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(54) Title: AUTOMATICALLY PRESCRIBING TOTAL BUDGET FOR MARKETING AND SALES RESOURCES AND ALLOCATION ACROSS SPENDING CATEGORIES

(57) Abstract: In one embodiment a software facility that uses a qualitative description of a subject offering to automatically prescribe both (1) a total budget for marketing and sales resources for a subject offering and (2) an allocation of that total budget over multiple spending categories -- also referred to as 'activities' -- in a manner intended to optimize a business outcome such as profit for the subject offering based on experimentally-obtained econometric data ('the facility') is provided.



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AUTOMATICALLY PRESCRIBING TOTAL BUDGET FOR MARKETING
AND SALES RESOURCES AND ALLOCATION
ACROSS SPENDING CATEGORIES

CROSS-REFERENCE TO RELATED APPLICATION(S)

[0001] This application claims the benefit of the following U.S. Provisional Patent Application Nos: 1) 61/030,550, filed February 21, 2008; 2) 61/084,252, filed July 28, 2008; 3) 61/084,255, filed July 28, 2008; 4) 61/085,819, filed August 1, 2008 ; and 5) 61/085,820, filed August 1, 2008, all of which are incorporated herein by reference.

TECHNICAL FIELD

[0002] The described technology is directed to the field of automated decision support tools, and, more particularly, to the field of automated budgeting tools.

BACKGROUND

[0003] Marketing communication ("marketing") is the process by which the sellers of a product or a service—i.e., an "offering"—educate potential purchasers about the offering. Marketing is often a major expense for sellers, and is often made of a large number of components or categories, such as a variety of different advertising media and/or outlets, as well as other marketing techniques. Despite the complexity involved in developing a marketing budget attributing a level of spending to each of a number of components, few useful automated decision support tools exists, making it common to perform this activity manually, relying on subjective conclusions, and in many cases producing disadvantageous results.

[0004] In the few cases where useful decision support tools exist, it is typically necessary for the tool's user to provide large quantities of data about past allocations of marketing resources to the subject offering, and the results that that they produced. In many cases, such as in the cases of a new offering, such data is not available. Even

where such data is available, it can be inconvenient to access this data and provide it to the decision support tool.

[0005] Accordingly, a tool that automatically prescribed an advantageous allocation of funds or other resources to an offering and its various components without requiring the user to provide historical performance data for the offering would have significant utility.

BRIEF DESCRIPTION OF THE DRAWINGS

[0006] Figure 1 is a high-level data flow diagram showing data flow within a typical arrangement of components used to provide the facility.

[0007] Figure 2 is a block diagram showing some of the components typically incorporated in at least some of the computer systems and other devices on which the facility executes.

[0008] Figure 3 is a table drawing showing sample contents of a library of historical marketing efforts.

[0009] Figure 4 is a display diagram showing a sign-in page used by the facility to limit access to the facility to authorized users.

[0010] Figure 5 is a flow diagram showing a page display generated by the facility in a view/edit mode.

[0011] Figures 6-9 show displays presented by the facility in order to solicit information about the subject offering for which an overall marketing budget and its distribution are to be prescribed by the facility.

[0012] Figure 10 is a display diagram showing a result navigation display presented by the facility after collecting information about the subject offering to permit the user to select a form of analysis for reviewing results.

[0013] Figure 11 is a display diagram showing a display presented by the facility to convey the optimal total marketing budget that the facility has is determined for the subject offering.

[0014] Figure 12 is a display presented by the facility to show spending mix information. The display includes an overall budget 1201 prescribed by the facility.

[0015] Figure 13 is a process diagram that describes collecting additional offering attribute information from the user.

[0016] Figure 14 is a process diagram showing the derivation of three derived measures for the subject offering: cognition, affect, and experience.

[0017] Figure 15 is a table diagram showing sets of marketing activity allocations, each for a different combination of the three derived attributes shown in Figure 14.

[0018] Figure 16 is a process diagram showing how the initial allocation specified by the table in Figure 15 should be adjusted for a number of special conditions 1600.

[0019] Figure 17 is a process diagram showing how the facility determines dollar amount for spending on each marketing activity.

[0020] Figure 18 is a process diagram showing the final adjustment to the results shown in Figure 17.

[0021] Figure 19 is a display diagram showing a display presented by the facility to portray resource allocation prescriptions made by the facility with respect to a number of related subject offerings, such as the same product packaged in three different forms.

[0022] Figures 20-23 are display diagrams showing a typical user interface presented by the facility in some embodiments for specifying and automatically collecting data inputs.

[0023] Figures 24-26 show screenshots for a facility providing a method of digital buying for any resource or media channel.

DETAILED DESCRIPTION

[0024] The following description is intended to illustrate various embodiments of the invention. As such, the specific modifications discussed are not to be construed as limitations on the scope of the invention. It will be apparent to one skilled in the art that various equivalents, changes, and modifications may be made without departing from the

scope of the invention, and it is understood that such equivalent embodiments are to be included herein.

[0025] A software facility that uses a qualitative description of a subject offering to automatically prescribe both (1) a total budget for marketing and sales resources for a subject offering and (2) an allocation of that total budget over multiple spending categories -- also referred to as "activities" -- in a manner intended to optimize a business outcome such as profit for the subject offering based on experimentally-obtained econometric data ("the facility") is provided.

[0026] In an initialization phase, the facility considers data about historical marketing efforts for various offerings that have no necessary relationship to the marketing effort for the subject offering. The data reflects, for each such effort: (1) characteristics of the marketed offering; (2) total marketing budget; (3) allocation among marketing activities; and (4) business results. This data can be obtained in a variety of ways, such as by directly conducting marketing studies, harvesting from academic publications, etc.

[0027] The facility uses this data to create resources adapted to the facility's objectives. First, the facility calculates an average elasticity measure for total marketing budget across all of the historical marketing efforts that predicts the impact on business outcome of allocating a particular level of resources to total marketing budget. Second, the facility derives a number of adjustment factors for the average elasticity measure for total marketing budget that specify how much the average elasticity measure for total marketing budget is to be increased or decreased to reflect particular characteristics of the historical marketing efforts. Third, for the historical marketing efforts of each of a number groups of qualitatively similar offerings, the facility derives per-activity elasticity measures indicating the extent to which each marketing activity impacted business outcome for marketing efforts for the group.

[0028] The facility uses interviewing techniques to solicit a qualitative description of the subject offering from a user. The facility uses portions of the solicited qualitative description to identify adjustment factors to apply to the average elasticity measure for total marketing budget. The facility uses a version of average elasticity measure for total

marketing budget adjusted by the identified adjustment factors to identify an ideal total marketing budget expected to produce the highest level of profit for the subject offering, or to maximize some other objective specified by the user.

[0029] After identifying the ideal total marketing budget, the facility uses the solicited qualitative description of the subject offering to determine which of the groups of other offerings the subject offering most closely matches, and derives a set of ideal marketing activity allocations from the set of per-activity elasticity measures derived for that group.

[0030] In some embodiments, the facility considers data received from one or more of a number of types of external sources, including the following: syndicated media, syndicated sales data, internet media, internet behavioral data, natural search query data, paid search activity data, media data like television, radio, print, consumer behavioral data, tracking survey data, economic data, weather data, financial data like stock market, competitive marketing spend data, and online and offline sales data.

[0031] In some embodiments, the facility uses a uniform set of resource elasticities or lift factors to combine work-amended resource allocations produced using two different optimization schemes based upon different user inputs. In some embodiments, the facilities provides functionality for buying and scheduling marketing resources in accordance with allocations recommended by the facility. In some embodiments, the facility optimizes resource allocations within multi-media type and/or multi-platform media providers.

[0032] In this manner, the facility automatically prescribes a total marketing resource allocation and distribution for the subject offering without requiring the user to provide historical performance data for the subject offering.

[0033] The sales or market response curves determined by the facility predict business outcomes as mathematical functions of various resource drivers:

$$\text{Sales} = F(\text{Any Set of Driver Variables}),$$

where F denotes a statistical function with the proper economic characteristics of diminishing returns

[0034] Further, since this relationship is based on data, either time series, cross-section, or both time series and cross-section, the method inherently yields direct, indirect, and interaction effects for the underlying conditions.

[0035] These effects describe how sales responds to changes in the underlying driver variables and data structures. Often, these response effects are known as "lift factors." As a special subset or case, these methods allow reading any on-off condition for the cross-sections or time-series.

[0036] There are various classes of statistical functions which are appropriate for determining and applying different types of lift factors. In some embodiments, the facility uses a class known as multiplicative and log log (using natural logarithms) and point estimates of the lift factors.

[0037] In certain situations, the facility uses methods which apply to categorical driver data and categorical outcomes. These include the, classes of probabilistic lift factors known as multinomial logit, logit, probit, non-parametric or hazard methods.

[0038] In various embodiments, the facility uses a variety of other types of lift factors determined in a variety of ways. Statements about "elasticity" herein in many cases extend to lift factors of a variety of other types.

[0039] Figure 1 is a high-level data flow diagram showing data flow within a typical arrangement of components used to provide the facility. A number of web client computer systems 110 that are under user control generate and send page view requests 131 to a logical web server 100 via a network such as the Internet 120. These requests typically include page view requests and other requests of various types relating to receiving information about a subject offering and providing information about prescribed total marketing budget and its distribution. Within the web server, these requests may either all be routed to a single web server computer system, or may be loaded-balanced among a number of web server computer systems. The web server typically replies to each with a served page 132.

[0040] While various embodiments are described in terms of the environment described above, those skilled in the art will appreciate that the facility may be implemented in a variety of other environments including a single, monolithic computer system, as well as various other combinations of computer systems or similar devices connected in various ways. In various embodiments, a variety of computing systems or other different client devices may be used in place of the web client computer systems, such as mobile phones, personal digital assistants, televisions, cameras, etc.

[0041] Figure 2 is a block diagram showing some of the components typically incorporated in at least some of the computer systems and other devices on which the facility executes. These computer systems and devices 200 may include one or more central processing units ("CPUs") 201 for executing computer programs; a computer memory 202 for storing programs and data while they are being used; a persistent storage device 203, such as a hard drive for persistently storing programs and data; a computer-readable media drive 204, such as a CD-ROM drive, for reading programs and data stored on a computer-readable medium; and a network connection 205 for connecting the computer system to other computer systems, such as via the Internet. While computer systems configured as described above are typically used to support the operation of the facility, those skilled in the art will appreciate that the facility may be implemented using devices of various types and configurations, and having various components.

[0042] Figure 3 is a table drawing showing sample contents of a library of historical marketing efforts. The library 300 is made up of entries, such as entries 310, 320, and 330, each corresponding to a set of one or more historical marketing efforts each sharing a similar context. Each entry contains a number of context attribute values that hold true for the historical marketing efforts corresponding to the entry, including values for a new product attribute 311, a cognition score attribute 312, an affect score attribute 313, an experience score 314, a message clarity score 315, and a message persuasiveness score 316. Each entry further contains values for the following statistical measures for the historical marketing efforts corresponding to the entry: log of the outcome 351, base 352, log of outcome with a lag factor 353, log of external 354, log of relative price 355, and log of relative distribution 356. Each entry further contains logs of advertising efficiency

values for each of a number of categories, including TV 361, print 362, radio 363, outdoor 364, Internet search 365, Internet query 366, Hispanic 367, direct 368, events 369, sponsorship 370, and other 371.

[0043] Figure 4 is a display diagram showing a sign-in page used by the facility to limit access to the facility to authorized users. A user enters his or her email address into field 401, his or her password into field 402, and selects a signing control 403. If the user has trouble signing in in this manner, the user selects control 411. If the user does not yet have an account, the user selects control 421 in order to create a new account.

[0044] Figure 5 is a flow diagram showing a page display generated by the facility in a view/edit mode. The display lists a number of scenarios 501-506, each corresponding to an existing offering prescription generated for the user, or generated for an organization with which the user is associated. For each scenario, the display includes the name of the scenario 511, a description of the scenario 512, a date 513 on which the scenario was created, and a status of the scenario. The user may select any of the scenarios, such as by selecting its name, or its status, to obtain more information about the scenario. The display also includes a tab area 550 that the user may use in order to navigate different modes of the facility. In addition to tab 552 for the present view/edit mode, the tab area includes a tab 551 for a create mode, a tab 553 for a compare mode, a tab 554 for a send mode, and a tab 555 for a delete mode. The user can select any of these tabs in order to activate the corresponding mode.

[0045] Figures 6-9 show displays presented by the facility in order to solicit information about the subject offering for which an overall marketing budget and its distribution are to be prescribed by the facility. Figure 6 shows controls for entering values for the following attributes: current revenue 601, current annual marketing spending 602, anticipated growth rate for the next year in the industry as a whole 603, gross profit expressed as a percentage of revenue 604, and market share expressed as a percentage of dollar 605. The display further includes a save control 698 that the user can select in order to save the attribute values that they have entered, and a continue control 699 that

the user may select in order to proceed to the next display for entering the context attribute values.

[0046] Figure 7 is a further display presented by the facility to solicit attribute values for the subject offering. It includes controls for inputting values for the following context attributes: industry newness 701, market newness 702, channel newness 703, and marketing innovation 704.

[0047] Figure 8 is a further display presented by the facility in order to solicit attribute values. It has controls that the user may use to enter the values for the following context attributes: newness of marketing information content 801, company position in the market 802, market share 803, and pricing strategy 804.

[0048] Figure 9 is a further display presented by the facility in order to solicit attribute values. It contains a control 901 that the user may use to determine whether customer segment detail will be included. The display further contains charts 910 and 920 for specifying values of additional context attributes. Chart 910 can be used by the user to simultaneously specify values for the consistency and clarity of branding messaging and positioning efforts by the company responsible for the subject offering. In order to use chart 910, the user selects a single cell in the grid included in the chart corresponding to appropriate values of both the consistency and clarity attributes. Section 920 is similar, enabling the user to simultaneously select appropriate values for the persuasiveness and likeability of the company's advertising.

[0049] Figure 10 is a display diagram showing a result navigation display presented by the facility after collecting information about the subject offering to permit the user to select a form of analysis for reviewing results. The display includes a control 1001 that the user may select in order to review market share information relating to the result, a control 1002 that the user may select in order to review spending mix information relating to the result, and a control 1003 that the user may select in order to review profit and loss information relating to the result.

[0050] Figure 11 is a display diagram showing a display presented by the facility to convey the optimal total marketing budget that the facility has determined for the subject

offering. The display includes a graph 1110 showing two curves: revenue with respect to total marketing budget (or "marketing spend") 1120 and profit (i.e., "marketing contribution after cost") with respect to total marketing budget 1130. The facility has identified point 1131 as the peak of the profit curve 1130 and has therefore identified the corresponding level of marketing spend, \$100, as the optimal marketing spend. The height of point 1131 shows the expected level of profit that would be produced by this marketing spend, and the height of point 1121 shows the expected level of total revenue that would be expected at this marketing spend. Table 1150 provides additional information about the optimal marketing spend and its calculation. The table shows, for each of current marketing spend 1161, ideal marketing spend 1162, and delta between these two 1163: revenue 1151 projected for this level of marketing spend; costs of goods and services 1152 anticipated to be incurred at this level of marketing spend; gross margin 1153 to be procured at this level of marketing spend; the marketing spend 1154; and the marketing contribution after cost 1155 expected at this level of marketing spend.

[0051] In order to define the profit curve and identify the total marketing budget level at which it reaches its peak, the facility first determines a total marketing budget elasticity appropriate for the subject offering. This elasticity value falls in a range between .01 and .30, and is overridden to remain within this range. The facility calculates the elasticity by adjusting an initial elasticity value, such as .10 or .11, in accordance with a number of adjustment factors each tied to a particular attribute value for the subject offering. Sample values for these adjustment factors are shown below in Table 1.

	Industry Newness	Marketing Innovation	New Information	Market Share	Advertising Quality
High	.05	.1	.05	-.03	.04
Medium	0	0	0	0	0
Low	-.02	-.03	-.02	.02	-.03

Table 1

The industry newness column corresponds to control 701 shown in Figure 7. For example, if the top check box in control 701 is checked, then the facility selects the adjustment factor .05 from the industry newness column; if either of the middle two boxes

in control 701 are checked, then the facility selects the adjustment factor 0 from the industry newness column; and if the bottom checkbox in control 701 is checked, then the facility selects the adjustment factor -.02 from the industry newness column. Similarly, the marketing innovation column corresponds to control 704 shown in Figure 7, the new information column corresponds to control 801 shown in Figure 8, and the market share column corresponds to control 803 shown in Figure 8. The advertising quality column corresponds to charts 910 and 920 shown in Figure 9. In particular, the sum of the positions of the cells selected in the two graphs relative to the lower left-hand corner of each graph is used to determine a high, medium, or low level of advertising quality.

[0052] The facility then uses the adjusted total marketing budget elasticity to determine the level of total marketing budget at which the maximum profit occurs, as is discussed in detail below in Table 2.

Definitions:

Sales = S

Base = β

Marketing Spend = M

Elasticity = α

Cost of Goods Sold (COGS) = C

Profit = P (P is a function of S, C, and M, as defined in equation 2 below)

Fundamental equation relating Sales to Marketing (alpha and beta will be supplied)

Equation (1): $S = \beta * M^\alpha$

Equation relating Sales to Profits (C will be known), so that we can substitute for Sales in equation (1) above and set the program to maximize profits for a given alpha and beta.

Equation (2): $P = [S * (1 - C)] - M$

Solve Equation (2) for Sales:

$$\frac{(P + M)}{(1 - C)} = S$$

Substitute for S in Fundamental Equation:

$$\frac{(P + M)}{(1 - C)} = \beta * M^\alpha$$

Solve for P as a function of M, C, alpha and beta:

$$P = [\beta * M^\alpha * (1 - C)] - M$$

Now we have P as a function of M.

Take derivatives

$$\frac{dP}{dM} = [(1 - C)\beta\alpha] * M^{\alpha-1} - 1$$

Set to zero to give local inflection point:

$$1 = [(1 - C)\beta\alpha] * M^{\alpha-1}$$

Solve for M

$$M = \left(\frac{1}{[(1 - C)\beta\alpha]} \right)^{\frac{1}{\alpha-1}}$$

Check sign of second derivative (to see that it is a max not a min)

$$[(1 - C)\beta\alpha(\alpha - 1)] * M^{\alpha-2} < 0 \quad ?$$

Table 2

[0053] Figure 12 is a display presented by the facility to show spending mix information. The display includes an overall budget 1201 prescribed by the facility. The user may edit this budget if desired to see the effect on distribution information shown below. The display also includes controls 1202 and 1203 that the user may use to identify special issues relating to the prescription of the marketing budget. The display further includes a table 1210 showing various information for each of a number of marketing activities. Each row 1211-1222 identifies a different marketing activity. Each row is further divided into the following columns: current percentage allocation 1204, ideal percentage allocation 1205, dollar allocation to brand in thousands 1206, dollar allocation to product in thousands 1207, and dollar difference in thousands between current and ideal. For example, from row 1214, it can be seen that the facility is prescribing a reduction in allocation for print advertising from 15% to 10%, \$3.3 million of which would be spent on print advertising for the brand and \$2.2 million of which would be spent on print advertising for the product, and that the current allocation to print marketing is \$1.85 million greater than the ideal allocation. The display further includes a section 1230 that the user may use to customize a bar chart report to include or exclude any of the budget and marketing activities. It can be seen that the user has selected check boxes 1231-1233, causing sections 1250, 1260, and 1270 to be added to the report containing bar graphs for the TV, radio, and print marketing activities. In section 1250 for the TV marketing activity contains bar 1252 for the current percentage allocation to national TV, bar 1253 for the current percentage allocation to cable TV, bar 1257 for the ideal percentage allocation to national TV, and bar 1258 for the ideal percentage allocation for cable TV. The other report sections are similar.

[0054] Figures 13-18 describe the process by which the facility determines the activity distribution shown in Figure 12. Figure 13 is a process diagram that describes collecting additional offering attribute information from the user. In some embodiments, this additional attribute information is obtained from the user using a user interface that is similar in design to that shown in Figures 6-9. Figure 13 shows a number of attributes 1300 for which values are solicited from the user for the subject offering.

[0055] Figure 14 is a process diagram showing the derivation of three derived measures for the subject offering: cognition, affect, and experience. The values for these derived measures are derived based upon the value of attributes shown in Figure 13 provided by the user for the subject offering.

[0056] Figure 15 is a table diagram showing sets of marketing activity allocations, each for a different combination of the three derived attributes shown in Figure 14. For example, Figure 15 indicates that, for subject offerings assigned a high cognition score and medium affects score should be assigned marketing resources in the following percentages: TV 44%, print magazines 12%, print newspapers 0%, radio 5%, outdoor 0%, internet search 10%, internet ad words 5%, direct marketing 12%, sponsorships/events 7%, PR/other 5%, and street 0%. Each of these nine groups of allocations is based on the relative activity elasticities, like those shown in Figure 3, grouped by the cognition and affect scores indicated for the groups of historical marketing efforts contained in the library.

[0057] Figure 16 is a process diagram showing how the initial allocation specified by the table in Figure 15 should be adjusted for a number of special conditions 1600.

[0058] Figure 17 is a process diagram showing how the facility determines dollar amount for spending on each marketing activity. The process 1700 takes the size of target audience specified by the user and divides by affective percentage of target to obtain a purchased reach – that is, the number of users to whom marketing messages will be presented. This number is multiplied by the adjusted allocation percentage to obtain a frequency per customer which is then multiplied by a number of purchase cycles per year and cost per impression to obtain estimated spending for each activity.

[0059] Figure 18 is a process diagram showing the final adjustment to the results shown in Figure 17. Process 1800 specifies scaling the target audience up or down to match the total marketing budget determined by the facility for the subject offering.

[0060] Figure 19 is a display diagram showing a display presented by the facility to portray resource allocation prescriptions made by the facility with respect to a number of related subject offerings, such as the same product packaged in three different forms.

The display includes a chart 1910 that graphically depicts each of the related subject offerings, pack A, pack B, and pack C, each with a circle. The position of the center of the circle indicates the current and ideal total marketing budget allocated to the offering, such that each circle's distance and direction from a 45° line 1920 indicates whether marketing spending should be increased or decreased for the offering and by how much. For example, the fact that the circle 1911 for pack A is above and to the left of the 45° line indicates that marketing spending should be increased for pack A. Further, the diameter and/or area of each circle reflects the total profit attributable to the corresponding subject offering assuming that the ideal total marketing budget specified by the facility for that offering is adopted. The display also includes a section 1930 containing a bar graph showing market share and volume, both current and ideal, for each related subject offering. The display also includes a section 1940 showing information similar to that shown in Section 1150 of Figure 11.

[0061] In some embodiments, the facility considers data received from one or more of a number of types of external sources, including the following: syndicated media, syndicated sales data, internet media, internet behavioral data, natural search query data, paid search activity data, media data like television, radio, print, consumer behavioral data, tracking survey data, economic data, weather data, financial data like stock market, competitive marketing spend data, and online and offline sales data.

[0062] In various embodiments, the facility incorporates one or more of the following additional aspects, discussed in greater detail below:

- 1) Minimum Distance Matching of communication touchpoints to brand/client needs;
- 2) A classification method for communication needs (cognition, affect and experience);
- 3) The interactions of traditional media and internet media, as well as experience factors;
- 4) The joint optimization of core media, internet media and experience factors
- 5) The combination of user-specific multi-source data (USMSD) for outcomes and driver variables necessary for the computations;
- 6) The intelligent automation of the data stack for modeling;
- 7) The intelligent automation of model specifications, statistical estimation and expert knowledge;

- 8) The use of dynamic, real time internet "native" search data as predictive, momentum (DNM) indicators of marketing and brand response.
- 9) Measurement of the dynamic interactions, optimization, forecasting and prediction of outcomes using marketing drivers, brand momentum and marketing ROI
- 10) Reporting of brand/ client results

1) Minimum Distance Matching

[0063] (1.1) Using the input questions for Information (Qx), Affect (Qy) and Experience (Qz), the facility classifies the brand/ client communication needs using these 3 dimensions and a 3 point scale of low, medium and high (coded numerically as 1,2,3).

[0064] (1.2) The facility can allocate resources over any of a large number of communication touchpoints, also known as communication channels. For each channel, the facility considers the capability of the "medium" to deliver information, affect and experience dimensions of brand/ client communications.

[0065] In selecting communication channels, the facility minimizes the "distance" between the communication needs and the mediums/ channels to then select touchpoints that are relevant for market response and subsequent application of the elasticities and ideal economics computations.

[0066] Distance is defined as the sum of squared differences (SSD) between the brand/ client need and the medium/ channel.

$$\text{Distance} = (\text{Medium Cognition} - \text{Brand Cognition})^2 + (\text{Medium Affect} - \text{Brand Affect})^2 + (\text{Medium Experience} - \text{Brand Experience})^2$$

^ denotes exponentiation

2) Method of Classification

[0067] The method of classification is described in sections 1.1 and 1.2 above.

3) The method of interaction between traditional media and internet media

The core outcome equation is defined (elsewhere) as

Outcomes = (Base Outcome) * ((Resource 1)^{Elasticity 1}) * ((Resource 2^{Elasticity 2}) etc.

Additional resources multiply the right hand side.

[0068] The facility combines traditional media in Equation 3 as the so-called "direct path" linking resources and outcomes.

[0069] The facility extends this model to include the internet in 2 ways:

[0070] Method 3.1 is to add and include internet metrics for online display and paid search in conjunction with traditional media (TV, Print, Radio, etc.).

[0071] Method 3.2 is to also add and include one or more variables/metrics for internet "natural" search (VINS). An example of natural search is count data on words used in internet search boxes (as distinguished from impressions and clicks).

[0072] The facility then adds and applies a 2nd "indirect path" equation whereby internet natural search is explained by traditional marketing and sales resources.

Marketing Outcome = F (traditional resources, internet resources, natural search, base)

Natural Search = F (traditional resources, internet resources, base)

[0073] These 2 equations work "recursively".

[0074] Practically, marketing and sales resources drive consumer/ market attention and discovery. The discovery behavior is measured by the natural search. Subsequently in the recursive process, internet resources then "convert" attention into action.

4) Joint Optimization

[0075] The direct and indirect path equations then provide the mechanics for the "topline" of the economics optimization.

[0076] The facility applies varying resource input levels, flows the outcomes through the recursive topline equations to yield outcomes and then applies the associated elasticities (for diminishing returns) and the associated margins and costs of resources.

[0077] Also, in some cases the facility extends this method with a 3rd equation whereby Paid Search also is handled comparably to natural search. Hence, Paid Search is an intermediate outcome.

[0078] Any dynamic, momentum, intermediate or interim brand metric (awareness, consideration, buzz) is handled using this 3rd equation method.

5) User-Specific Multi-Source Data (USMSD)

[0079] The demand / outcome equations require data inputs that are:

- Brand specific;
- External industry specific;
- Data for Marketing and Sales resources; and
- Internet specific data related to the brand/ user/ client

[0080] The facility is unique in bringing together these 4 data streams for the purposes of demand modeling using the 2 equation method outlined above.

[0081] 5.1) Brand data typically includes volumetric sales, pricing, revenue, new customer counts, existing customer counts, customer retention, customer attrition and customer upsell/ cross sell of products or services. It also includes industry and brand/ client attributes from the input questions.

[0082] 5.2) External data includes a series of external factors and drivers. Typically, these include elements describing economic conditions and trends as well as weather, competitors marketing and sales resources and others.

[0083] 5.3) Marketing and Sales data includes various measures for resource inputs. These can include resource spending for communication mediums/ touchpoints. They can include physical measures of resources for mediums/touchpoints (time-based, ratings points or physical units such as direct mail counts etc).

[0084] 5.4) The Internet specific data includes mainly measures of natural search using word counts and counts of word clusters and semantic phrases. Typically, these word measures address the brand name itself, aspects of the key phrasing associated with the brand (the so-called universal selling proposition), aspects of the brand positioning such as Quality and more generic or generalized words associated with the brand.

[0085] Figures 20-23 are display diagrams showing a typical user interface presented by the facility in some embodiments for specifying and automatically collecting some or all of these data inputs. Figure 20 shows an initial display containing a list of business categories, from which the user selects the most appropriate category.

[0086] Figure 21 shows a dashboard indicating the data retrieval status for the four categories of data inputs 2110, 2120, 2130, and 2140. Each type has status indicators—e.g., status indicators 2111-2113 for internet data category 2110--to indicate the retrieval status of data in this category. Additionally, the user can click on any of the data types to view detailed information about data of that type.

[0087] Figure 22 shows a detailed display for data in the marketing and sales data category. This display 2200 shows a number of different components 2211 of the marketing and sales data category; status indicators 2212 indicating the retrieval status of each of the components, and controls 2213 that the user may operate to initiate retrieval of each component.

[0088] Figure 23 shows a display. The display includes controls 2311 for entering natural search terms and paid search terms that are relevant to the offering; controls 2312 for specifying relevant time periods for each natural search and paid search; and controls 2313 for specifying where frequency data for a natural search and paid search is retrieved from and stored.

6) Intelligent Data Stack

[0089] The facility uses the data dashboard user interface shown in Figures 20-23 to allow users to select the appropriate set of outcome and driver data, as well as financial factors to be used by the facility.

[0090] The facility then provides a data input template for each data class (see 5.1, 5.2, 5.3, 5.4 above).

[0091] The facility then applies a set of quality and data scrubbing algorithms to verify for the user the overall completeness, consistency and accuracy of the designated data streams.

[0092] The facility then transforms and loads these data vectors into the overall the facility matrix for modeling (MOM).

[0093] The row structure for MOM typically involves time dimensions, customer segments, channels of trading and/ or geographic layers.

[0094] The column structure for MOM typically involves final outcome variables, intermediate outcome variables and driver variables (see 5.1, 5.2, 5.3 and 5.4).

[0095] The facility uses a so-called log/log transformation for the data and the demand model specification.

[0096] $\text{Ln}(\text{Outcome}) = \text{Constant} + \text{Coef1} * \text{Ln}(\text{Driver1}) + \text{Coef2} * \text{Ln}(\text{Driver2}) + \text{Coef3} * \text{Ln}(\text{Driver 3}), \text{etc.}$

[0097] The facility applies generalized least squares (GLS) methods for the statistical estimation of the various equations.

[0098] The facility also constructs any necessary "dummy" variables used in the econometrics, including seasonality.

7) Intelligent Estimation

[0099] The facility includes linkage and comparative methods across the Candidate Models (CM), the statistical diagnostics, t-values and GLS estimates of model/ equation coefficients.

[00100] The facility conducts GLS estimation of approximately 40 CM variants and associated diagnostics. (The facility includes the numerical algorithms and methods for GLS.)

[00101] The facility then selects and utilizes the BLUS (best, linear, unbiased estimates) of response coefficients (response elasticities) for economic optimization for resource levels and mix.

[00102] This selection is determined by best fit, best t-values, the absence of multi-collinearity, the absence of serial correlation and elasticity estimates which are consistent with the Expert Library (CEL) and proper numerical signs (positive, negative).

8) Dynamic Native Momentum (DNM)

[00103] As described above, the word counts and word count clusters related and derived from internet natural search include and address concepts for brand momentum, brand quality and brand image.

[00104] The facility classifies these word/ semantic concepts into driver variables which are relevant and used within the 2 equation direct path and indirect path equations (see above). These semantic "buckets" include counts of received queries, related to the brand name itself, counts related to the product or service category and the brand/ clients competitors and counts related to more generalized themes (for example, hybrid technology vehicles vs. Lexus RXH).

[00105] The facility includes dynamic feeds of word counts from natural search from search providers such as Google, Yahoo or MSN or others (MySpaces, Facebook, YouTube) as well as wireless and mobile devices.

[00106] DNM data are typically a dynamic sample of on-going internet traffic. The facility uses counts per "x" million queries.

9) Dynamic Use of Internet Momentum in Optimization, Prediction and Forecasting

[00107] The facility uses the 2 equation method outlined above to construct top-down optimization of brand/ client goals relative to resource drivers. Drivers here include both traditional marketing and sales, as well as pricing and internet resources.

[00108] The facility uses both direct computation (closed form calculus) and a branch and bound (B&B) heuristic method to compute ideal outcomes using the domain of resource drivers.

10) The Facility Reporting of Brand/ Client Outcomes and Results

[00109] The facility includes visual reporting and GUIs for brand/client outcomes (see Compass SMB, Compass Agency and Compass USMSD/DNM herein.) For example, in various embodiments, the facility displays outcomes using one or more of a sales response curve, a profit curve, and a current vs. ideal bar graph.

[00110] In various embodiments, the facility allocates resources across some or all of these channels, and in some cases additional channels:

- Television
- Movie theatre
- Radio
- Newspapers
- Magazines
- Print articles
- Customer magazines
- Loose inserts
- Internet advertising
- Internet search
- Brand/company websites
- Emails
- Outdoor
- Home shopping TV
- Product placement
- Airport
- Public transportation
- Sponsorship of sports events

Sponsorship of other events
Doctor's office
800/toll free lines
Mailings at home
Celebrity endorsement
In-store advertising
In-store examination
Promotions and special offers
Product samples
Recommendations from friends and family
Recommendations from professionals
Video on demand
Video games
Streaming video
Interactive TV
Spec text table

"ACE" ADJUSTED, MULTI-SOURCE MARKET RESPONSE ELASTICITY LIBRARY

[00111] Market response optimization (MRO) typically requires best, linear, unbiased estimates (BLUS) of resource response elasticity parameters which are based on data which embodies (1) adequate variation in resource levels and mix, as well as (2) adequate data observations.

[00112] In some embodiments, the facility uses a 4-step method for computing BLUS estimates of elasticity using cross-brand and cross-resource 3rd Party data. The 4-step method uses of ACE-L meta-data in combination with consistent 3rd Party data on outcomes and drivers in further combination with the best statistical methods for BLUS.

[00113] The value and result is a comprehensive database of cross-brand, cross media elasticities which is used for resource optimization. This overall methodology allows and measures (1) the pure effect of resource spending on sales outcomes across a wide range of cross brand and cross resource conditions and (2) the impacts of alternative ways to define "content impacts" via the ACE-L scores

Multi-Source Data

[00114] There are 2 main classes of data for modeling – outcomes and drivers. For econometric modeling, the ACE method typically utilizes combined time-series and cross-section data.

[00115] For the Multi-Source Library (MSL) and outcomes (dependent variables), ACE uses a consistent definition of sales revenue for the brands/ services in the library.

[00116] For the Multi-Source Library (MSL) and resource drivers, ACE uses a range of independent variables.

[00117] Step 1: The facility obtains data for these drivers from 3rd Party data providers. For example, data series on media spending by time period, market location and type of media can be obtained from 1 or more 3rd Party sources. Data classes include the economy, competition, tracking, pricing, channel funds, salesforce, retail store conditions, offline marketing and online marketing as well as certain momentum data.

[00118] Typically, these 3rd Party data sources (3PDS) have known or well understood differences relative to client-specific transactional data (errors in variables, see below). However, these differences are generally thought to be consistent.

[00119] The cross-sections in the Multi-Source Library consist of brands/services, geographies and more. We apply the 3PDS resource drivers, defined consistently, within and across the library data for the brands, etc. Effectively, the facility eliminates data variation due to differences in data definitions across brands/ clients.

ACE Adjusted, Dynamic Parameters

[00120] The basic method is to define Sales = Base Volume times (Marketing Resource) ^ Elasticity Parameter, where ^ denotes the natural exponent.

$$\text{Sales} = (\text{Base}) * (\text{Resource}) ^ (\text{Delta})$$

[00121] For each brand (i.e. data record), the facility defines its ACE scores on a 1-5 scale – for Affect (A), Cognition (C) and Experience (E). Also, the facility adds one factor for Local Market or Time Sensitivity (L).

[00122] Step 2: The facility then extends the modeling using the following specification:

Elasticity Parameter (Delta) = (c0 + c1 * Affect + c2 * Cognition + c3 * Experience + c4* Local).

[00123] Each record (cross-section) in the Library uses and includes the ACE-L scores.

[00124] Thus, up and down movement in the elasticity due to the brand characteristics, and the capacity of the media type to carry the content related to affect, cognition, and experience, is permitted.

[00125] For example, increasing the Affect score needed to motivate the consumer in turn will allow the elasticity of TV media to increase in this situation versus other brands with differing content goals. Lift factors for Print and Internet increase with information needs. Lift for Outdoor, Radio and Newspaper increase with the local market focus.

Complete BLUS Estimation of Response Elasticities

[00126] The basic or core elasticity parameters, absent ACE-L, use a formulation as follows:

Core Equation:

$$\text{Ln(Sales)} = d1 * \text{Ln(Sales Prior Period)} + d2 * \text{Ln(Base)} + \text{Delta} * \text{Ln(Resource)} + \text{Other} + \text{Error}$$

[00127] Each resource extends this formulation similarly. Other factors which drive “Delta” are described in Compass®, including innovation.

[00128] Step 3: The facility substitutes forward the ACE adjustments into this Core Equation to replace Delta. The result are a series of direct effects and “interactions” with the ACE components, as additional drivers. As an example:

$$\text{Partial Component of Core Eq} = (C0 * \text{Ln (Resource)} + C1 * \text{Affect} * \text{Ln (Resource)} + \text{Other} + \text{Error})$$

[00129] Proper estimation of these direct and interaction parameters requires that the data and formulation are consistent with certain rules.

[00130] One rule or assumption is that the error terms are independent and identically distributed, albeit with similar variances.

[00131] However, due to the cross-section design, several aspects of the homogeneity assumptions will not be met.

[00132] This condition is known as heteroskedasticity.

[00133] Step 4: To correct for heteroskedasticity, the facility applies both Generalized Least Squares (GLS) estimation using Fixed Effects and corresponding “weights” for the cross-sections.

[00134] Other rules include correcting for serial correlation using lag terms.

ADDITIONAL FUNCTIONALITY

[00135] In some embodiments, the facility uses a uniform set of resource elasticities or lift factors to combine work-amended resource allocations produced using two different optimization schemes based upon different user inputs. In some embodiments, the facilities provides functionality for buying and scheduling marketing resources in accordance with allocations recommended by the facility. In some embodiments, the facility optimizes resource allocations within multi-media type and/or multi-platform media providers.

(1) Hybrid Anchoring For Distance And Outcome Parameters

[00136] In some embodiments, two main methods (Mix 1 and Mix 2) are available to the facility for determining the optimal resource mix for media types and communication channels.

[00137] Mix 1 applies a full computational calculus, in that optimizes the client goals (e.g., volume or profit) subject to constraints, if any. The numerical method involves the sales revenue or profit goal function and the calculus for finding the maximum. By taking first derivatives for each driving resource (media type), the facility solves the set of derivative equations for the ideal resource level by type. The end result is that the ideal resource level and mix depend on both the elasticities by media type and the costs of the

resources (if measured in dollars). Having completed these calculations, the ideal resource mix is equivalent to the ratio of the respective elasticities. These elasticities as applied by the facility are obtained from the Library and applied to the user's scenario profile.

[00138] Since media channels and touchpoints are rapidly evolving, the facility also includes a 2nd method for computing ideal mix, performed using the ACE (Affect, Cognition, Experience) attributes. Here, the brand "position" is defined by the user's scenario profile and specific questions (and scales) for the Affect, Cognition, and Experience attributes.

[00139] For ACE (Mix 2), the Library includes and applies ACE scales to each media channel and touchpoint. For Mix 2, the facility suppresses media types which do not apply selects media types by minimizing the distance to the brand ACE position for communications; and apply reach, ideal frequency, and cost per impression computations to "layer" the media types into the mix in an ideal way.

[00140] In some embodiments, either of the Mix 1 and Mix 2 methods can be used alone, or the two may be combined, since one or the other may be more applicable to the user or media channels desired. In many situations, there can or will be overlap in the media channels and information available. For example, there typically is overlap either for the Internet channels (Display, Paid Search) or Print or Television or others.

[00141] Where its calculations have "overlap," the facility combines the two methods, rely on the fact that the elasticities in Mix 1 provide a causal linkage to outcomes (volume, profit).

[00142] Given Mix 2 and the overlapped resource (OR1), the facility centers the calculations using the known Mix 1 elasticity (KME1) and compute each of the remaining elasticities as a ratio. An example shown below:

	TOTAL	TV	PRINT	RADIO	OUTDOOR	DISPLAY	PAID SEARCH	OTHER
FROM LIBRARY MIX 1		0.04						
BACK-ANCHORED	$0.1 = .04 / (40/100)$	0.04	$0.005 = (5/100) * .1$	0.01	0.005	0.008	0.007	0.025
FROM ACE, MIX 2 PERCENTAGE	100	40	5	10	5	8	7	25

(2) Method Of Digital Buying For Any Resource Or Media Channel

[00143] Referring to the screen shot of Figure 24, having computed the ideal budget and mix for the user's goals, The facility also includes functionality that enables a user to purchase and schedule, or "flight" each resource or media type. Each medium purchase can be scheduled by month, choosing either all months or any particular subset of months in the year. The recommended amount can be equally distributed or varied, depending on the desire of the buy-side. This is illustrated by the screenshot of Figure 25.

[00144] In the screenshot of Figure 25, this facility indicates its total recommended resource allocation ("Total Planned Spend"). Each of the vertically-stacked horizontal bands corresponds to a different media type (e.g., television, radio, print, Internet search, Internet display, etc.). For each media type, the facility displays the recommended resource allocation for that media type (e.g., for television, \$17,748), as well as an amount that the user has committed to that media type using the user interface (presently \$0 for each of the media types). In order to request a purchase of media of a particular type, for each upcoming month, or "flight," in which the media is to be purchased, the user selects the checkbox corresponding to the month, and inputs a dollar value allocation underneath that month. These inputted values are reflected in the "requested spend" indications for each media type.

[00145] In some embodiments (not shown), the horizontal band for each media type includes additional information that is useful to specify to the media provider for that media type, such as physical location, time-of-day, or day-of-week, or various other targeting information, information specifying or identifying a creative, etc..

[00146] For each flight, the facility includes a drop down menu for selection of one or more media vendor. For each media type, the facility includes a set of media vendor partners (MVP), essentially as the supply side of the the facility's "marketplace".

[00147] The screenshot of Figure 26 shows how Internet Display advertising could be purchased either from Google AdSense or from DoubleClick, as an example.

[00148] As one illustration, the facility includes a standard "interfaces" and API's to vendors such Google, Yahoo or MSN for the purpose of buying and placing online display advertising and/ or paid search.

[00149] The facility includes APIs to link and conduct digital buying and digital placement of media spending "orders" by type of media.

[00150] In order to do this, the facility uses a multi-step process. The steps are as follows:

1. First, the user interface presented by the facility has a button in its own architectural framework to launch the chosen target "supply or sell-side" platform – as an example, say, Google AdWords in the Internet Search media category
2. Next, the facility has a parametrically-driven method to "pipe-in" a unique Username / Password in order for the end-user to start interacting with the sell-side platform – in this case, the Google AdWords buying portal
3. Then, the facility directly pipes buyer's time-phased flighting information to the "supply or sell-side" platform, as though it were batch-playing a pre-recorded data-script through the platform's user interface
4. Finally, the facility enables the media buyer to pay for the purchased resources in a secure manner, completing the commercial transaction.

[00151] The facility uses these APIs to interact either directly with the media source itself, or via 3rd parties such as media buying agencies or resellers.

3) Application Of The facility For Multi-Channel/ Multi-Platform Resources And/Or Media Channels

[00152] The facility includes variants and applications for a range of users. These include:

- Multi-channel retailers
- Non-profit enterprises
- Opening box office for theatrical movies
- Pricing optimization and dynamic pricing
- New products or services
- Small business
- Advertising agencies
- Customer lifetime value including acquisition of new customers and retention of existing customers
- Multi-product and multi-geography/market portfolio optimization
- Multi-platform media providers
- Trade channel funds including market development funds
- Optimization of sales force size, mix, reach and frequency as well as location
- Optimization of store or office locations or branches
- Investment and spending for product innovation

[00153] For example, the version for multi-platform media providers extends and applies the list of media resources and touch points to include both the main classes as well as the specific media types/ vehicles offered by the media provider(s) included. For example, a single media provider may provide multiple media types, such as a media provider that is able to provide billboard, newspaper, and radio advertising. Additionally, a

single media provider may be in a position to sell advertising on multiple properties that it controls, such as a newspaper syndicate that owns newspapers in eight different cities. Examples of such providers include ESPN, MTV, L.A. Times and Disney properties. For such providers, in some embodiments the facility were curatively allocated at the media provider level to individual properties and/or media types within the provider. The facility uses the same ACE computations for this.

[00154] It will be appreciated by those skilled in the art that the above-described facility may be straightforwardly adapted or extended in various ways.

CLAIMS:

1. A computer-readable medium whose contents cause a computing system to perform a method for prescribing an allocation of resources to a total marketing budget for a distinguished offering, with the goal of optimizing a distinguished business outcome for the offering that is expected to be driven, at least in part, by the allocation of resources to the total marketing budget, the method comprising:

receiving qualitative attributes of the distinguished offering from a user;

retrieving an experimentally-obtained average total marketing budget elasticity measure, the experimentally-obtained average total marketing budget elasticity measure being experimentally-obtained before receiving the qualitative attributes of the distinguished offering from the user;

obtaining from a third-party data source additional data relevant to elasticities for the distinguished offering;

adjusting the experimentally-obtained average total marketing budget elasticity measure based upon at least two of the received qualitative attributes of the distinguished offering; and

using the adjusted experimentally-obtained average total marketing budget elasticity measure together with the obtained related data to determine an allocation of resources to a total marketing budget that tends to optimize the distinguished business outcome.

2. The computer readable medium of claim 1 wherein the method for automatically prescribing an allocation of resources to a total marketing budget for a distinguished offering further comprises storing the determined allocation of resources.

3. The computer readable medium of claim 1 wherein the method for automatically prescribing an allocation of resources to a total marketing budget for a distinguished offering further comprises displaying the determined allocation of resources to a user.

4. A method, in a computer system having a processor and a memory, for prescribing an allocation of resources to each of one or more activities to be performed with respect to a distinguished offering, with the goal of optimizing a business outcome for the offering that is expected to be driven, at least in part, by the activities, comprising:

receiving, by the computing system, qualitative information from a user characterizing attributes of the distinguished offering;

for each of the activities,

determining, by the computing system, an elasticity measure derived from experimental results for one or more offerings distinct from the distinguished offering, the elasticity measure being experimentally-

derived before receiving the qualitative information characterizing attributes of the distinguished offering from the user, and
adjusting the determined elasticity measure based upon at least two of the characterizing attributes of the distinguished offering received from the user; and
using, by the computing system, the adjusted elasticity measure to generate an allocation of resources for the activity to a total marketing budget that lends to optimize the distinguished business outcome.

5. The method of claim 4 wherein the determining comprises:
using, by the computing system, the received information characterizing a first portion of the attributes of the distinguished offering to select an elasticity measure corresponding to experimental results for offerings whose first portion of attributes are characterized in a similar way; and
adjusting the selected elasticity measure based on using the received information characterizing a second portion of the attributes of the distinguished offering.

6. The method of claim 4, further comprising automatically committing, by the computing system, resources to at least one of the activities in accordance with the allocation generated for those activities.

7. The method of claim 4, further comprising displaying, by the computing system, the generated allocation of resources to a user.

8. The method of claim 7, further comprising receiving, by the computing system, a user input specifying a quantity of a media resources of a media type in response to displaying the generated allocation of resources to the user.

9. The method of claim 8, further comprising presenting, by the computing system, to the user visual indications of at least one third-party provider of the media resources of the media type.

10. The method of claim 9, further comprising receiving, by the computing system, a user input selecting one of the indicated third-party provider of the media resources of the media type.

11. The method of claim 10, further comprising placing, by the computing system, an order for the quantity of the media resource of the media type specified by the received user input with the selected third-party provider of the media resource of the media type.

12. The method of claim 10 wherein the order for the quantity of the media resource is placed automatically.

13. One or more computer memories collectively storing a generalized marketing elasticity data structure, the data structure comprising:

a plurality of entries each for a different business offering profile, each business offering profile describing a group of one or more business offerings that are qualitatively distinguished from groups of business offerings of the other business offering profiles, each entry containing an experimentally-obtained elasticity measure indicating the effect of a marketing activity with respect to the group of business offerings on a business outcome; and

information obtained from a third-party data provider,

such that, for a distinguished business offering described by a distinguished one of the profiles, the experimentally-obtained elasticity measure indicated by the distinguished entry may be used together with the obtained information to automatically specify an allocation of marketing resources to the distinguished business offering.

14. The one or more computer memories collectively storing a generalized marketing elasticity data structure of claim 13, the data structure further comprising the specified allocation of resources.

15. A method, in a computing system having a processor and a memory, for obtaining a final set of resource allocations specifying a quantitative allocation of resources to each of a plurality of marketing activities performed on behalf of a subject offering, comprising:

accessing, by the computing system, a first set of resource allocations for the subject offerings established using a first approach;

accessing, by the computing system, a set of quantitative lift factors for each of a plurality of marketing activities used in the first approach to establish the first of resource allocations;

accessing, by the computing system, a second set of resource allocations for the subject offerings established using a second approach that is distinct from the first approach; and

using, by the computing system, the accessed set of quantitative lift factors to combine the accessed first set of resource allocations with the accessed second set of resource allocations to specify a final set of resource allocations for the subject offering.

16. The method of claim 15 further comprising storing, by the computing system, final set of resource allocations.

17. The method of claim 15 further comprising displaying, by the computing system, the final set of resource allocations to a user.

18. A computer-readable medium whose contents are capable of causing a computing system to perform a method for ordering prescribed media resources for marketing a subject offering on behalf of an offeror of the subject offering, the method comprising, for each of a plurality of media types:

causing to be presented to a user a visual indication of an automatically-recommended quantity of media resources of the media type to order;

receiving user input specifying an actual quantity of media resources of the media type to order;

causing to be presented to the user visual indications of at least one third-party provider of media resources of the media type;

receiving user input selecting one of the indicated third-party provider of media resources of the media type; and

placing with the selected third-party provider of media resource of the media type in order for the actual quantity of media resource of the media type specified by the received user input.

19. The computer-readable medium of claim 18, further comprising, for a least one of the plurality of media types:

causing to be presented to the user visual information and soliciting scheduling information for the media type; and

receiving user input specifying schedule information for the media type,

wherein the placed order contains the schedule information for the media type specified by the received user input.

20. The computer-readable medium of claim 7 wherein at least one of the placed orders contains payment information that enables third-party provider with which the order is placed to obtain payment for the order from the offeror.

21. A method in a computing system having a processor and a memory, for automatically recommending resource allocations to marketing activities performed on behalf of a subject offering, comprising:

using, by the computing system, a set of quantitative lift factors for each of a plurality of first-level marketing activities to determine a resource allocation across the plurality of first-level marketing activities;

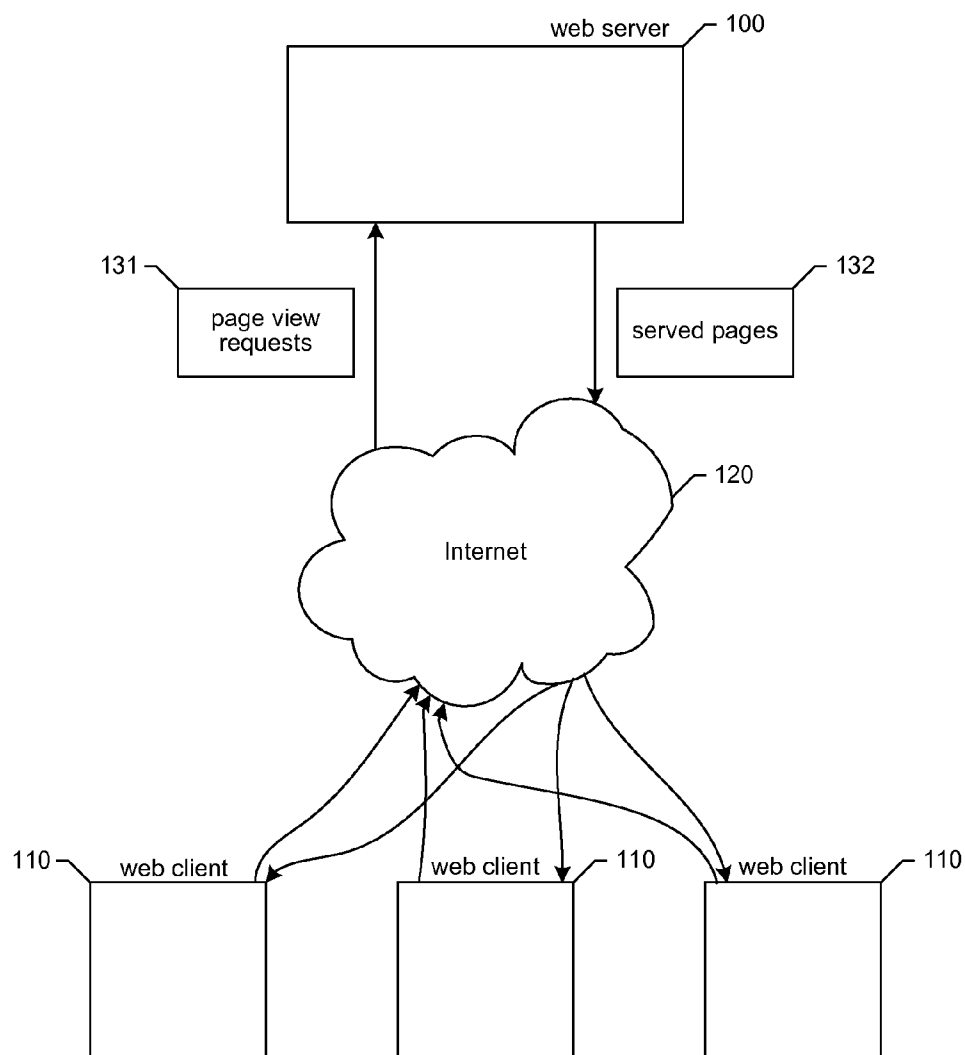
associating, by the computing system, one of the first-level marketing activities having a nonzero resource allocation with the media resource provider; and

using, by the computing system, a set of quantitative lift factors for each of a plurality of second-level marketing activities associated with the media resource provider to determine a resource allocation across a plurality of second-level marketing activities.

Marketshare Partners LLC

Patent Attorneys for the Applicant

SPRUSON & FERGUSON

**FIG. 1**

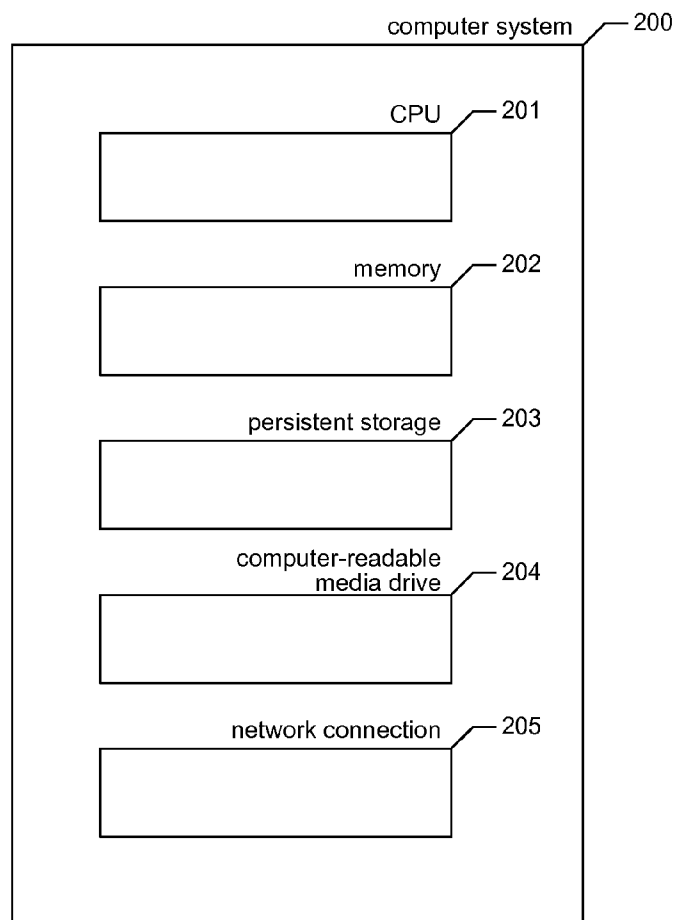


FIG. 2

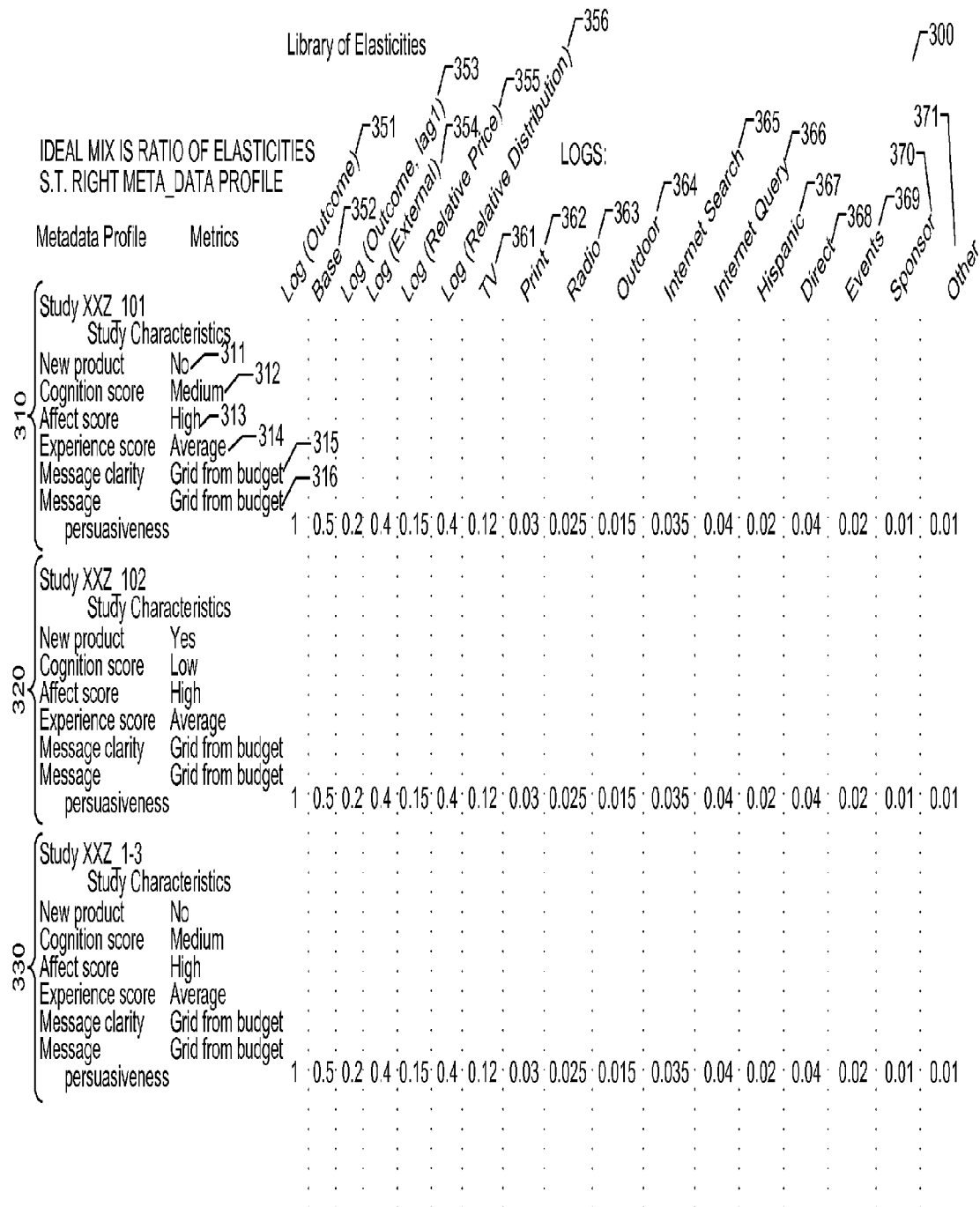


FIG. 3

MSP Compass

US English ▼

[Home](#) | [Features](#) | [Case Study](#) |

Optimize market spend – Increase ROI.
MSP Compass shows you how to get the best return on your marketing investment.
Best of all - it's Free!

It's easy – and free!

Don't have a MSP account?
[Sign Up Now.](#)

421 —

Sign in to MSP Compass with your
MSP | Account

Email: 401

Password: 402

☒ Remember me on this computer.

403

[I cannot access my account.](#)
411 —

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FIG. 4

US English ▼

MSP Compass

[Home](#) | [Profile](#) | [Scenarios](#) | [Tutorial](#) | [Case Study](#) |

Current Scenarios
Welcome, dave@anycompany.com | [Sign Out](#)

550 {

551
Create

552
View/Edit

553
Compare

554
Send

555
Delete

	511 Name	512 Description	513 Created	514 Status
501 {	<u>Scenario name</u>	Description text area for scenario information	11/22/2006 – 9:15 am PST	<u>ACTIVE</u>
502 {	<u>Scenario name</u>	Description text area for scenario information	11/22/2006 – 9:15 am PST	<u>ACTIVE</u>
503 {	<u>Scenario name</u>	Description text area for scenario information	11/22/2006 – 9:15 am PST	<u>ACTIVE</u>
504 {	<u>Scenario name</u>	Description text area for scenario information	11/22/2006 – 9:15 am PST	<u>ACTIVE</u>
505 {	<u>Scenario name</u>	Description text area for scenario information	11/22/2006 – 9:15 am PST	<u>IN-PROGRESS</u>
506 {	<u>Scenario name</u>	Description text area for scenario information	11/22/2006 – 9:15 am PST	<u>IN-PROGRESS</u>

FIG. 5

US English ▼

MSP Compass

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Edit Profile

Welcome, dave@anycompany.com | [Sign Out](#)

Compass: Scenario XYZ | Description

▼

Step 1 > Step 2 > Step 3 > Step 4 >

Current Revenue (\$)

601

\$250,000,000

Current annual marketing spending (\$)

602

\$49,000,000

What is your anticipated growth rate for 1 year ahead for your industry?

603

10%

Gross Profit (% of Revenue)

604

40%

Market Share (% Dollars)

605

10%

698

699

Save

Continue >

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FIG. 6

US English ▼

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Edit Profile

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Compass: Scenario XYZ | Description

▼

Step 1 > Step 2 > Step 3 > Step 4 >

Which describes your industry?

☒ very new
☐ fairly new
☐ fairly established
☐ very mature

701

Which describes your market?

☐ very new
☐ fairly new
☒ fairly established
☐ very mature

702

Which describes your channel?

☐ very new
☒ fairly new
☐ fairly established
☐ very mature

703

What is the innovation level of your marketing?

☐ very new
☐ fairly new
☐ fairly established
☒ very mature

704

Save

Continue >

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FIG. 7

US English ▼

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Edit Profile

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Compass: Scenario XYZ | Description

▼

Step 1 > Step 2 > Step 3 > Step 4 >

What is the information content of your marketing focus this year?

☐ A lot of new content

☒ A mix of old and new content

☐ Established content to sustain

801

How would you characterize your market share?

☐ Low and declining

☒ Low and increasing

☐ High and declining

☐ High and increasing

803

How would you characterize your company?

☐ Industry leader

☒ Top contender

☐ New entrant to the field

☐ Specialty or niche position

802

How would you characterize your pricing strategy?

☐ Deep discount or price-focused position

☒ Premium or high-end position

804

Save

Continue >

FIG. 8

US English ▼

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Edit Profile
Welcome, dave@anycompany.com | [Sign Out](#)

Compass: Scenario XYZ | Description

Step 1 > Step 2 > Step 3 > Step 4 >

Would you like to include customer segment detail? } 901

☐ Yes ☒ No

Clarity

911

Please click an area on the chart to plot your assessment of your branding, messaging, and positioning

Excellent				
Good				
Fair				
Poor				
	Below Normal	Typical	Better than Normal	Break Thru

910

912
Consistency

Likeability

921

Please click an area on the chart to plot your assessment of your advertising

Excellent				
Good				
Fair				
Poor				
	Below Normal	Typical	Better than Normal	Break Thru

920

922
Persuasiveness

Save
Continue >

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FIG. 9

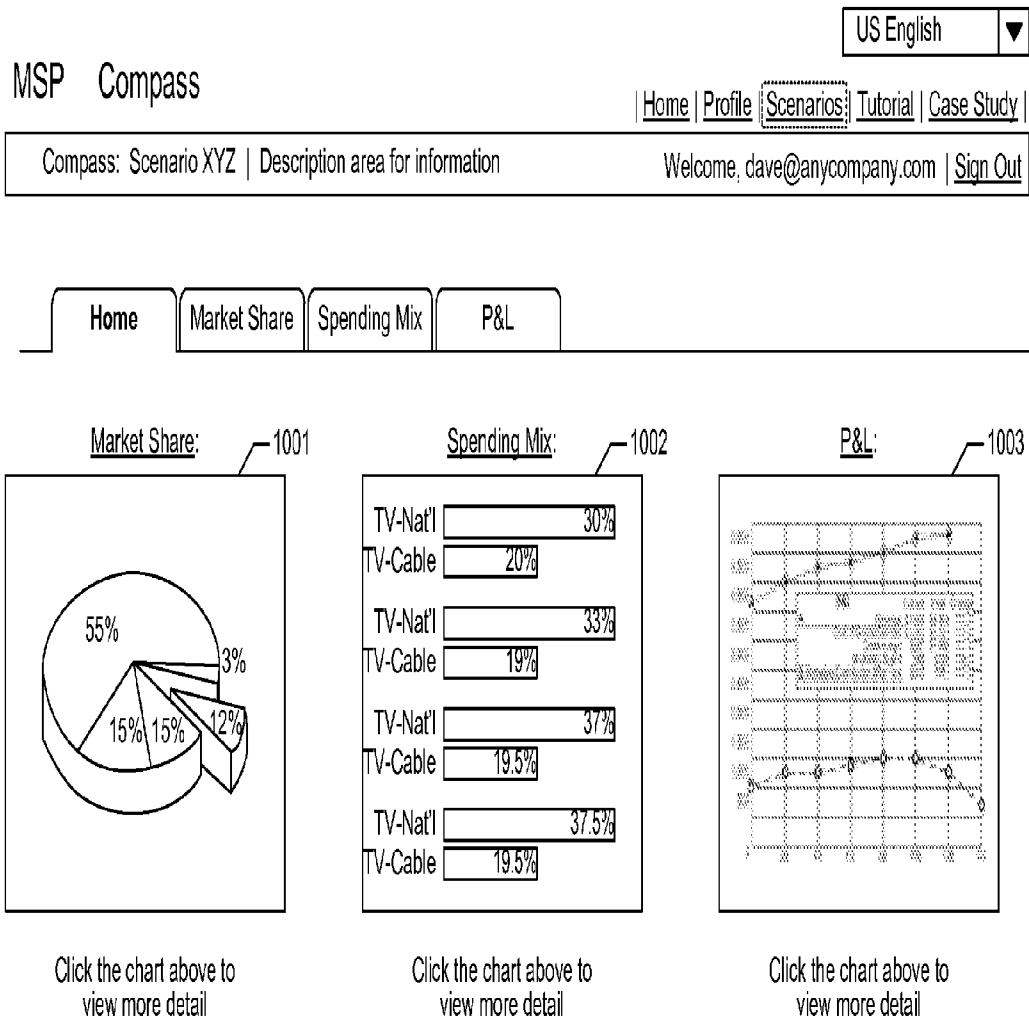


FIG. 10

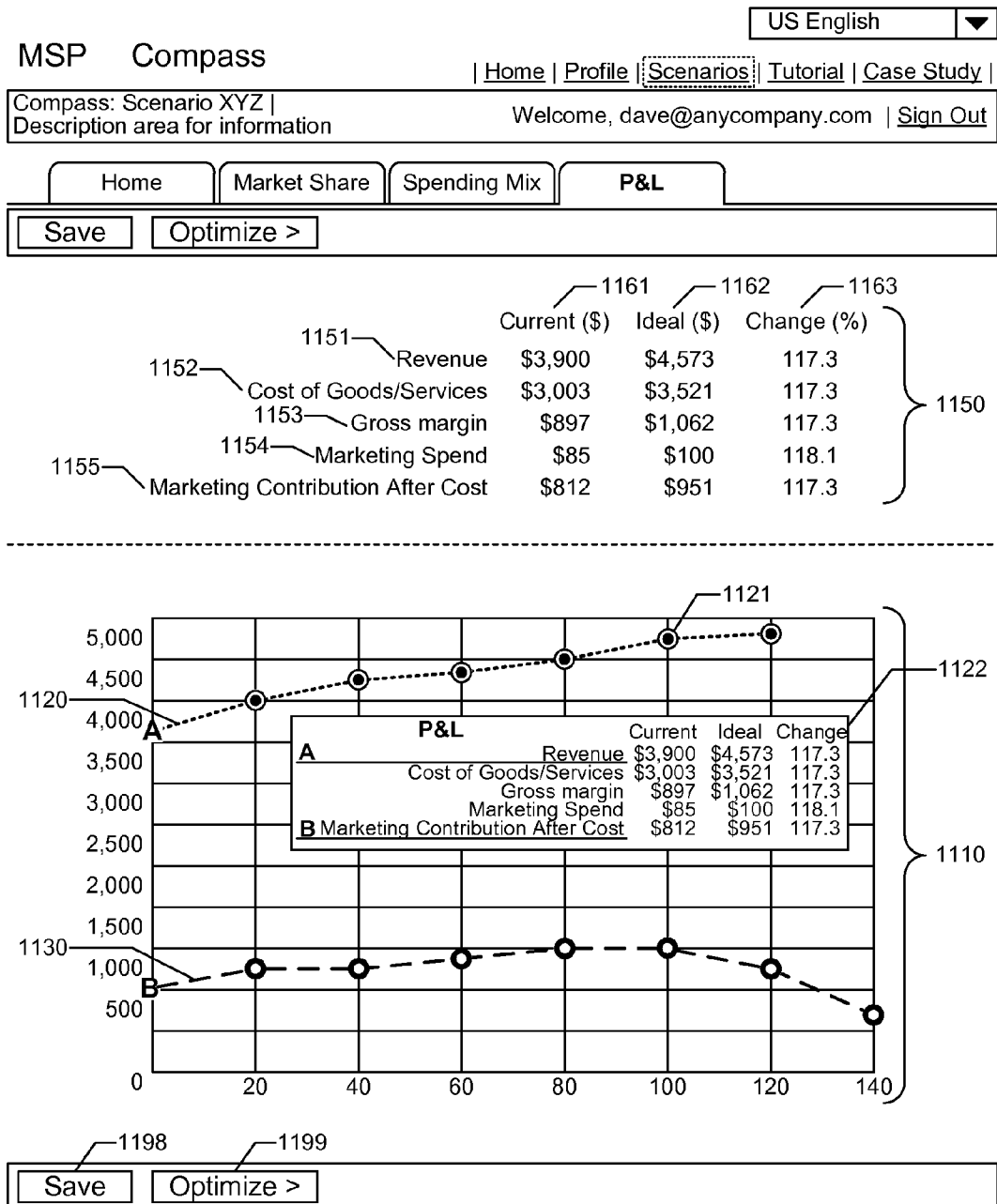


FIG. 11

US English ▼

MSP Compass

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Compass: Scenario XYZ | Description area for information

Welcome, dave@anycompany.com | [Sign Out](#)

Home Market Share **Spending Mix** P&L

Save Optimize >

Budget:
(Accept or enter new amount)

\$55,000,000

Default Budget
\$49,000,000

Special Issue Setting:
(Please select either Yes or No for the following questions)

Y N

☐ Include both Brand and Product Media spending?

☒ Is this the launch of a New Product?

	1204 Current	1205 Ideal	1206 Brand (\$)	1207 Product (\$)	1208 Total \$ Amount Difference: Current vs. Ideal
1211 TV - National Network	30%	37%	\$12,210	\$8,140	(5,650)
1212 TV - Cable	20%	19.5%	\$6,435	\$4,290	(925)
1213 Radio	5%	5%	\$1,650	\$1,100	(300)
1214 Print	15.0%	10%	\$3,300	\$2,200	1,850
1215 Outdoor	2%	2%	\$660	\$440	120
1216 Internet Search	2.5%	6%	\$1,980	\$1,320	(2,075)
1217 Internet Banner	2.5%	2%	\$660	\$440	120
1218 Local Events/Sponsorship	5%	2.5%	\$825	\$550	1,075
1219 Global Events/Sponsorship	5%	3%	\$990	\$660	800
1220 Other Digital Media	2%	2%	\$660	\$440	(120)
1221 Direct/1:1	5%	6%	\$1,980	\$1,320	(850)
1222 PR/Buzz	6%	5%	\$1,650	\$1,100	190
	100%		\$33,000	\$22,000	\$6,000

Customize Report: (Please select the brands you would like to compare)

1231 ☒ TV

1232 ☒ Radio

1233 ☒ Print

1234 ☐ Outdoor

1235 ☐ Internet Search

1236 ☐ Internet Banner

1237 ☐ Local Events Sponsorship

1238 ☐ Global Events Sponsorship

1239 ☐ Other Digital Media

1240 ☐ Direct 1:1

1241 ☐ PR/Buzz

1254 Ideal

1256

1250 TV-National & Cable

Current 1252

TV-Nat'l 30% 1251

TV-Cable 20% 1253

Brand: \$8,820 – Product: \$5,880

TV-Nat'l 37% 1257

TV-Cable 19.5% 1258

1260 Radio

Current 5% 1262

Ideal 5% 1263

1270 Print

Current 15% 1272

Ideal 10% 1273

1298 Save 1299 Optimize >

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FIG. 12

COMPASS KEY STEPS (1-6 BELOW)

OUTLINE

COMPASS MEDIA

DETERMINE
CONTEXT

1. Who is the target market for the brand or business?
 - 1.1 ☐ Adults, 18-49, both Male and Female
 - 1.2 ☐ Adults, 18-49, primarily Male
 - 1.3 ☐ Adults, 18-49, primarily Female
 - 1.4 ☐ Youth, Ages 15-22
 - 1.5 ☐ Children, Under Age 15
 - 1.6 ☐ Adults, 50+
2. Please describe the business or product category
 - 2.1 Consumer Involvement

☐ low
 ☐ medium
 ☐ high
 - 2.2 What level of information is needed by the customer

☐ low
 ☐ medium
 ☐ high
 - 2.3 Type of product or service

☐ durables
☐ consumer product

☐ non-durables
☐ industrial product
 - 2.4 Is the product or service

☐ a luxury or premium positioned brand
☐ high priced relative to norms
☐ superior in quality
3. Please describe the business, product's or service's share of voice
 - 3.1 ☐ typical/average
 - 3.2 ☐ above average
 - 3.3 ☐ below average
4. What is the primary goal of the communications
 - 4.1 ☐ convey information
 - 4.2 ☐ develop liking and emotional value
 - 4.3 ☐ reinforce habits
5. What is the stage of life of the business, product or service
 - 5.1 ☐ New
 - 5.2 ☐ Established
 - 5.3 ☐ Mature
 - 5.4 ☐ Other
6. What is the Reach objective over 12 months for the communications

☐ Percent of Target
7. What is the duration of the customer's usage or buying cycle
 - 7.1 ☐ Frequently, daily or weekly
 - 7.2 ☐ Seasonal
 - 7.3 ☐ Once a year/annually
 - 7.4 ☐ Once every 2-3 years
 - 7.5 ☐ Once in 10 years/
 - 7.6 ☐ Special
8. Please describe the customer's prior experience, if any, with the business, product or service

☐ None
☐ Average

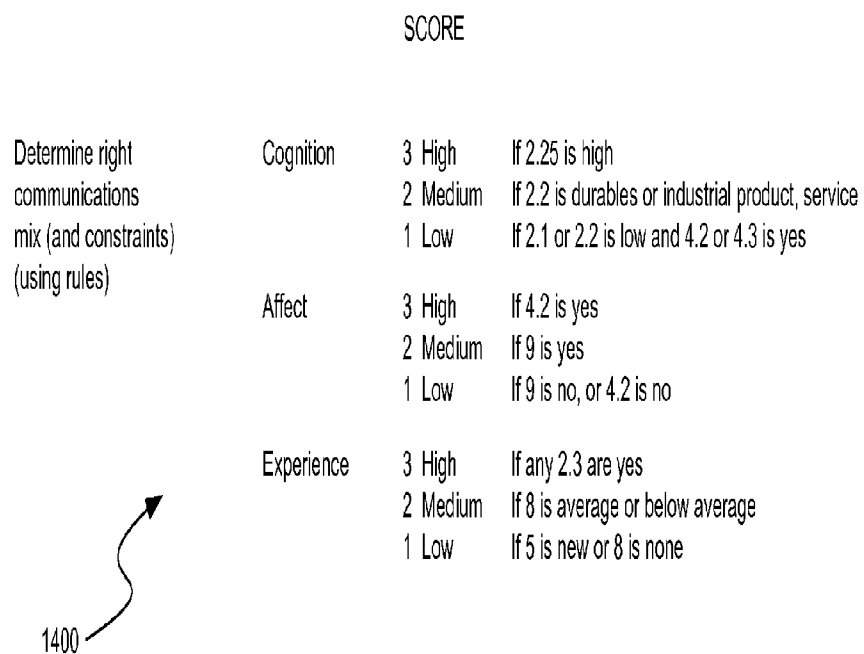
☐ Positive Word of Mouth
☐ Below Average
9. Is brand "personality" considered a differentiator in the category

☐ Yes
 ☐ No
10. To what extent is the business, product or service required to be supported

☐ Nationally
 ☐ Locally

1300

FIG. 13

**FIG. 14**

Preliminary
initial mix of resources
(if consumer product)

(if consumer product)			Percentages		Rec'd Media Mix (starting, pre-adjustments)							
Compass Budget Deal \$10,000,000	Starting Allocations Weights for Freq Cals	Cognition score Affect score	High	1	2	3	4	5	6	7	8	9
			High	High Low	Low High	Medium Medium	High Medium	Medium High	Low Low if national	Low Medium	Medium Low	
\$5,000,000	50	TV		44	20	60	50	100	50	65	55	50
\$0	10	Print - magazines		12	25	5	10	100	10	0	5	10
\$0	5	Print – newspapers		0	5	0	5	100	0	5	0	5
\$500,000	10	Radio		5	5	5	10	100	5	10	15	10
\$0	0	Outdoor		0	0	5	0	100	0	0	5	0
\$0	5	Internet – search		10	20	5	5	100	10	10	5	10
\$25,000	5	Internet – ad words		5	10	5	5	100	5	10	5	10
\$0	5	Direct marketing		12	15	0	5	100	5	0	0	5
\$0	5	Sponsorships/events		7	0	5	5	100	10	0	5	0
\$1,250	5	PR/other		5	0	10	5	100	5	0	5	0
\$0	0	Street		0	0	5	5	100	0	0	0	0
		Sub-total		100	100	100	100	100	100	100	100	100

1500

FIG. 15

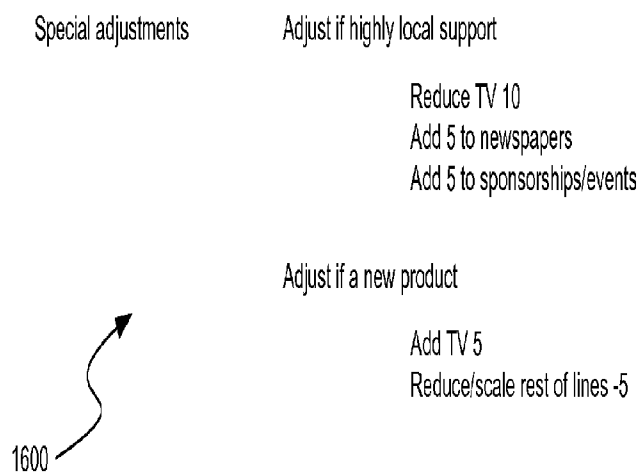


FIG. 16

Determine reach

and frequency

factors for

min persuasion

and minimum

impressions by type

factors for min persuasion						Total	CPI	Total	
	Purchased Reach	Type	Effective % of target (reach)	FREQ WTS cf to C1112	Frequency per Cust. Minimum No. Exposures/ Impressions per Purchase Cycle	No. Purchase cycles per year	Annual calc total no. impressions	Ballpark 2007 Cost per impression \$\$ per	Est. Min Spending by Type
and minimum impressions by type									
TARGET REACH	6,260,000	TV	80	0.516	1.6	26	260,000,000	0.03	\$7,800,000
SIZE OF TARGET		Print - magazines		0.032	0.1	26	16,250,000	0.01	\$162,500
AUDIENCE		Print – newspapers		0.032	0.1	26	16,250,000	0.005	\$81,250
5000000		Radio		0.032	0.1	26	16,250,000	0.0025	\$40,625
		Outdoor		0.032	0.1	26	16,250,000	0.01	\$162,500
		Internet – search		0.065	0.2	26	32,500,000	0.01	\$325,000
		Internet – ad words		0.161	0.5	26	81,250,000	0.01	\$812,500
		Direct marketing		0.032	0.1	26	16,250,000	0.03	\$487,500
		Sponsorships/events		0.032	0.1	26	16,250,000	0.001	\$16,250
		PR/other		0.032	0.1	26	16,250,000	0.005	\$81,250
		Street		0.032	0.1	26	16,250,000	0.01	\$162,500
					3.1		503,750,000	Sub-total	\$10,131,875
				WTD sum					

1700

FIG. 17

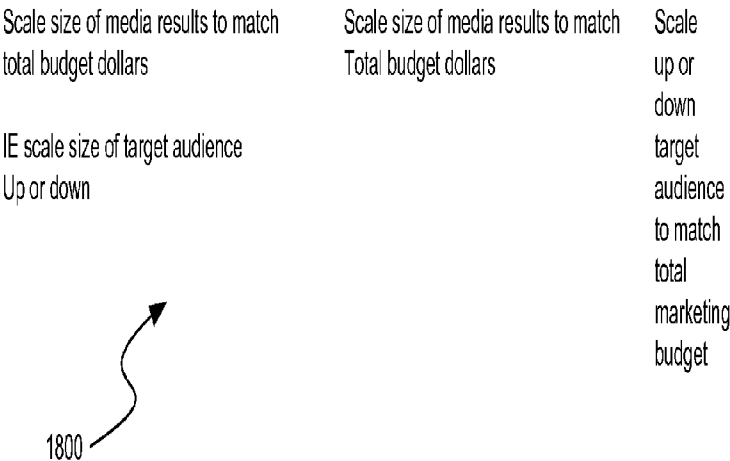
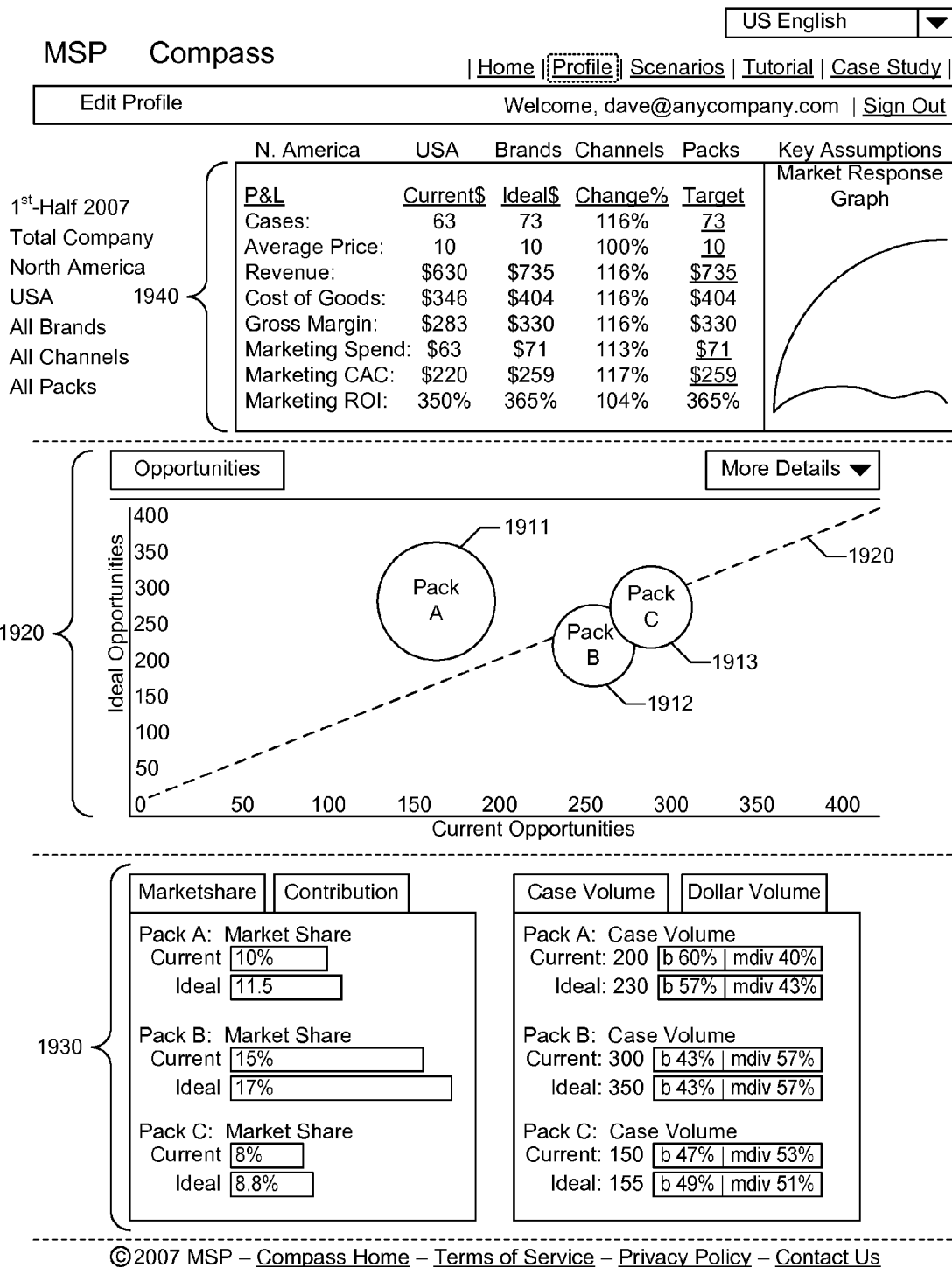


FIG. 18



Opportunities

More Details ▼

Marketshare
Contribution

Pack A: Market Share
Current
Ideal

Pack B: Market Share
Current
Ideal

Pack C: Market Share
Current
Ideal

Case Volume
Dollar Volume

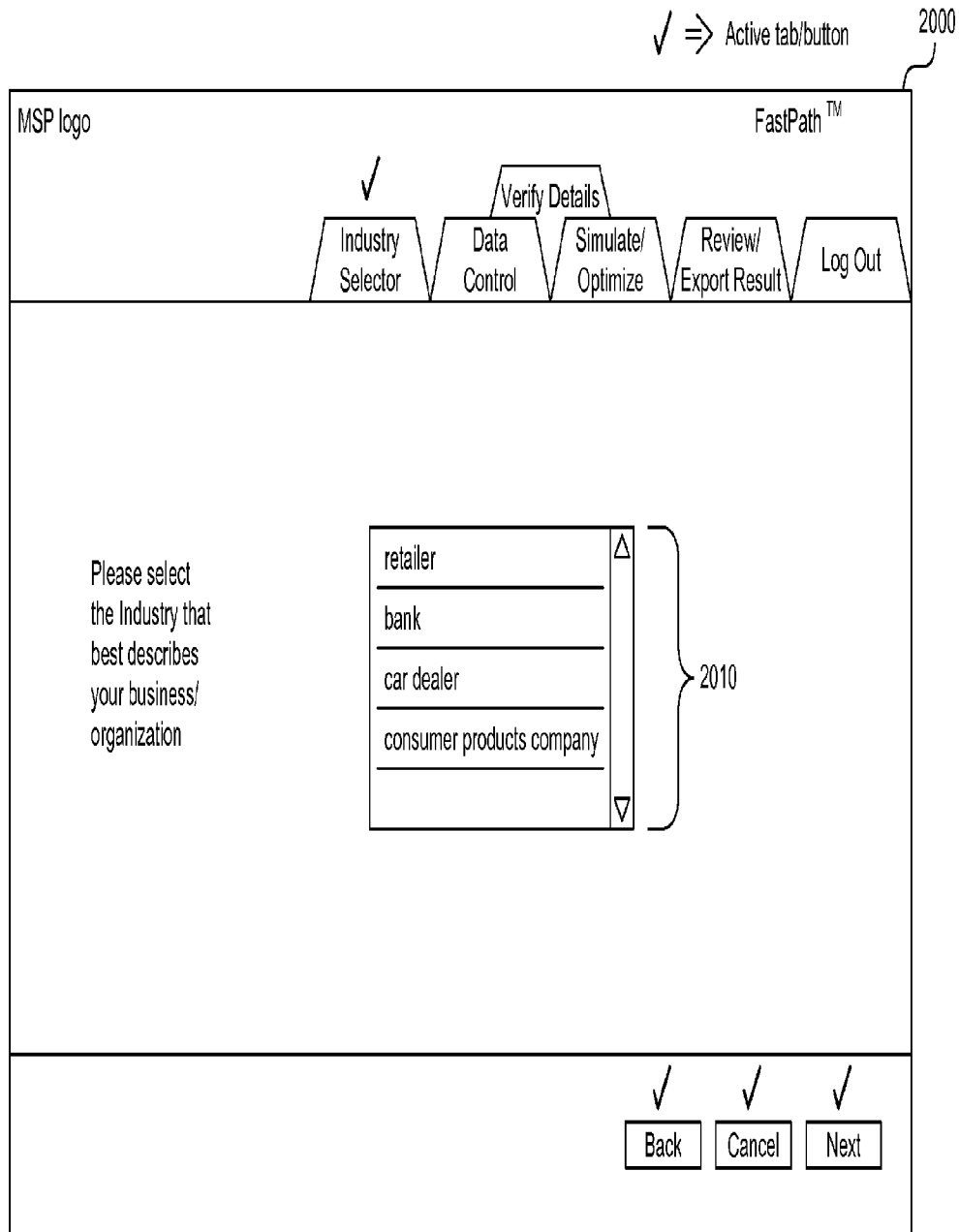
Pack A: Case Volume
Current: 200
Ideal: 230

Pack B: Case Volume
Current: 300
Ideal: 350

Pack C: Case Volume
Current: 150
Ideal: 155

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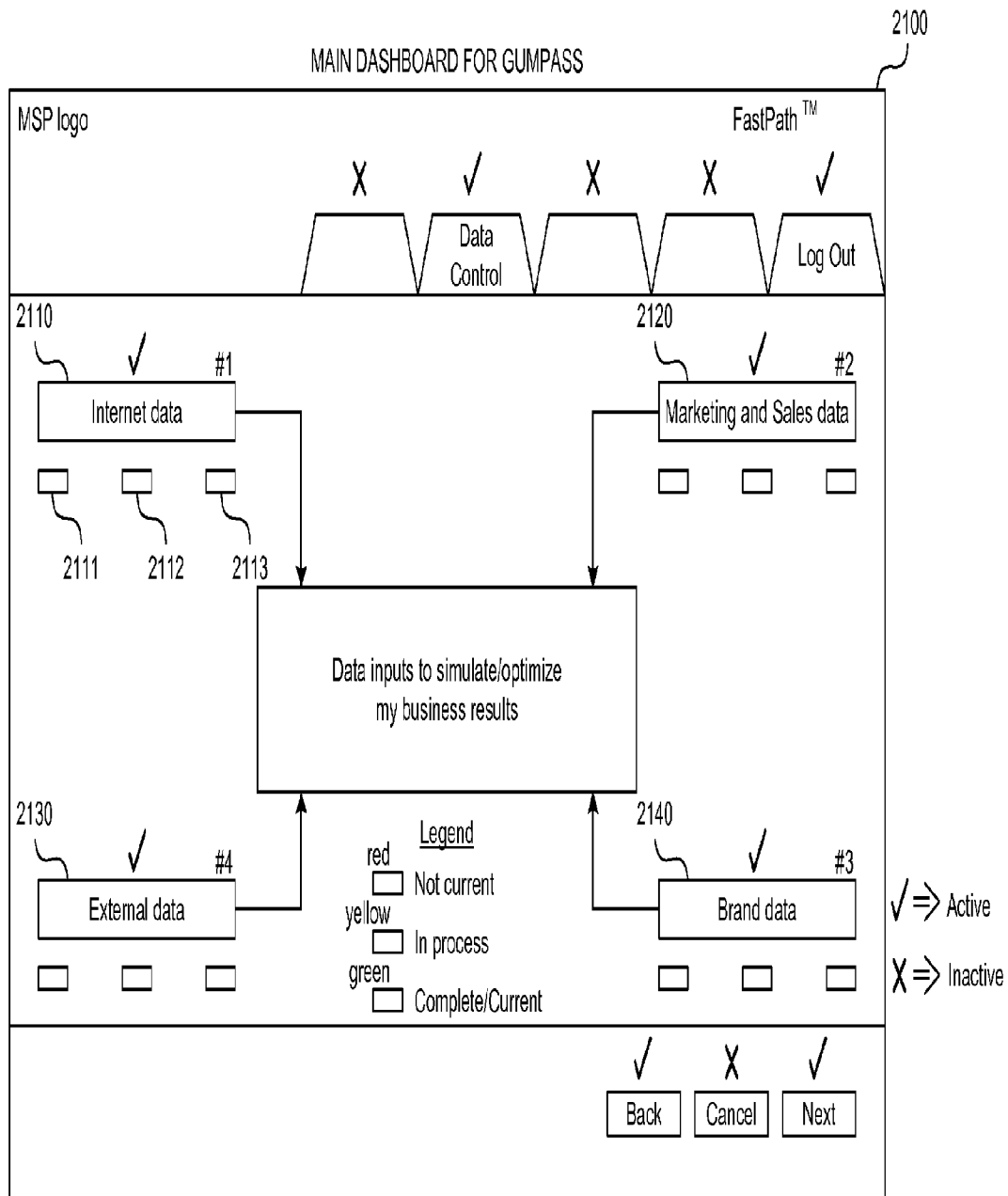
FIG. 19



Based on the User Selection in the background, an array of data-sources is selected. This selection is displayed in the next tab – “Data Control.”

Back ⇒ Login screen; Cancel ⇒ Negate selection; Next ⇒ “Data control” tab

FIG. 20

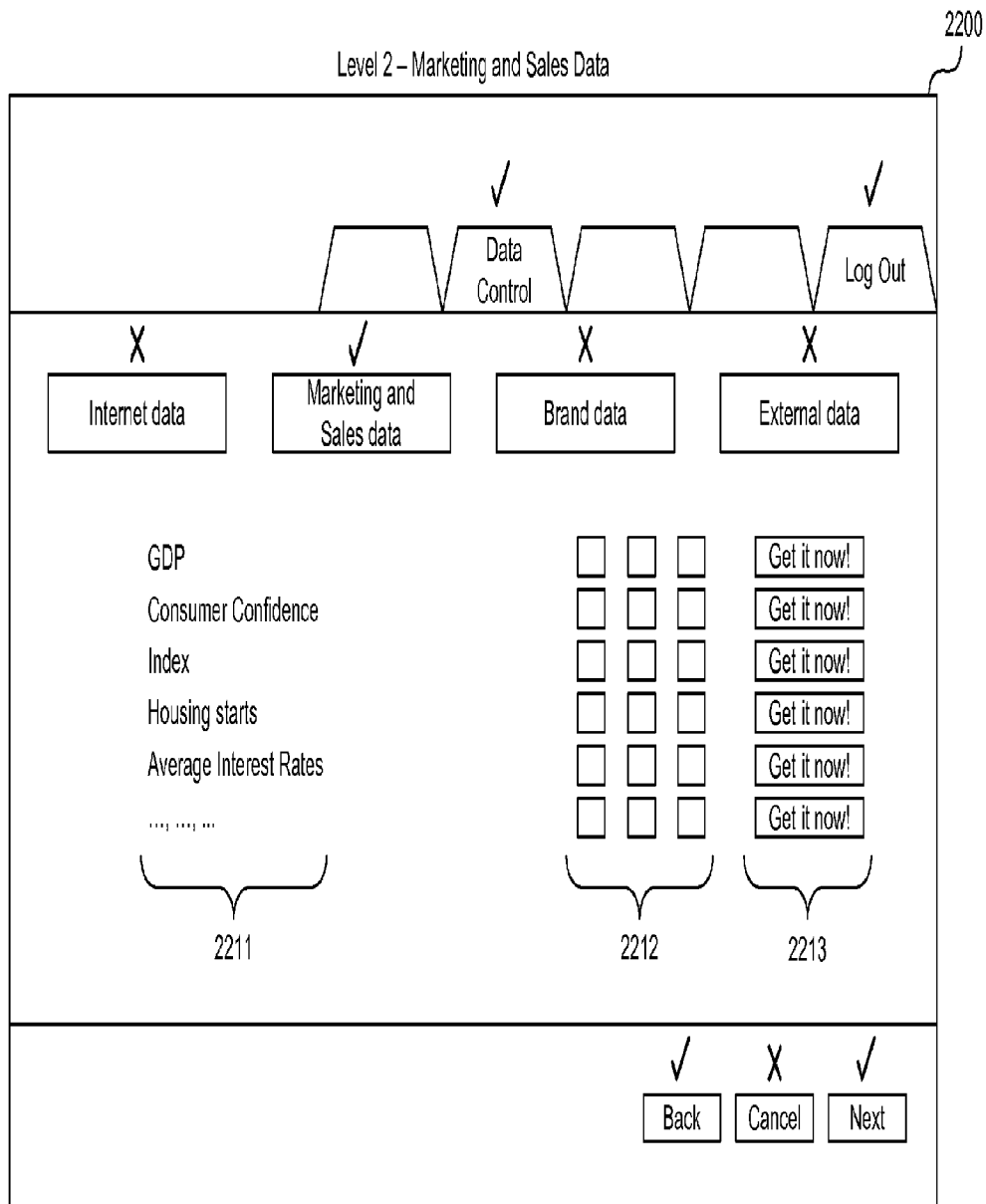


Each of the buttons #1 → #4, when clicked, show a detailed dashboard with line-item status. If all 4 inputs are complete and current, this tab shows GREEN. If all 4 are not current, it shows RED. Otherwise, it shows YELLOW.

Back => Industry selector

Next => Verify data tab

FIG. 21



Create an updateable table with names of monthly feeds for ECONOMY data:

GDP, Consumer Confidence Index, etc., etc.

Get it now! ⇒ Shell out/Pipe in LW/PW/Shell back in

Back ⇒ LEVEL 1 Data Control

Cancel ⇒ Stop M2M job

Next ⇒ Next tab – "Verify data" tab

FIG. 22

Data Control – Level 3 Internet Data

2300

✓

✓

✓

✓

Data Control

Log Out

✓

X

X

X

Internet data

Marketing and Sales data

Brand data

External data

Natural Search Terms

From

To

Source data

Target directory

Paid Search Terms

From

To

Source data

Target directory

2311

2312

2313

✓

✓

✓

Back

Cancel

Next

Go ⇒ The system fetches data machine-to-machine

Back ⇒ Go to level 2

Cancel ⇒ Abort M2M interaction

Next ⇒ Go to the next tab – “Verify data”

FIG. 23

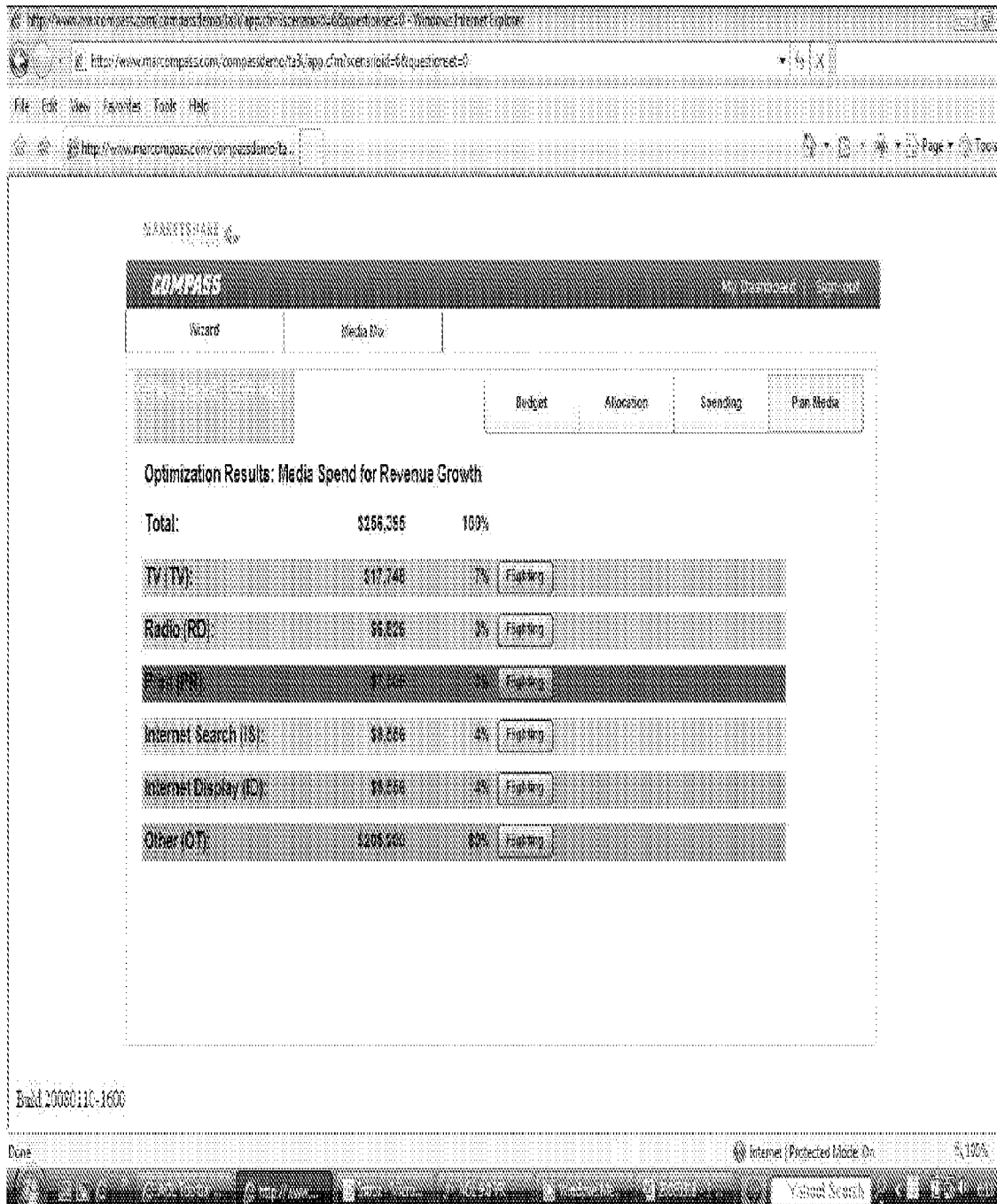


FIG. 24

http://www.marcompass.com/compassdemo/tax/app.cfm?scenario=6&questionset=3 - Windows Internet Explorer

http://www.marcompass.com/compassdemo/tax/app.cfm?scenario=6&questionset=3

File Edit View Favorites Tools Help

http://www.marcompass.com/compassdemo/tax/...

MARKETSHARE

COMPASS Go Download Sign Up

Wizard Media Mix

Budget Allocation Spending Plan Media

Flighting / Digital Buy
Optimized For Revenue Growth

Total Planned Spend: \$256,395

TV (TV):	Google TV Ads	Buy Right	Planned Spend:	\$17,748	Requested Spend:	\$0
<input type="checkbox"/> Jan <input type="checkbox"/> Feb <input type="checkbox"/> Mar <input type="checkbox"/> Apr <input type="checkbox"/> May <input type="checkbox"/> Jun <input type="checkbox"/> Jul <input type="checkbox"/> Aug <input type="checkbox"/> Sep <input type="checkbox"/> Oct <input type="checkbox"/> Nov <input type="checkbox"/> Dec						
Radio (RD):	Google Radio Ads		Planned Spend:	\$5,928	Requested Spend:	\$0
<input type="checkbox"/> Jan <input type="checkbox"/> Feb <input type="checkbox"/> Mar <input type="checkbox"/> Apr <input type="checkbox"/> May <input type="checkbox"/> Jun <input type="checkbox"/> Jul <input type="checkbox"/> Aug <input type="checkbox"/> Sep <input type="checkbox"/> Oct <input type="checkbox"/> Nov <input type="checkbox"/> Dec						
Print (PR):	Google Print Ads		Planned Spend:	\$1,236	Requested Spend:	\$0
<input type="checkbox"/> Jan <input type="checkbox"/> Feb <input type="checkbox"/> Mar <input type="checkbox"/> Apr <input type="checkbox"/> May <input type="checkbox"/> Jun <input type="checkbox"/> Jul <input type="checkbox"/> Aug <input type="checkbox"/> Sep <input type="checkbox"/> Oct <input type="checkbox"/> Nov <input type="checkbox"/> Dec						
Internet Search (IS):	Google AdWords	Buy Right	Planned Spend:	\$9,356	Requested Spend:	\$0
<input type="checkbox"/> Jan <input type="checkbox"/> Feb <input type="checkbox"/> Mar <input type="checkbox"/> Apr <input type="checkbox"/> May <input type="checkbox"/> Jun <input type="checkbox"/> Jul <input type="checkbox"/> Aug <input type="checkbox"/> Sep <input type="checkbox"/> Oct <input type="checkbox"/> Nov <input type="checkbox"/> Dec						
Internet Display (ID):	Google AdSense	Buy Right	Planned Spend:	\$9,356	Requested Spend:	\$0

Build 20080110-1600

Done Internet Protected Mode On 1

Visual Studio

FIG. 25

http://www.marcompass.com/compassdemo/f33/app.cfm?scenarioid=3&questionset=0 - Windows Internet Explorer

http://www.marcompass.com/compassdemo/f33/app.cfm?scenarioid=3&questionset=0

File Edit View Favorites Tools Help

http://www.marcompass.com/compassdemo/f33...

COMPASS

Wizard Media Plan

Budget Allocation Spending Plan Media

Fighting! Digital Buy
Optimized for Revenue Growth

Total Planned Spend: \$252,395

Media Type	Advertiser	Buy Type	Planned Spend	Requested Spend
TV (TV)	Google TV Ads	Buy Direct	\$17,744	\$0
Radio (RD)	Google Radio Ads		\$5,834	\$0
Print (PF)	Google Print Ads		\$7,549	\$0
Internet Search (IS)	Google AdWords	Buy Direct	\$9,556	\$0
Internet Display (ID)	Google AdSense	Buy Direct	\$9,556	\$0

Google AdSense
Google DoubleClick

Build 20080110-1600

Done Internet | Protected Mode On 100%

Volant Search

FIG. 26