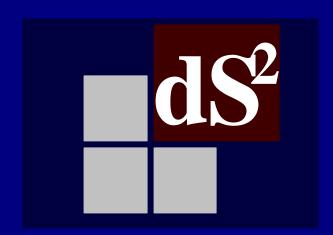
#### FINANCIAL INFORMATION SYSTEMS CONFERENCE

# INFORMATION ARCHITECTURE AND DESIGN OF FIS: RENNIES GROUP LIMITED CASE STUDY

**Kerstin Speer CA(SA): Group Financial Manager RENNIES GROUP LIMITED** 





Dr James A Robertson PrEng: Managing Director

**DIFFERENTIATED STRATEGIC SOLUTIONS (Pty) Ltd** 



### INFORMATION ARCHITECTURE AND DESIGN OF FIS: RENNIES GROUP LIMITED CASE STUDY



- Introduction
- What Should FIS Strategy Entail
- Rennies Group Implementation Considerations
- Information Architecture & Design of RRS Master Chart of Accounts
- How Rennies Group has Integrated Existing Systems
- Benefits of Implementing FIS
- What has Rennies Group Limited Gained from FIS
- Conclusion



#### **INTRODUCTION**



- Strategically focused FIS defined by Robertson in 1994: "Identifying Your Key Business Objectives to Develop a Co-ordinated FMIS Strategy That Meets Your Specific Needs" (Robertson 1994)
- Decided to introduce into "Rennies Reporting System (RRS)" as soon as possible



### INTRODUCTION RENNIES REPORTING SYSTEM



- Group wide consolidation and reporting system
- Uses Hyperion
- Consolidate information from approximately
   220 operations in Group to Group Head Office
- Support Group Reporting Requirements and overall business strategy



### INTRODUCTION RENNIES REPORTING SYSTEM



- Commercial software
- Client-server database
- Emphasis in this paper is NOT technology

THE ISSUE IS BUSINESS AND PEOPLE NOT TECHNOLOGY



### INTRODUCTION RENNIES REPORTING SYSTEM



- The issue is business and people NOT technology
- This paper concentrates on business information architecture
- Focus attention on business design issues surrounding use of I.T. in general
- FIS in particular



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#### STRATEGY vs TACTICS: A DEFINITION





Different and better every day!

Tactics
Doing Things Right





Strategy

Doing The Right Things

#### **STRATEGY vs TACTICS:**

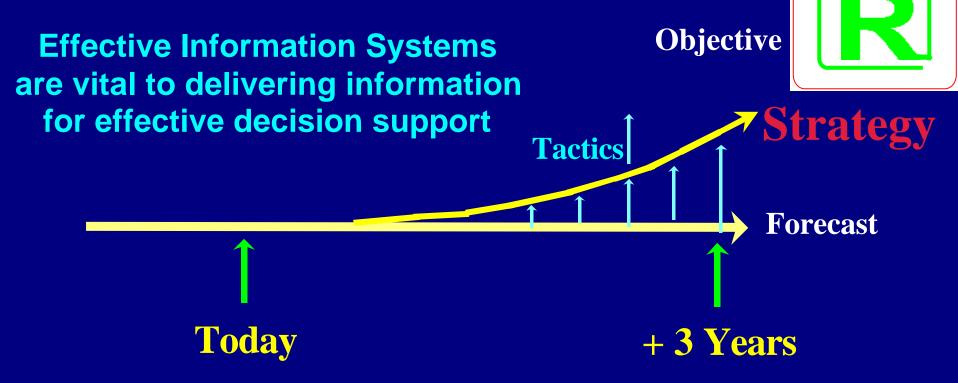


THERE IS NO POINT
IN EXECUTING A PERFECT LANDING
ON AN AIRCRAFT CARRIER
THAT IS ABOUT TO HIT AN ICE BERG





### WHAT IS THE STRATEGIC PLANNING PROCESS?

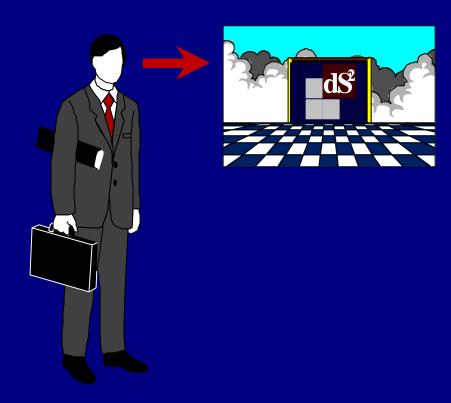


**DESIGN RRS FOR THE FUTURE** 



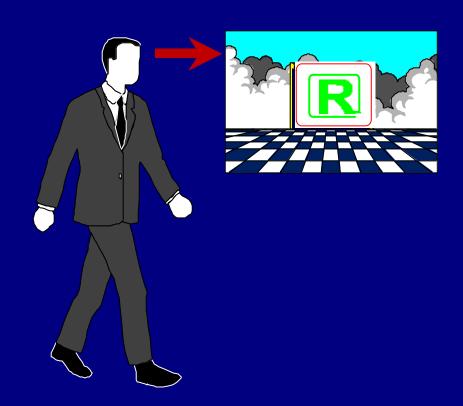
Invest in strength for tomorrow!

#### Strategy is Determined by Looking to the Future



**Design your IT systems for Tomorrows Requirements!** 

#### With Vision



### BUSINESS STRATEGIC ALIGNMENT: DEFINE THE PICTURE



ASSIST MANAGERS TO CREATE AND SUSTAIN COMPETITIVE ADVANTAGE

#### THE KEY RRS DESIGN REQUIREMENT



# DESIGN RENNIES REPORTING SYSTEM FOR TOMORROW'S REQUIREMENTS

TOO MANY SYSTEMS ARE DESIGNED FOR YESTERDAYS REQUIREMENTS AND TO COMPLY WITH YESTERDAYS SYSTEMS!





#### **FIS STRATEGY**



(Robertson 1994)

- Determine business strategic objectives
- Determine financial information required to support strategic objectives
- Determine financially related business concepts to introduce (EVA, ABFM, IA, etc)
- EVA program with Stern Stewart already underway

THE VISION OF RGL: HAS COMMITMENT OF MANAGEMENT



#### **FIS STRATEGY**



(Robertson 1994)

- Evaluate fundamental changes to current financial operating procedures & systems
- First principles analysis of:
- Coding
- Business model (ownership)
- Up-stream & down-stream controls
- Implementation (system acceptance)

THE VISION OF RGL: HAS COMMITMENT OF MANAGEMENT



#### FIS STRATEGY



(Robertson 1994)

- Evaluate need for:
- Multiple linked ledgers (accrual)
- Overlay ledgers
- Develop a culture of future focused management
- Consider the corporate command centre or paperless board meeting

THE VISION OF RGL: HAS COMMITMENT OF MANAGEMENT

#### RRS STRATEGY



- Business model for smallest business entity
- First principles analysis of:
- Coding
- Business model (ownership)
- Up-stream & down-stream controls
- Implementation (system acceptance)
- Universal applicability of chart of accounts



#### **RRS STRATEGY**



- Consistent design to support management enquiry
- Overlay ledgers
- EVA
- Future focused management support
- Comparative reporting down as well as up
- Slice and dice analysis



**Learning Organization** 



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- Undertaken as extension of existing project already underway
- Clearly defined strategic objectives as customer focused service organization
- Stern Stewart & Co appointed to implement EVA programme
- RRS software (Hyperion) already selected
- Project plan in place





- Initially limited scale
- Emphasis on first principles analysis of information classification and coding of consolidation ledger
- Support great diversity of businesses:
- Rennies Travel
- Rent a Bakkie
- Renfreight
- XPS
- Manica (Southern & Central Africa)





- Basic consideration of business model concept and definition of overlays (will constitute a later phase)
- Multiple Pilot Site implementation in terms of original project plan, managed by Group Information Services
- This presentation concentrates on Group Consolidation Master Chart of Accounts to support full diversity of operations





#### REQUIRE CONSOLIDATION OF INFORMATION





### POTENTIAL COMPONENTS OF HYPERION MODEL



- First stage rolled out in January 95 was Financial General Ledger
- Consolidation model in progress
- Other items to follow in due course

OTHER INFO

DEBTORS CREDITORS

FINANCIAL GENERAL LEDGER



NON-FINANCIAL





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### INFORMATION ARCHITECTURE AND

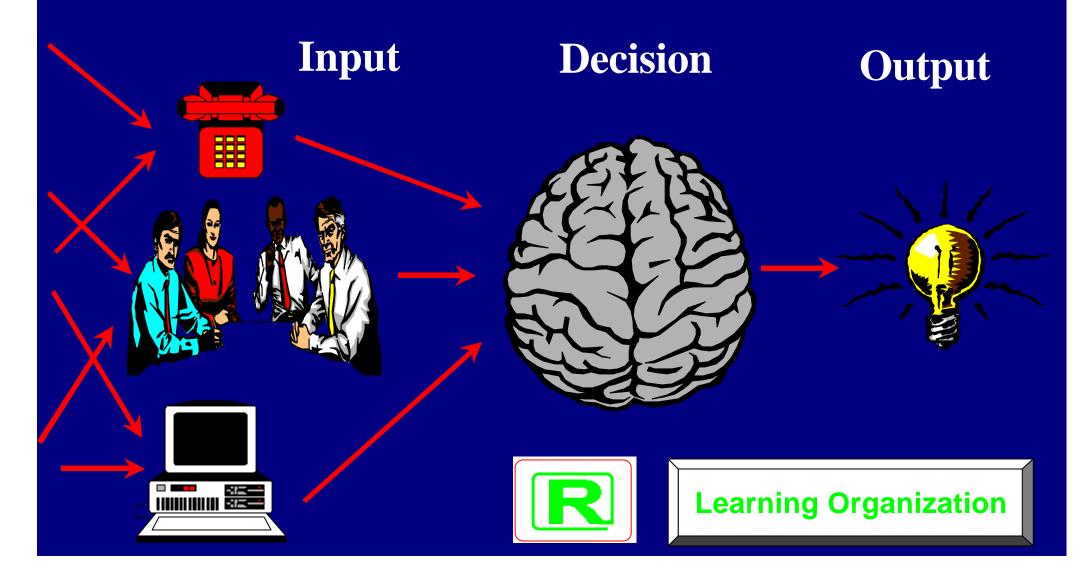


#### DESIGN OF RRS MASTER CHART OF ACCOUNTS

- Design undertaken by way of a series of workshops with senior financial and operational management of larger divisions and companies within RGL
- Particular emphasis on widespread consultation with senior end users
- Focus on long term solution



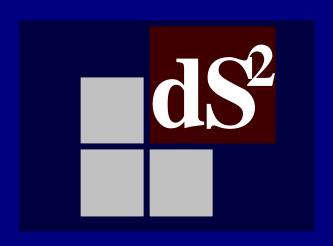
#### THE INFORMED DECISION PROCESS



### THE DECISION SUPPORT SYSTEM **INFORMATION PYRAMID DECISION MAKING** Requires PRESENTATION Management Input & ANALYSIS CONSOLIDATION **INTEGRATION OPERATIONAL SYSTEMS**

#### INFORMATION CLASSIFICATION

### THE SINGLE BIGGEST REASON WHY I.T. INVESTMENTS FAIL







#### INFORMATION CLASSIFICATION

#### THE SINGLE BIGGEST REASON WHY I.T. INVESTMENTS FAIL

- What is Information Classification
- Why is it so important
- How did we do it



**Learning Organization** 

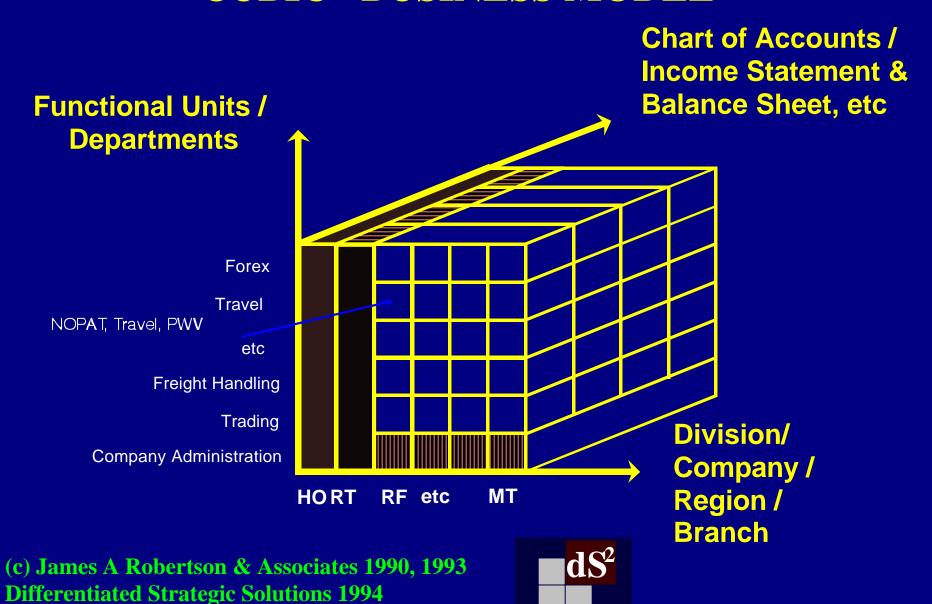


### BUSINESS MODEL CONSIDERATIONS THAT FORM THE BASIS OF THE DESIGN

- All information should be allocated according to a business model
- All information can be posted without ambiguity
- Post directly and uniquely
- Only one owner of each cell

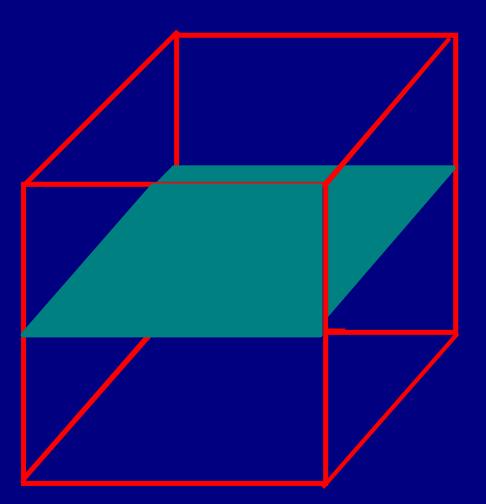
WITHOUT UNAMBIGUOUS OWNERSHIP THERE IS NO ACCOUNTABILITY

### MULTIDIMENSIONAL, MULTI LAYERED "CUBIC" BUSINESS MODEL



# THE BUSINESS MODEL WILL ENABLE US TO SLICE AND DICE THE FINANCIAL INFORMATION IN RRS

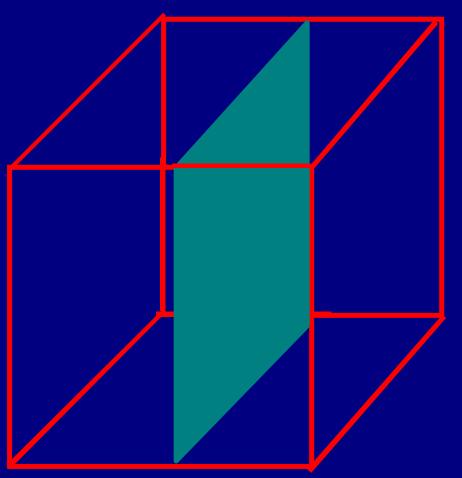




Slice and dice in any direction

# THE BUSINESS MODEL WILL ENABLE US TO SLICE AND DICE THE FINANCIAL INFORMATION IN RRS

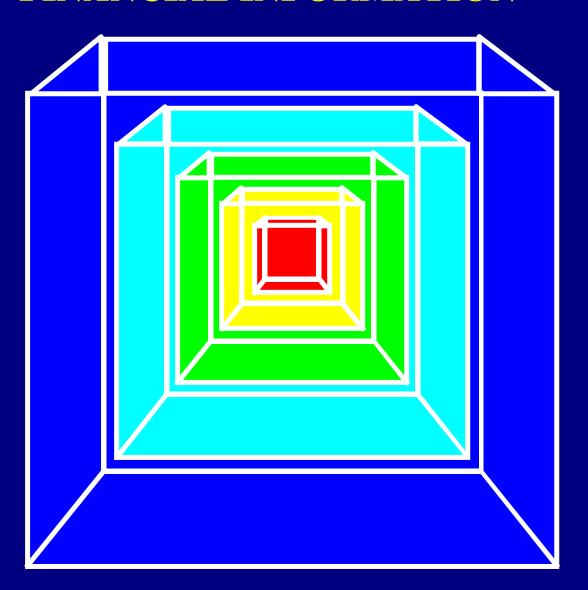




Slice and dice in any direction

### SLICING AND DICING THE FINANCIAL INFORMATION

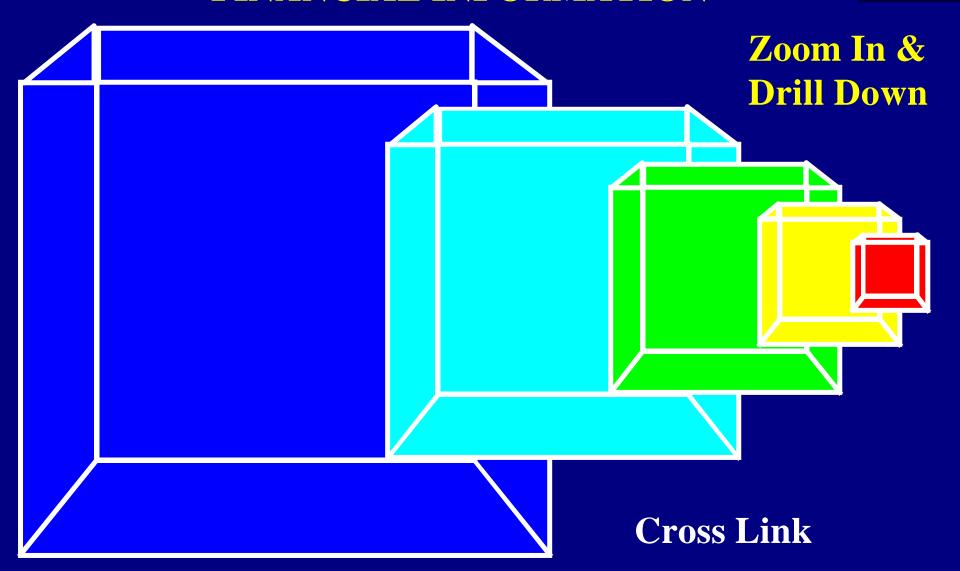




**Zoom In** 

### SLICING AND DICING THE FINANCIAL INFORMATION









# BUSINESS MODEL CONSIDERATIONS THAT FORM THE BASIS OF THE DESIGN

A well defined and maintained model

gives every manager and supervisor

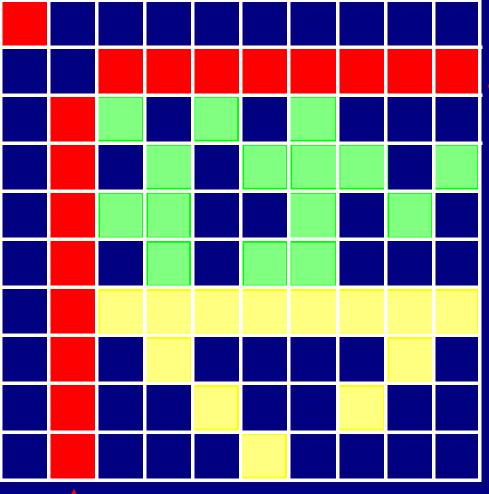
unambiguous ownership and therefore

accountability and responsibility for each unit

WITHOUT UNAMBIGUOUS OWNERSHIP THERE IS NO ACCOUNTABILITY

## ORGANISATION SPECIFIC LOCATION & FUNCTION INDEPENDENT





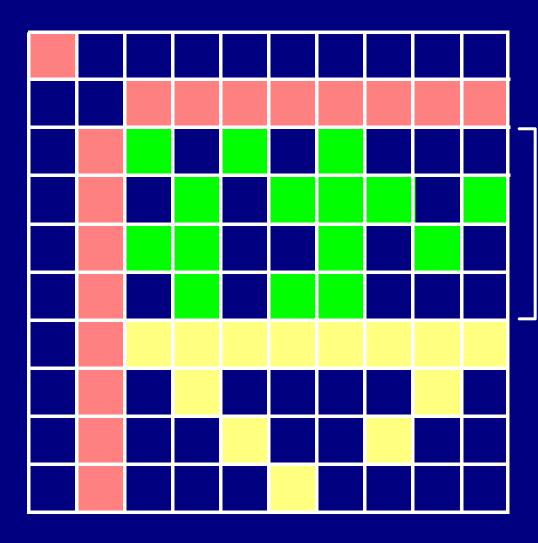
LOCATION SPECIFIC & FUNCTION INDEPENDENT

COMPANIES / PHYSICAL LOCATIONS / STRUCTURES eg,

LOCATION SPECIFIC & FUNCTION INDEPENDENT

CAPE TOWN OFFICE (CO. 1)
SPRINGS FACTORY (CO. 2)
SPRINGS WAREHOUSE (CO. 2)
ETC.





**CORE BUSINESS UNITS** 

COMPANIES / PHYSICAL LOCATIONS / STRUCTURES eg,

CAPE TOWN OFFICE (CO. 1)
SPRINGS FACTORY (CO. 2)
SPRINGS WAREHOUSE (CO. 2)
ETC.

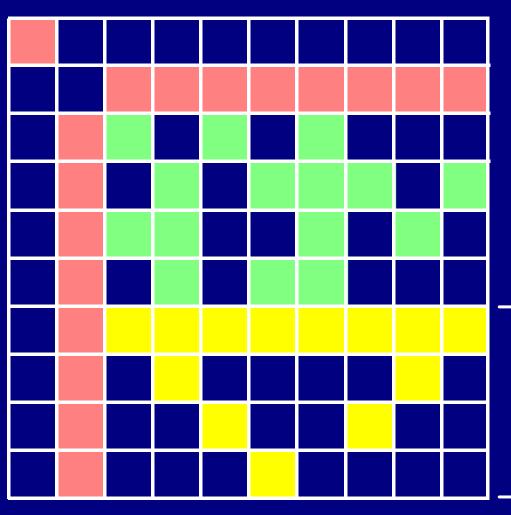


**FUNCTION / DEPARTMENT eg,** 

MANAGEMENT FINANCE PRODUCTION ETC.

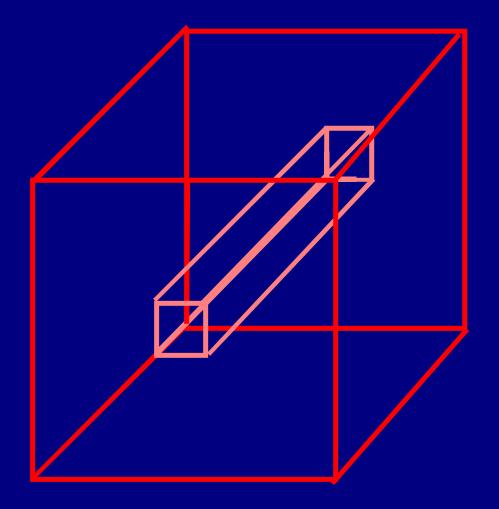
COMPANIES / PHYSICAL LOCATIONS / STRUCTURES eg,

CAPE TOWN OFFICE (CO. 1)
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SPRINGS WAREHOUSE (CO. 2)
ETC.



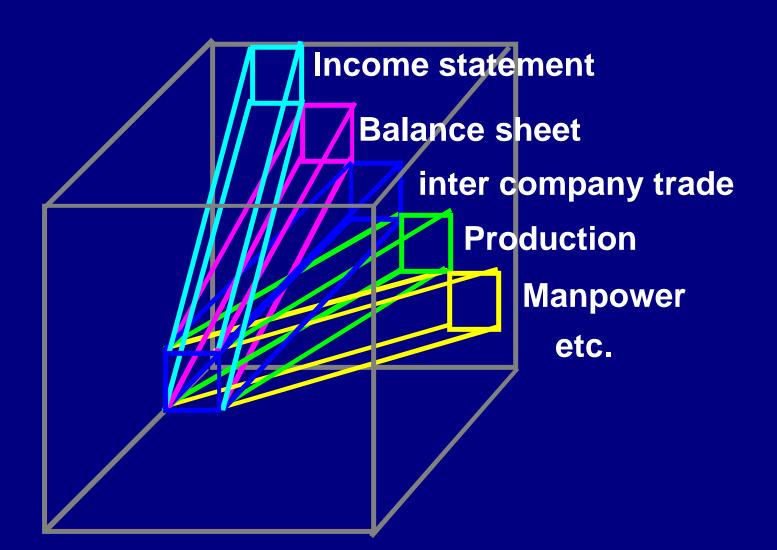
SUPPORT AND ADMINISTRATIVE UNITS





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









- Development of clear understanding of diversity of businesses
- Business unit independent definitions of Revenue and Cost Drivers
- Ensure general applicability irrespective of organizational structure
- Highly structured classification scheme





- Support for both disbursement and expense orientated operations
- Framework for monthly, year-end, tax, management and EVA reporting
- Clear conceptual understanding of future business model





- Conceptual definition of framework for:
- Inter-Region
- Inter-Branch
- Inter-Subsidiary
- for later implementation
- Framework for market sector input-output model at financial level
- e.g. nett trade with particular major
- organization





- Solution suitable for "Cascading" to:
- Divisions
- Operating Companies
- Individual SBU's
- Capable of replacing existing charts of accounts at operating Co and SBU level.
- Foundation for EIS





#### RESULTS OF DESIGN PROCESS

Enable Group Finance to add Considerable
 Value to individual operating companies





#### **DESIGN PROCESS**

- Information architecture analysis and design spread over approximately two months
- High level of involvement of Group Financial Manager (Kerstin), Project Manager and Consultant as well as the rest of the team
- Ten workshops (2 to 8 hours)
- Continuous liaison and project team meetings



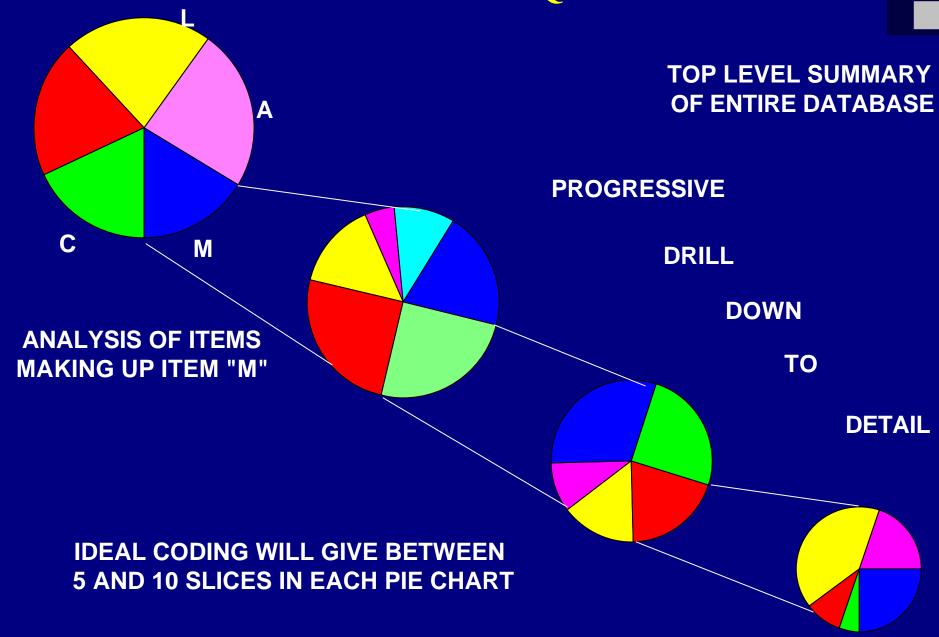


#### PRINCIPLES APPLIED

- Structured chart of accounts
- Hierarchical
- Presentation conventions

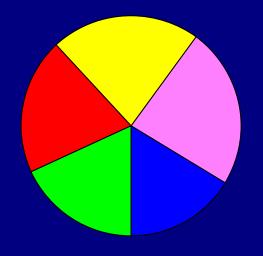
## HIERARCHICAL DATA ENQUIRY CONCEPT







# 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

## NEW GL DESIGN eg RENNIES TRAVEL



- HANDLING CHARGES
- Cargo handling
- AGENCY
- Sea
- Air
- Rail
- MARGIN
- Forex Margin
- Freight Margin

- COMMISSIONS
- Air
- International
- Domestic
- Charter
- Other
- INCENTIVES
- FEES



**BOLD TEXT APPLIES TO RENNIES TRAVEL** 

### NEW GL DESIGN eg RENFREIGHT



- HANDLING CHARGES
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### **NEW GL DESIGN**



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- Other
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- FEES



UNDERLINE is common, RENNIES TRAVEL, RENFREIGHT





Without
Effective
Information Classification
You Can Do Everything Else Right
and
"The System"
will Still Fail To Deliver
on Expectations





#### **END RESULT**

- Consolidation chart of accounts with approximately 700 posting level accounts
- Suitable for implementation across the entire group



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# CONSOLIDATION PROCESS IN HYPERION

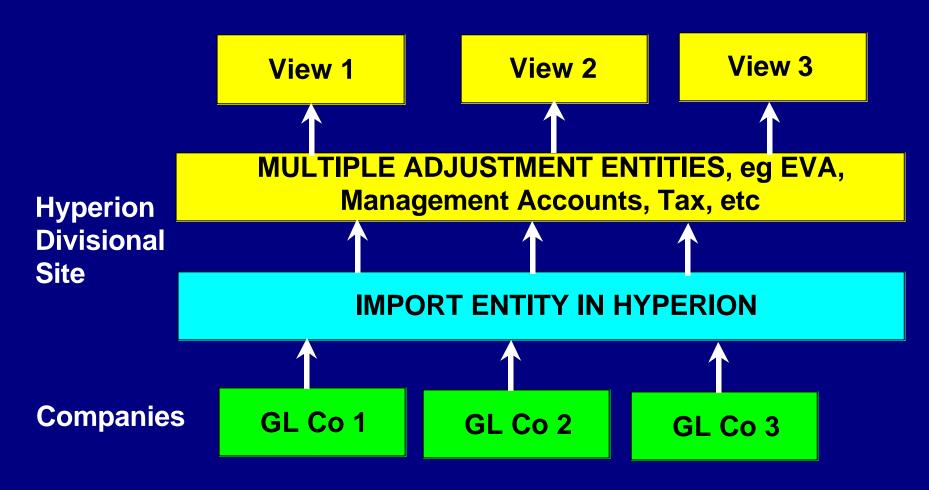
- Draw information out of existing ledgers
- Unique mapping for each company's general ledger
- Enables adjustments to be made
- Allows EVA and other adjustments to be made as overlays



# CONSOLIDATION PROCESS IN HYPERION



#### FIRST PHASE IS FINANCIAL GENERAL LEDGERS ONLY







- Existing general ledger charts of accounts mapped onto master consolidation chart by paper mapping facilitated by project team
- ASCII up-load files from existing systems in Hyperion format
- Direct link by way of account conversion and name conversion tables





- Upload data used as building blocks, groups of accounts:
- Income statement
- Balance sheet
- Flow accounts
- Balance and control
- Non-Financial and Derived, including
- EVA





- Basic business entity model has been implemented at Divisional Level
- Separate input and adjustment entities
- Input ledgers in currency of origin, forex translation at appropriate point
- Reporting using tool and also dynamic link to Excel





- Currently busy with further deployment
- Detail business modelling, market modelling, geographic analysis and EIS will commence later this year
- Effective integration made possible by structured classification scheme
- Accommodates different accounting treatments and harmonizes



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- Will only run live in July but currently being used for budgeting
- Anticipated benefits include improved turnaround of :
- Tax statements (save three weeks)
- Year end pack (save two weeks)
- save reconciliation and manual
- reprocessing across the group
- Three days per month end





- All operations have been able to map on to consolidation chart of accounts successfully
- Some entities has some difficulty
- Certain tangible benefits experienced at sites where enthusiastic and proactive involvement by financial management and the executive has resulted in full potential being realized





### CASE 1:

- Moved management reporting off existing bureau
- Greatly improved reporting while still in pilot phase
- Resulting time saving from ease of use, used in more detailed analysis in support of management effectiveness
- Expected improvement in decision making with regard to branch viability and competitiveness
- Increased market share is projected





### CASE 2:

- One to one link between existing GL and RRS
- Created a powerful reporting tool which is fully exploited
- Reporting by profit centre, region, product type and executive is simple and flexible
- User is empowered in preparing financial information





- In flagship cases:
- Group Finance is seen to have added value to the operations of the group
- This demonstrates the potential synergy of a forward thinking Group Finance Function which anticipates decision support information needs of subsidiaries



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# WHAT RENNIES GROUP LIMITED HAS GAINED FROM FIS



- Benefits previously discussed have been achieved
- A platform has been installed to support a wide variety of value adding services to be delivered by Group Finance and financial management of operations



# WHAT RENNIES GROUP LIMITED HAS GAINED FROM FIS A PLATFORM ON WHICH:



- Improved group reporting
- Corporate business model
- Group-wide EVA analysis and reporting
- Reporting of Key Performance Indicators including non-financial components
- Regional and market based analysis

CAN BE BUILT



# WHAT RENNIES GROUP LIMITED HAS GAINED FROM FIS



- Improved reporting effectiveness at the operational level
- Improved management decision support
- Further analysis and design of the business model and other components will take place in the second half of 1995



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- Effective information architecture and design giving rise to effective information classification gives rise to significant benefits with FIS
- Without this, FIS is unlikely to succeed
- Strategic direction and information requirements must be taken into account
- Fundamental first principles analysis is vital





## THE REAL COST IS PEOPLE



TECHNOLOGY IS NOT THE ISSUE PROFESSIONAL TIME IS





- Short term benefits have already been experienced
- Flagship sites have experienced dramatic improvements in management reporting capability
- Market focused analysis and reporting have been identified as potential future benefits





- RRS should become an integral part of decision making
- Competitive advantage will be the key benefit!
- Group finance has leveraged the opportunity to add value to the operating companies



# DEDICATION and ACKNOWLEDGEMENTS

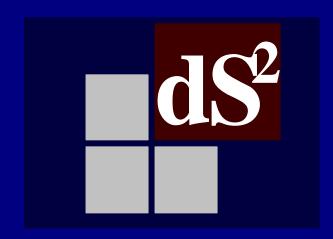


We wish to acknowledge
the contributions and inputs of
all our colleagues, clients, associates, staff and families
without whom the work
on which these ideas
are based would not have
been possible
and the permission of
Rennies Group Management to produce this paper

This presentation is dedicated to to The Glory of God who is the source and reason for our existence

# INFORMATION ARCHITECTURE AND DESIGN OF FIS: RENNIES GROUP LIMITED CASE STUDY

## **QUESTIONS**





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