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Market share, profitability and implications for strategy formulation

Edwards, Graham Neil

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general contractors for installation in an apartment complex or development. The size of a typical order, of course, varies dramatically between these two served markets. Large builders and contractors buy in carload (even trainload) lots with little variation in the features, functions, colors of models, etc.

It is important that you define the served market for each business carefully, since our analyses have shown that the *share* of its market achieved by a business is one of the most important single determinants of profitability. Generally speaking, the more *narrowly* the market is defined, the better. Of course, this means that it will often be necessary to make *estimates* of total market size based on appropriate allocations of published figures to specific regions, products, or types of customers.

APPENDIX XI

Aberrant clusters

Aberrant clusters

Since the cluster analysis was essentially measuring the grouping of the data according to one particular variable the aberrant clusters can be described in terms of that single variable, in this case, ICU the customer concentration variable. The table below gives the cluster number and the mean value of ICU.

Cluster Number	Number of Observations in Cluster	Mean Value of ICU
1	85	10,18
2	1	300,00
3	1	414,00
4	1	3182,00
5	15	153,33

Clearly the 3 aberrant clusters represent discrete high values of the variable "customer concentration". A closer look at these SBUs revealed that there was nothing unique about them other than that they have an unusually large value of ICU (the number of customers that make up 50% of sales ,the definition of ICU).

APPENDIX XII

Fast clustering procedure

Fast clustering procedure : Extract from SAS Manual

The FASTCLUS procedure combines an effective method for finding initial clusters with a standard iterative algorithm for minimizing the sum of squared distances from the cluster means. The result is an efficient procedure for disjoint clustering of large data sets. FASTCLUS was directly inspired by Hartigan's *leader* algorithm (1975) and MacQueen's *k-means* algorithm (1967)

PROC FASTCLUS uses a method that Anderberg (1973) calls *nearest centroid sorting*. A set of points called *cluster seeds* is selected as a first guess of the means of the clusters. Each observation is assigned to the nearest seed to form temporary clusters. The seeds are then replaced by the means of the temporary clusters and the process is repeated until no further changes occur in the clusters. Similar techniques are described in most references on clustering (Anderberg 1973; Hartigan 1975; Everitt 1989; Spath 1980).

The FASTCLUS procedure differs from other nearest centroid sorting methods in the way the initial cluster seeds are selected. The initial method of FASTCLUS guarantees that if there exist clusters such that all distances between observations in the same cluster are less than all distances between observations in different clusters, and if you tell FASTCLUS the correct number of clusters to find, then it always finds such a clustering without iterating. Even with clusters that are not as well separated, FASTCLUS usually finds sufficiently good initial seeds that few iterations are required. The importance of initial seed selection is demonstrated by Milligan (1980).

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INDEX

Abell 23, 172, 229, 274
Abell & Hammond 120
Abell & Hammond, ... 172
Abell and Hammond 29, 120, 414
Abell and Hammond, ... 22
Abell and Hamond, ... 147
Allison 26
Alwin and Hauser, ... 125
Anderson and Paine, ... 31
Andrews, ... 27, 39
Ansoff 166
Ansoff, ... 27, 39
Ansoff) 168
Bailey. 102
Bailey's 105, 106
Bain 12, 125
Bain, ... 2, 16, 66
Basar & Olsder 86
Basar & Olsder, ... 86
Basar and Olsder, ... 16, 24, 88
Bass et al 56
Bass, Cattin and Wittink 41
Bass, Cattin and Wittink, ... 13
Bayvel, ... 30
Bertrand and Edgeworth 76
Best and Kahle, ... 30
Bhattacharya, ... 171
Bloom and Kotler, ... 16, 30
Bothwell et al 56
Bothwell, Cooley and Hall, ... 13
Bourgeois 39

Bourgeois, ... 24
Boynton and Zmud, ... 166
Bradly and Gale 81
Buzzell 144
Buzzell & Gale, ... 20
Buzzell & Wiersema, ... 16
Buzzell and Gale 18, 193, 276
Buzzell and Gale, ... 20, 23, 26, 31, 145
Buzzell and Wiersema 56, 126
Buzzell and Wiersema, ... 61
Buzzell et al . . 31, 41, 54, 126, 127, 193, 226, 234
Buzzell et al, ... 39, 61, 145
Buzzell Gale and Sultan 12
Buzzell, Gale & Sultan, ... 16
Buzzell, Gale and Sultan 31, 239
Buzzell, Gale and Sultan, ... 2
Buzzell, Quelch & Bartlett, ... 30
Carpenter & Lehmann, ... 16
Caves, Gail and Porter, ... 16
Chamberlain and Fellner 77
Chandler, ... 25
Child, ... 27
Clifford and Cavanagh, ... 25
Cook 13
Cook, ... 16, 24
Cooper and Weeks 133
Core Competence 226
Cournot 77
Daughety 74
Day 23, 276
De Vasconcellos & Hambrick 168
De Vasconcellos & Hambrick) 168
De Wet 116
DEFINITIONS 22
advantage of scale 170
AOS 170
business 22

core competencies 169
Industry Specificity 174
Industry/Business 171
Key Success Factors 166
KSF 166
market share 22, 413
performance 23
profitability 413
SPEC 175
specificity 175
strategy 24
value chain 173
Dess & Davis 207
Dess and Davis, ... 47
Dixit 88
Dolan 171
Dolan & Jeuland, ... 95
Dolan and Jeuland, ... 16, 37
Du Pon 's 62
Duncan, ... 125
Eaton & Ware, ... 95
Eaton and Ware, ... 16
Edward S Mason 17
FASTCLUS 420
Ferguson and Dickinson, ... 166
Forchheimer and Von Stackelberg 76
Foster 192
Foster, ... 66
Freund, ... 167
Freund) 168
Fruham, ... 237
Fruhan 42, 99, 234
Fundenburg, ... 16
Galbraith & Schendel 27, 207
Galbraith & Schendel, ... 47
Galbraith and Schendel 13, 235
Galbraith and Schendel, ... 40

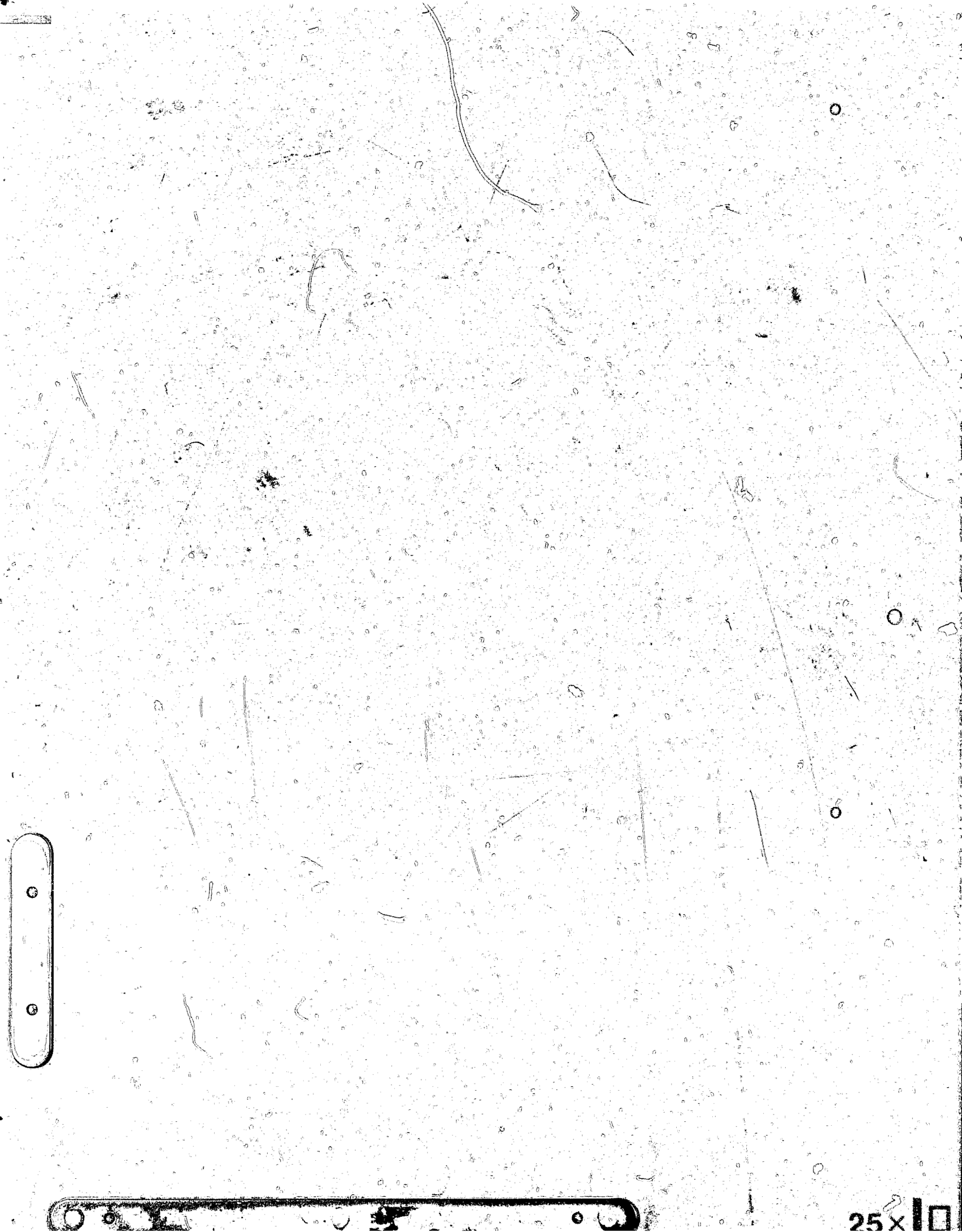
Gale 30
Gale & Branch 37
Gale & Branch, ... 24, 30
Gale and Branch 12, 24, 234
Gale, ... 2
Georgescu - Roegen 165
Geroski, Masson & Shaanan, ... 16
Ghamawat 192
Ghemawat 61, 99
Ghemawat & Spence, ... 170
Ghemawat and Spence, ... 37
Ghemawat, ... 171
Ghemewat, ... 144
Gilbert, ... 64
Gluck, ... 35, 170
Goold & Quinn 27
Hall 36
Hall & Howell, ... 171
Hall and Howell 35, 36, 144
Hall, ... 144
Hambrick . . . 13, 26, 39, 47, 130, 138, 139, 207, 235
Hambrick & MacMillan 234
Hambrick & MacMillan, ... 42
Hambrick and MacMillan 28, 237
Hambrick and Schecter, ... 30
Hambrick et al 50
Hambrick, ... 16, 27, 39, 40
Hambrick, MacMillan & Day, ... 16
Hambrick, MacMillan and Day 39, 49
Hambrick, MacMillan and Day, ... 40, 47
Hamel & Prahalad 172
Hamel & Prahalad, ... 170
Hamermesh 99
Hamermesh et al 43, 44, 50
Hamermesh, Anderson & Harris, ... 29
Hamermesh, Anderson and Harris 43, 237
Hamermesh, Anderson and Harris,

. 16
Hamermesh, et al, ... 89
Hanan, ... 64, 145
Harrigan 103
Harrigan, ... 16
Hartigan 314
Heany 59
Henderson 89
Henderson, ... 126
Hofer & Schendel 185
Hofer & Schendel, ... 167
Hofer & Schendel) 168
International Monetary Fund 116
Jacobson & Aaker, ... 126, 171
Jacobson and Aaker 36, 53, 54, 56
Jacobson and Aaker, ... 51
Karnani 89
Karnani, ... 16, 88, 95
Kehoe 276
Kehoe, ... 31
Kiechel, ... 36
Kotler and Singh, ... 25
Kotler, ... 16
Leidecker & Bruno, ... 167
Leidecker & Bruno) 168
Leonard Weiss, ... 80
Liddell Hart, ... 25
Lieberman 62, 99
Lieberman & Montgomery 65
Lieberman & Montgomery, ... 65
Lieberman and Montgomery 64
Lieberman and Montgomery, ... 16, 51, 60, 145
Lieberman, ... 37
Lippman and Rumelt, ... 16, 38, 51
Lubatkin & Pitts 276
Lubatkin & Pitts, ... 21
Lubatkin and Pitts 21

Lytle, ... 16
Maasdorp 117
MacMillan, ... 25
MacQueen 314
Maher, ... 30
Mancke 51
Mauleon and Willingston, ... 166
McGee 17, 78, 96
McGee, ... 16, 66, 74, 77, 84, 85, 145, 170
McGuire & Weiss, ... 16
McLagan, ... 126
Miles 27
Miller and Friesen, ... 39
Miller, ... 27, 39, 40
Mills, ... 16
Mintzberg 26
Mintzberg, ... 26
Montgomery 110
Myint 116
Myint, ... 111
Newton 99
Newton, ... 16, 126, 171
O'Dowd 112
O'Dowd, ... 111
Ohmae 30
Oliva, Day and Desarbo, ... 125
Page 99
Page, ... 16, 145
PARADIGMS 109
Pascarella, ... 39
Peters, ... 97
Phillips et al 56, 126, 145, 236
Phillips et al, ... 41
Phillips, Chang & Buzzell 235
Phillips, Chang and Buzzell 40
Phillips, Change & Buzzell 277
Pickering, ... 16

Pitts, ... 39
Porter 126, 173
Porter, ... 16, 30, 65, 66, 144
Prahalad & Hamel 169
Prahalad & Hamel, ... 169
Prahalad and Hamel 182, 223-226
Pratten 84
Prehalad & Hamel, ... 183
Prescott et al 56, 276
Prescott, Kohli and Venkatraman 14
Ramanujam and Venkatraman 40
Ramanujam and Venkatraman, ... 13
Rao and Bass, ... 16
Ravenscroft 234
Robinson 186
Rostow 113
Rostow, ... 111
Rumelt & Wensley 51
Rumelt & Wensley, ... 2, 52
Rumelt and Wensley 38, 56
SA Reserve Bank 116
SAS 420
Scharer, ... 171
Scherer 17
Scherer, ... 16, 17, 19, 66, 69
Schmalensee, ... 16, 64
Schoeffler et al 234
Schoeffler et al, ... 61
Schoeffler, Buzzell & Heany, ... 23, 31, 172
Schumacher 3, 96
Schuster 99
Schuster, ... 16
Shaw & Shaw 99
Shaw and Shaw 60
Shaw and Shaw, ... 16, 60, 61, 145
Shepherd 17, 30, 31, 56, 82, 99, 125, 234
Shepherd, ... 13, 16, 82, 84, 145, 170

Smirlock 99, 234
Smirlock, ... 16
Snow, ... 27
Strategic Intent 228
Tellis and Fornell, ... 27
Thackray, ... 16
Thompson & Strickland, ... 166
Thompson & Strickland) 168
Ucheda, ... 16
Urban et al, ... 145
Urban, Carter, Gaskin and Mucha 60
Urban, Carter, Gaskins and Mucha, ... 60
Van den Bogaerde, ... 67
Varadarajan and Dillon, ... 13
Von Neumann and Morgenstern 88
Wagner, ... 380
Ward & Stasch, ... 66
Ward and Stasch 192
Weigelt & MacMillan, ... 16
Weiss 80
Weiss, ... 16, 80, 81, 145, 170
Wernerfelt 90, 92, 95
Wernerfelt and Karnani 95
Wernerfelt, ... 16, 65, 88, 91-95
Woo 47, 49, 237, 240
Woo & Cooper 50, 129, 207
Woo & Cooper, ... 16, 27, 235
Woo and Cooper 2, 13, 42, 49, 237
Woo and Cooper, ... 40, 44, 45
Woo and Cooper's 47
Woo, ... 16, 27, 48, 145
Yavitz & Newman, ... 166
Yavitz & Newman) 168
Yavitz and Newman, ... 39
Zeithaml & Fry, ... 58
Zeithaml and Fry 57, 126



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