# Thanks ...



**Christina Spencer** 

John Morecroft

**David Exelby** 

Lars Finskud

**Suresh Mistry** 

... and many more.

**GSD Ltd** 

**London Business School** 

**HVR Consulting** 

Vanguard Strategy

SDS Ltd

The Jay Wright Forrester Award for contributions to System Dynamics, 2005. Kim Warren: 'Competitive Strategy Dynamics', J Wiley & Sons, 2002.

# My Story ...



#### 15 years strategy professional ...

- ➤ Oil, petrochemicals [boring+dangerous], so ...
- Beer and food [YUM!]

# A professional approach to Strategy

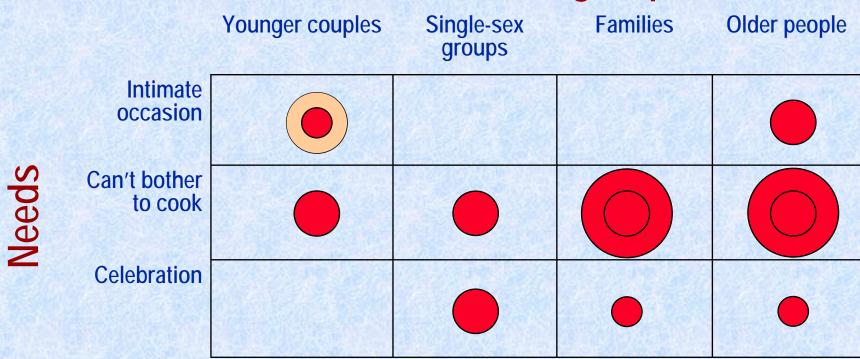


Work out what people want [or might want] ... and give it to them!

# Professional approach to strategy in restaurants



#### Consumer groups



Weekly sales profile
Product range
Service style
Ambience



# The result of professional strategy in restaurants



Early 1990s ...

30% of all U.K. adults = regular users

>300 branches

Europe's most profitable such company

#### Why did it work ?? We worked out how to ...



win customers ...
keep customers ...
develop customers [get them to visit more and spend more!]

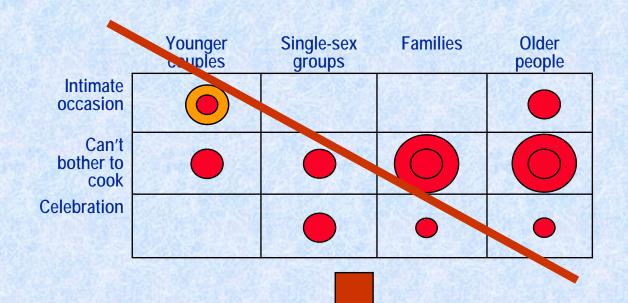
# Early 90s [after I left!] .. an alternative approach?



# Think up a catchy slogan ... and hope it works!

## Think up a catchy slogan ... and hope it works!





"The Best in British Cuisine"



#### Whitbread PLC - a sad tale ...



- ➤ 1995 .. a €2bn/year, highly profitable company, dominating many consumer services markets
- 2005 .. lost lead in every market, under threat of Private Equity take-over

### Strategy – not a complicated idea ...



What to do ...

When ...

How much to do it ...

... to improve future performance

... by how much.

#### Strategy Dynamics ...



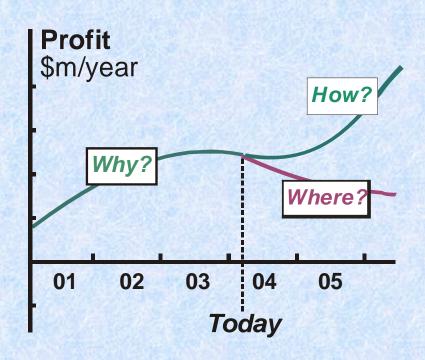
... applying key concepts from System Dynamics to Strategy challenges ...

Opportunity for a fact-based, integrated, rigorous approach to developing and steering strategy.

# The Dynamics of Strategy - Key Questions



- Why is our performance following its current path?
- Where is it going if we carry on as we are?
- How can we design a robust strategy to radically improve this performance into the future?

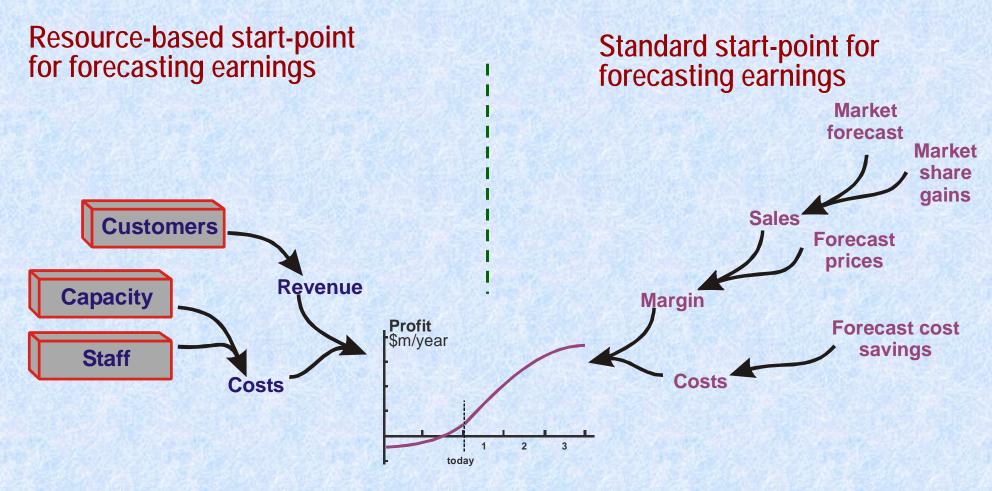


#### Most strategy tools do not address this question:

- they are based on explaining 'profitability' ...
- ... but investors value earnings growth

#### Competitive environment vs. internal view of Strategy







A small example ...

#### Case example – asset management [i.e. mutual funds]



#### What this company does ...

Investors \$000

Investments \$billions Asset manager

Brokers



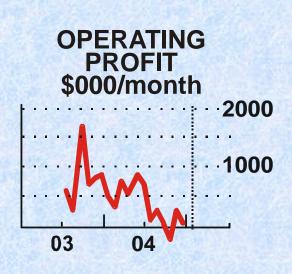
- Mapping the starting situation ... the strategic architecture
- Working out a solution
- Modelling a potential new business



#### The challenge facing the asset management firm



# How to recover profitability after a big negative performance on our key product?



- WHY are we in our present situation?
- WHERE are we heading?
- HOW to improve performance into the future?



## "What do you think you should be doing?"

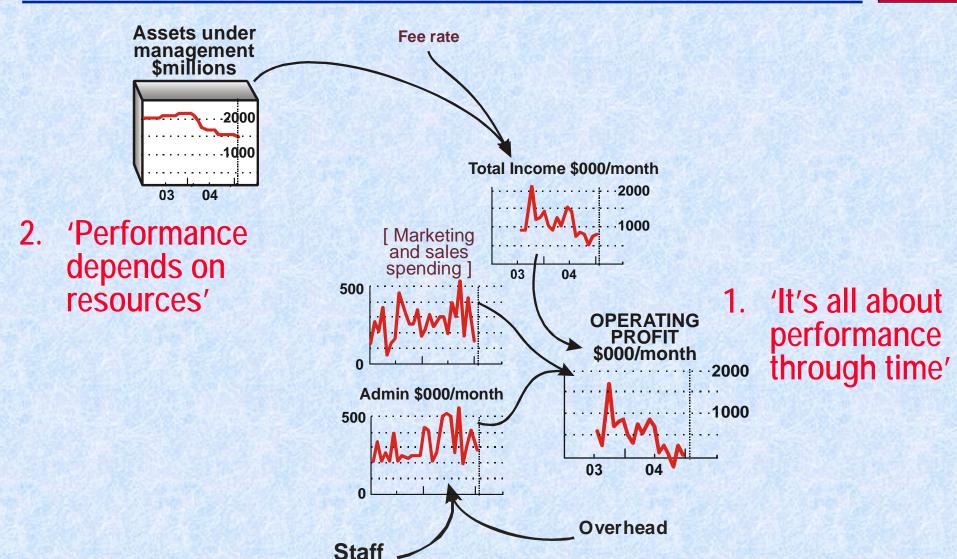


- Increase broker commissions to get them to favour our funds.
- Send out marketing through industry channels.
- 3. Focus our sales effort on winning new brokers.
- 4. Introduce new products, to divert attention from past poor performance.



#### Drivers of operating profit

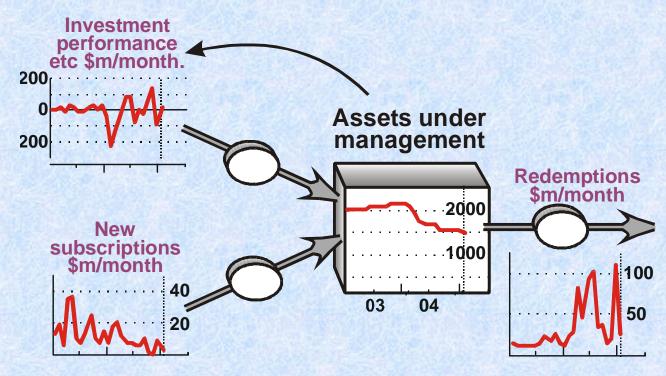






#### Changes in Assets Under Management



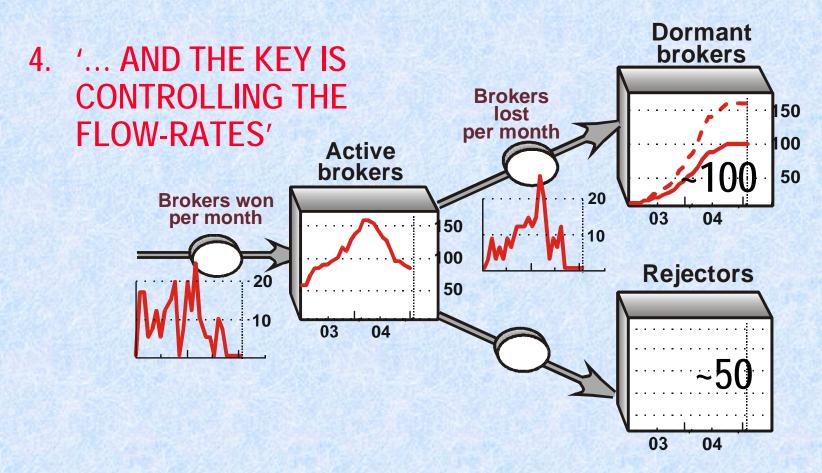


3. 'Resources fill and drain'



#### **Brokers won and lost**



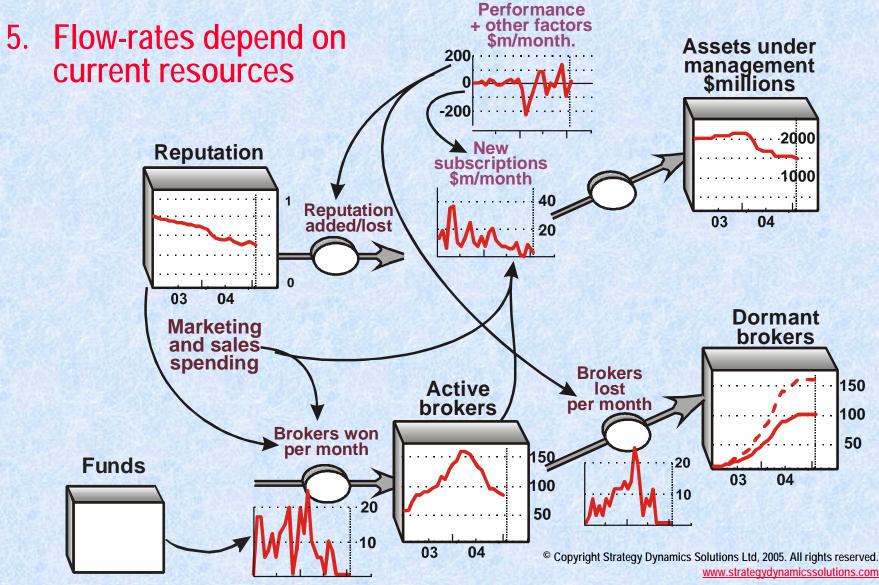


#### 3. 'Resources fill and drain'



## Reputation changes

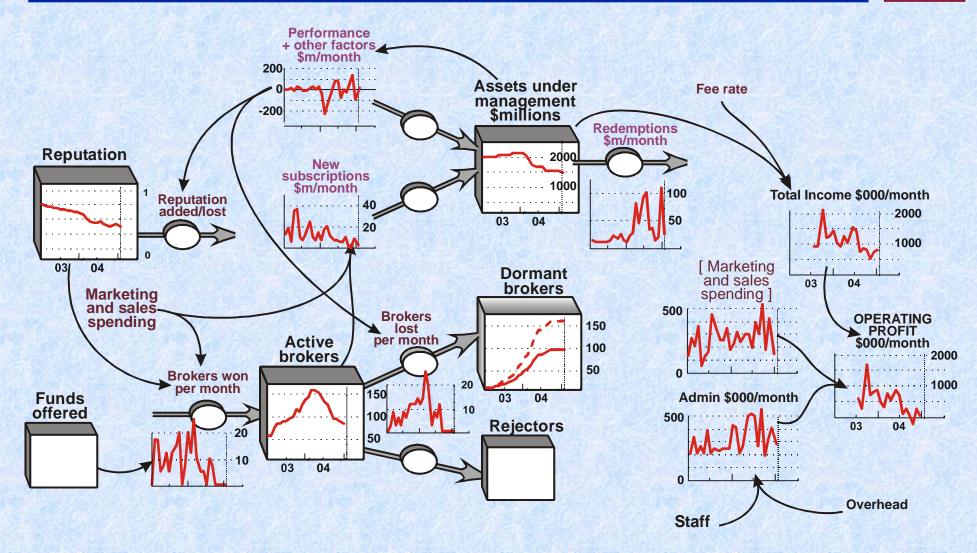






## The overall strategic architecture







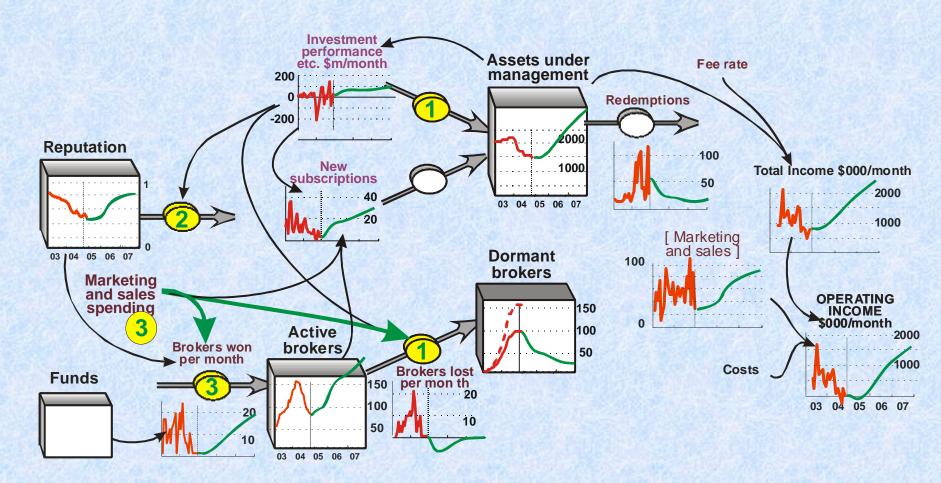
#### **KEY MESSAGES FOR STRATEGY ...**



- 1. IT'S ALL ABOUT PERFORMANCE OVER TIME
- 2. Performance depends on resources
- 3. Resources fill and drain [and this causes BIG trouble]
- 4. ... and so KEY IS CONTROLLING THE FLOW-RATES!
- 5. Resource-building is full of interdependencies [which creates feedback and even more trouble!]

# Improving future profits – a 'Performance Panel'



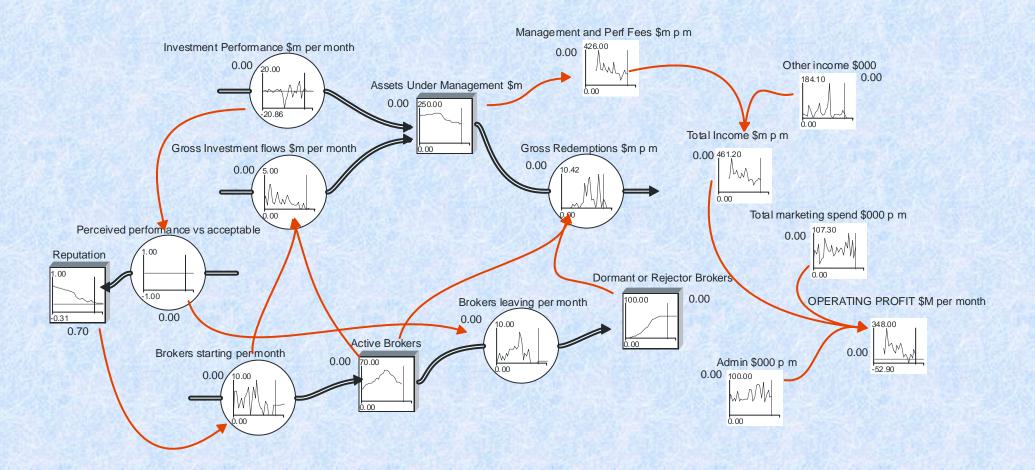


... then more possibilities - adding funds, increasing sales effort, entering new markets etc.



#### ... the actual architecture built with the team







# "What do you now think you should be doing?"



#### In time-phased order ...

- 1. Get back to dormant brokers we have been neglecting.
  ... which will slow the investment redemption rate
- 2. Focus on current fund performance drop other fancy ideas!
- 3. Use marketing to rebuild reputation.
- 4. and when this is done, get after new brokers.
  ... all of which will raise subscription rates, fee income and profits.

THEN you can get on to build a new business ...



#### Asset Management – new business opportunity

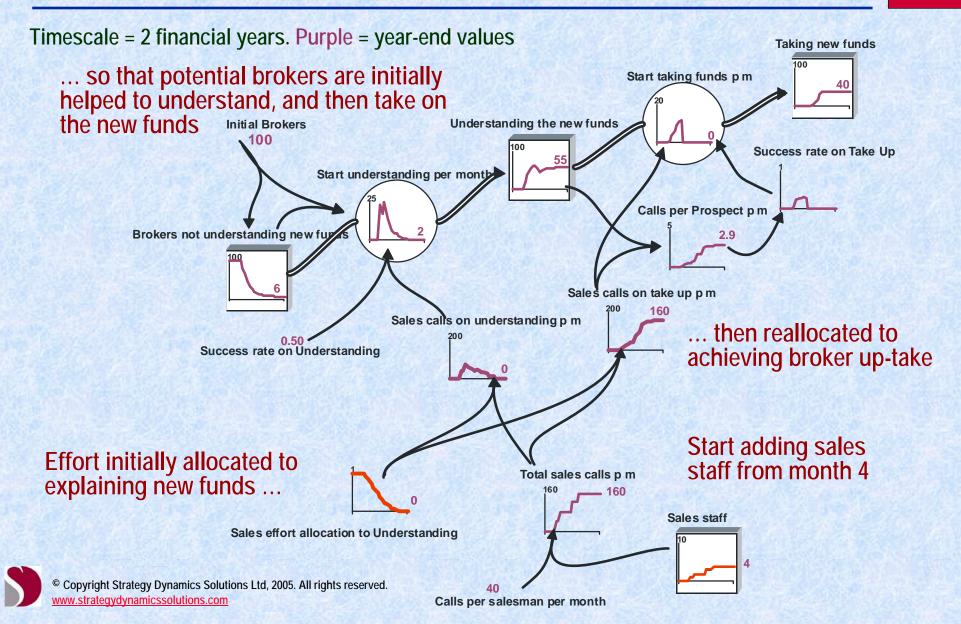


- Source a new class of funds with a lower risk profile for investors
- Deploy a few key sales people to:
  - 1. explain why this new class of funds attractive
  - 2. get take-up amongst brokers, so they start promoting these funds to their investors
- > As the business develops:
  - add to this range of funds, to fill further needs of investors
  - 2. re-allocate sales effort from explaining the funds to achieving broker take-up



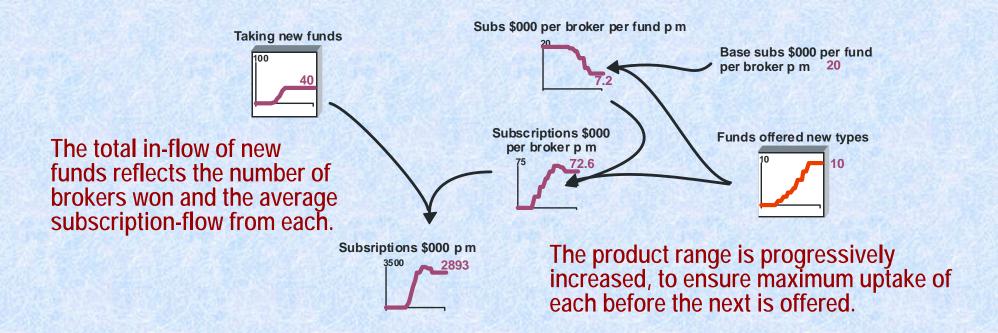
# Winning brokers to the new product range





#### Increasing the range of funds to boost sales

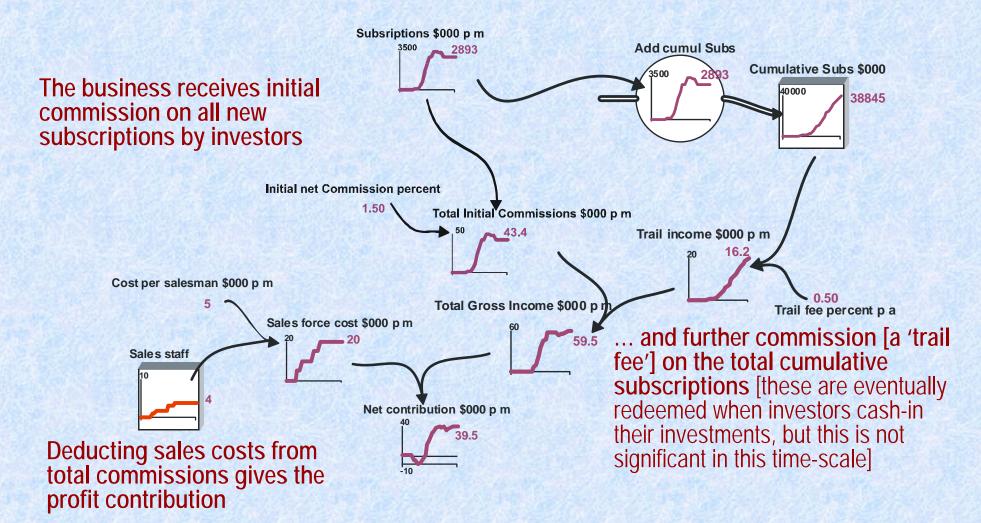






#### Income growth from the new funds

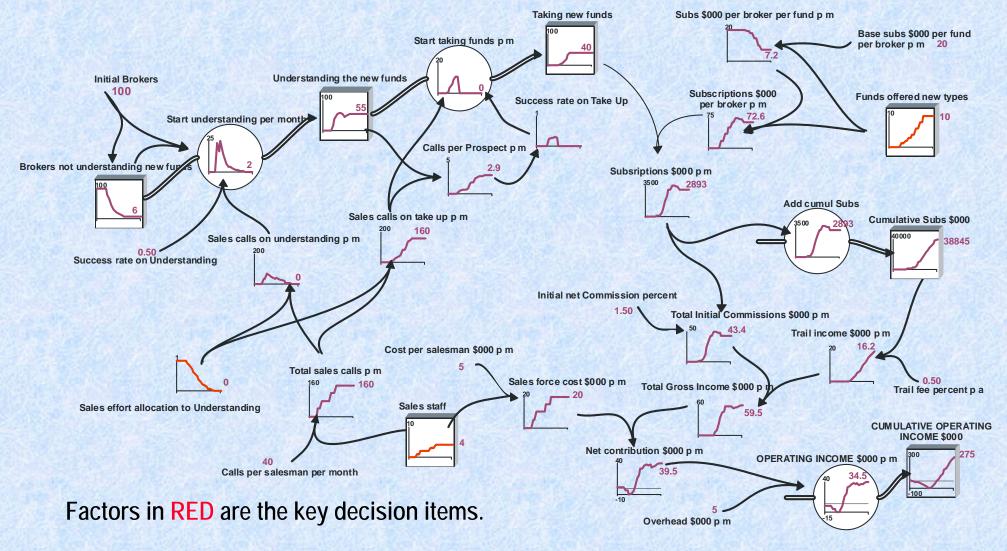






# Strategic architecture and simulation model for the new business





NOTE - the full model includes the additional cost of account managers to sustain the relationship with brokers.



#### CHALLENGES FOR MANAGING STRATEGY ...



- There is a huge opportunity to do better
- Managing resources is genuinely difficult
- It's tough to understand what causes what!

#### **KEY MESSAGES FOR STRATEGY ...**





# Huge opportunity!!

- IT'S ALL ABOUT PERFORMANCE OVER TIME
- 2. Performance depends on resources
- 3. Resources fill and drain [and this causes BIG trouble]
- 4. ... and so KEY IS CONTROLLING THE FLOW-RATES!
- 5. Resource-building is full of interdependencies [which creates feedback and even more trouble!]

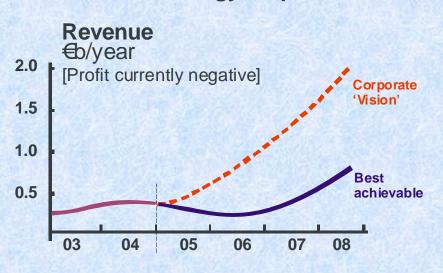
#### We can do better: two classes of error ...

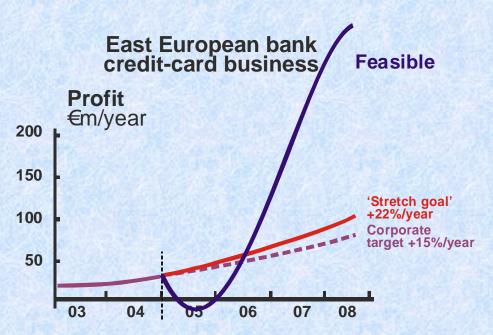


# Pursuing aims that are completely unreal ...

# Massively under-shooting the opportunity ...

#### I.T. technology corporation





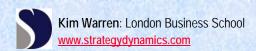
#### Managing resources is genuinely difficult ...



- 1. IT'S ALL ABOUT PERFORMANCE OVER TIME
- 2. Performance depends on resources
- 3. Resources fill and drain [and this causes BIG trouble]
- 4. ... and so KEY IS CONTROLLING THE FLOW-RATES!
- 5. Resource-building is full of interdependencies [which creates feedback and even more trouble!]

This is tricky!!

... but wait a moment, we already know how to do this – it's just what we do with cash.





#### Solution is to 'account' for movement of real resources.



	Cash
Opening balance	Cash at start of year
Additions	cash inflow
Losses	cash outflow
Closing balance	Cash at year-end

It is more complex for non-cash items, because their 'quality' varies.

# 'Accounting' for movement of real resources.



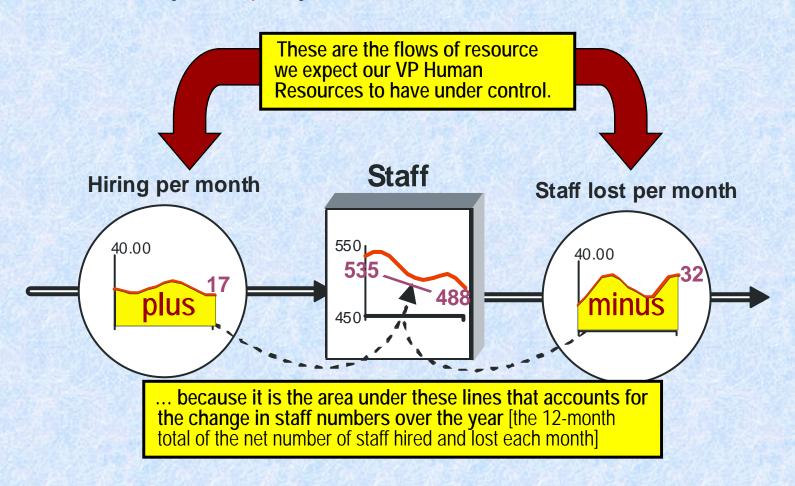
	Total staff
Opening balance	535
hired	243
lost	-290
Closing balance	488

... <u>and</u> we would want to report on changes in attributes, e.g. average experience.

## Just as for cash, our management control is continuous.



Timescale = 1 financial year. Purple = year-end values





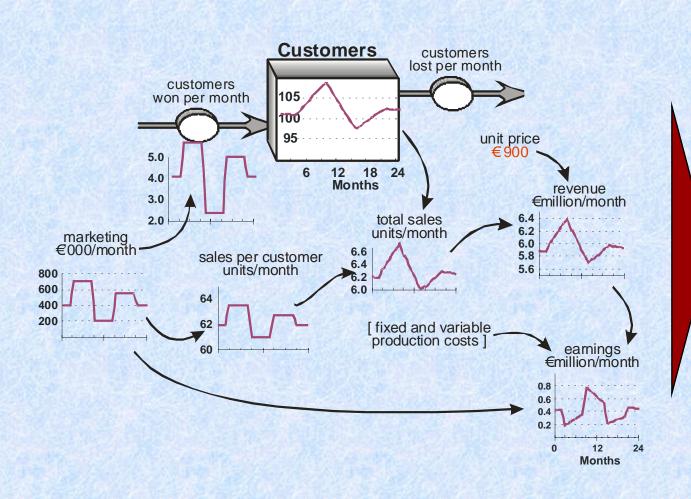
# A further BIG problem in Strategy



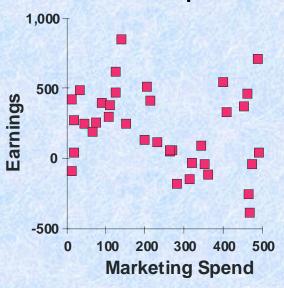
We often don't understand cause and effect – why?

# Stock accumulation confounds 'causality', as commonly understood



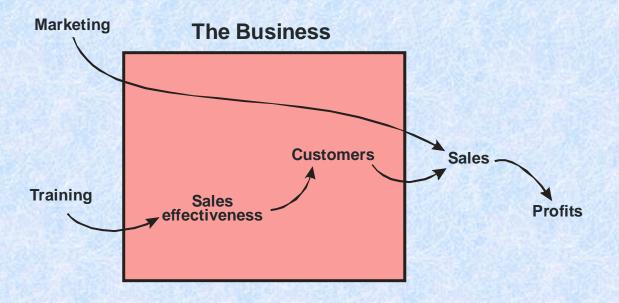


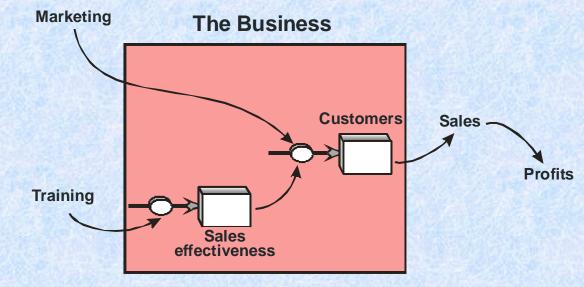
# 30 separate firms' results for a period



## Do 'accumulating resources' destroy confidence in correlation?









# What's the problem in getting System Dynamics used for Strategy? – Why don't they 'get it'?

#### Managers struggle ...

can't deduce performance time-path from even the simplest feedback structure

can't deduce the feedback structure from a performance chart

[and feedback may not be involved at all]

'Where are those pesky "stocks"?'
fundamental factors that should be under intense
management scrutiny – not an after-thought

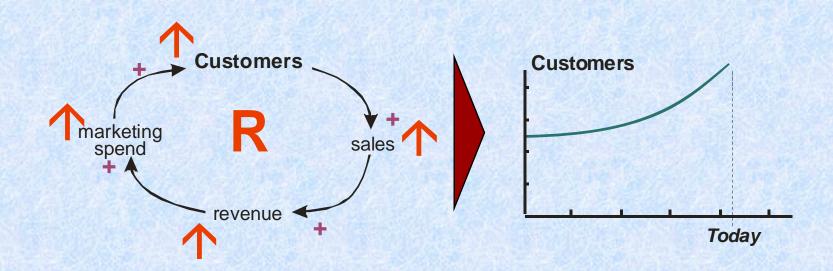
What's this got to do with my problem?

performance time-path as an <u>integral part</u> of the 'mental model'

# Causal-loop feedback seems straightforward ...

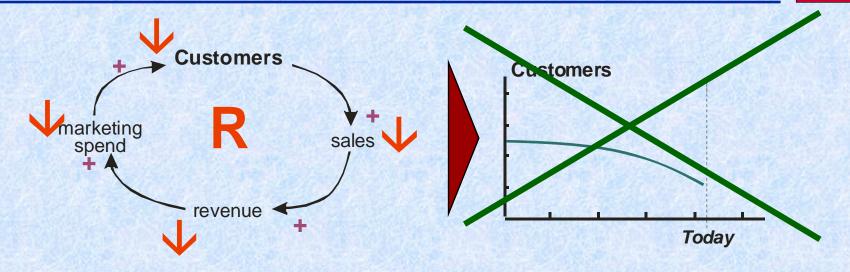


... but when left on their own, people get it wrong – why?

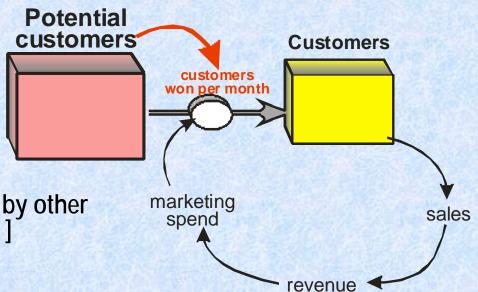


## How can this 'R' structure decline?





Marketing operates on people who are not even in the structure – potential customers.

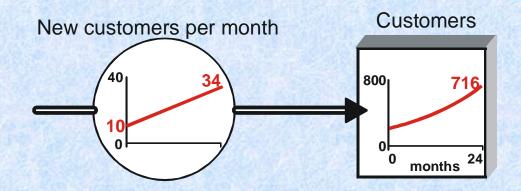


[ Customer losses are driven by other factors – e.g. price or quality. ]

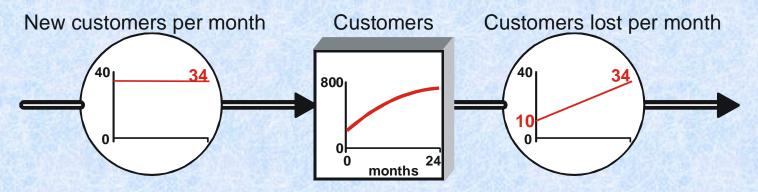


# Feedback creates escalating growth, and limits to growth, right? – not necessarily ...

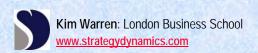




e.g. new demand for insurance in China



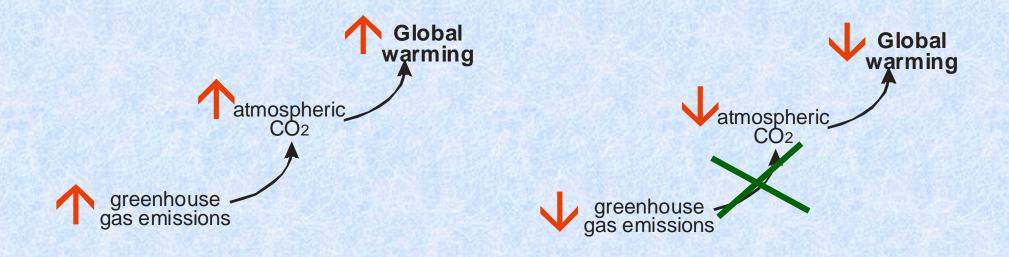
e.g. Vodafone sales in Japan

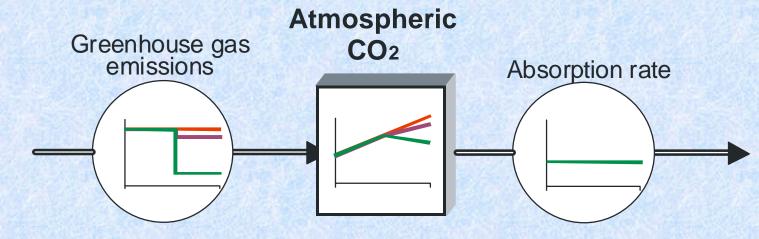


Resource-flows alone cause problems with performance over time, even without feedback.

# A more serious misunderstanding of causal links vs. flow-rates ...



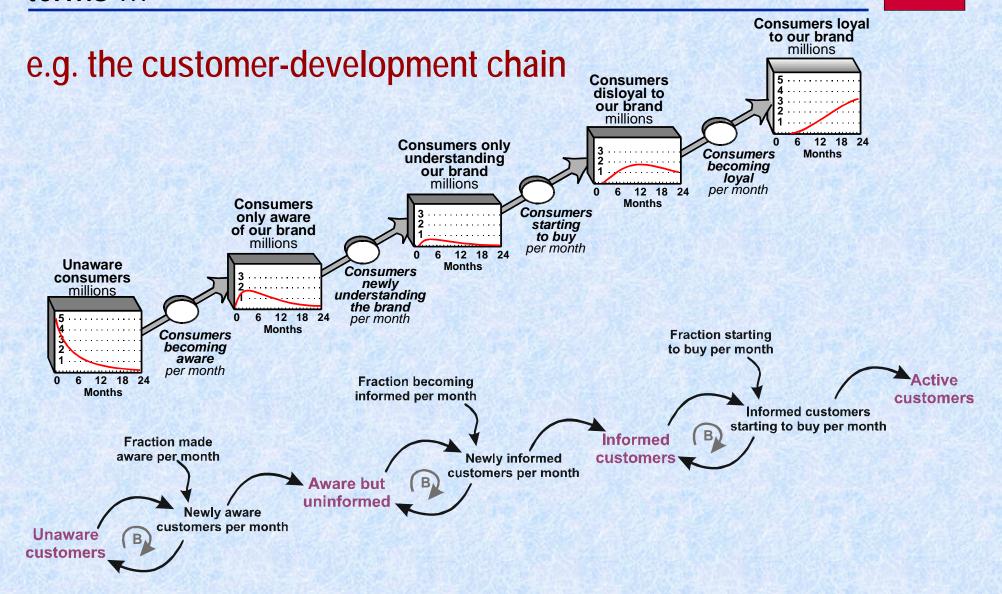






# Some very common structures are puzzling in feedback terms ...





# So why don't they get it?



#### Managers can't do it

can't deduce performance time-path from even the simplest feedback structure

can't deduce the feedback structure from a performance chart

[and feedback may not be involved at all]

'Where are those pesky "stocks"?'

fundamental factors that should be under intense management scrutiny – not an after-thought

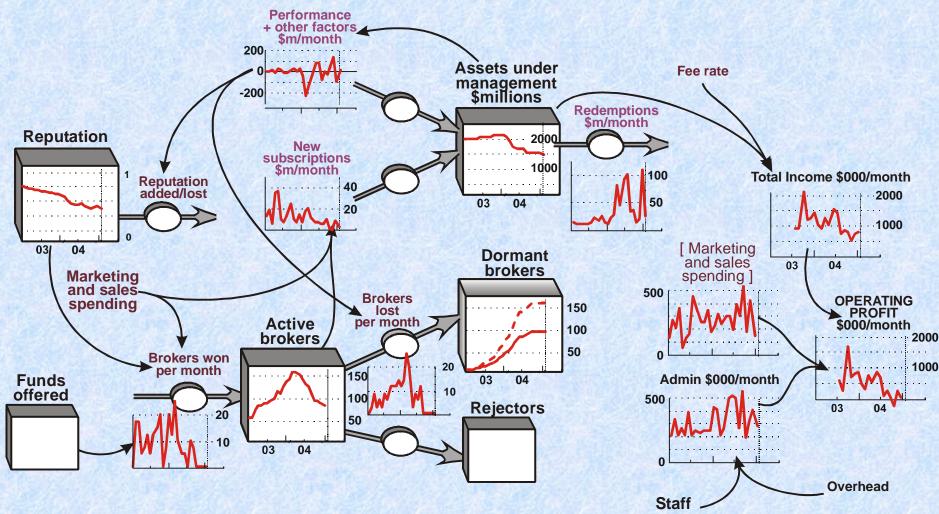
What's this got to do with my problem?

performance time-path as an <u>integral part</u> of the 'mental model'



## The overall strategic architecture



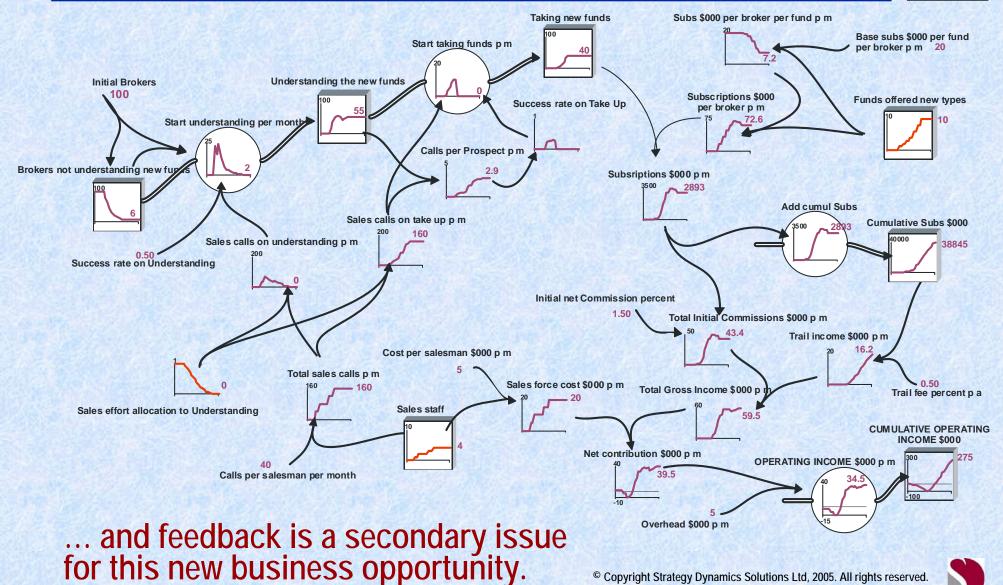


Feedback is not the problem here.



### Strategic architecture and simulation model for the new business





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## Don't get me wrong ...



# 'Oh hi – you're the guy who doesn't believe in feedback'

## ABSOLUTELY NOT, BUT ...

- there are vast numbers of problems out there, solely [or mostly] caused by resource-flows alone
- the numbers have to be worked out
- we can't have feedback without accumulating resources

#### SYSTEM DYNAMICS' CONTRIBUTION



1 How our world behaves is complicated by stuff that accumulates.

We have to do the numbers of these processes - over time - if we are to understand and manage things better.

#### ... AND ...

2 How our world behaves is complicated by powerful feedback effects.

We have to map and model this feedback to understand what is going on, and to manage things better.

## My Story ...

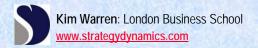


- 15 years strategy professional ...
  - Oil, petrochemicals ...
  - Beer and food
- 1990 'Been there, done that' so ...
- off to London Business School to teach Strategy
- Very puzzled by what we taught, but luckily ...
- John Morecroft converted me to System Dynamics [hooray!]
- 1996 got PhD!
- Why don't they get it? Why can't they do it?

#### To 2005 ..

Teaching, writing, learning materials ...

#### NEXT??



#### What next?



# Improvements needed in the 2nd edition of 'Competitive Strategy Dynamics'!

- Stronger connections to well-known Strategy frameworks
- Illustrate widely-used case-studies
- More reference to work in system dynamics
- Open up the models
- Learning materials support