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The First Rule(s) of Segmentation

- Be clear on your purpose before starting know WHY?
- The second rule is to think about WHO is going to be deploying your flash of brilliance
- The third rule is to think about HOW your proposals will be implemented
- This informs both the type of data required and the analytical approach

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Insight Deployment

Good insight is inconvenient

- It changes plans
- It changes working practices
- It can both start and end activities

In short, my audience would probably prefer to ignore my best work!

The requirement for successful insight deployment is therefore usually simplicity

• Remember that audience is generally non-technical

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Examples of Simplicity

Don't be afraid to give up some accuracy and sophistication from your analysis to aid deployment

Take the long view in driving change

Use of deciles (or similar) for statistical scorecards

Clustering is always an interesting technique – a 'pure' solution that is almost impossible to explain

 One can use this approach to determine the 'pure' variables and then deploy 'hard' rules to define the segments

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e.on Data Resources Internal databases - person levelbut spend is required to integrate "account" level operational systems Individual-level external data setsare commercially availablel include Electoral Roll here Area-level external data setsGovernment is a good(ish) (and free!) source Market research - sample-based Much commercial focus depends on identification of the individual

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Data Case Study

Carbon Emissions Reduction Target (CERT)

Priority Group customers qualify for free measures, so need to identify them

• Definition – someone in the household receives one of 14 benefits (e.g. Working Tax Credit, Child Tax Credit) OR is aged 70 or over

Ideally - need a flag against each address identifying eligibility for costeffective targeting. Where might we get this data?

- Not held by the energy industry (apart from by exception)
- Needs validation to prevent fraud and updated to reflect changing circumstances

Age data is commercially available

- Lacks 100% accuracy but generally acceptable
- Has been acquired at reasonable cost

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Data Case Study

Carbon Emissions Reduction Target (CERT)

Benefits data generally not commercially available

- Partial availability, recency often unknown
 'Master file' held and validated by HMG

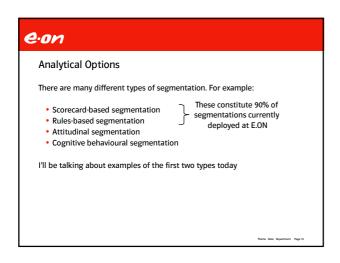
Difficult to acquire

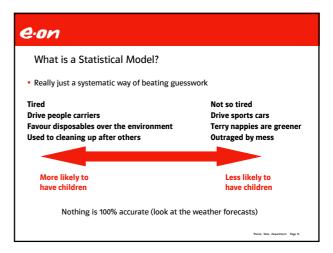
- Political and legal barriers
- Potential "price"

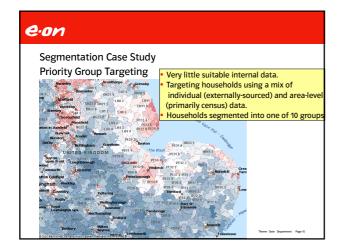
"Reduced" to statistical modelling to achieve improved efficiency, and hence lower costs (and bills)

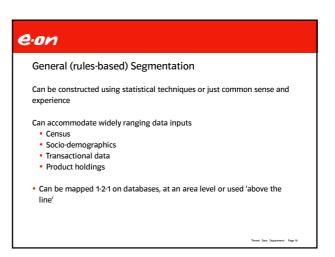
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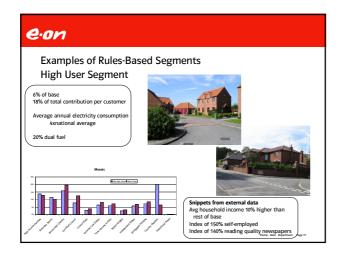


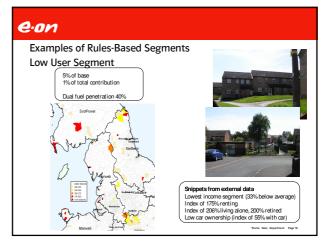














Principles of Analysis Analysis v Insight Generating insight can be difficult —the Eureka moment is hard to trigger Type of seat and leg room in business dass cabins is more predictive of customer satisfaction on short haul flights at the beginning and end of the day than at other times "When travelling I want to make the most of my working day so I can spend the night in my own bed"

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Summary

Data acquisition can be a problem, but usually proxies can be found (at a price). Integration of different data resources can be costly and time consuming

In many (commercial) environments, person-level segmentations are the most commonly deployed option $% \left\{ 1,2,...,n\right\}$

The key challenge is generating the insight rather than reporting the finding

A further challenge for implementation is business buy-in and implementation, rather than technical skill

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