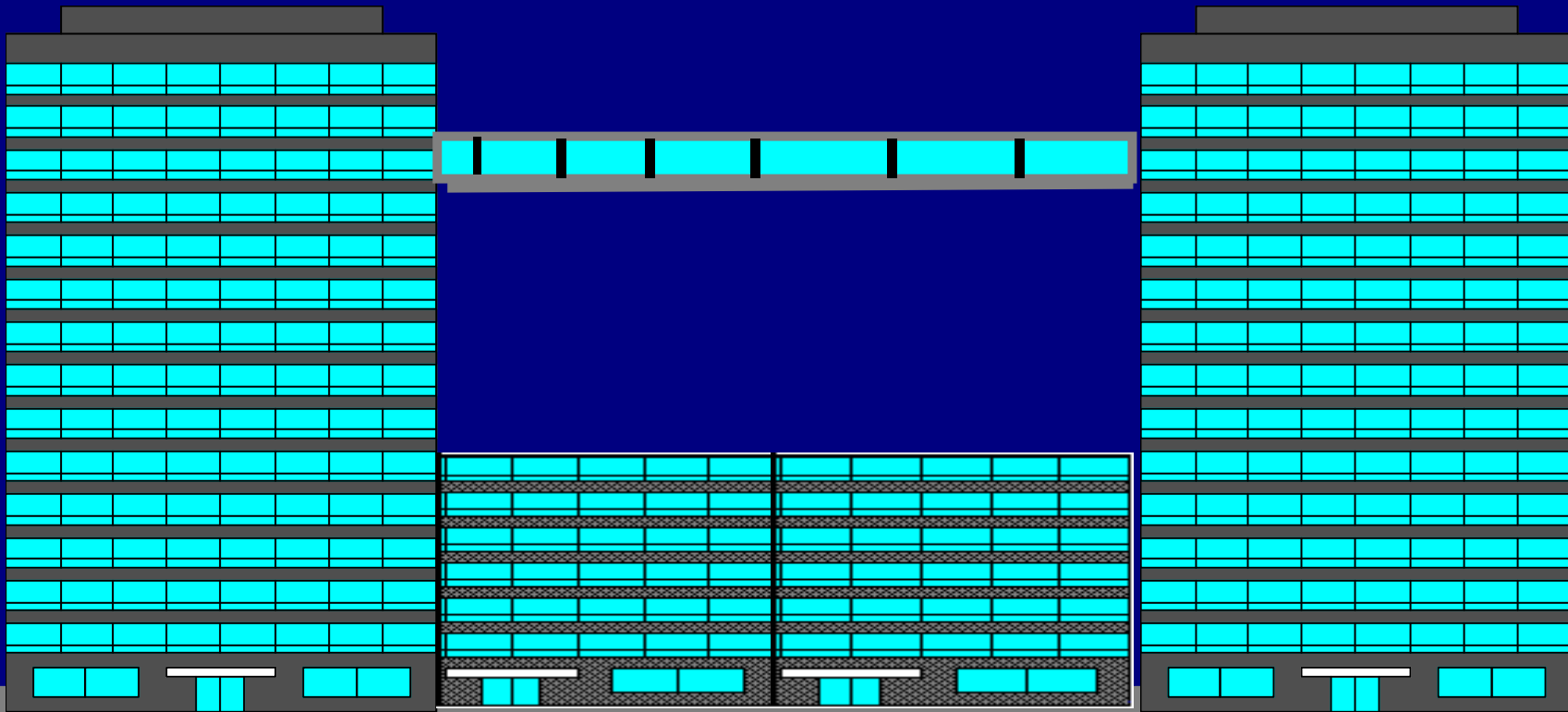
WHY TECHNOLOGY IS NOT MEETING EXPECTATIONS



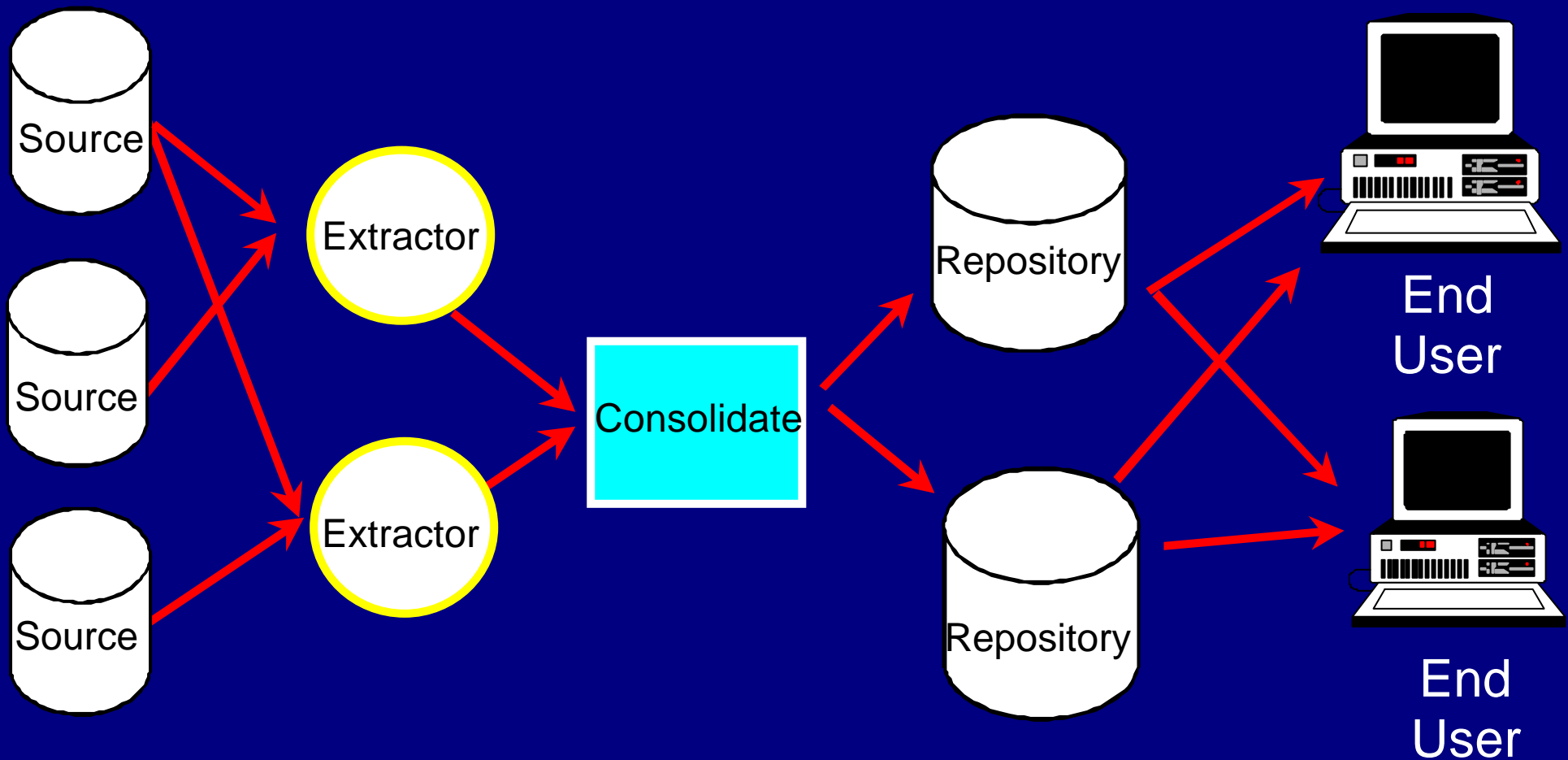
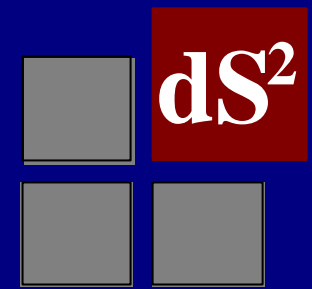
THE I.T. DEMOLITION SYNDROME

dS^2

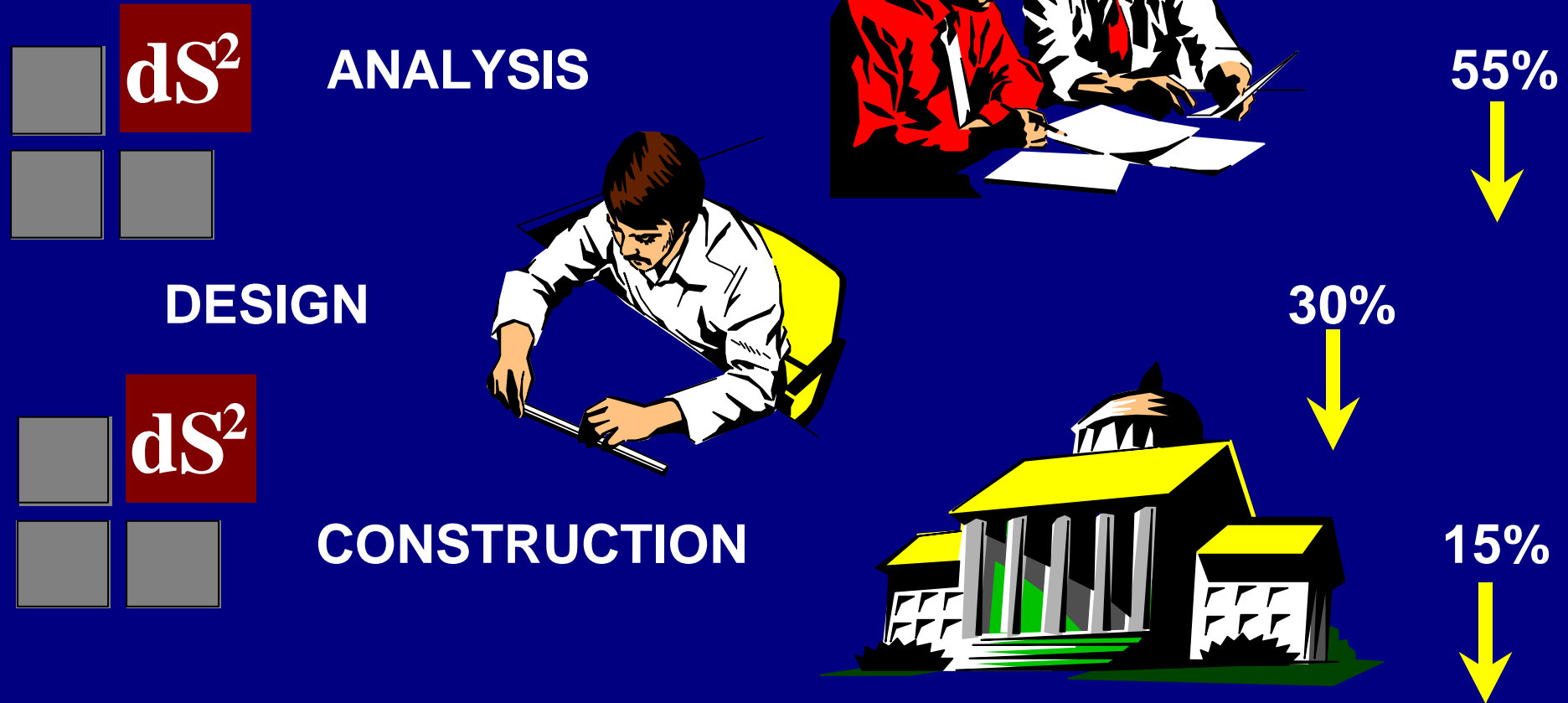
THE CIVIL ENGINEERING SOLUTION



THE INFORMATION WAREHOUSE & CLIENT SERVER TECHNOLOGY



WHERE SOFTWARE ERRORS ORIGINATE



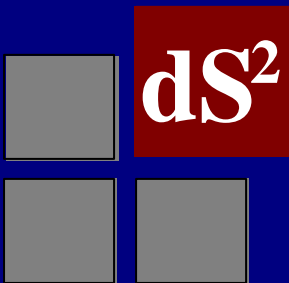
NEED TO REDUCE ERRORS IN ALL OF THESE AREAS

HOW TO USE I.T. TO DELIVER INFORMATION EFFECTIVELY

RECOGNIZE DIFFERENT CHARACTERISTICS
OF DIFFERENT TYPES OF SYSTEMS :

- Operational
- Tactical
- Strategic

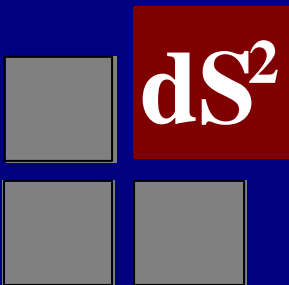
ENGINEER I.T.



OPERATIONAL SYSTEMS:

- Analogous to production lines
- Processing
- Established processes
- Industrial engineering

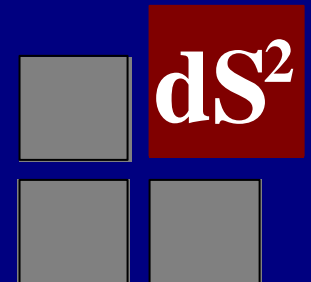
ENGINEER I.T.



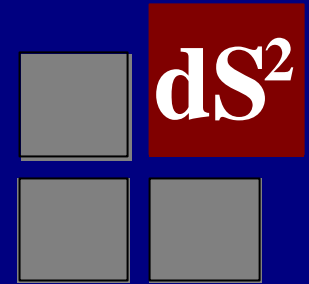
TACTICAL / AUTOMATION SYSTEMS:

- Infrastructure
- Large number of similar components
- Includes Office Automation
- Provide utility services to large number of users
- Municipal Engineering

ENGINEER I.T.



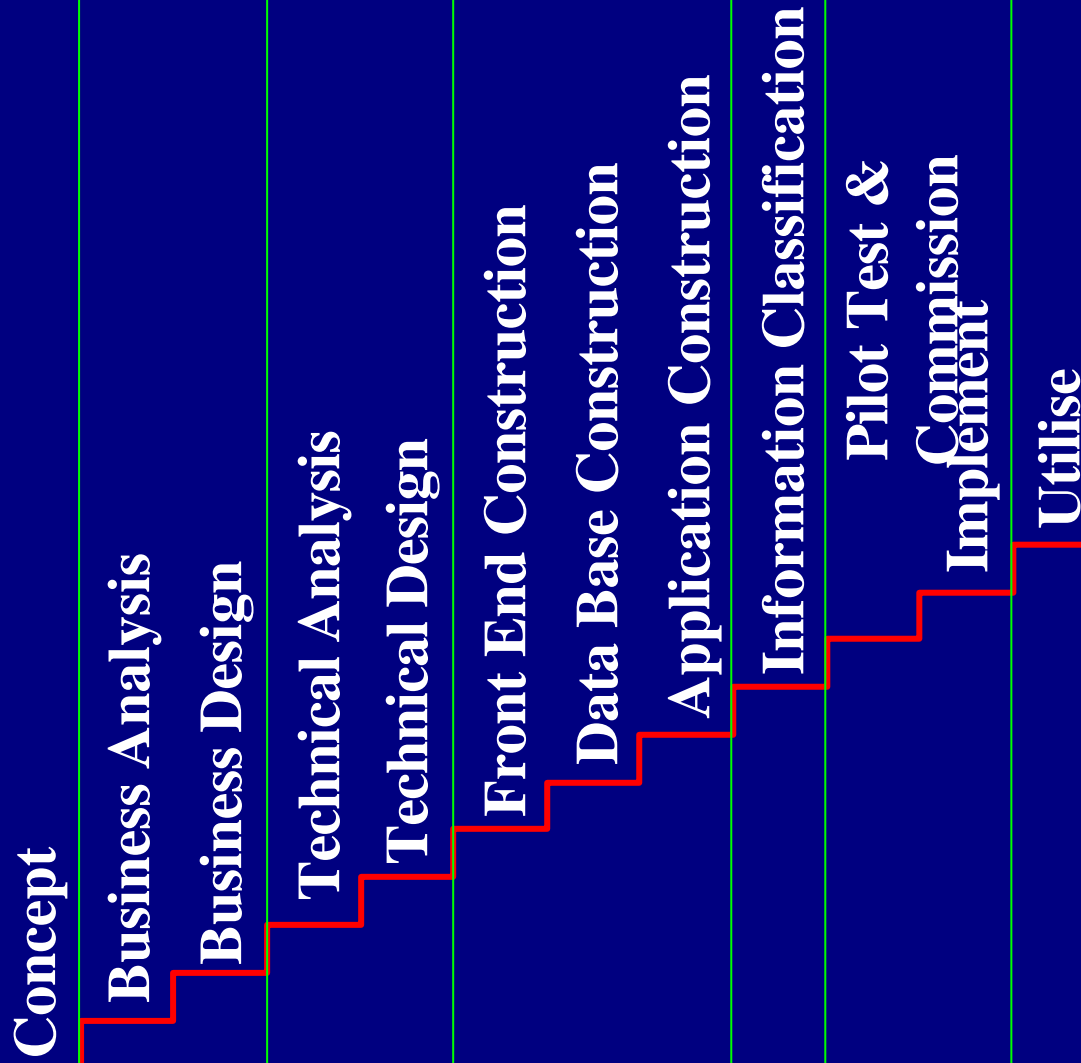
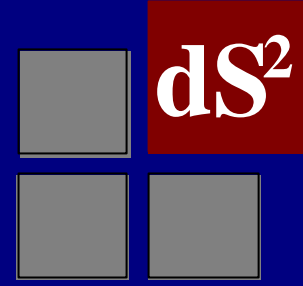
STRATEGIC SYSTEMS:



- Decision support
- "High Rise"
- Value adding business decisions
- Ride on operational and tactical systems
- Prestige Architectural - Structural Engineering

ENGINEER I.T.

AN ENGINEERING APPROACH TO SYSTEM DESIGN AND IMPLEMENTATION

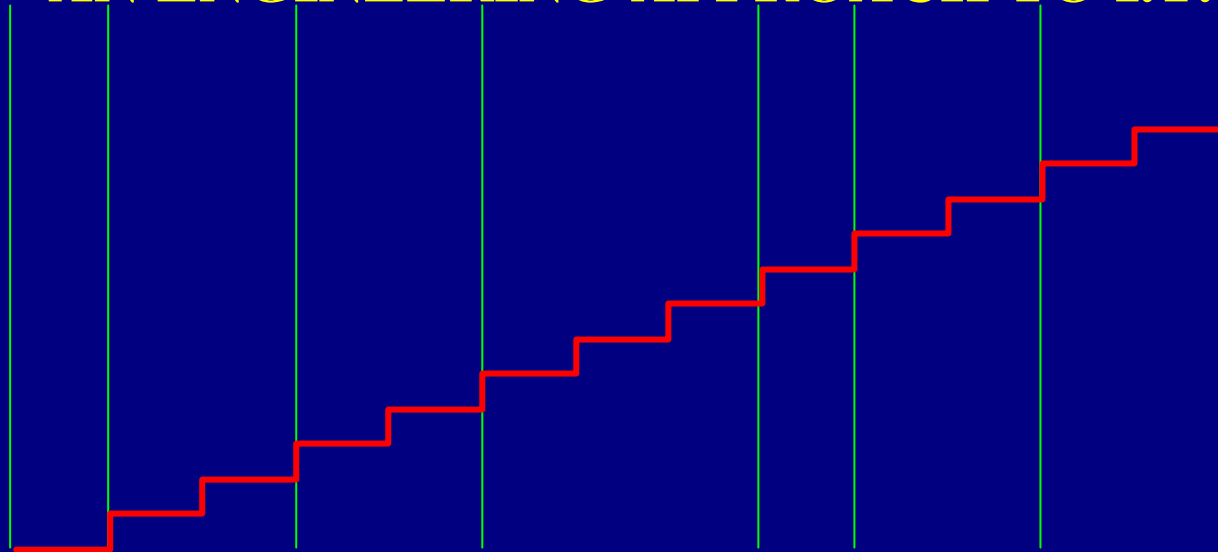
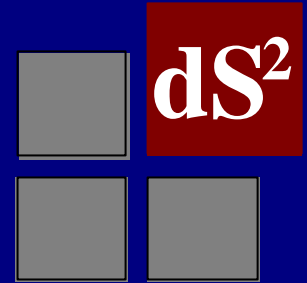


**Final
Operational
Information
System**

=

**Hardware
Application Software
Decision Support Systems
Trained Users
Viable Data
Value Added Decision Making**

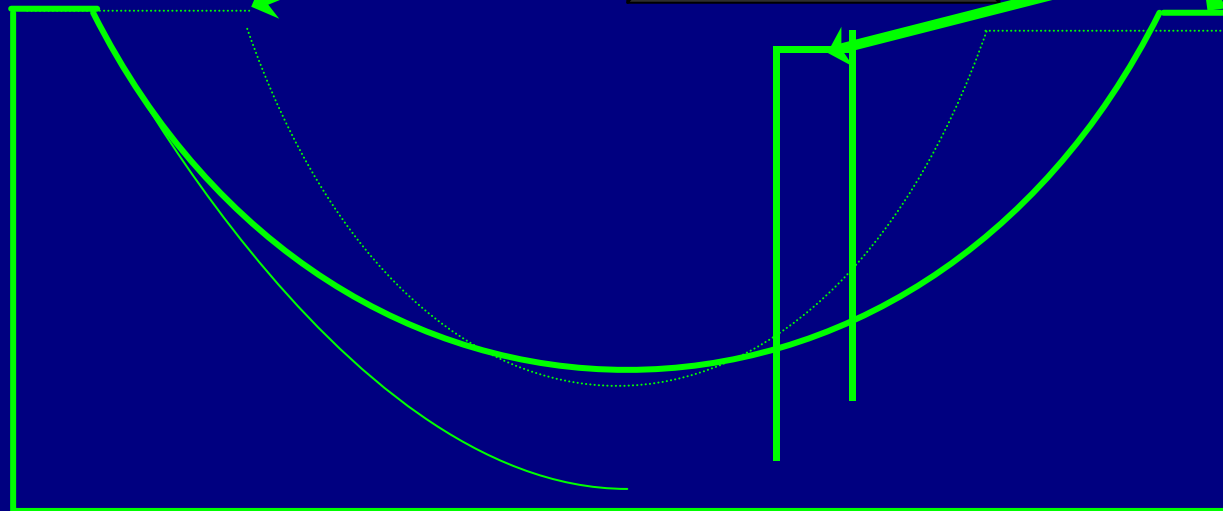
AN ENGINEERING APPROACH TO I.T.



CLASSIFY

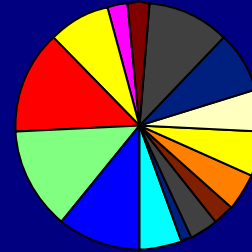
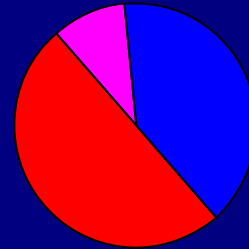
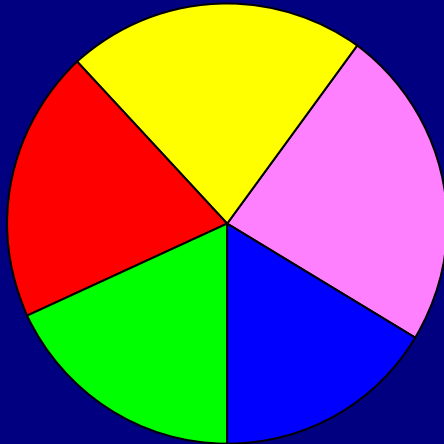
Users

Executives



BASIC CONCEPTS

PRESENTATION SKILLS

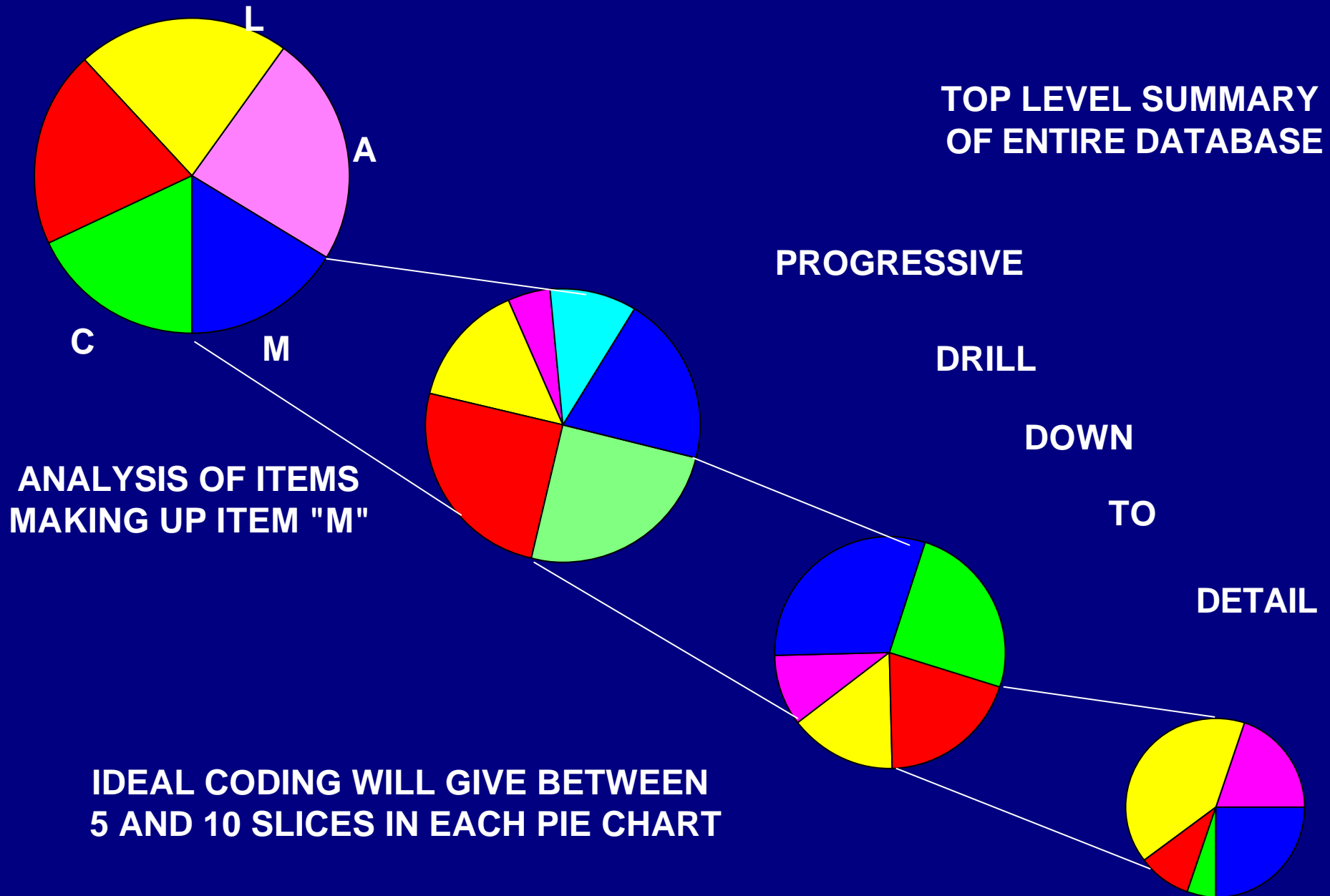


5 TO 10 SLICES OPTIMUM

ABSTRACT THINKING / MANAGEMENT

**The average person can manage
7 plus or minus 2
distinct areas or concepts**

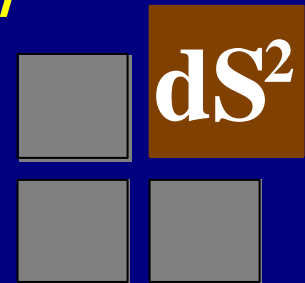
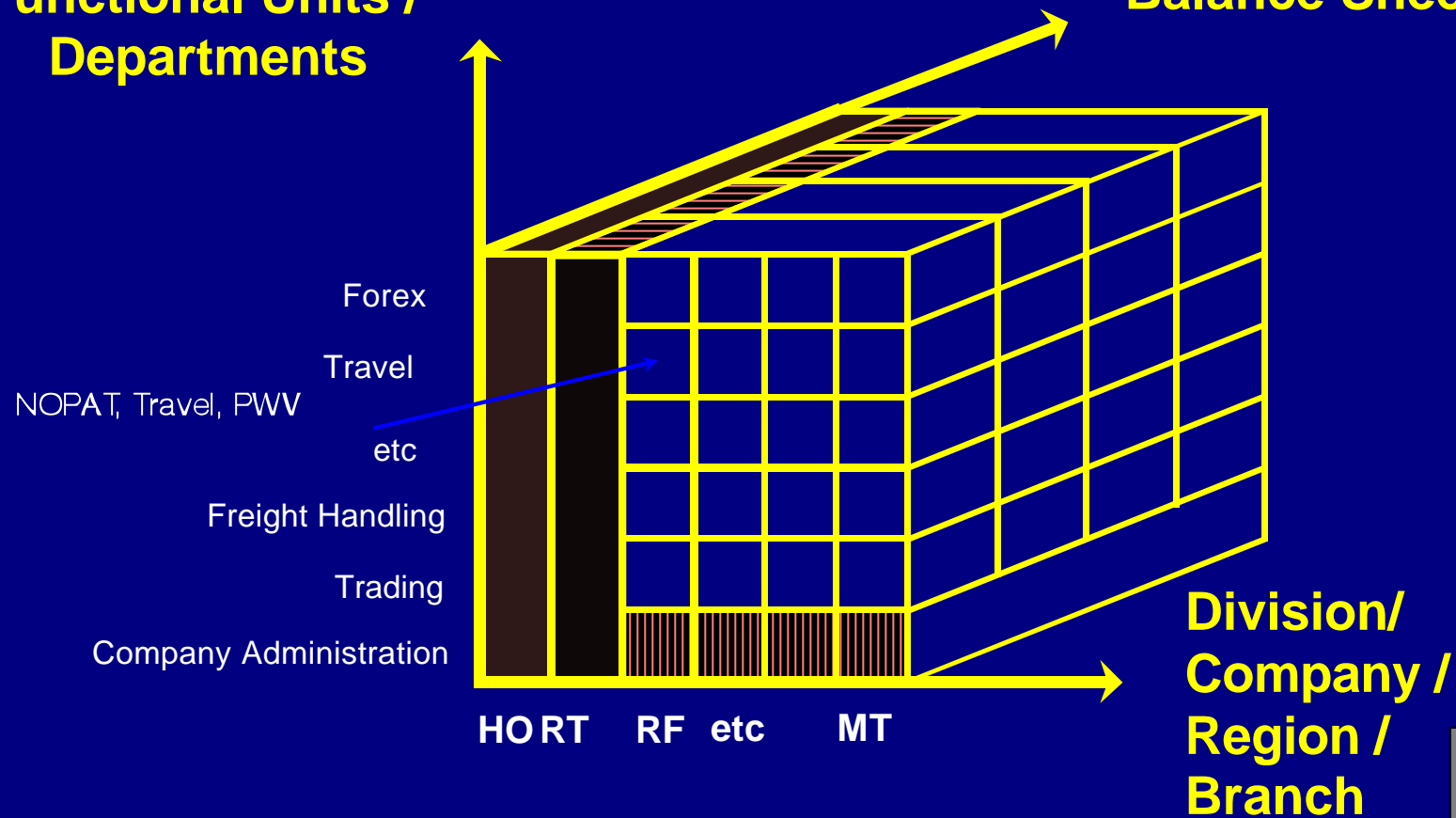
HIERARCHICAL DATA ENQUIRY CONCEPT



MULTI-DIMENSIONAL, MULTI LAYERED "CUBIC" BUSINESS MODEL

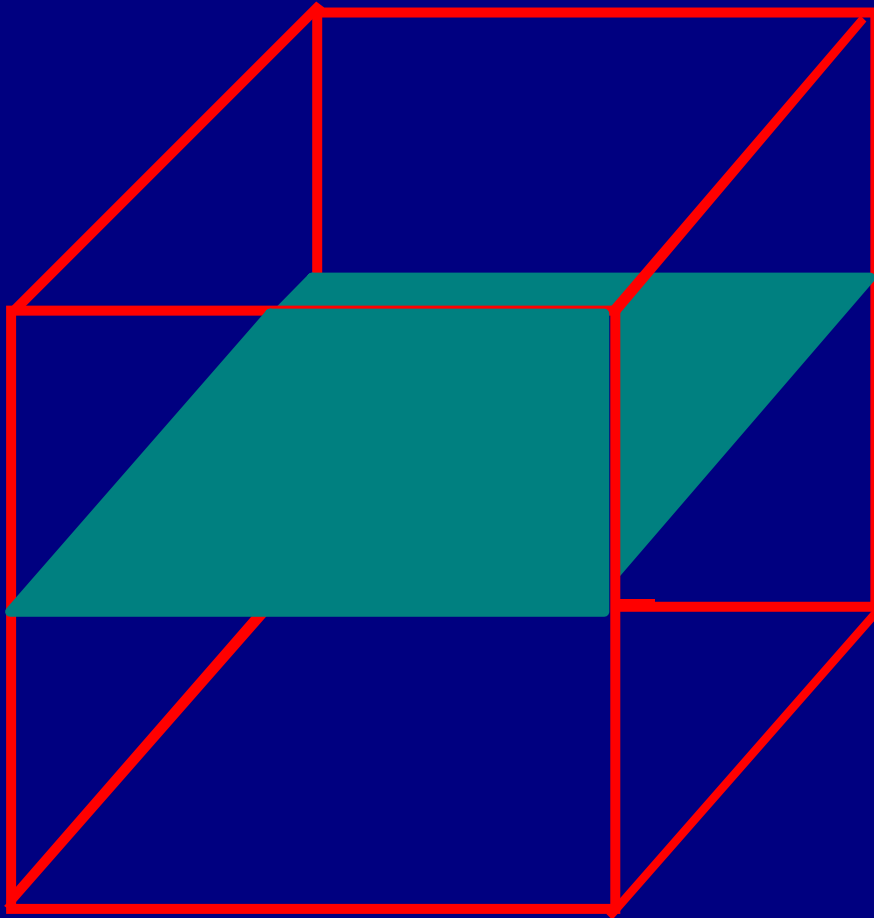
Functional Units /
Departments

Chart of Accounts /
Income Statement &
Balance Sheet, etc

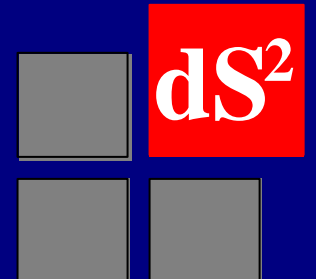


(c) James A Robertson & Associates 1990, 1993
Differentiated Strategic Solutions 1994

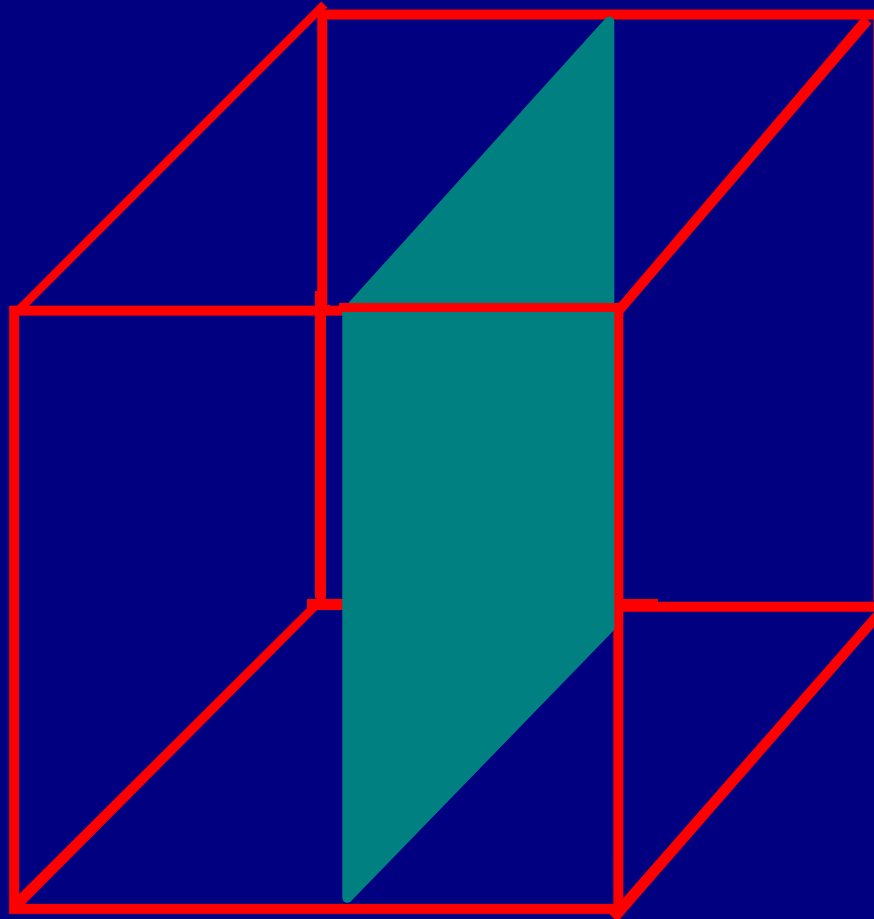
**A WELL DESIGNED BUSINESS MODEL
MAKES IT POSSIBLE TO
SLICE AND DICE THE INFORMATION**



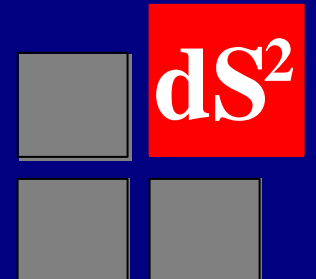
**Slice and dice in any
direction**



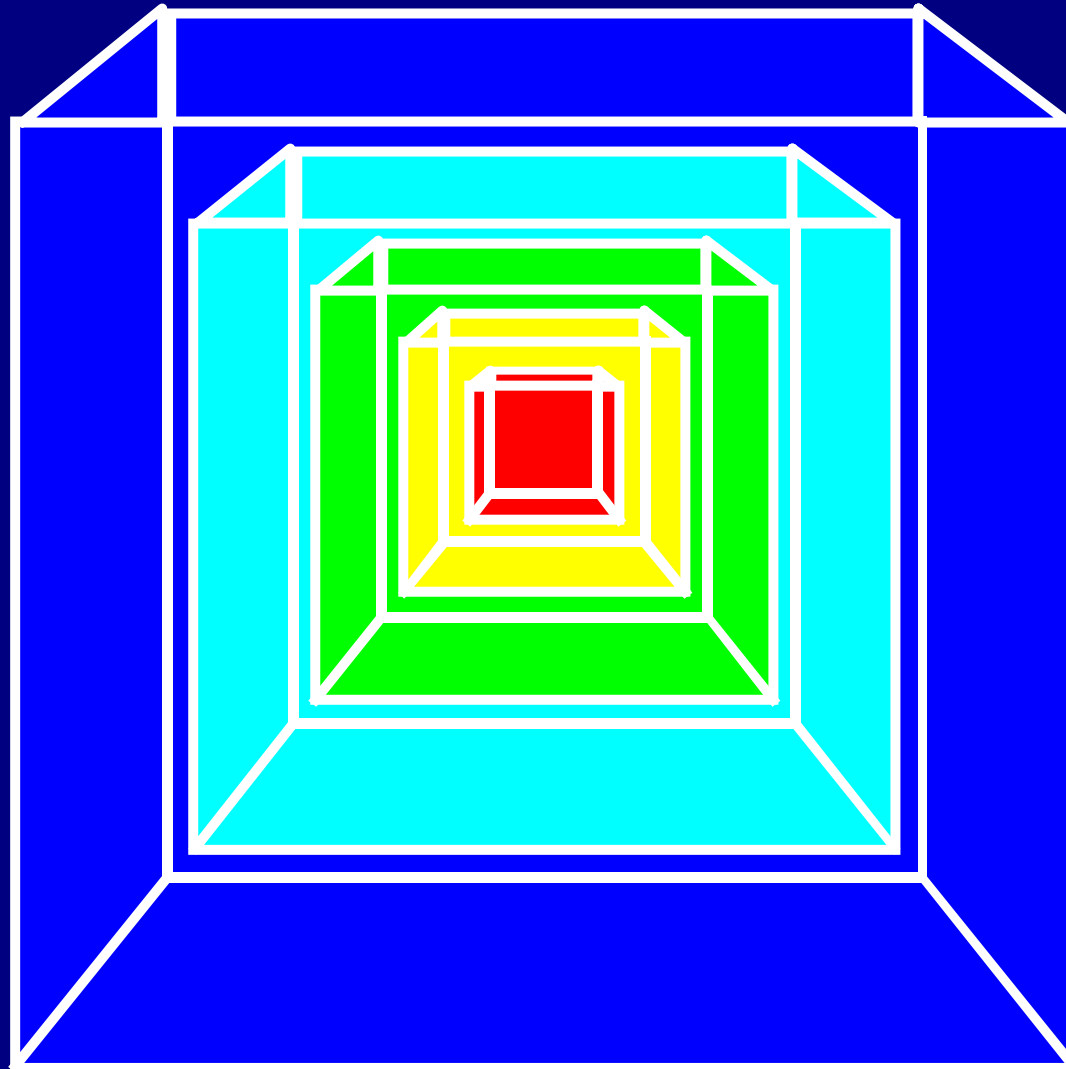
**A WELL DESIGNED BUSINESS MODEL
MAKES IT POSSIBLE TO
SLICE AND DICE THE INFORMATION**



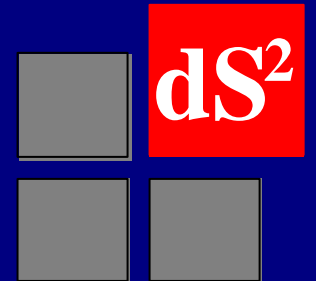
**Slice and dice in any
direction**



SLICING AND DICING INFORMATION

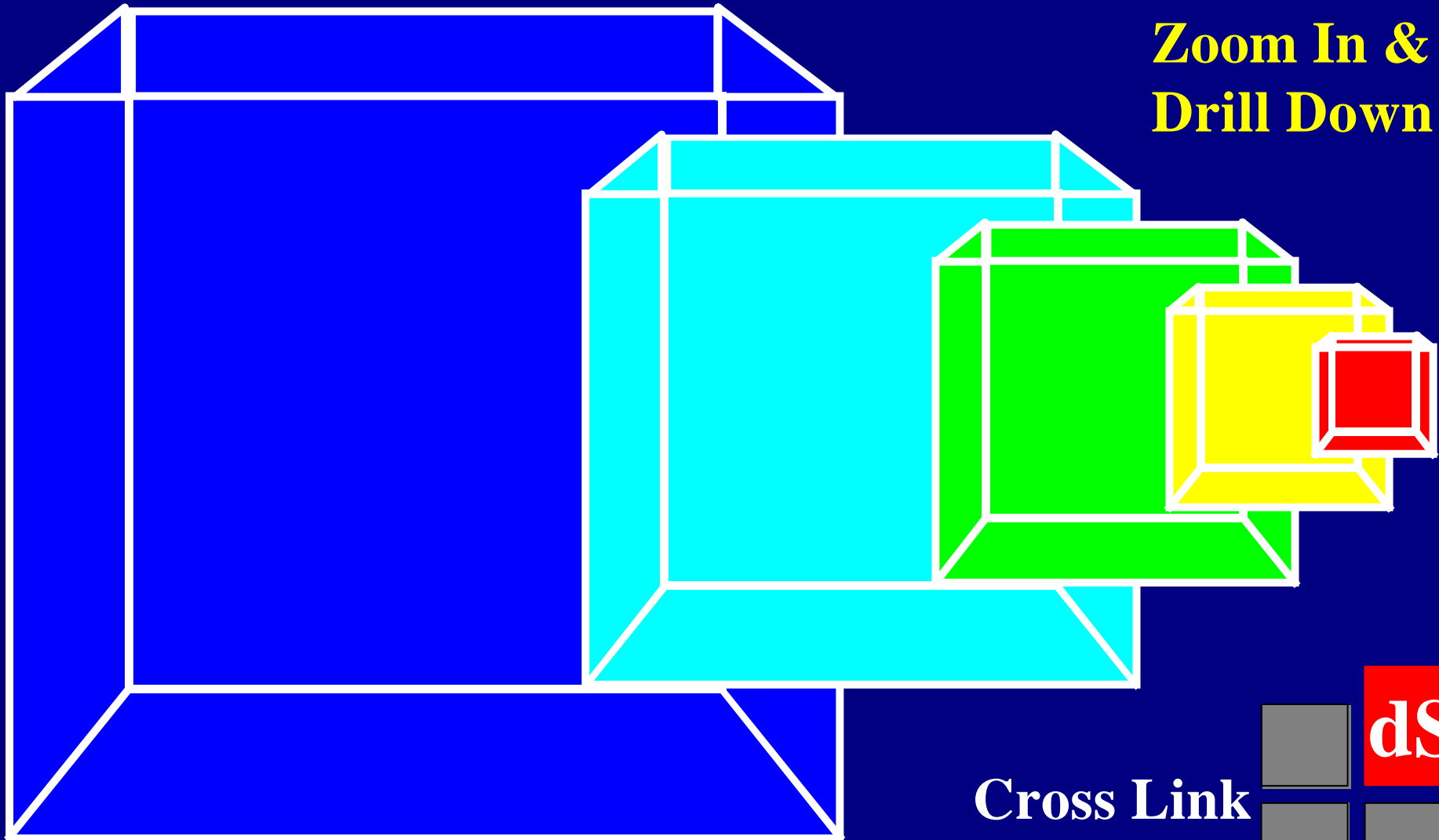


Zoom In

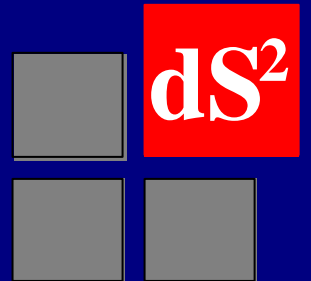


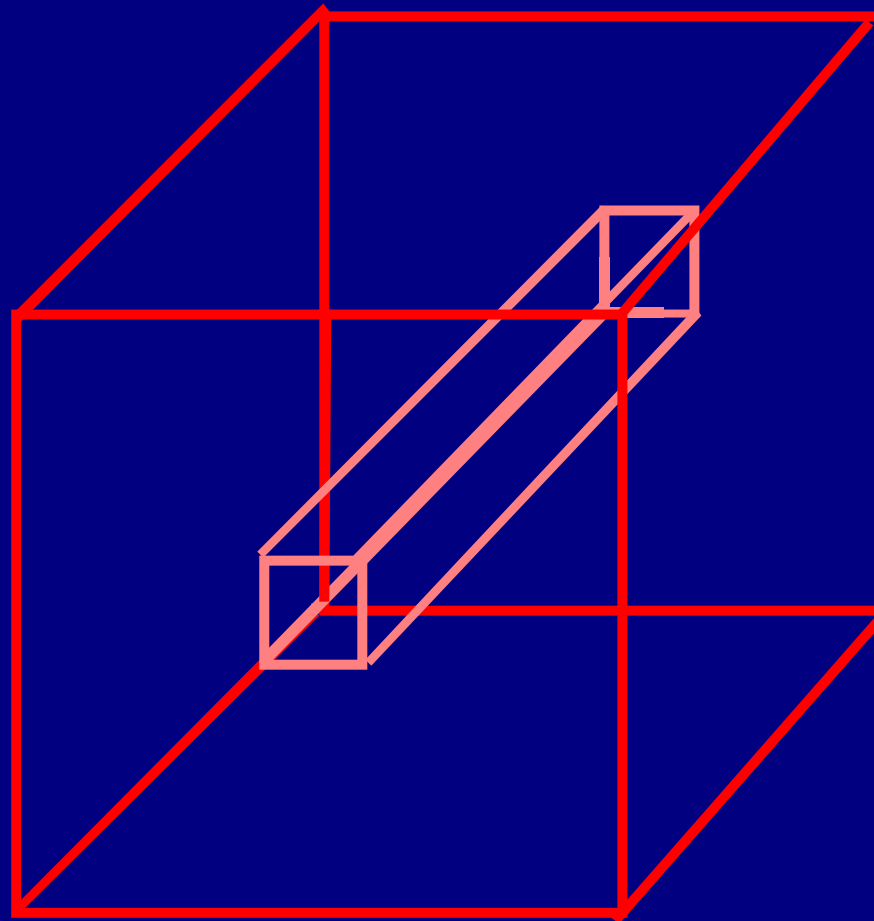
SLICING AND DICING INFORMATION

Zoom In &
Drill Down

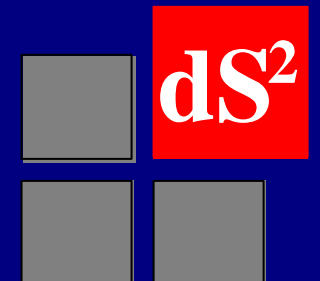


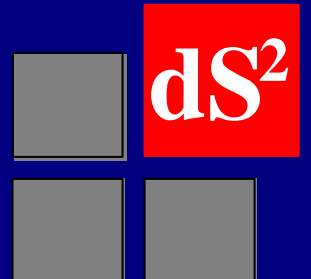
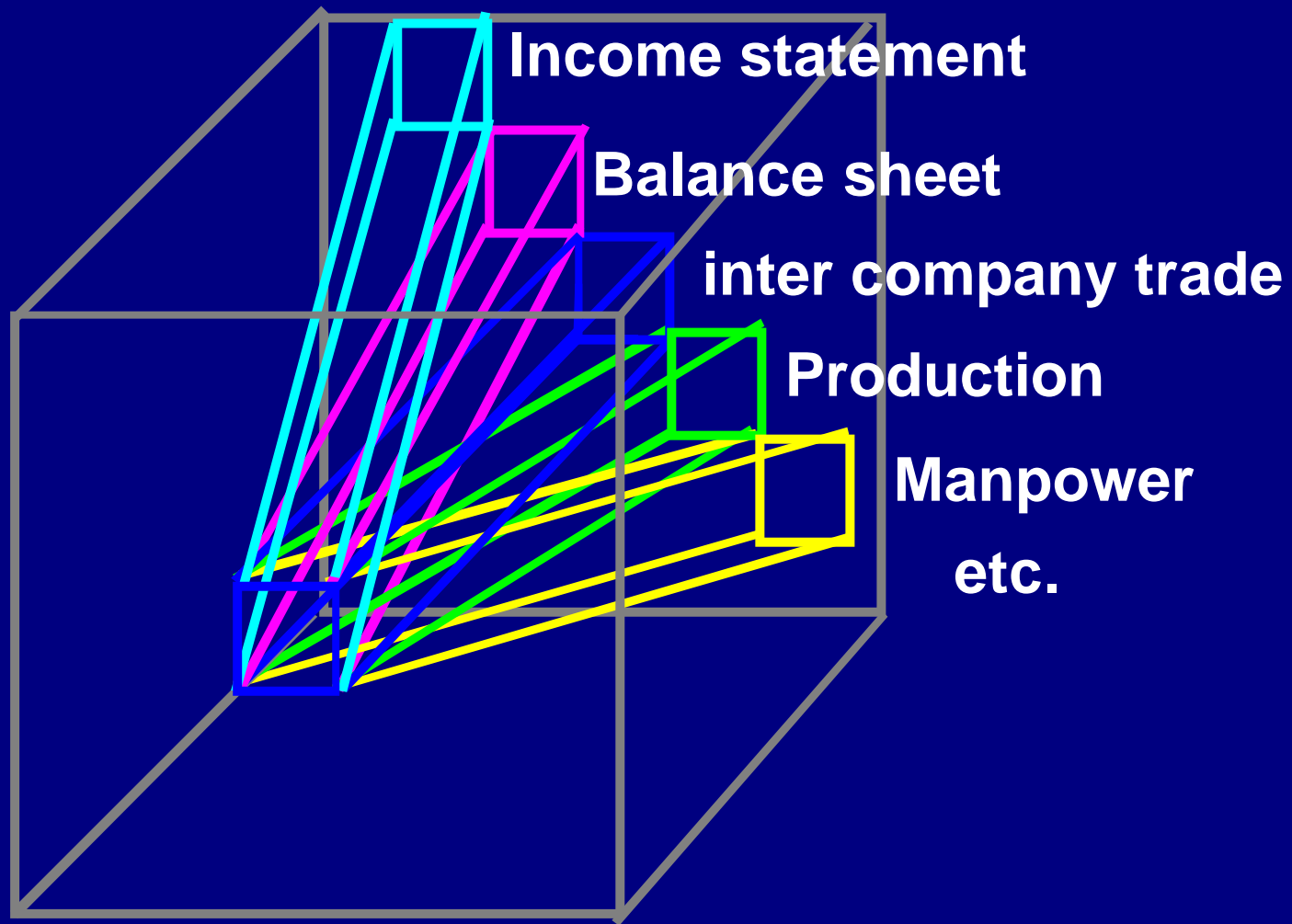
Cross Link



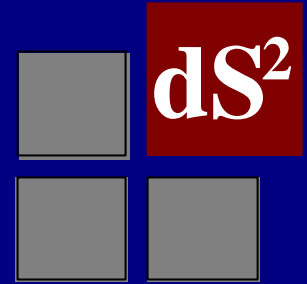


**All items that can be
uniquely attributed to this cell of the
model by function & location**





SYNCHRONISING I.T. STRATEGY



**Business
Strategy**

Technology

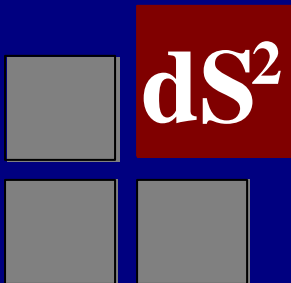
Users

IN-HOUSE I.T. SUPPORT

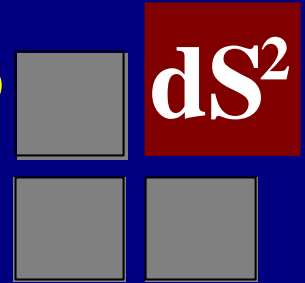
**Problem
Escalation
&
Skills
Level**

"Boffins" / Back-room boys very specific expertise outsource?									
Technical specialists problem solving skills know specific environment									
Customer focused interpersonal skills basic problem solving dedicated to group of users									

**Specific Groups of
users**

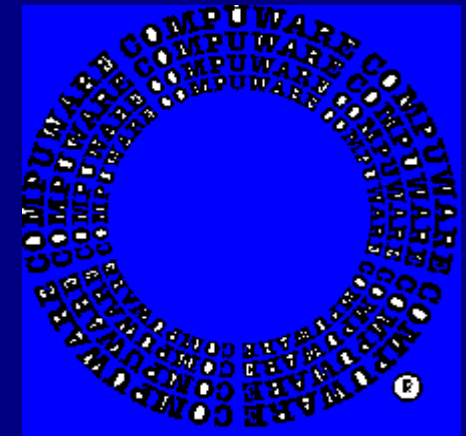


WHY 70% OF CORPORATIONS ARE DISSATISFIED AND HOW TO AVOID DISSATISFACTION

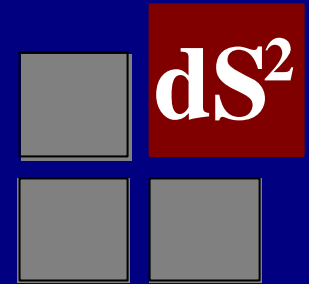


- Introduction
- Why corporations are dissatisfied : Business Issues
- Why corporations are dissatisfied : People Issues
- Why corporations are dissatisfied : I.T. Issues
- **How to respond to the challenge**
- Conclusion

COMPUWARE EXECUTIVE FORUM, MUNICH, OCTOBER 1995



CONSTRUCTION INDUSTRY MODEL



- Concept / Architecture
 - Balance
 - Strategic emphasis
- Technical Design : Align Strategy and Operations
- Construct / Commission / Operate
 - Balance
 - Operational / Tactical Emphasis

**MUST CREATE AND SUSTAIN
COMPETITIVE ADVANTAGE**



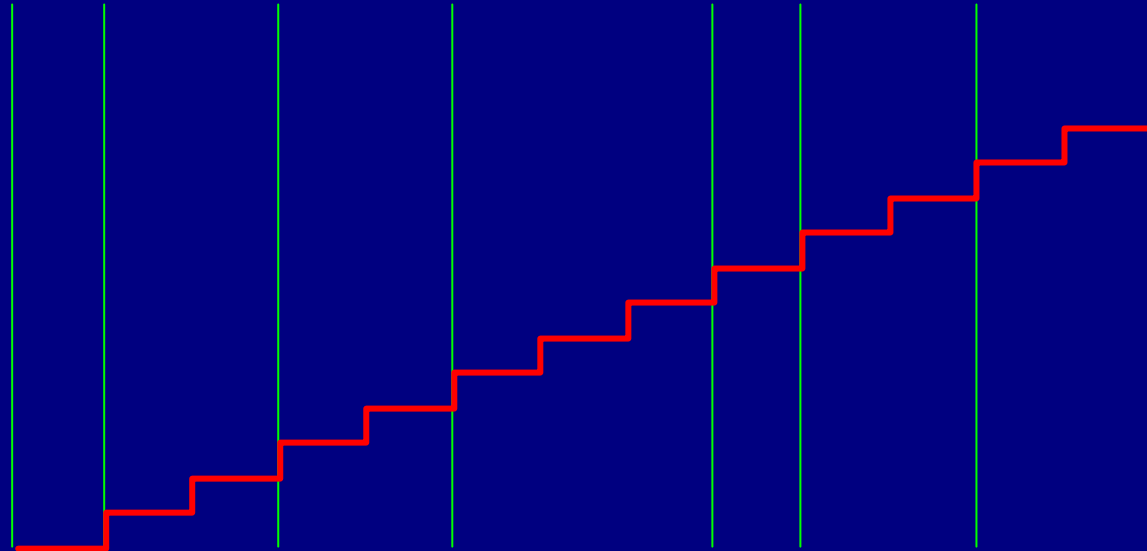
dS²



AN ENGINEERING APPROACH TO I.T.



dS²

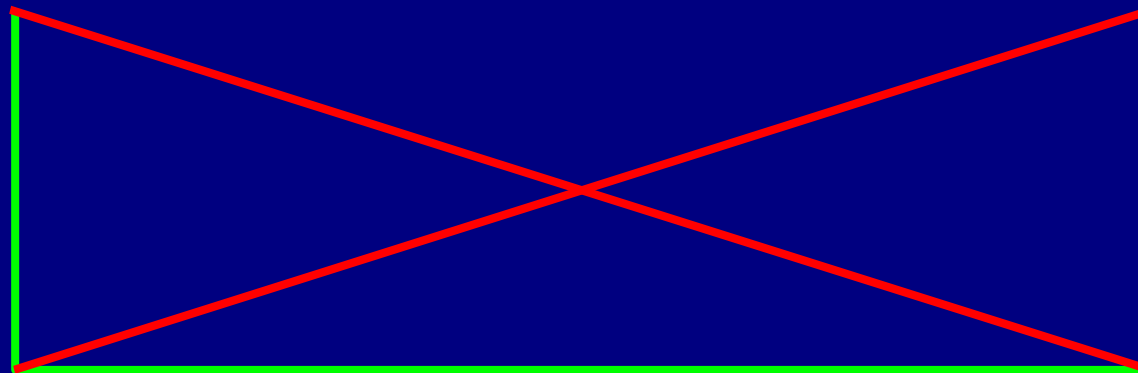


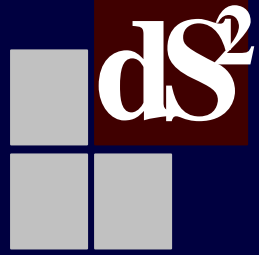
STRATEGY

TACTICAL

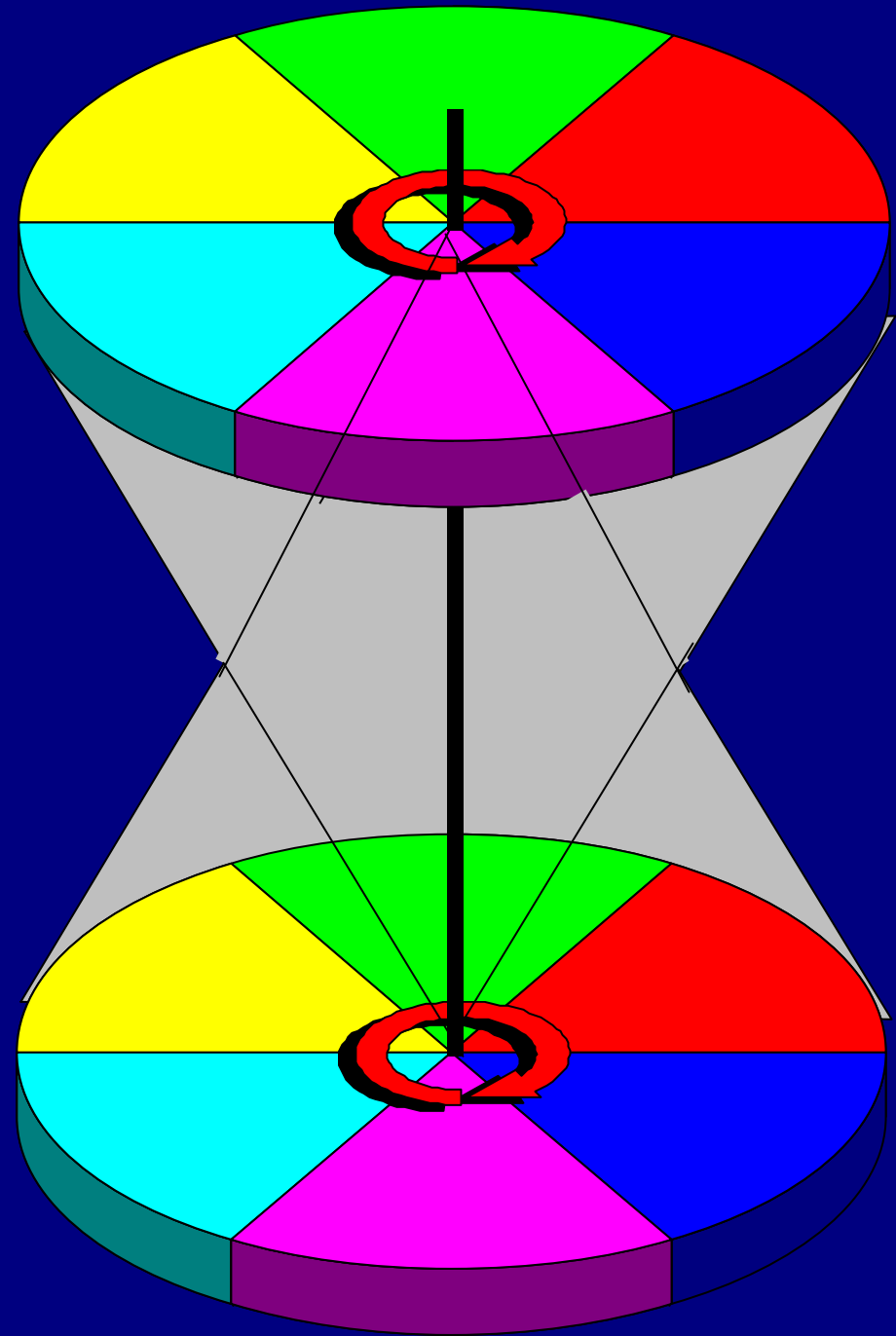
**Doing the
Right Things**

**Doing
Things Right**





TwoCONE^(c) MODEL





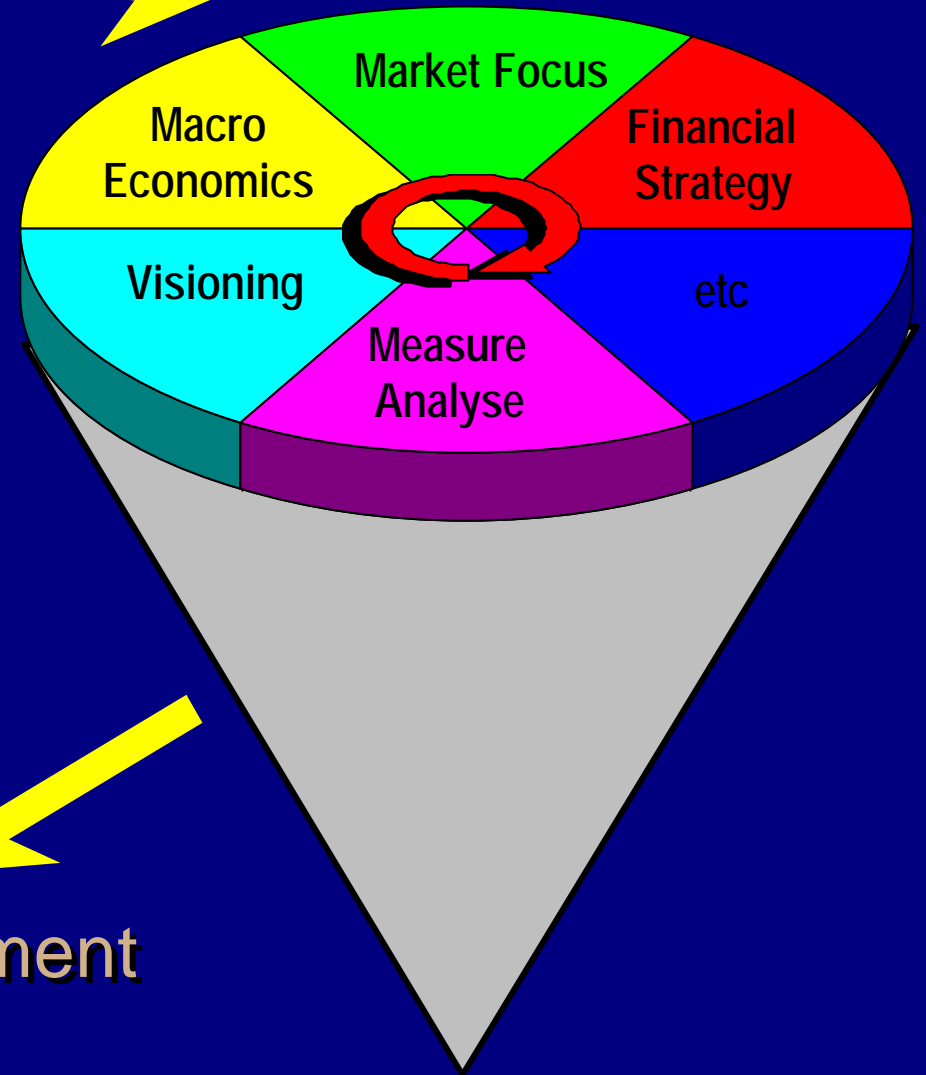
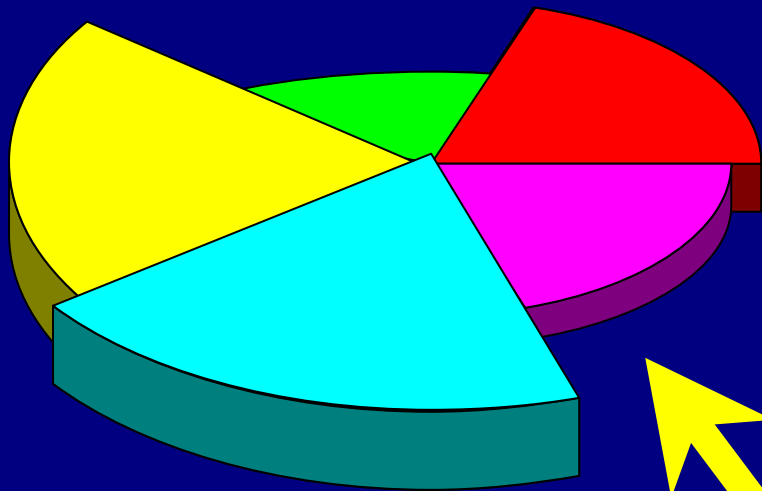
TOPCONE^(c)

DETERMINE & BALANCE STRATEGY

Strategic Planning

Balance Strategy

Determine current position



Plan & Implement

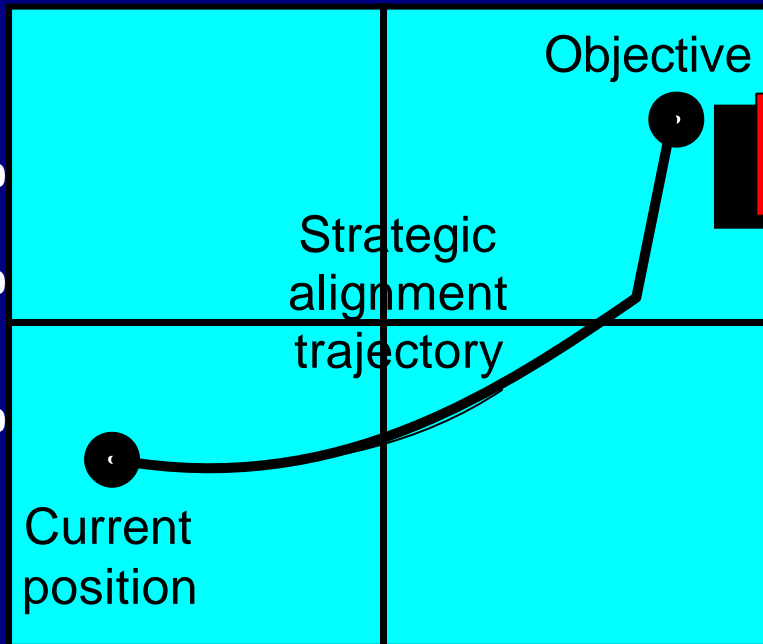




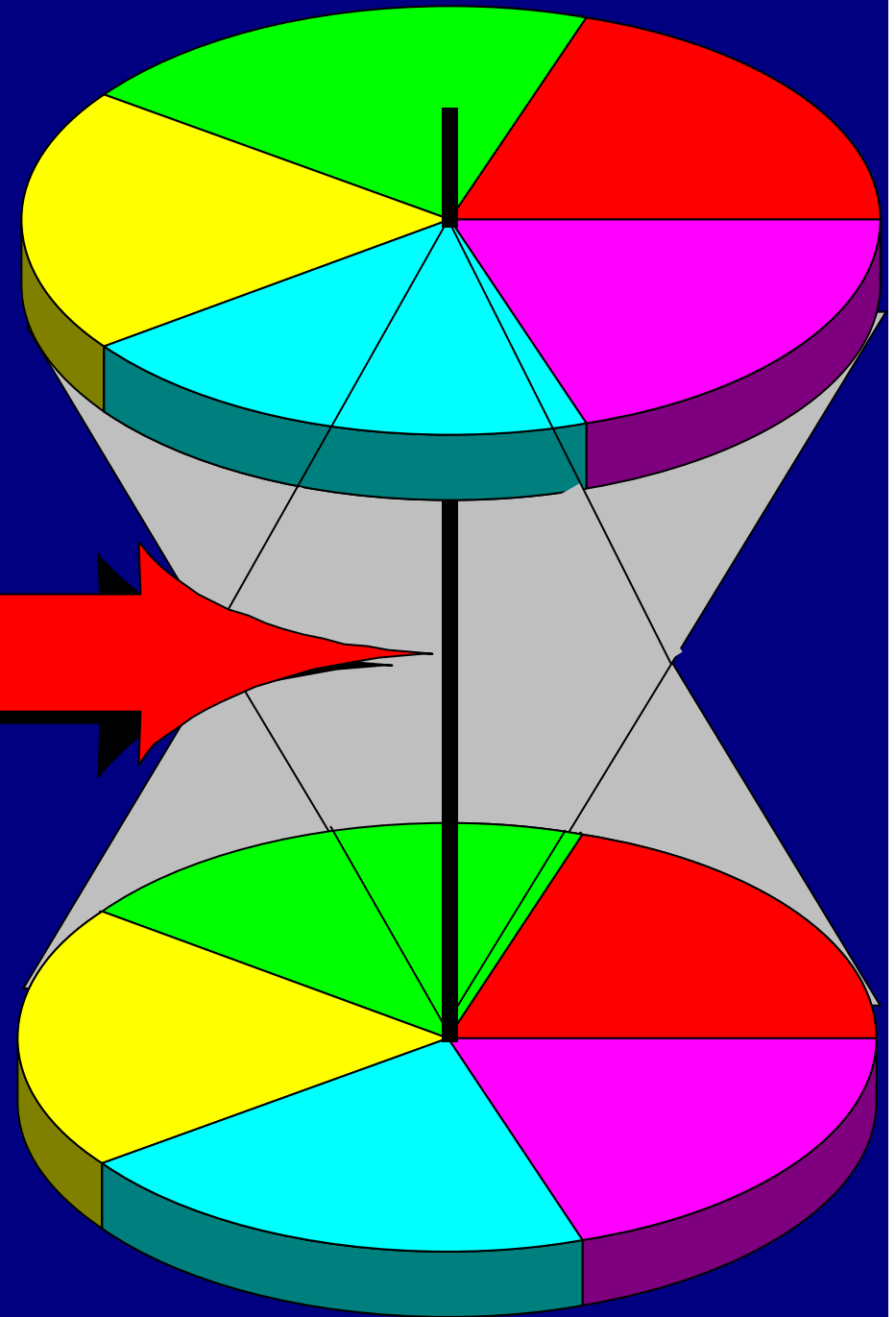
ALIGN OPERATIONS WITH STRATEGY

TwoCONE^(c)

Operational Alignment
Doing things right



Strategic Alignment
Doing the right things



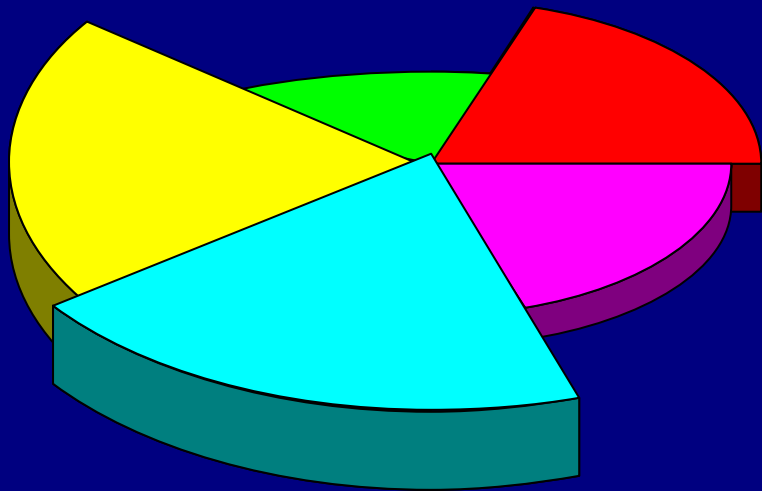


BOTTOMCONE^(c)

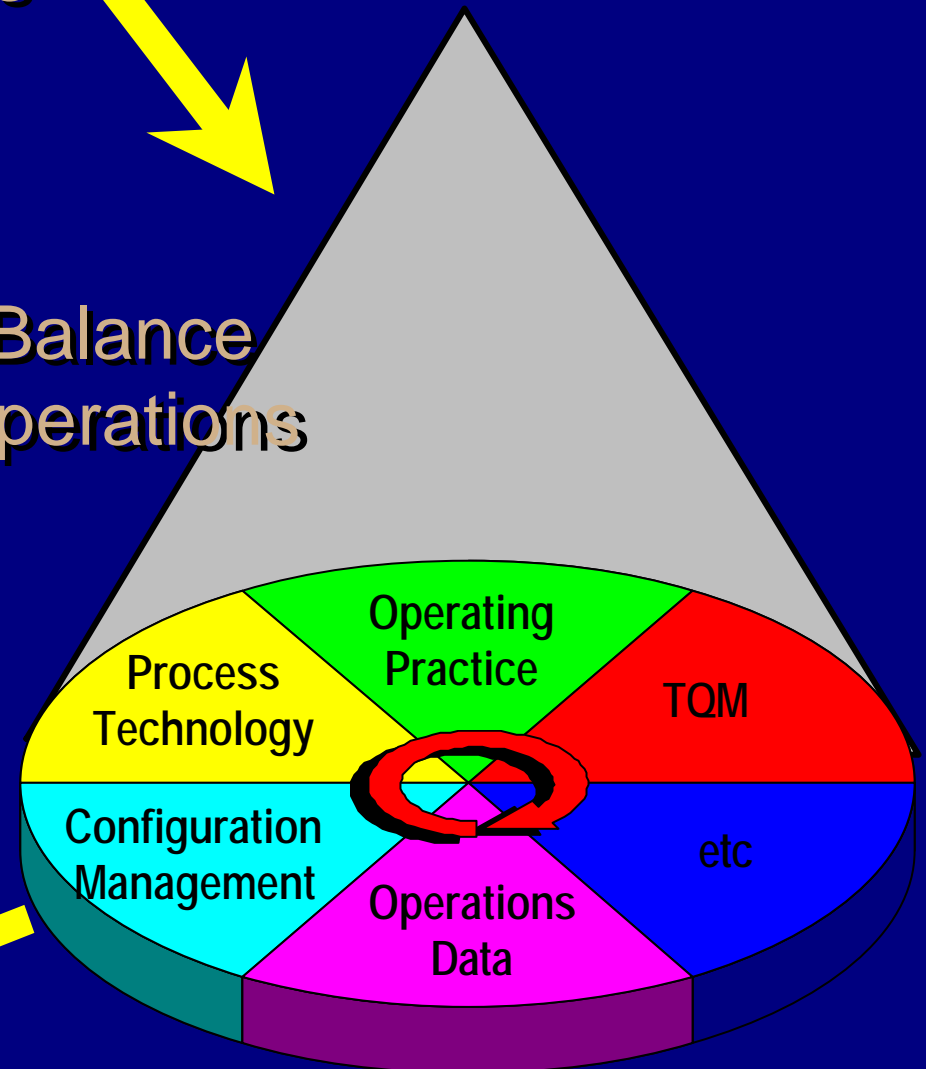
BALANCE OPERATIONS

Operations Analysis

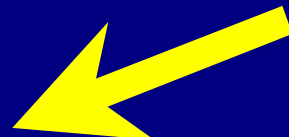
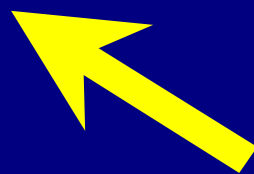
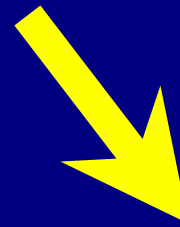
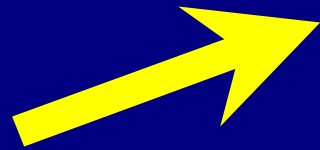
Determine current position



Balance Operations

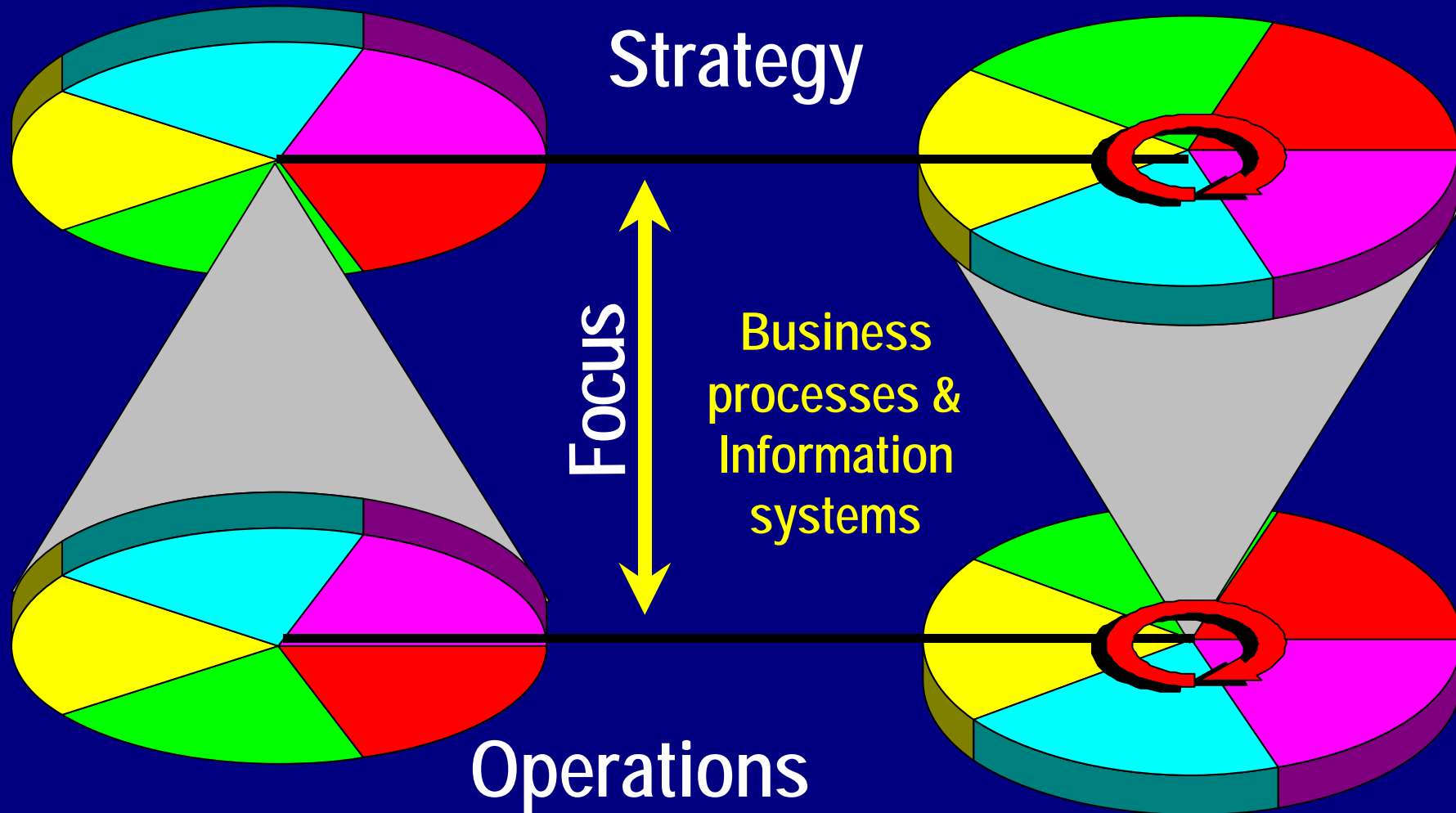


Plan & Implement





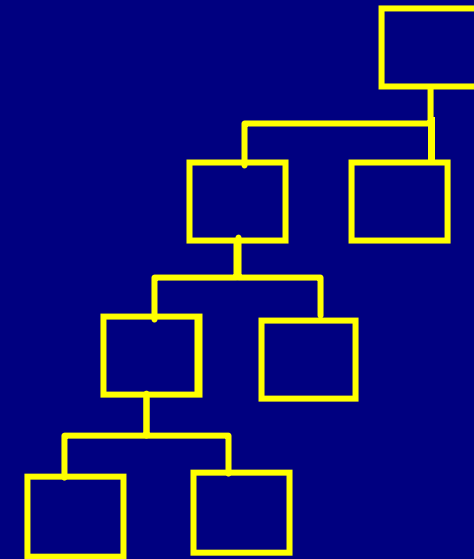
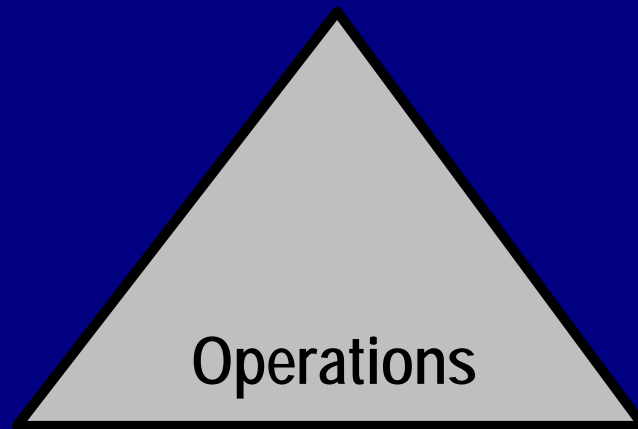
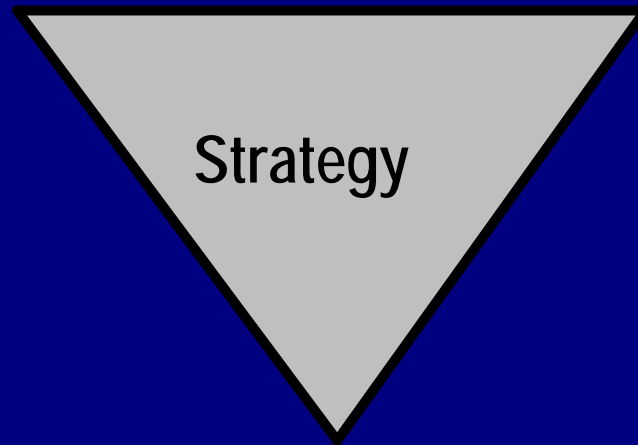
TwoCONE^(c) SYNCHRONIZE AND FOCUS OPERATIONS & STRATEGY



TwoCONE^(c)

UNFOCUSED ORGANIZATION

Focus



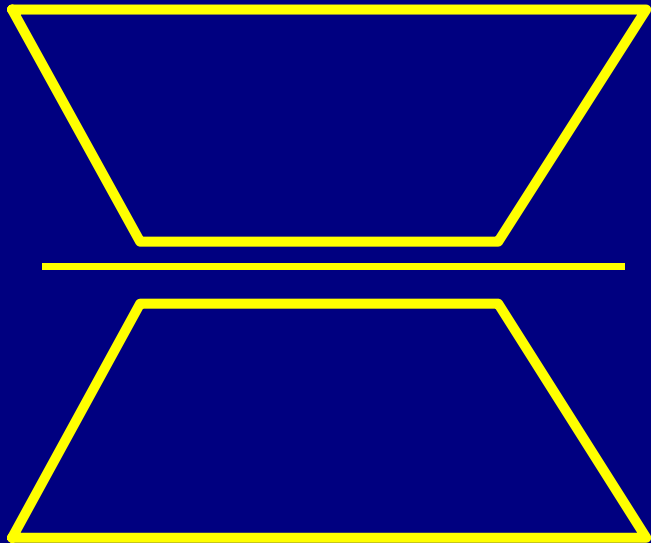
**Excessively layered
organizational structure**

- **Poor communications**
- **Low effectiveness**
- **Low efficiency**
- **Operations lag strategic Objective**



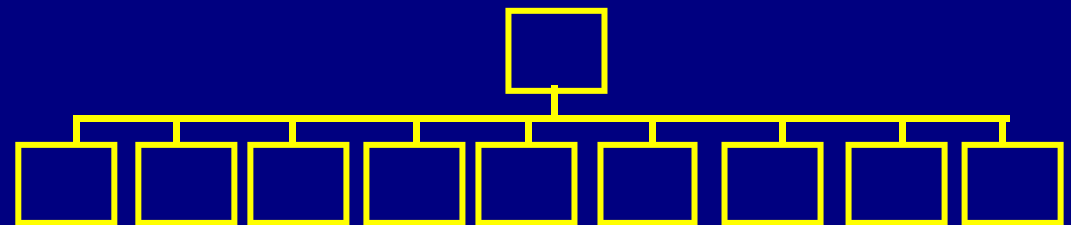
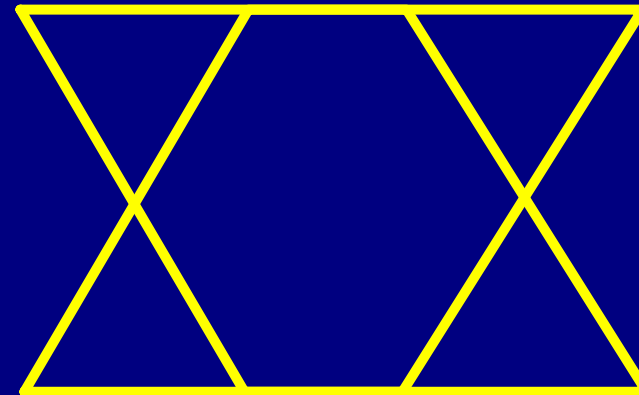
BUSINESS PROCESS & I.T. RELATIONSHIP WITH FOCUS

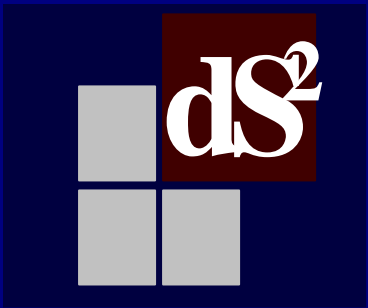
Process Reengineered
without IT



TwoCONE^(c)

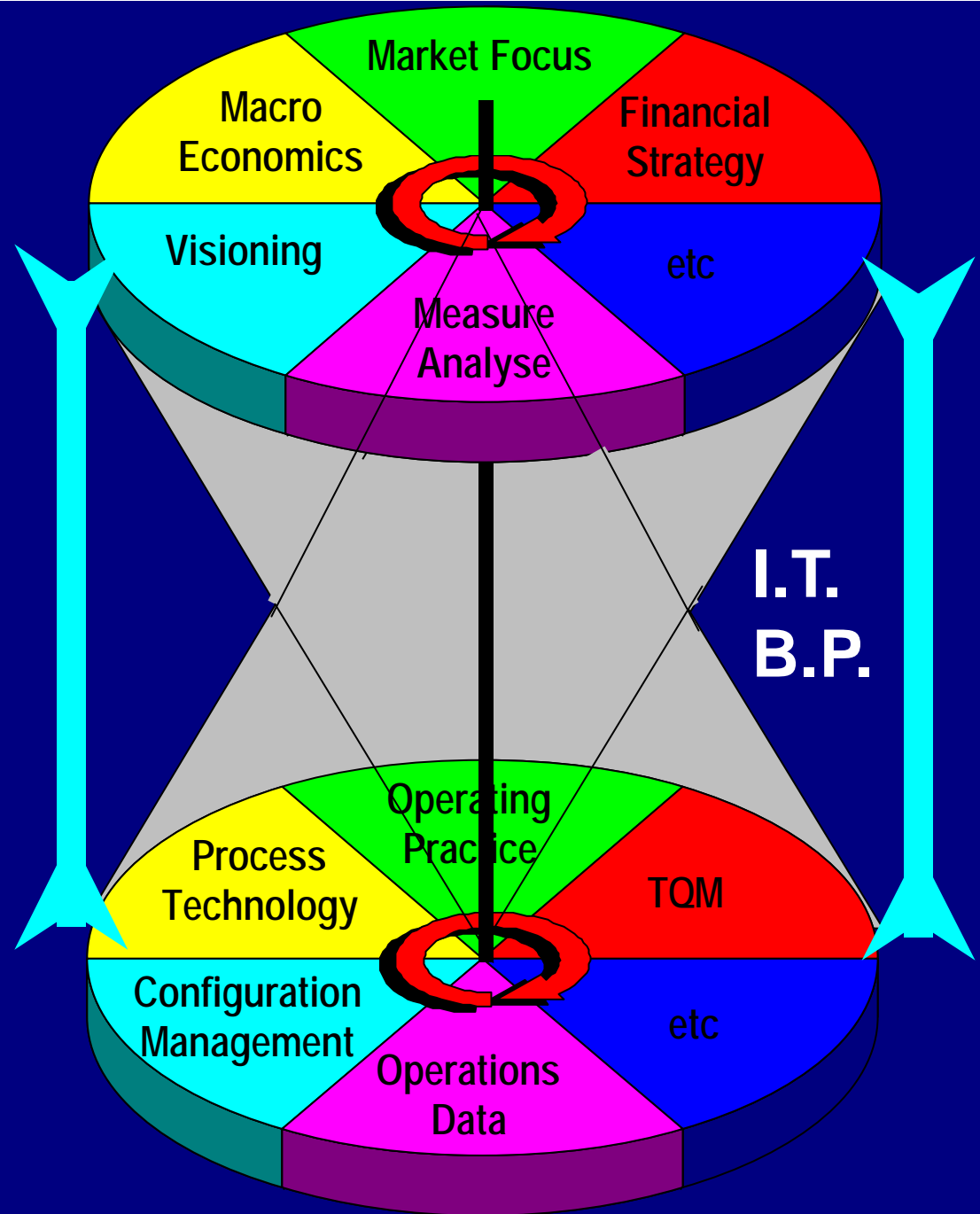
Sledge Hammer
Reengineering
(at any cost, recipe book)





TwoCONE^(c) END RESULT

*Fully Aligned, Balanced,
Synchronized & Focussed
Internationally Competitive
Organization !*



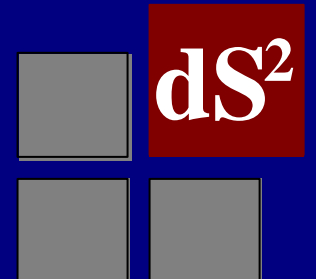
SHAPING THE FUTURE - INFORMATION TECHNOLOGY AND STRATEGIC CHANGE

CONCLUSION

The future requires radical strategic
adjustment

Information technology and business
process are critical enablers

The fundamental issue is people

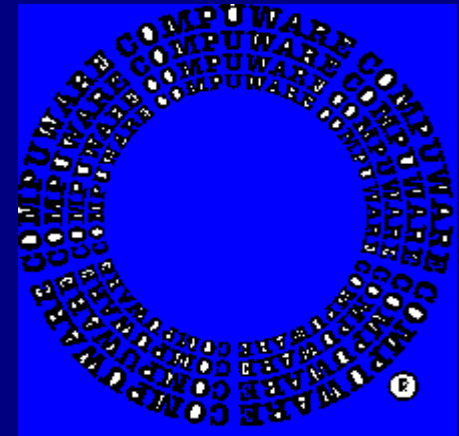
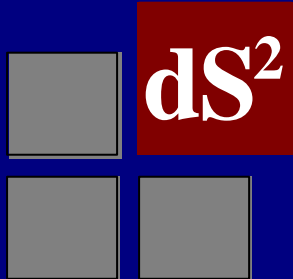


SHAPING THE FUTURE - INFORMATION TECHNOLOGY AND STRATEGIC CHANGE

CONCLUSION

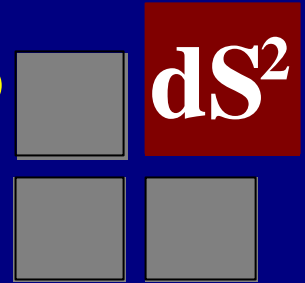
Any form of business improvement
must be Holistic

Integrated
and
Iterative



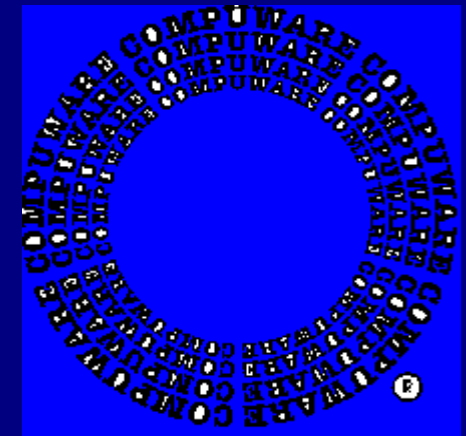
Radically different thinking is required

WHY 70% OF CORPORATIONS ARE DISSATISFIED AND HOW TO AVOID DISSATISFACTION



- Introduction
- Why corporations are dissatisfied : Business Issues
- Why corporations are dissatisfied : People Issues
- Why corporations are dissatisfied : I.T. Issues
- How to respond to the challenge
- **Conclusion**

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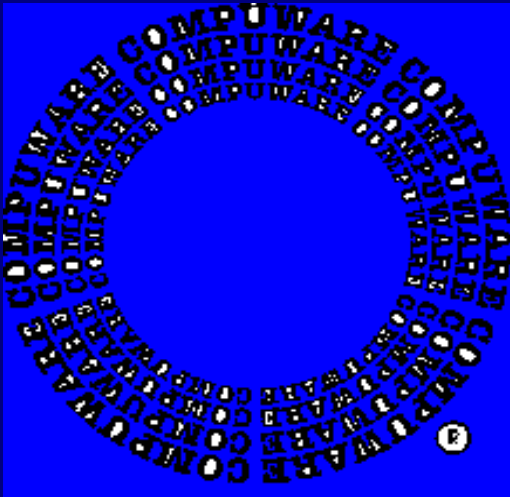
dS²



CONCLUSION

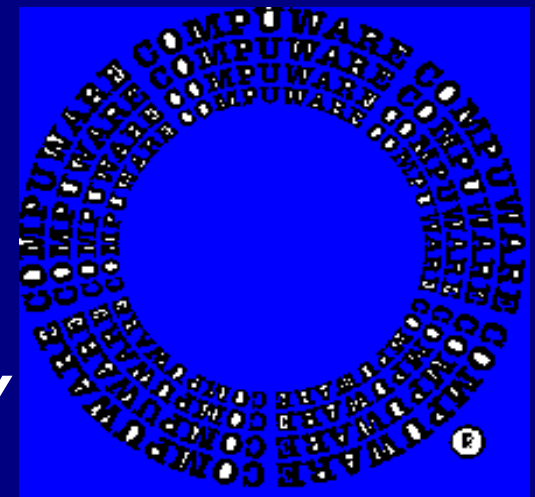


dS²



**THE CHALLENGE
IN LARGE SCALE
SYSTEMS DEVELOPMENT**

IS TO REMOVE TECHNOLOGY



AS A CONSTRAINT

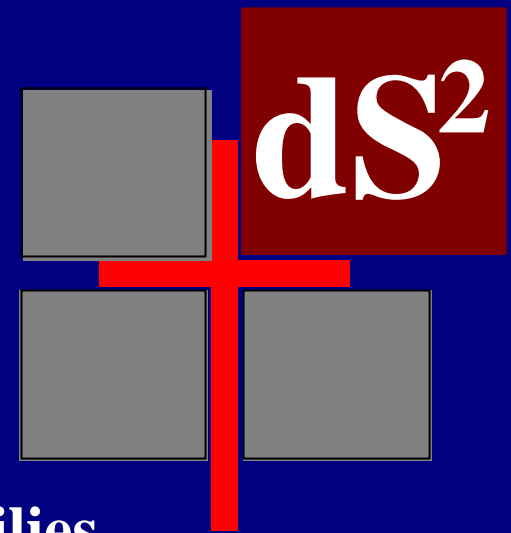
AND CONCENTRATE ON ADDING VALUE

**TECHNOLOGY IS ONLY AN ISSUE
WHEN IT DOES NOT DELIVER**

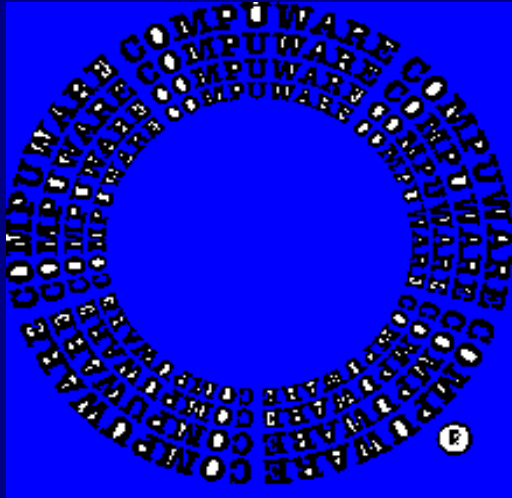
**DEDICATION
and
ACKNOWLEDGEMENTS**

I wish to acknowledge
the contributions and inputs of
all our clients, associates, staff and families
without whom the work
on which these ideas
are based would not have
been possible

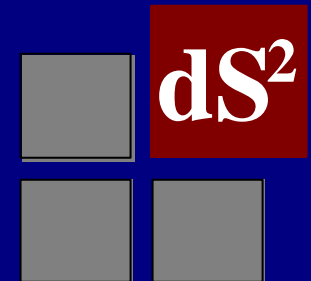
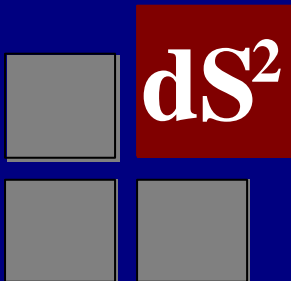
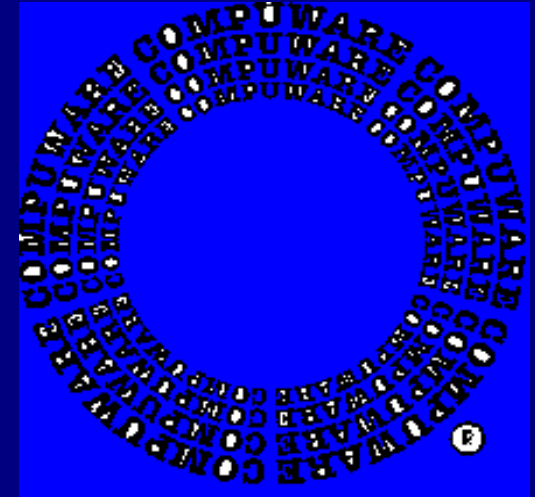
This presentation is dedicated to
The Glory of God
who is the source and reason for our existence
and
Jesus Christ His Son who is the only way to eternal life



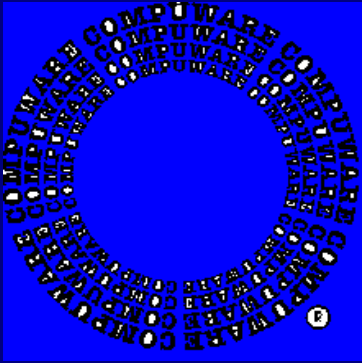
COMPUWARE EXECUTIVE FORUM, MUNICH, OCTOBER 1995



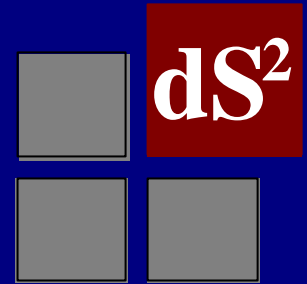
QUESTIONS ?



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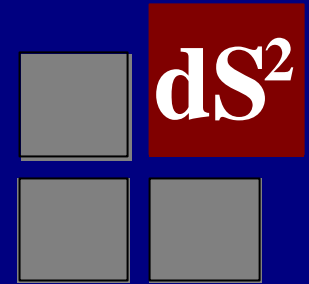


SUMMARY



THE FOLLOWING SLIDES WERE NOT
PRESENTED BUT ARE INCLUDED FOR
REFERENCE TO SUMMARIZE SOME OF THE
KEY POINTS OF THE PRESENTATION

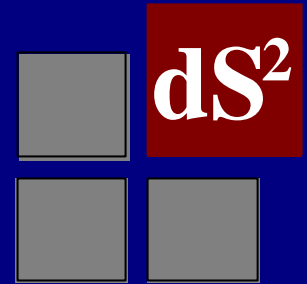
SUMMARY : BUSINESS ISSUES



- Recognize the Executive Perspective
- Obtain the Executive Perspective
- If there is no Executive commitment at an early stage expect problems

I.T. IS AN EXECUTIVE RESPONSIBILITY

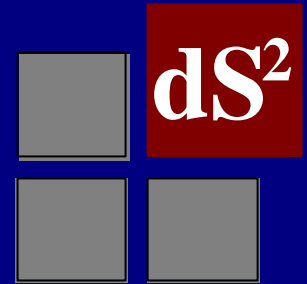
SUMMARY : BUSINESS ISSUES



- Focus on strategic advantage (doing the right things)
- Avoid formulating I.T. strategy suggested by people who are talking tactically
- Appoint long term thinking, future focussed I.T. Professionals and suppliers
- Using technology to create and sustain competitive advantage implies some discomfort

I.T. INVESTMENT SHOULD BE STRATEGICALLY FOCUSED

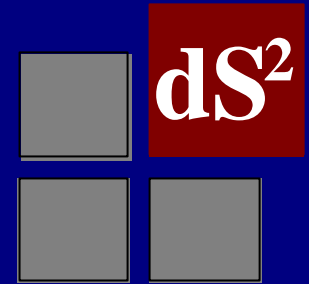
SUMMARY : PEOPLE ISSUES



- Beware of people who expect to get a good solution that is both fast and cheap
- Recognize that computer products and solutions are abstract
- Use physical metaphors (examples) to help management & users to visualize what they are getting and better appreciate the value

**PEOPLE ARE THE MAJOR REASON THERE ARE
PROBLEMS WITH I.T.**

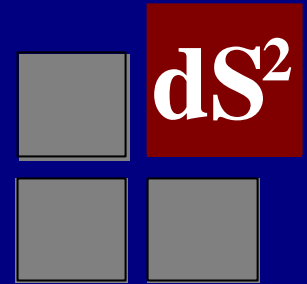
SUMMARY : PEOPLE ISSUES



- People take decisions, not computers
- Avoid talking about I.T. projects as if it they take decisions
- I.T. Management who talk about technology and projects as though they will make decisions may not understand the decision that they are required to make

**PEOPLE ARE THE MAJOR REASON THERE ARE
PROBLEMS WITH I.T.**

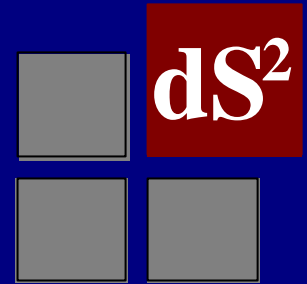
SUMMARY : PEOPLE ISSUES



- Innovative integrated solutions give rise to BPR
- Do not appoint someone whose job will be lost if the solution works to a key position of a project team
- Executives must understand the paradigm chasm and the need for managing change. If they do not they will be part of the problem and not part of the solution

**PEOPLE ARE THE MAJOR REASON THERE ARE
PROBLEMS WITH I.T.**

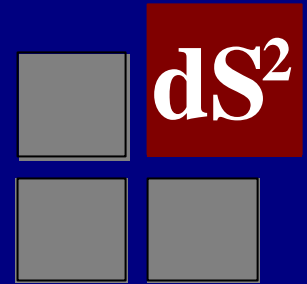
SUMMARY : I.T. ISSUES



- Where ever possible retain, build on and leverage existing investments
- Avoid demolition solutions unless they are really required.
- Be aware that no matter how good the product, it will fail without good analysis and design

**TECHNOLOGY IS ONLY AN ISSUE
IF IT DOES NOT DELIVER**

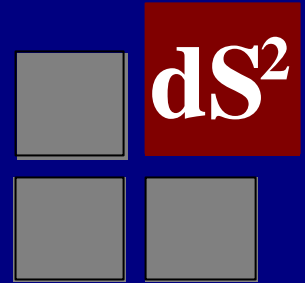
SUMMARY : I.T. ISSUES



- Continuous change in I.T. policy or strategy is indicative of a more deep seated problem in the business
- Avoid treating symptoms, treat fundamental problems

**TECHNOLOGY IS ONLY AN ISSUE
IF IT DOES NOT DELIVER**

SUMMARY



THE END