

33rd ANNUAL GIRO CONVENTION

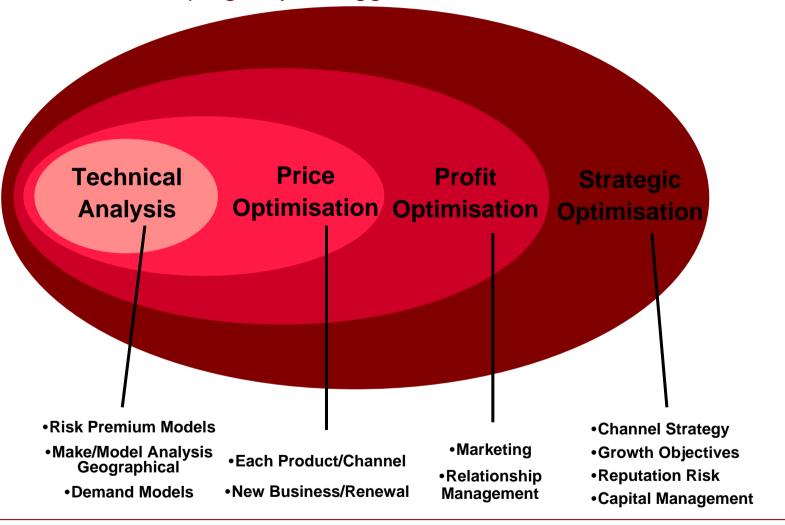
Hilton Wien Hotel, Am Stadtpark

Understanding the Customer Value Chain

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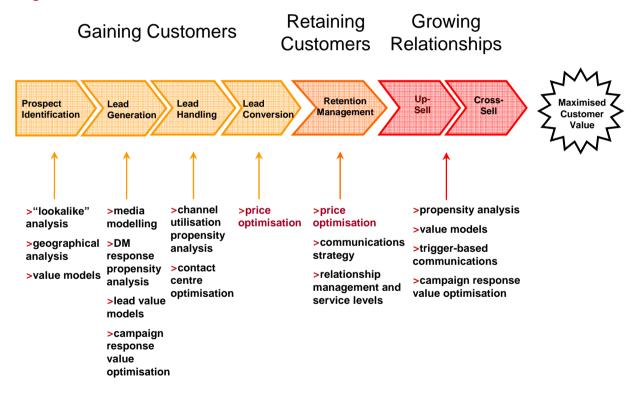
Improving Performance

Keeping all your eggs in one basket!



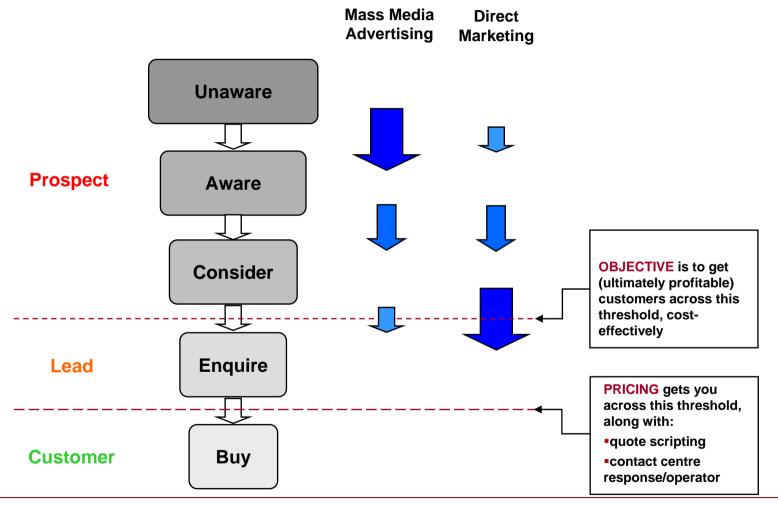
The Customer Value Chain

 Can apply statistical analysis to understand customer behaviour and value at each stage in the customer value chain



Different types of analyses are appropriate at different stages

The Leads Pipeline



Marketing Analytics - The Way Forward

- Statistical analysis of customer data can inform marketing strategy and tactics...
- ...and improve marketing performance
- Actuaries possess the key skills necessary to do this work...
- ...and it is in their interest to get involved...
- ...by making friends with marketers
- …and doing the analytics better!

How Does This Help Marketers?

- Helps marketers gain deeper customer understanding
- Helps them to answer key tactical questions:
 - which customer segments are the most profitable?
 - which prospects should my campaign target?
 - how should I direct my finite media budget?
 - when should I communicate with a customer, and how?
 - which customers should I spend money on retaining?
 - to which customers should I cross-sell, and what products?
- Improves the customer experience:
 - appropriate, relevant, targeted, timely marketing communications and servicing activities

Marketing Analytics – What Is It?

- Applying statistical analysis techniques to customer data to understand the drivers of customer behaviour and profitability...
 - ... and so how to influence customer behaviour through targeted marketing activities
- Rich customer data now available from CRM systems:
 - attributes, attitudes, holdings, utilisation, servicing, payments, communications, demographics
- Statistical analysis techniques similar to GI
 - GLMs, augmented by e.g. data mining with CART
 - many more factors, and unfamiliar ones
- Wide range of customer behaviours

Example: Direct Channel Motor Insurance Lead Generation

Objective is to generate new business leads (i.e. quotation enquiries):

- in sufficient volumes
- ultimately profitable (contribution, claims cost, retention rate, service requirements, payment delinquency)
- cost effectively (per lead generated)
- cost effectively (considering response channel lead handling costs)
- without impacting adversely on existing customer relationships (i.e. can't mail too frequently, or inappropriately)
- ...or on perception of brand service values (i.e. have to have capacity to handle responses)
- having particular customer mix (or leading to particular mix of converted policies)
- leading to particular customer product cross-holding levels

An age old challenge

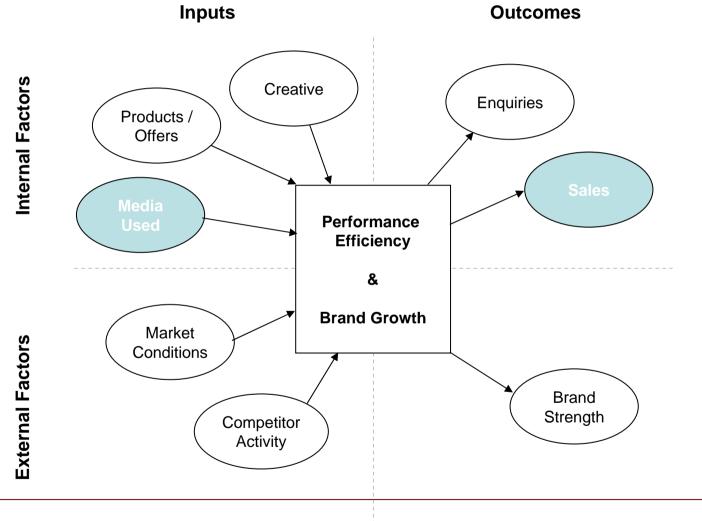
"I know that half of my advertising is wasted
I just don't know which half'

Lord Leverhulme

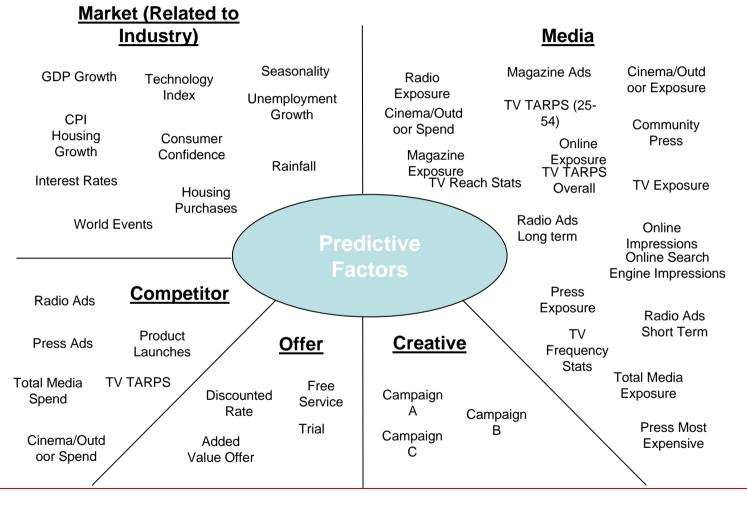
Still looking for answers in the current landscape

- An explosion of communication channels
- Businesses seeking robust measures to demonstrate accountability
- Fragmentation of strategic advice from numerous specialist agencies
- Need for an evidence based framework, delivered from a neutral perspective

Identifying cause and effect between spend and sales

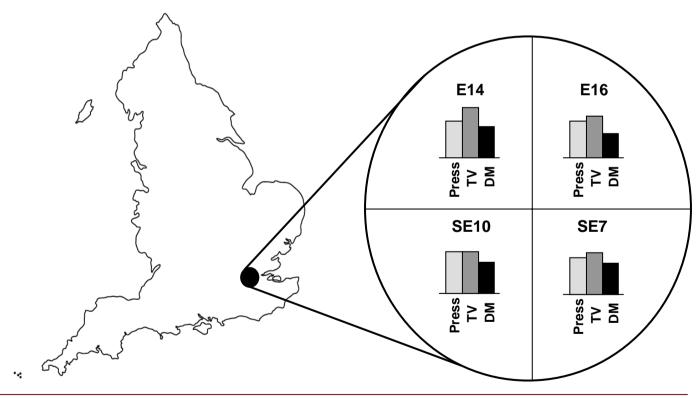


Many variables initially considered (Between 400 and 500)



We do this by considering data at a more granular level

Weekly media exposure for each channel is allocated at a postcode level

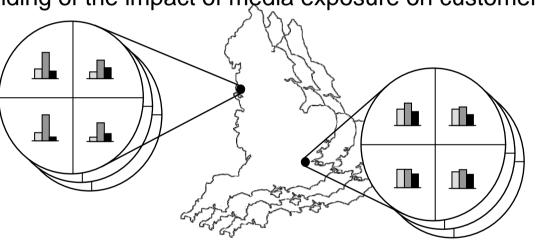


This provides the necessary richness of data

Media exposure in adjacent postcodes in a given week may be quite similar

 However differences between weeks and geographies allow us to gain a true understanding of the impact of media exposure on customer

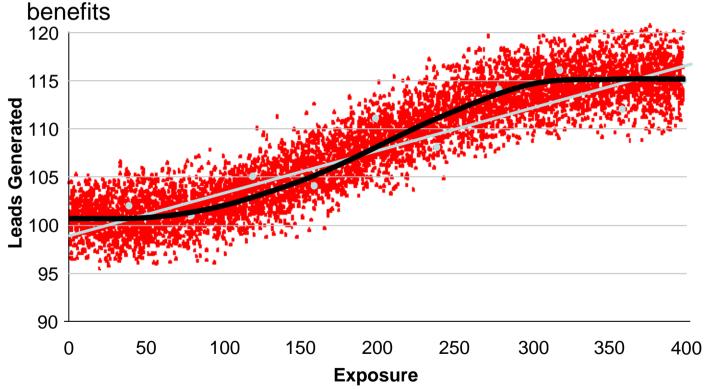
behaviour



 By considering multiple years of data across all geographies, we have a large number of 'experiments' or data points on which to conduct the modelling

Improving on basic econometrics

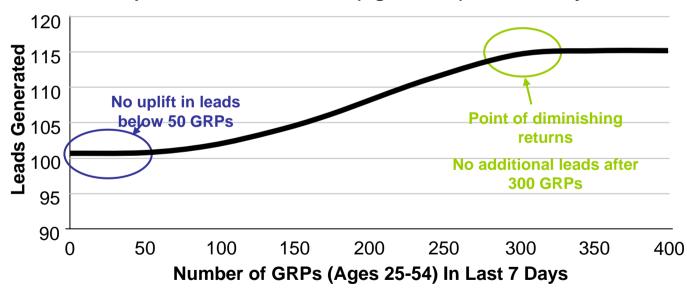
- By looking at the data in a more granular way, more understanding can be drawn about the relationship between exposure and response
- Identifying the slope and shape of the relationship offers significant benefits



Pure effects of each variable modelled for influence

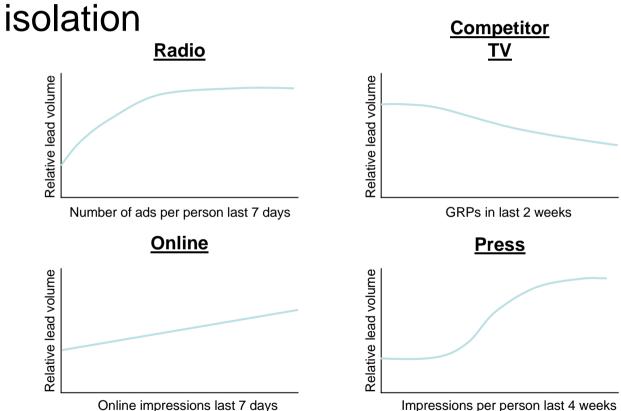
- The specific effect of each influence is isolated (Media and non media factors)
- These 'pure effects' can be used to guide each channel's optimal deployment

Impact of Number of GRPs (Ages 25-54) In Last 7 Days



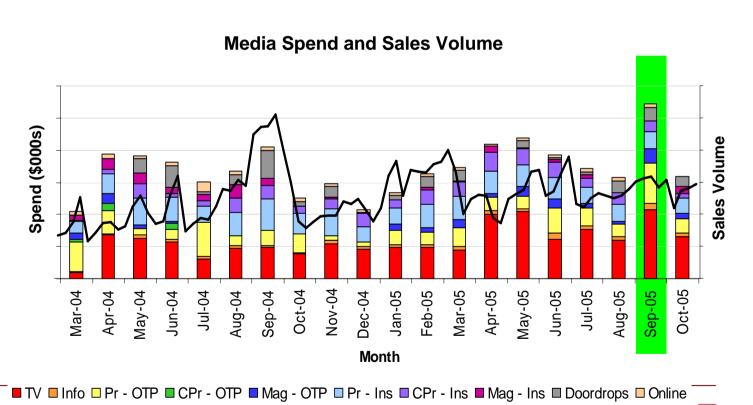
Channel performance

Each channel's effect can be understood in



The benefits of analysis beyond straight lines

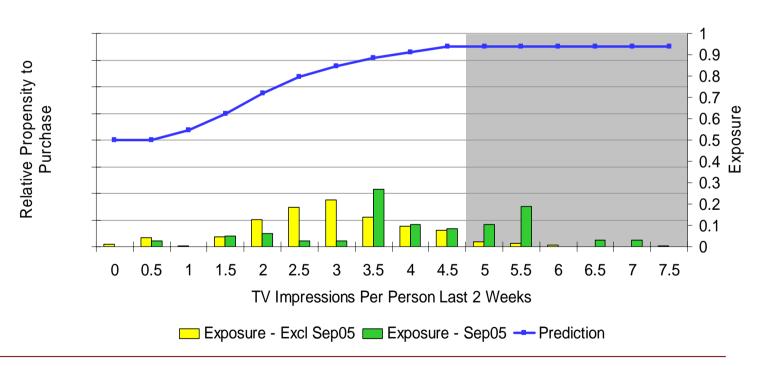
- Consider September 2005
 - a high level of media spend was not met with a peak in sales



September 2005 was particularly heavy in OTP press and TV exposure

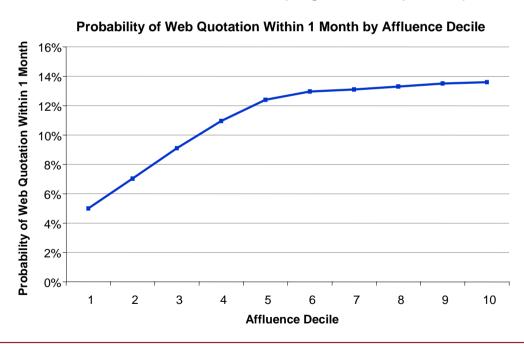
 Almost £1m was spent in the month beyond the point of zero marginal returns as identified in our modelling

Relativity by TV Impressions Per Person Last 2 Weeks



Modelling DM Response Propensity

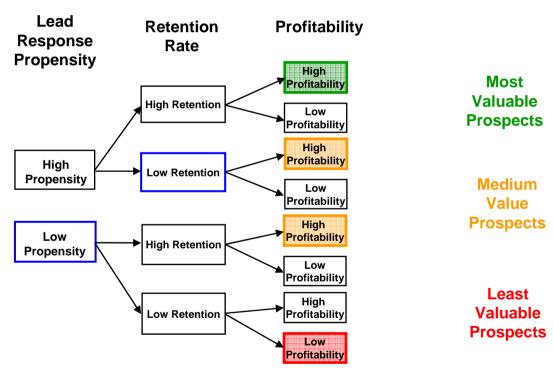
- Build a GLM statistical model of historic DM response propensities
- Richer data available for current customers, affinity lists, declined quotes, than for new prospects – client specific data and factors
- Renewal dates are key collect or buy, demographic for new prospects
- Response = quotation sought through call-centre or website
- Differentiate between "baseline" and campaigns-driven past experience



Allowing for Customer Value

Allowing for Propensity AND Value

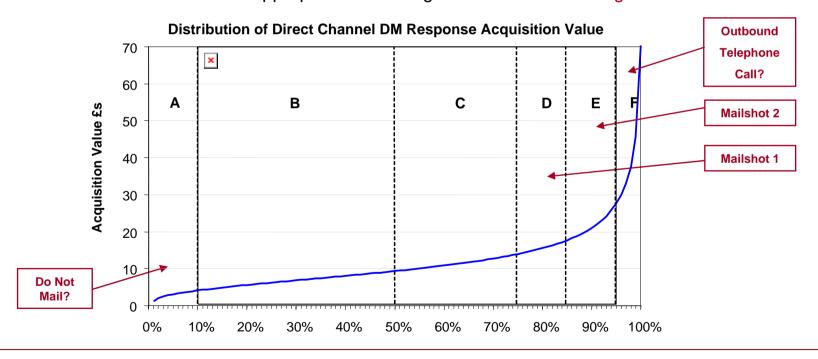
Wish to direct marketing spend towards the most valuable prospects



...or towards those who can be influenced to increase value.

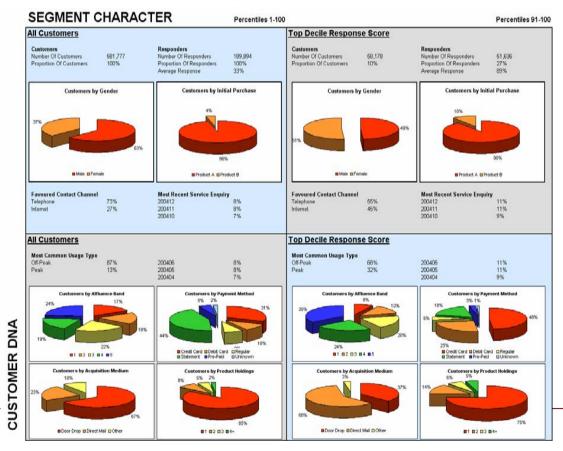
Customer Prospect Segmentation

- Build models of individual customer lifetime profitability
- Combine response propensity and lifetime profitability into individual customer "acquisition value" = "expected value of mailing"
- Rank by value, and segment customer prospects
- Aim = determine appropriate marketing treatment for each segment



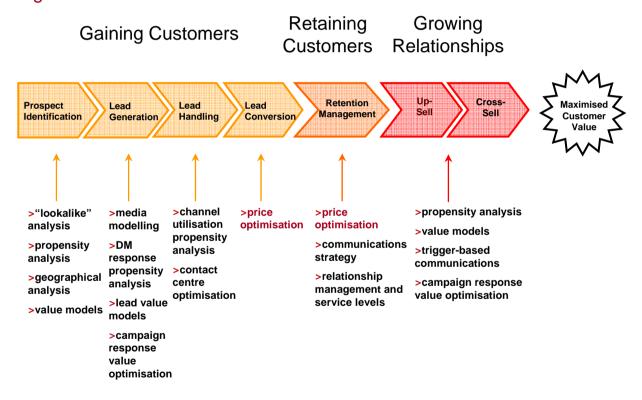
Segment Characterisation – The Customer DNA

 Can characterise segments, and identify segment-specific levers of influence, and trigger events – and so frame targeted activities.



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