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### **Outline of Coverage and Frequency Research Methodology**

Measuring the coverage or reach and frequency of poster campaigns is much more complex than comparable media such as TV, radio or press, which are active mediums where an opportunity-to-see (OTS) or hear or read is dictated by the viewer or reader actively choosing to participate in the medium. (The equivalent outdoor term is OTS opportunity-to-contact).

The first point of difference with traditional media is that the "outdoor or out-ofhome" medium is regarded as a passive medium, that is, the viewers are not actively seeking to look at the posters. In this way an out-of-home OTS in not necessarily converted into a contact in the same way as other mediums. Noting that these other mediums, Television, Radio and Press also have problems guaranteeing an OTS is a contact, or in its measurement.

Because of this passive nature of the medium, two separate research programs need to be undertaken and then married together so that we can calculate who is reached or covered by a campaign of posters.

The first program is a travel survey, since we cannot simply stop people as they pass a poster and interview them, we must conduct very large-scale market research surveys to determine the journeys and routes of a representative sample of the population. Because we are not just asking a simple yes/no question, but tracking our respondents over time, the reliability of the survey is based on the total number of passages past posters made, not just on the total number of respondents. The survey in Norway recorded 178,000 passages past roadside sites over the survey period, with a sample of 3,047 respondents.

The second program is a classification and traffic allocation system for every poster included in the research system. This classification and traffic allocation system produce three, gradually more refined, basic measures for each poster site, Traffic Flow, Opportunity-to-See/Contact, Visibility adjusted contact. (Flow/OTS/VAC)

By the integration of the travel survey data, who goes where and when, and the poster classification survey, where each poster is located, complex mathematical models were developed that would measure the coverage and frequency of networks or campaigns of poster sites. In essence this measures who passes a particular network of sites and how often they pass a site in the network, an OTS measurement system.

Because of the "passive" aspect of outdoor, coverage models based solely on OTS are regarded as inadequate and require of the medium a more rigorous research methodology. For this reason the outdoor industry has moved one step closer to measuring true contact by developing the concept of a visibility adjusted contact or VAC.

This VAC was pioneered in the UK as a visibility system or model that estimates the probability of an OTS being converted to a contact for every poster in a campaign and is covered in more detail later.

#### Travel Surveys.

The travel survey component of the outdoor research system was such a fundamental area that considerable time was taken in design and preparation. The purpose of the survey was not only to collect the journey routes over time of a representative sample, but also to research the level of usage of supermarkets, malls and public transport.

The travel survey was conducted by TNS Gallup and consisted of 3,047 interviews spread over 8 months. The sample was structured and randomised within region, with quotas on age, sex and working status imposed to ensure maximum representation.

The respondents journey routes were collected using a computer mapping based system linked to an electronic diary. Each respondent recorded all journeys in a paper diary "aide mémoire" during the interview week and the data was then transferred to the computer diary at interview. The computer system then prompted for each journey route and mode of travel, which was then captured at street level by using a predictive point and click system.

The surveys were conducted at the respondent's home, where it is easier to predict the social and demographic profile before the interview, so minimising wasted contacts and facilitating correct geographical sampling.

The resulting journey data was then overlaid on the digital road skeleton and the known poster locations.

#### Traffic Flows.

The recent availability of digital "skeletons" of the road network has allowed for much more accurate research on both journey routes and on traffic flows. All government and local council traffic data that could be located was purchased and "snapped" or linked to the road network skeleton. Where traffic counts were not available, models were developed to estimate traffic flow, given the area and road type. These were provided by **Statens vegvesen** (Norwegian Public Roads Administration) and the local city authorities in Norway.

A similar process was undertaken for non-roadside environments with pedestrian entry/exits, actual counts and models generating the footfall at these locations. The counts of visitor data were acquired from **Oslo T-banedrift AS** (metro station visitors) and **Norge NSB** (railway station visitors). The retail footfall models were based on the Mall owner visitor data, **AC Nielsen** revenue figures and visitor numbers derived from the Travel Survey. For each store figures we calculated based on the average shopping basket values combined with the measured visits from the survey.

In the poster classification program, a GPS (Global positioning system) co-ordinate for every poster was collected. Using this data, it was possible to link each poster, through the road skeleton or site location, such as a station or shopping centre, to an individual traffic flow.

#### Opportunity-to-See (OTS).

The traffic flow is the coarsest of the available measures, the next step is to adjust this complete road flow to take into account the posters general orientation. For instance a "head-on" or perpendicular to the road poster, will only be seen when approaching from one direction. This would mean its OTS would be a half of the total road traffic flow. Whereas, a parallel poster can be seen when approaching from both directions.

In the non-roadside environments, a footfall allocation system was developed that took into account the number of entrances and exits to the location and the position of the panel within the station or shopping centre.

So what does this mean in relation to specific locations?

- 1. A parallel panel in a station entrance will receive an OTS of the total Entries and Exits.
- 2. A head-on panel in a station entrance will receive an OTS of a half total Entries and Exits.
- 3. A head-on panel in a shopping centre entrance will receive an OTS of a half total Entries and Exits.
- 4. A head-on panel at the entrance in a shopping centre with two entrances will receive an OTS of a quarter total Entries and Exits.
- 5. A parallel panel in a car park with a single entrance will receive an OTS of the total Entries and Exits.

### Visibility adjusted contacts (VAC):

The research objective in the UK was to develop a visibility (conspicuity) model, to estimate the hit rate or noticeability of roadside posters, ignoring the content if possible, but taking the eccentricity, luminance, angular size and background into account.

Firstly a trawl was made of all the relevant psychological research undertaken previously around the world. This ranged from basic studies in Sweden to more complex work in Australia and Europe detailed below.

G. Johansson - Uppsala university. Set up an elaborate study with the help of the police. They erected various road-traffic signs on one side of a hill, and stopped drivers at lay-by on the other side of the hill. They then asked the drivers to report on the last sign they had noticed. (1966)

Cole and Hughes in Melbourne, placed discs of various sizes (up to 6 sheet size) on roadside lampposts. They then measured "noticeability" of discs in both a search task and a "conspicuity" attention task, by studying the time and places where drivers noticed or found the discs. They looked at eccentricity (distance from kerb side), luminance and angular size. (1984)

Unema and Rotting – Maastricht. Monitored video and assessed viewing direction using a eyemark recorder of drivers in a general study of where drivers look and how

their eye-movements vary with variations in the driving conditions or workload of the driver. (1992)

This previous research indicated the elements that needed to be considered if a poster and billboard model was to be designed.

A study was commissioned (1996) and designed at London University and conducted in the UK to test the effects of different factors on the noticeability of posters. The main factors examined were:

- 1. Eccentricity : distance from roadside.
- 2. Angular size. Bus-stop, Billboard, Supersite
- 3. Luminance. Illumination on and off, night and day.
- 4. Background : clutter.
- 5. Duration or distance of visibility.

200 photographs of roadside posters were commissioned to represent all posters sizes and environments from the drivers perspective of an approaching car. These photographs were assembled into "drives" of 15-minute duration, and each still scene was displayed on a large computer screen for 6 seconds, to simulate a drive-thru of a typical urban environment. 56 subjects undertaking different roles, driver/passenger, were then asked to view the drives while wearing an eye-movement recorder. The drives and photographs were combined in manner designed to neutralise the effect of any creative designs.

The eye-movement recorder operates by measuring reflected infrared light from the retina of the subject's eye. Recording both the position and duration of each fixation. The eye is only focused at a fixation, typically some 200 milliseconds (msec) long, and is not focused during the rapid saccades between each fixation. See example recording below.

The resulting data, some 62,782 fixations were then analysed against the known locations of the posters in the scenes.



A computer probability model was designed that could animate the aspect and size of a poster, from its maximum visibility distance until it was passed by an observer. During this animation the size, aspect, and eccentricity are calculated every 10th of a second for the passage past the poster. The probability of a "contact" is then accumulated each 10th of a second, so the effect of the 6 second experimental exposure was negated, in this way the probability can be calculated on a 2 second passage or a 15 second passage. When these 10th second probabilities are combined in a binomial manner the total probability can be calculated for a passage past any particular poster layout at any speed.

The use of this probability model means that all the factors are interrelated as the "exposure" to a known poster layout is generated. There is no X or Y factor, which can be separated to say that factor A is more important than factor B as all factors vary in their importance in relation to one another and at varying distance from the poster. However, the contribution of the factors can be assessed by close study of the visibility matrix generated on all possible combination of criteria. Their order of importance is Size, Eccentricity, Distance, and Clutter. The application of this "model" would need the relevant data being collected for each and every poster in the research program. The visibility matrix is the property of POSTAR in the UK and has been licensed for use in Norway, it is not in the public domain.

Latterly with the reduction in size of computers it has been possible to record eyemovement data from within a car, without unduly interfering with the process of driving. In 2001 POSTAR undertook a comprehensive in-car study with Nottingham University. This study was used to confirm the findings of the previous studies and to investigate additional factors, such as distance of viewing. The visibility models were then adjusted to take into account this new more realistic research.

Further major research has since been conducted on the non-roadside environments of Travel and Retail locations. This research has taken the form of a calibrated and

correlated study of all know non-roadside poster environments using an active search task rather than direct eye-movement studies, as the pedestrian "viewpoint" is less directed than that of a road user. The data from these studies is as yet unpublished and has been licensed for use in Norway, as it is in the UK and elsewhere.

In Finland a separate eye-movement study was commissioned from Dr Barber and Birkbeck College London University. This was undertaken to investigate the visibility of certain types of panel found uniquely in Finland and Sweden; Non-urban highway billboards, Lamppost panels, Tram and single-decker bus posters. Four hundred and eighty driving scenes were photographed containing the required test material in different conditions, winter/summer and at varying distances. Then 50 Finish respondents were recruited to take part in the visibility experiment.

The scenes were presented in drives by computer and eye-movement data collected. This data was then "fused" with the original POSTAR models to create VAC contact probabilities for the Finland poster types.

The Norwegian visibility models are a fusion of the POSTAR studies and the Finland/Sweden studies.

Poster Classification

The requirement for a classification methodology was dictated by the industry adoption of the concept of Visibility adjusted contacts (VAC). The methodology adopted was of digitally photographing and consequent computer based measuring of the aspects of every poster. In addition on each site visit other relevant data was also collected. For instance, site area type, road width, traffic lanes, GPS co-ordinates etc.



By the use of sophisticated software, the important visibility factors could be measured directly from the digital photographs and in conjunction with known area traffic speeds the visibility adjusted contact rate could be calculated.

The photographs themselves were taken under strict criteria to show the drivers perspective of the poster on approach, and using specifications on maximum distance and obstruction.

Given this VAC measure and the previously detailed allocation of traffic flow and hence OTS, we can calculate for each panel, how many passages result in an actual "contact" with the advertising.

#### Roadside, Retail and Travel environments.

The description of the process of allocating Flow, OTS and VAC to each roadside poster, outlined previously, has been extended into two other environments, those of non-roadside. The "Retail" environment encompasses all locations where a transaction of goods occurs, shopping malls, supermarkets and pedestrian precincts. The "Travel" environment encompasses all locations where the primary purpose is

that of travel, including rail stations, subway stations, bus stations, car parks and tram stops.

The Flow for the non-roadside environments is the total number of entry and exits at any particular location. This data was either a directly recorded number of passages in the cases of Rail, Subway, Tram and large shopping malls, or derived from a model using the number of facilities at the location and the facility usage derived from the Travel survey questions on these environments.

The OTS for each poster location for non-roadside is allocated in a more complex manner than that of roadside, as the number of entrances and the posters location in a complex had to be taken into account.

The VAC is derived from the poster size and its location within the specific nonroadside environment, so that a corridor poster has a different visibility to that of a poster on a platform, or in an entrance.

The posters environment, location within, and viewing position to passing pedestrians was recorded in a similar way to the roadside poster-by-poster classification procedure. Including digital photographs of each poster and its immediate surroundings.

### Poster and Cafas terminology

#### Coverage or Reach

The coverage or reach of a campaign is the number of individuals in a population who have seen the advertising at least once, sometimes it is expressed as a percentage of the population, sometimes as a direct number. For instance, a campaign could have covered or been seen by 47% of the Adult population or alternatively it may be reported that the campaign reached 250,000 15-24 year old adults.

### Frequency

It will be realised that when a large population has been covered by a medium like posters, some people will have seen the campaign only once, but some will have seen it many times, and frequent travellers many many times. If we calculate the average number of times that the average individual saw the campaign, then we call this the average frequency of the coverage.

Hence we now have coverage and frequency

### N plus (N+) coverage

Simple coverage or 1+ coverage is a measure of all the people who have seen a campaign at least once, so the resulting number includes the people who have seen it only once, but also those who have seen it twice, three times, four times etc. etc. This is why the coverage level is often referred to a 1 plus (1+) as it's a measure of who has seen the campaign once or more (+).

The cafas system allows the calculation of 1 + to 20 + coverage levels. So for example, if 4+ was chosen, the system would calculate the coverage level of the population who had seen the campaign four or more times. The population who had only seen the campaign once, twice or three times would be removed from the coverage estimate.

One consequence of this is that the average frequency for 4+ is higher than 1+. This is because we have removed the people from the frequency distribution who had only made low numbers of passages. In consequence the average frequency of the remaining coverage will mathematically rise.

It should also be noted that the N+ coverage is visibility adjusted, so that to "see" a campaign four or more times, the number of passages required is many times this, depending on the visibility of the posters in the campaign.

#### Flow

In the roadside environment, this is the total number of passages past an individual site regardless of its visibility, it is a measure of "busyness". It is calculated as the total vehicular traffic past the site multiplied by an occupancy factor of 1.6, plus the total pedestrian traffic past the site.

In the non-roadside environments, it is the total number of entry and exits at a particular location, not necessarily past the poster, as this further factor is dealt with in the OTS measure.

In the Cafas system the numbers shown on all screens are "average adult flows per week". (**Av Flow P/W**). This allows for direct comparisons between the media owner and size digest pages and the planner and campaign screens regardless of campaign period.

This **Av Flow P/W** number is describing the average number of "people passages" past the panels in that network or for that size in a region. Note; it is not the average number of "individual people" who pass each panel, because the same person may pass the panel more than once over a period of 7 days. For example, one individual may count as 10 or 14 "people passages" depending on how many times they pass a particular panel in a week.

The *total flow* or passages for a group of panels is: the average flow per week X the total number of panels.

The average flow per week does not change if the campaign is run for more than 1 week. However the *total flow* then becomes: the average flow per week X the total number of panels X number of weeks.

The Flow at any particular location is adjusted by month, depending on daylight hours and the posters illumination status. The displayed Flow is for all adults (12-74 yr old) and will not change when a different social group is selected

### <u>OTS</u>

In the roadside environment, this is the flow at each location adjusted for poster orientation or direction. For instance a "head-on" or perpendicular to the road poster, will only be seen when approaching from one direction and this would mean its OTS would be a half of the total road traffic flow. Whereas, a parallel poster can be seen when approaching from both directions and would be allocated the total flow for the road.

In the non-roadside environments, it is the total flow for the location (a particular Mall or station) adjusted for poster position with the location.

For example, it may be the total flow divided by the number of entrances or platforms at the location and also dependent on the poster position within the location, i.e. whether the poster is in the car park, the entrance or a central area like a ticket hall. More detail in section

Opportunity-to-See (OTS).

This **Av OTS P/W** number is describing the average number of adult passages (15+) past the panels in that network or for that size in a region that result in a potential opportunity to contact the poster.

In the Cafas system the numbers shown on all screens are "average adult OTS per week". (Av OTS P/W). This allows for direct comparisons between the media owner and size digest pages and the planner and campaign screens regardless of campaign period.

The *total OTS* for a group of panels is: the average OTS per week X the total number of panels.

The average adult OTS per week does not change if the campaign is run for more than 1 week as its is a "per week" (PW) value. However the *total OTS* then becomes: the average OTS per week X the total number of panels X number of weeks.

The OTS at any particular location is adjusted by month, depending on daylight hours and the posters illumination status. The displayed Av OTS PW is for all adults (15+) and will not change when a different social group is selected.

### VAC

The visibility adjusted contact for any poster is the OTS reduced using the probability based visibility model.

For roadside posters this model is dependent on the posters physical characteristics, the size, the location relative to the road, the viewing distance and the local traffic speed.

For non-roadside the model is dependent on the environment type, its size and location.

This **Av VAC P/W** number is describing the average number of adult eyes-on-panel "contacts" for the panels in that network or for that size in a region.

In the Cafas system the numbers shown on all screens are "average VAC per week". (Av VAC P/W). This allows for direct comparisons between the media owner and size digest pages and the planner and campaign screens regardless of campaign period.

The *total visibility adjusted contacts* (VAC) for a group of panels is: the average VAC per week X the total number of panels.

The average *VAC* per week does not change if the campaign is run for more than 1 week. However the *total VAC* then becomes: the average VAC per week X the total number of panels X number of weeks.

The VAC at any particular site is adjusted by month, depending on daylight hours and the posters illumination status so the average VAC for a group of posters will change month by month depending on daylight hours. The displayed **Av** VAC **PW** is for all adults (15+) and will not change when a different social group is selected. The total <u>Visibility adjusted contacts</u> (VA contacts) changes by social group.

### VAC coverage

Is the estimated percentage proportion of the selected audience by region that will have at least one eyes-on panel contact with the campaign of N panels over the time period selected.

The displayed VAC coverage will change when a new social group is selected.

Displayed in column (VAC cover%)

Population covered

Is the VAC cover translated to the number of the selected social group in that region, that will have at least one contact with the campaign.

(VAC cover% X Total region social group population = POP cover)

For example if there are 1,000,000 males in a region, and you have a VAC cover of 56% then you will have covered 560,000 males.

Displayed in column (POP Cover)

#### Visibility adjusted contacts

Is the total number of "eyes-on-poster" contacts generated by the campaign over the selected number of days for the selected social group

It is a mathematical calculation being the total VAC per week of each poster X the number of weeks X the proportion of contacts made by the social group.

In the planner it is the Av VAC P/W X the number of posters X the number of weeks.

Displayed in column (VA Contacts)

### Visibility adjusted average frequency

Is the average number of visibility adjusted contacts (VAC) that the covered population (selected social group) will have with the campaign over the selected number of days, 7 or 14 or 21 etc.

It is a mathematical calculation being the total Visibility adjusted contacts divided by the number of people covered.

For example if the campaign covers 1,000,000 adults and there are 13,500,000 Visibility adjusted contacts, then the average number of contacts per person is 13.5

### Displayed in column (VA Av Freq)

### Cost per thousand

The term "Cost Per Thousand covered" (CPT) is a measure of how much it has cost to reach or cover one thousand members of the population. Its is calculated as the total cost of the campaign divided by the population covered.

For example, if a campaign cost 500,000 Euro and the campaign reached 4.5 Million or (4,500 thousand) people. Then the cost per thousand covered would be calculated as:

 $\frac{500,000}{4,500} = 111.11 \,\mathrm{Euro}$ 

A similar but alternative measure is "Cost per thousand contacts" (CPTC) this calculation takes into account the frequency that the medium provides. If for example the same campaign had an average frequency of 7.2 then the CPT contacts is:

 $\frac{500,000}{4,500X7.2} = \frac{500,000}{32,400} = 15.43 \,\mathrm{Euro}$ 

### <u>GRP</u>

GRP (Gross Rating Points) is a measure of the total number of "contacts" that a campaign has achieved, basically the percentage of the population X (times) the average number of times this population have seen the campaign. In each medium it is calculated the same way, but has slightly different meanings.

In TV, when a buyer buys a spot, each spot achieves an audience. This is called it's 'rating' 'TVR' or 'GRP'.

If an example spot has a GRP of 10, then this means that the spot has reached 10% of the universe (freq=1). So if the universe is 4,000,000 the 'impacts' are 10% of that i.e. 400,000. There is nothing different here from how we handle this calculation in Posters. However, the TV community add up the GRP's achieved across all of the

OTS to give a 'total GRP'. This could be for example 200 GRP's. This means that the impacts are the equivalent of 2 X the universe i.e. 8,000,000.

Of course this does not give any indication of frequency distribution. For this you have to refer to the TV research panel i.e. the equivalent of the OUTDOOR IMPACT travel survey sample. Of course some people will see the spot just once, some twice etc. In effect, the individual audiences to each spot will and must add up to the sum of the frequency distribution. So total GRP's can be calculated in many ways e.g.

For example:

- 1. Total impacts / universe X 100
- 2. Addition of individual spot (or panel) GRP's
- 3. Average frequency X coverage X 100 (e.g.  $4.5 \times 90\% \times 100 = 405 \text{ GRP's}$ )
- 4. % audience seeing it once X 1 plus % audience seeing it twice X 2 plus % of audience seeing it three times X 3 etc.

Total GRP's, coverage and frequency plus total frequency are often shown as part of the campaign results. The above definitions are used in all media. Exceptions are TV where GRP's are called TVR's or 'ratings' and Radio where OTS is called OTH (opportunity to hear).

#### Share of voice

In advertising terms, the share of voice is the proportion of the available media or time that will be bought for the particular campaign.

For example, if two beer manufacturers were launching a new beer at the same time, then they would want to have at least an equal "share of voice" so that their own advertising message was not overwhelmed by the other manufactures advertising.

In posters, if we select a certain size, for example bus-stop posters, then the share of voice is the proportion of available posters in a region. If there were 1000 posters in a region, then 200 posters would be a 20% "share of voice".

The cafas calculated share of voice is for size and environment and is not media owner sensitive. For example if we are planning 6 sheet roadside and choose distribute by share of voice, the system calculates the percentage of all roadside 6 sheets by region.

#### **Illumination**

The Flow/OTS and VAC within the research system are sensitive to time of year, daylight hours and hence illumination of the panels.

A panel is only counted as having illumination if and only if there is a directly builton illumination device. This can be a back-light or a top or bottom spot light. Ambient street or location lights are not recognised as sufficient. Posters indoors, such as inside shopping Malls are deemed illuminated as there is sufficient lighting at all times for the poster to be seen.

Panels with 24 hour illumination are flagged and receive an uplift of 3% on an average month those illuminated only after sunset.

### **Distribution**

The coverage of a network is not only dependent on the size and quality of the posters within the campaign, but also on how well the posters are spread through a modelled region. The cafas system calculates a measure of distribution and adjusts the final VAC coverage to correlate with this. For example, if we were to have 100 posters spread evenly across Oslo, they would achieve higher measured coverage than if 100 equal quality posters were just spread across the western part of Oslo.

### Coverage model areas

District	DistrictName	Model Area Name	Model Area
0301	Oslo	Oslo Met + Oslo Region	1
0216	Nesodden	Oslo Region	2
0217	Oppegård	Oslo Region	2
0219	Bærum	Oslo Region	2
0220	Asker	Oslo Region	2
0213	Ski	Oslo Region	2
0228	Rælingen	Oslo Region	2
0230	Lørenskog	Oslo Region	2
0231	Skedsmo	Oslo Region	2
0233	Nittedal	Oslo Region	2
0235	Ullensaker	Oslo Region	2
1247	Askøy	Bergen Region	С
1243	Os	Bergen Region	С
1245	Sund	Bergen Region	С
1201	Bergen	Bergen Region	С
1246	Fjell	Bergen Region	С
1244	Austevoll	Bergen Region	С
1663	Malvik	Trondheim Region	D
1648	Midtre Gauldal	Trondheim Region	D
1653	Melhus	Trondheim Region	D
1662	Klæbu	Trondheim Region	D
1601	Trondheim	Trondheim Region	D
1120	Klepp	Stavanger Region	E
1122	Gjesdal	Stavanger Region	E
1119	Hå	Stavanger Region	E
1103	Stavanger	Stavanger Region	E
1124	Sola	Stavanger Region	E
1127	Randaberg	Stavanger Region	E
1102	Sandnes	Stavanger Region	E
1121	Time	Stavanger Region	E
1149	Karmøy	Cities 50K +	F
1106	Haugesund	Cities 50K +	F
0105	Sarpsborg	Cities 50K +	F
0106	Fredrikstad	Cities 50K +	F
0805	Porsgrunn	Cities 50K +	F
0806	Skien	Cities 50K +	F
1902	Tromsø	Cities 50K +	F
0602	Drammen	Cities 50K +	F
1001	Kristiansand	Cities 50K + Small Cities and Countryside	F
Others	All other Kommuns	– Remainder of Country	G





Poster orientation.

Describes the posters orientation (direction or layout) in regard to the viewing road.

The following descriptions are based on a simple two-way or bi-directional road.

Head-on – Perpendicular to road, and facing one traffic flow.

Parallel – Lying along the road, and so collecting both traffic flows.

Angled – Diagonal to road, Not perpendicular or parallel, but still facing only one traffic flow.



### Program usage and screen content.

On starting the program the main screen will appear as a blank worksheet. The menu along the top allows the selection of the various functions.

The system allows the use of multiple windows on the data, so for instance, you can see the digest of media owner sheetage, and at the same time open the campaign planner window or have multiple planner windows open.

Currently implemented options are:

- 1) Summary/Digest: This produces a digest or summary of the panels within the system by selected option.
- 2) Analysis: This will allow the user to analyse "specific" networks or campaigns of panels.
- 3) Campaign planner: This allows the user to estimate the coverage, which could be achieved by using particular weights of "average" panels by region.
- 4) Multiple Campaign/Network Analysis: This allows the user to save the results from networks or campaigns and compare between networks.

The system is grid based, and all displayed data can be cut and pasted into Excel, by the use of the Edit > copy and Edit >paste functions inherent in Microsoft windows. (Control-C and Control-V, Note there is no need to highlight the cells in each grid)

Dager 7 100 Målgruppe All Adults 15+ Use Campaign File Dates Files Eldet i seien Vickel Passeringer 0.TS VAC Relust Ubelust Tune område for nående	1							
Dager 7 Gr Målgruppe All Adults 15+  Vise Campaign File Dates Files I serien Viskel Passeringer OTS VAC Relust Ulhelust Type gryfde for trafikk Type gryfde for gående	]							
Files Flater serien Vinkel Passerinner OTS VAC Relust Uhelust Tune område for trafikk. Tune område for obende	ļ							
	4							
Dekning roadside         Dekning reiser         Dekning kjøpspunkt         Total kombinett dekning         CPT(C)         Flater uten verdier	Ļ .							
Flater         Snitt         Snitt         Snitt         Målgruppe         VAC         Pop.         VA         VA Snitt         GRP         CPT(C)								
Oslo Region         209         149,768         47,044         22,538         741,404         83.4         618,257         4,710,484         7.6         635								
Bergen Region 30 77,527 10,385 6,590 251,409 37.1 93,289 197,708 2.1 79								
Trondheim Region 58 95,879 49,173 18,782 160,998 80.8 130,040 1,089,329 8.4 677								
Stavanger Region 29 56,278 20,808 13,222 205,455 31.9 65,477 383,430 5.9 187								
Cities 50K + 156 59,357 31,596 15,830 386,190 71.7 277,059 2,469,446 8.9 639								
Rest 41 41,139 20,645 8,395 2,029,439 9.3 189,550 344,201 1.8 17								
Totalt 523 98,980 37,045 17,580 3,774,895 36.4 1,373,673 9,194,599 6.7 244								
Oslo Met 185 156,523 46,934 21,719 454,576 89.2 405,700 4,018,070 9.9 884								
Analysen inneholder kun fullstendige klassifiserte reklameflater Feilmargin +/- 2 %								
Package(s)/ Network(s) JCD Roadside A.txt Adshel 1600 network.txt								

#### Edit >Copy and then Edit >paste into Excel will produce the following:

	🔀 Microsoft Excel - Book1											
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3	E:\E\Trave	Survey\No	orway\Delivery\p	acks\JCD Roads	side A.txt							
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13	Oslo Regio	209	149,768	47,044	22,538	741,404	83.4	618,257	4,710,484	7.6	635	
14	Bergen Re	30	77,527	10,385	6,590	251,409	37.1	93,289	197,708	2.1	79	
15	Trondheim	58	95,879	49,173	18,782	160,998	80.8	130,040	1,089,329	8.4	677	
16	Stavanger	29	56,278	20,808	13,222	205,455	31.9	65,477	383,430	5.9	18/	
17	Cities 50K	156	59,357	31,596	15,830	386,190	/1./	277,059	2,469,446	8.9	639	
18	Rest	41	41,139	20,645	8,395	2,029,439	9.3	189,550	344,201	1.8	17	I
19	l otalt	523	98,980	37,045	17,580	3,774,895	36.4	1,3/3,6/3	9,194,599	b./	244	
20	Usio Met	185	156,523	46,934	21,719	454,576	89.2	405,700	4,018,070	9.9	884	
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### **Digest or Summary of stock**

The starting proposition is that similar panels are classified into environments depending on their main criteria. All roadside posters are classified using the same methodology and so are summarised together. In addition panels in Railway stations, or Metro stations or in other environments where the main object of the passing audience is to "travel" are included together. Likewise for panels in a retail environment, like Malls, supermarkets or other "purchase" type locations

Each category or environment is analysed and summarised by size and coverage region (Universe, Oslo, Bergen etc) and onwards down to the smallest region of District or Kommun.

#### Sheetage by media owner:

This window allows the interrogation of the number of panels or sheetage by size by area within the system.

E	over and Frequen	cy Analysis System							
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E	Format pr. selskar	o - Alle flater							
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			· · · · ·	onnai pr.	Scisitap A	ine nater			
[	)ekning i område	Alle områder	- Ko						
	2	Alle onlidder		Juic onida					
	Media Owner	Eurosize	Boards	City Backlite	Backlite (	Collumns F	Pillars	Total	
	Clear Channel	3,1	02 2,16	1	0 64	0	2,249	7,576	
	JCDecaux	3,9	135	U 6		118	U 2.240	4,122	
	Total	/,u	2,16	0 0	9 64	110	2,249	11,690	
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l l	0010001			i onnai pi	. seiskap	loadside			
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	JCDecaux		575	0	63 (	) 68		0 706	
	Totalt	1	1,200	485	63 61	66	22	26 2,103	
•									
-									

The pull-down boxes allow selection of particular areas.

- 1) Cover region: shows the sheetage by the Coverage model areas for Norway
- 2) District: shows the sheetage by the Kommun smaller areas in Norway.

Sheetage by Kommun/district:

This window shows a summary of sheetage by size for all kommun in Norway, this selection may take some time to generate its results.

ver and F	requency Analy:	sis System									_ 0
e Edit Oversikt Analyse Kampanje planlegger Window Help Version 1.16.74											
📕 📕 Fo	rmat pr. kommi	une									
<b>[</b> ]	UTDOOR		<b>ICT</b>	Format   •	or. komn	nune					
	Kommune	Eurosize	Boards	City Backlite	Backlite	Collumns	Pillars	Totalt	<b>_</b>		
	Alesund	65	45	0	0	C	24	134			
	Arendal	14	18	0	0	C	64	96			
	As	39	7	0	0	C	0	46			
	Asker	70	0	0	0	C	24	94			
	Askim	0	10	0	0	C	0	10			
	Askøy	0	2	0	0	C	0	2			
	Bærum	332	54	0	0	C	39	425			
	Bamble	4	4	0	0	C	18	26			
	Bergen	228	172	0	2	C	163	565			
	Bodø	54	26	0	0	C	0	80			
	Borre	8	17	0	0	C	0	25			
	Dramman	199	98	n	0		102	399	-		
								(	Close		
Fravel Surv	ev\Norway\Deliver	ry\Cafas databases'	CAFAS Norway V1	1 Socio.mdb	Date	28 May 2008	Database Version:	4			

It is possible to generate the Sheetage by District Digest filtered by Media Owner or by universe. When you enter this screen you have the option to select by Universe or by Media Owner.

Once a Sheetage digest is calculated it is saved in the current CAFAS database. If you have already calculated a Universe sheetage digest in this version of the CAFAS database it displayed on entry to the Sheetage by District screen. Any saved digest will be displayed very quickly, others may take some time, but then will be saved.

Flow by media owner:

This window shows the average adult passage flow per week, by region, size and month past each panel in the selected area. These are selectable by poster environment, Roadside, Retail and Travel.

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	Selskap	Euro	size	Boards	Ci	itγ Backlit	e Backlite	140 700	ollumns	Pillars	Totalt	05.7.10	
	Clear Channi ICDecaux	ei	83,005		91,090	13	6 250	110,793	81 870	J 71,43	0	86,749	
	Totalt		83,261		91.090	13	6,250	110,793	81,879	71.4	31	85.835	
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	Sel	skap	Eurosize		Boards	Cit	y Backlite	Backlite	Collumn	s Pillars	T	otalt	
	Clean	ar Channel		171,841	:	33,436	0		46,560	0	8,897	152,289	
	JCE	)ecaux		217,617		0	389,957		46.550	0	0 007	218,211	
		ait		201,070	· ·	53,436	389,957		46,560	U	8,897	192,318	
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The flow for each panel is calculated as the total vehicular and pedestrian adult passages (15+), averaged for each size over the selected month.

In the example above, the average flow past **each** of the Eurosize in the Travel environment is 155,922 adults per week.

The Flow is a daylight adjusted flow figure. The volume of passages that take place in daylight adjusts the Flow for un-illuminated posters. For illuminated panels the volume of traffic is 100% as the panel is visible in both daytime and night-time.



### Traffic in daylight.

The zones are borded by the midpoints between the zone centre cities,

Zone	Centre city
1	Tromso
2	Bodo
3	Trondheim
4	Oslo

OTS by media owner:

This window shows the average adult passage OTS (opportunity to see) per week, by region, size and month past **each** panel in the selected area. The OTS is the flow adjusted by direction of travel. For example, a "head on" panel will achieve a half of the flow of a particular road, whereas a parallel panel will achieve the whole flow, as the people who pass will have on opportunity to see it from whichever direction the make the passage. The OTS screens are selectable by poster environment, Roadside, Retail and Travel.

8	Cover and Frequency Analysis System	
F	File Edit Oversikt Analyse Kampanje planlegger Window Help Version 1.16.74	
1	珥OT5 pr. selskap - Roadside	
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L	Dekning i områder V Kommune Alle områder V	
L		
L	Selskap Eurosize Boards City Backlite Backlite Collumns Pillars Totalt	
L	▶ Clear Channel 44,380 63,308 0 60,976 0 42,497 53,166	
н	JCDecaux 45,285 0 77,761 0 44,940 0 46,861	
н	Totalt 44,789 63,308 77,761 60,976 44,940 42,497 51,493	
L	🐺 OTS pr. selskap - Handel	
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L	OTS pr. selskap - Handel	
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L	Gjennomsnittlig OTS pr. uke	
k	Dekning i område 📴 Besler 👻 Kommune Alle områder 💌	
	Selskap Eurosize Boards City Backlite Backlite Collumns Pillars Totalt	
	L Clear Channel         29,851         19,596         0         0         0         13,794         23,887	
	JCDecaux 18,680 0 0 0 13,418 0 18,206	
	Totalt 25,748 19,596 0 0 13,418 13,794 22,371	
	Måned Mai 🔽	lose
Ľ	4	
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The OTS is an orientation and daylight adjusted flow figure. For example head-on panels are only allocated 50% of the total road flow, as they can bee seen from one direction only, whereas parallel panels are allocated 100% of the total road flow. This percentage OTS is then adjusted by the volume of passage that take place in daylight for un-illuminated panels. For illuminated panels the volume of traffic in daylight is 100% as the panel is visible in both daytime and night-time.

The OTS shown is the Average Opportunity-to-See (OTS). Per Week (Av OTS PW); this is the common measure used throughout the cafas system, both in the campaign planner and campaign analysis sections.

#### VAC by media owner:

These windows show the average adult passage visibility adjusted contacts (VAC) per week, by region, size and month past each panel in the selected area.

Cover and Frequency Analysis System				
File Edit Oversikt Analyse Kampanje planlegger Win	dow Help Version 1.16.74			
📕 VAC pr. selskap - Roadside				^
UUTDUUK (GIMPACT	VAC pr. seisk	ap - Roadside		
	Giennomsnittlic	VAC pr. uke		
Dekning i emråde lung sta	Kommuno III tu			
	Kommune  Alle områder	<b>•</b>		
Selskap Eurosize Boar	ds City Backlite Backl	te Collumns Pillars	Totalt	
Clear Channel 19,298	21,256 0	27,880 0	16,597 20,005	
JCDecaux 20,584	21 256 35 550	27 880 30,242	16 597 20 484	
HAC pr. selskap - Handel	21,200 00,000	21,000 000,12	10,001	
		den an die ander		
UUTDUUK (GIMPACT	VAC pr. sei	skap - Handel		
	Giennomsnitt	ia VAC pr. uke		
Dekning i område	Kommuno			
Uslo Region	Alle områder	<u> </u>		
Selskap Eurosize Boa	ards City Backlite Bacl	dite Collumns Pillars	Totalt	
Clear Channel 21,833	14,655 0	0 0	7,746 16,893	
JCDecaux 13,134 Totalt 18,638	U U 14.655 0	0 8,862	7 746 15 787	
local local	11,000	0,002	1,110	
Måned V-				]
Mai V				-1026
E:\E\Travel Survey\Norway\Delivery\Cafas databases\CAFA	S Norwau V11 Socio mdb D	ate: 28 May 2008, L. Diatabase Version: A		

The VAC is a visibility and daylight adjusted OTS figure. The probability of seeing each panel is calculated from its classification survey data, and the number of visibility adjusted contacts derived. The **average** VAC is then calculated for each company/size/region. For example as above, the average visibility adjusted contact per week for Eurosize in the roadside environment is 19,880 in May.

Factors such as viewing distance, set-back from road, size, angle and traffic speed, vary the figure for each panel in each region.

So it should be expected that the average VAC per week for a Eurosize in Oslo will be higher than for a similar panel in Stavanger.

The VAC shown is the Average VAC per week (**Av VAC PW**); this is the common measure used throughout the cafas system, both in the campaign planner and campaign analysis sections.

#### Network or Campaign Analysis

The network/campaign analyser is designed to estimate coverage of specific sets of panels in a campaign when the system is provided with a list of the specific panels. The program looks-up the actual panel scores (Flows/OTS/VAC) for each individual poster listed in the network/campaign (Note that the campaign planner detailed later in the manual, only uses average panel scores.)

In addition to reading the "actual audience data" for the selected panels, the system will also analyse the "distribution" or spread of the network or campaign. It does this by checking how many Town or Kommun centres are allocated panels in the network for each coverage region. (Using GPS location of poster panels).

A further note explaining distribution or spread of a campaign. It is theoretically possible to have one network with more posters in it than a second network, but the second network producing higher coverage levels, by reason of it being more widely distributed than the first.

### The option is reached by selecting on main menu bar: Analysis > Package or Campaign

The format of the input files is described in an associated document (Industry Standard Coding Structure Campaigns.doc)

Network files will typically be provided by the media owners.

A typical network/campaign file details the panels and dates as in the example below:

<b>I</b>	25 random C	C Boards.txt -	Notepad					
Eile	<u>E</u> dit F <u>o</u> rmat	⊻iew <u>H</u> elp						
ELC	1601	0000	0465B0A017TRON	1	Boards	"TRONDHEIM, STRANDVN. 94/96B" 010108	140108	
CLC	0301	0000	2018B0A0600SL0	1	Boards	"OSLO, AKERSGT. 73" 010108 140108		
CLC	0301	0000	0151B0A0040SL0	1	Boards	"OSLO, ÏSTENSJÏVN. 64" 010108 140108		
CLC	1201	0000	3210B0A326BERG	1	Boards	"BERGEN, LITLEL+SVN.47" 010108 140108		
CLC	: 1804	0000	0338B0A012B0DÏ	1	Boards	"BODÏ, BANKGT. 13" 010108 140108		
CLC	: 0301	0000	0151B0A00305L0	1	Boards	"OSLO, ÏSTENSJÏVN. 64" 010108 140108		
CLC	1103	0000	3210BOA117STAV	1	Boards	"STAVANGER, VERKSGT. 10" 010108	140108	
CLC	: 1247	0000	0656B0A138BER	1	Boards	"BERGEN, ASKÏY BRENSEL, FLORV+G"	010108	140108 -
CLC	0301	0000	3210BOA192OSLO	1	Boards	"OSLO, BÏLERLIA 1" 010108 140108		
CLC	0301	0000	0471B0A3270SL0	1	Boards	"OSLO, ANDERS WINSVOLDVEI 15" 010108	140108	
CLC	0602	0000	1811BOA004DRAM	1	Boards	"DRAMMEN, GRINLAND 89" 010108_140108		
CLC	0301	0000	3210B0A00405L0	1	Boards	"OSLO, HAAVARD MARTINSENS VEI 33"	010108	140108
CLC	1106	0000	0685BOA107HAUG	1	Boards	"HAUGESUND, STRANDGT. 146" 010108	140108	
CLC	0301	0000	0075B0A1170SL0	1	Boards	"OSLO, HANS N. HAUGESGT. (NSB -BROKAR)"	010108	140108
CLC	1504	0000	1875B0A017+LES	1	Boards	"+LESUND, NEDRE STRANDGT. 42" 010108	140108	
CLC	0301	0000	3210BOA24/OSLO	1	Boards	"OSLO, NORDSTRANDVN. 12/" 010108	140108	
CLC	0104	0000	2231BOA002MOSS	1	Boards	"MOSS, KLOSTERGT. 6" 010108 140108		
CLC	0106	0000	3337BOAUU2FRED	1	Boards	"FREDRIKSTAD, NYG+RDSGT. 32" 010108	140108	
CLC	0106	0000	0160BOA003FRED	1	Boards	FREDRIKSTAD, DIKEVN. 8 010108	140108	
CLC	0301	0000	0189BOA0010SLO	1	Boards	"OSLO, MALMIGT. /" 010108 140108	~ ~ ~ ~ ~ ~	1 4 6 1 6 5
CLC	. 0301	. 0000	UL/UBOALU3OSLO	Ť	Boards	OSLO, GRINLANDSLEIRET /3(TTagg)	010108	140108
CLC	1601	. 0000	3210BOA287TRON	Ť	Boards	TRONDHEIM, JARLEVEIEN 8 UIUIU8	140108	
CLC	. 0806	0000	U210BOA002SKIE	1	Boards	SKIEN, BILEVN. 4 UIUIU8 140108	4 4 4 4 4 4 4	
	1001	0000	1771D04002UAM	1	Buanus	"UNMAD DAVKEGT (CDŽNUGGT 07)" 010108	140108	
	0404	0000	1771BUAUU2HAM	1	вoards	"AMMAR, BARREGI (GRINNEGI, 97) ULULUS	140108	
	0301	0000	3210BOAL/60SLO	1	Boards	"LADVIK HUTTER PIECT 15" 010108	140109	
	0709	0000		1	Boands	"OSLO DILESTREDET/ST. OLAVSCT."	010108	140109
	0301	0000	013000400405L0	1	Boands	"OSLO, PILESTREDET/ST. ULAVSGT.	010108	140108
LCLC	. 0501	0000	013900A00403L0	1	DUarus	USEO, STOKGI, 45 ULULUA 140108		•

Network or Campaign file selection.

The option is reached by selecting on main menu bar: Analysis > Package or Campaign

The system is designed so that single or multiple networks/campaigns can be analysed together, in a "pick and mix" manner

Cover and Frequency Analysis System - [CAFAS]											
I File Edit Chart Oversitt Analyse Kampanje planlegger Options Window Help Version 1.16.74	_ 뢴 쓰										
OUTDOOR @ IMPACT Serie analyse											
Dager 7 Go Målgruppe All Adults 15+ V Måned Mai V N+ 1 V											
🔽 Use Campaign File Dates											
Dekning roadside Dekning reiser Dekning kjøpspunkt Todal kombinent dekning CPT(C) Flater uten verdier											
Files Flater i serien Vinkel Passeringer OTS VAC Belyst Ubelyst Type område for trafikk. Type område for gående											
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Analysere     Legg til filer     T a bort fil     Blank ut alle filer       Package(s)/ Network(s)       JCD Roadside A.txt Adshel 1600 network.txt											
E:XE\Travel Survey\Norway\Delivery\Cafas databases\CAFAS Norway V11 Socio.mdb Date: 28 May 2008   Database Version: 4	1.										

Instructions on how to analyse a package, network or campaign:

1. Press the "add files" button, then select the required files, multiple selections are allowed

For each file selected a line will appear on the "Files" tab as shown above:



- 2. Press the "analyse" button, the system will then read in the panels in the campaign files and match the panels to the database of classification data.
- 3. The window will flip to the combined cover screen once the campaign files have been analysed see below:

### Campaign sheetage

over and F	requency An	alysis Sy	stem - [CAF	AS]									
le Edit (	Chart Oversil	d: Analys	e Kampanje	planlegger	Options W	'indow Help	Version 1	.16.74					
UTDO	TDOOR IMPACT Serie analyse												
ager [	7 Go Mål	gruppe	All Adults	15+				▼ Måne	d Mai		• N+		
Г	Use Campa	ign File Dal	es										
Files	Flater i seri	en I V	/inkel	Passeringer	OTS	VAC	Belyst	Ubely	st   Type	område for	trafikk	Type område for gåe	nde
Deknir	ng roadside	De	ekning reiser	De	kning kjøpsp	unkt		Total kom	binert dekning		CPT(C)	Flater uten verdi	er
		Flater	Snitt asseringer/uk	Snitt OTS/uke	Snitt VAC/uke	Målgruppe Pop	VAC Dekning	Pop. Dekning	VA Kontakter	VA Snitt Frekvens	GRP	CPT(C)	
Oslo Reg	jion	209	149,768	47,044	22,538	741,404	83.4	618,257	4,710,484	7.6	635		
Bergen F	legion	30	77,527	10,385	6,590	251,409	37.1	93,289	197,708	2.1	79		
Trondhei	m Region	58	95,879	49,173	18,782	160,998	80.8	130,040	1,089,329	8.4	677		
Stavange	er Region	29	56,278	20,808	13,222	205,455	31.9	65,477	383,430	5.9	187		
Cities 50	K+	156	59,357	31,596	15,830	386,190	71.7	277,059	2,469,446	8.9	639		
Rest		41	41,139	20,645	8,395	2,029,439	9.3	189,550	344,201	1.8	17		
Totalt		523	98,980	37,045	17,580	3,774,895	36.4	1,373,673	9,194,599	6.7	244		
Oslo Met		185	156,523	46,934	21,719	454,576	89.2	405,700	4,018,070	9.9	884		
Analysen i Feilmargin	Analysen inneholder kun fullstendige klassifisette reklameflater Feilmargin +/- 2 % Package(s)/ Network(s) JCD Roadside A.txt												
								ľ	Aasner 1600 he	etwork. (Xt			

The Tabs along the top of the resulting window give a different analysis on various criteria, such as illumination and site area type, and additionally the coverage for each environment (Roadside/Travel/Retail) of the campaign or network.

Files	Simply lists the files included in the analysis, files may be removed or added.
Sheetage	Details the size and owners of the package. All panels in file that matches to database.
Angle	Head-on, Angled or Parallel panel count by size and owner of classified panels.
Flow	Shows the average adult Flow per week by size and owner.
OTS	Shows the average adult OTS per week by size and owner
VAC	Shows the average adult VAC per week by size and owner
Illuminated	Count of illuminated panels by size and owner.
Non-illuminated	Count of non-illuminated panels by size and owner.
Site Area	Count of roadside panels in each type of site area and owner.
Ped Site Area	Count of non-roadside panels in each type of site area and owner.
Cover	Shows the same columns as the campaign planner screen. However, the system has calculated the actual average weekly adult Flow/OTS and VAC for the panels in the campaign file.

Details of Tab analysis contents:

Network/Campaign analysis - Roadside:

Each coverage tab (Roadside, Travel or Retail) shows the contribution in coverage terms that each poster environment is making to the total coverage of the campaign, the **combined** tab provides the **total campaign coverage**.

Note that "use campaign file dates" option has been selected. This allows for mixing of networks of varying dates, for instance Eurosize for 1 week and billboards for 4 weeks. In addition the reduced columns has been selected for clarity. The option to take the campaign period from the screen also exists.

Eila Edit											
lie Luic	Chart Over	sikt Analys	e Kampanje	; planlegger	Options \	Vindow Help	Version 1.	16.74		_ É	
UTDOOR ( IMPACT Serie analyse											
Dager 7 Go Målgruppe AllAdults 15+											
	Use Camp	aign File Dal	es					_			
Files Flater i serien Vinkel Passeringer OTS VAC Belyst Ubelyst Type område for trafikk Type område for gående Dekning roadside Dekning reiser Dekning kjøpspunkt Total kombinert dekning CPT(C) Flater uten verdier											
		Flater	Målgruppe Pop	VAC Dekning	Pop. Dekning	VA Kontakter	VA Snitt Frekvens	GRP	CPT(C)		
Oslo R	egion	113	741,404	79.0	585,869	5,751,176	9.8	776			
Bergen	Region		251,409								
Trondh	neim Region	56	160,998	90.4	145,536	2,171,588	14.9	1,349			
Stavan	nger Region	4	205,455			160,948					
Cities 5	50K +	119	386,190	77.0	297,535	4,220,661	14.2	1,093			
Rest		26	2,029,439	18.7	379,101	379,101	1.0	19			
Totalt		318	3,774,895	37.3	1,408,041	12,683,474	9.0	336			
Uslo M	et	100	454,576	89.1	405,035	5,046,360	12.5	1,110			
Analyser Feilmarg	n inneholder ku in +/- 2 %	n fullstendige	e klassifiserte	reklameflate	er						
						Pac	:kage(s)/Ne	twork(s)	JCD Roadside A.txt Adshel 1600 network.txt		

The columns in the cover grid (above) display the following numbers:

Panels	The number of classified (and so contributing) panels by model region.
Av Flow	Shows the average traffic Flow in adults 12+, for the indicated region and selected size per week. This number can be checked by opening the digest > Flow by media owner screen. The average Flow per week will match that displayed in the campaign planner.
Av OTS	Shows the average directionally adjusted Opportunity-to-See (OTS).in adults per week, for the indicated region and size.
Av VAC	Shows the average number of visibility adjusted contacts VAC, in adults per week, for the indicated region and size.
VAC cover%	Shows the estimated VAC coverage which is the proportion of the selected audience by region that will have at least one contact with the campaign of X panels over the time period selected, in the example above this is 14 days.

POP Cover	Shows the Population covered as the number of the selected social group in that region, that will have at least one contact with the campaign. (VAC cover% X Total region social group population = POP cover)
VA Contacts	Shows the total number of Visibility adjusted contacts (VAC) that the selected social group will have with the campaign.
VA Av Freq	Shows the Visibility adjusted average frequency which is the average number of visibility adjusted contacts (VAC) that the covered population will have with the campaign over the selected number of days.
GRP	Poster equivalent "ratings" for the campaign. See section in cafas terminology on GRP
СРТ	Poster cost per thousand, either contacts or covered. See section Cost Per Thousand

<u>Network/Campaign analysis – Travel:</u>

Each coverage tab (Roadside, Travel or Retail) shows the contribution in coverage terms that each poster environment is making to the total coverage of the campaign. (See the combined tab for the total coverage of the campaign)

The travel coverage component is shown below:

ver and F	requen	cy Anal	ysis Sys	tem - [CA	FAS]									_ 🗆 ×
ile Edit	Chart (	Oversikt	Analyse	e Kampanj	e planlegger	Options \	Vindow Help	Version 1.	16.74					_82
UTDC	ITDOOR @ IMPACT Serie analyse													
ager 7 Go Målgruppe AllAdults 15+ 🗸 Måned Mai 🔻 N+ 1 💌														
		- Campaign	File Dat							1				
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Files Delus	i riau	an senen :u-		kning reiser	r asseninge	a ji Ulo Delusiae kiese	- VAC	Delyst	Taballa	ayst   I	ype onnade for tra	лкк	Type onnade for gaend	le
Dekn	ing roads	ide		Kniing teisei		Jekning kjøps	punkt		Total Ko	mbinert dekr	ning   Ur	-1(C)	Flater uten verdier	
			Flater	Målgruppe Pop	VAC Dekning	Pop. Dekning	VA Kontakter	VA Snitt Frekvens	GRP	CPT(C)				
Oslo Re	gion		72	741,404	49.1	364,255	2,931,932	8.0	395					
Bergen	Region		20	251,409	25.0	62,959	62,959	1.0	25					
Trondhe	im Regia	n	2	160,998	4.4	7,070	7,070	1.0	4					
Stavang	jer Regio	n	15	205,455	11.0	22,507	74,226	3.3	36					
Cities 50	)K +		18	386,190	3.0	11,646	248,685	21.4	64					
Rest				2,029,439										
Totalt			127	3,774,895	12.4	468,437	3,324,871	7.1	88					
Oslo Me	:t		65	454,576	56.6	257,287	2,611,816	10.2	575					
Analysen Feilmargir	innehold n +/- 2 %	er kun ful	llstendige	klassifiserte	reklameflati	er								
							Pac	κage(s)/ Νε	twork[s]	JCD Roads Adshel 160	ide A.txt 0 network.txt			
Travel Surv	vev\Norv	vav\Deliv	ery\Cafa	s databases	CAFAS Nor	way V11 Soci	o.mdb	Date: 28	May 2008	Database	e Version: 4			

It should be noted that there is a minimum campaign analysis size for each region. The current minimum is set to 2 posters.

#### Network/Campaign analysis - Retail:

Each coverage tab (Roadside, Travel or Retail) shows the contribution in coverage terms that each poster environment is making to the total coverage of the campaign. (See the combined tab for the total coverage of the campaign)

The Retail coverage component is shown below:

ver and F	Frequency An	alysis Sy:	stem - [CA	FAS]									
e Edit	Chart Oversik	dt Analys	e Kampanje	e planlegger	Options V	Vindow Help	Version 1.	16.74					_ 8
UTDC	JOR @	IMP/	ACT		S	Serie a	nalyse	e					
ager	7 Go Mål	gruppe	All Adul	ts 15+				➡ Mår	ned 🕟	1ai 🔻	N+	1 -	
	Use Campai	ion File Da <sup>r</sup>	ies i					-					
Files	Elater i seri	en l	√inkel	Passeringe	a L OTS	VAC	Belust	Ubr	elust	Type område for traf	iikk l	Type område for nåend	le I
Dekn	ing roadside	Dr	ekning reiser		Dekning kjøps	punkt		Total kr	ombinert de	skning CP	ידוכו ל	Flater uten verdier	
		<u></u>					<u> </u>					1	<u> </u>
		Flater	Målgruppe Pop	VAC Dekning	Pop. Dekning	VA Kontakter	VA Snitt Frekvens	GRP	CPT(C)				
Oslo Re	gion	24	741,404	29.7	220,274	737,861	3.3	100					
Bergen	Region	10	251,409	43.9	110,445	332,457	3.0	132					
Trondhe	im Region		160,998										
Stavang	jer Region	10	205,455	34.3	70,523	531,687	7.5	259					
Cities 50	JK +	19	386,190	29.7	114,627	469,547	4.1	122					
Rest		15	2,029,439			309,301							
Totalt		78	3,774,895	13.7	515,868	2,380,854	4.6	63					
Oslo Me	et 🗌	20	454,576	34.0	154,368	377,964	2.4	83					
Analysen Feilmargir	inneholder kun i h +/- 2 %	fullstendige	; klassifiserte	reklameflate	a								
						Pac	:kage(s)/ Ne	twork(s)	JCD Roa Adshel 1	idside A.txt 600 network.txt			

It should be noted that the Retail environment is significantly different to both Roadside and Travel.

Roadside and Travel will have high coverage and frequency figures as the population will make multiple passages past posters in the campaign over the period of a week or more.

In the Retail environment there may be a lower average frequency as the population will visit these locations less often. The coverage may be larger per 10,000 VAC because there may be less repeat passages

<u>Network/Campaign analysis – Transport (Buses or Trams):</u>

To be available in phase II of project.

#### Panels without scores

The Campaign/Network Analysis program will match the input poster details (site and panel number) to the database and allocate the correct Flow/OTS/VAC to each panel in the campaign. However, there may be panels that will not be "scored" and the system will display the reasons for this on the "panels without scores" tab.

Error Message	Problem
New Panel	The Site/Panel number is not in the Classification system
	(PSS)
Demolished	Warning only, the panel has been indicated as demolished
	in the classification system (PSS). If previously classified
	the score is allocated normally.
Awaiting classification	Panel is in the Classification system (PSS) but has not
	yet been classified or is not fully classified.
No roadside flow	No roadside flow can be allocated, the Street Name is
available	unknown and the GPS does not place the panel within
	200m of any other road.
No roadside visibility	There is no roadside visibility indicated in the
Q3/4	classification system (PSS) on questions 3 and 4,
	vehicles and pedestrians.
No travel flow available	There is incomplete or inconsistent data in the
	classification system preventing an allocation of footfall.
No retail flow available	There is incomplete or inconsistent data in the
	classification system preventing an allocation of footfall.

The total campaign sheetage is shown on the "Campaign sheetage" tab, this may be different from the total on the "Combined cover" tab, the difference will be made-up by the panels without scores.

#### Network/Campaign analysis - Combined:

Each coverage tab (Roadside, Travel or Retail) shows the contribution in coverage terms that each poster environment is making to the total coverage of the campaign, the combined tab adds the resulting coverage using a combination model to measure the "overlap" from each environment. The "overlap" being the people who see the campaign in multiple environments, Roadside and Retail, or Retail and Travel etc.

An explanation of the overlap measures can best be done using the following example. It is possible that on adding retail panels to a large roadside campaign they may not significantly increase the coverage of the campaign. This is because, the people who travel to the retail locations will almost certainly pass the campaign on the roadside at some point over the campaign period.

The combined or total coverage of a mixed Travel, Retail and Roadside campaign is shown below: Note using campaign file dates (option).

🖳 Cover and F	over and Frequency Analysis System - [CAFAS]												
🖽 File Edit 🗉	Chart (	Oversikt	Analyse	e Kampanji	e planlegger	Options \	Window Help	Version 1.	16.74		_ 8 ×		
OUTDO	JUTDOOR ( IMPACT Serie analyse												
Dager	Dager 7 Go Målgruppe All Adults 15+ V Måned Mai V N+ 1 V												
Í	✓ Use f	- Campaign	n File Date	1					_				
Files	Elate	r i serien	Ιv	inkel	Passeringe	e l ots	1 VAC	Belust	1 Ube	elust I Tupe område for trafikk I Tupe område for gåer	ude Ì		
Dekni	ng roads	ide	De	kning reiser		Dekning kjøps	punkt	1 200	Total ko	ombinert dekning CPT(C) Flater uten verdie	ar i		
	-			-							— <u>i</u>		
			Flater	Målgruppe Pop	VAC Dekning	Pop. Dekning	VA Kontakter	VA Snitt Frekvens	GRP	CPT(C)			
Oslo Re	gion		209	741,404	88.8	658,030	9,420,969	14.3	1,271				
Bergen F	Region		30	251,409	49.5	124,335	395,416	3.2	157				
Trondhe	im Regio	n	58	160,998	90.4	145,536	2,178,658	15.0	1,353				
Stavang	er Regio	n	29	205,455	41.5	85,162	766,860	9.0	373				
Cities 50	K +		156	386,190	83.7	323,427	4,938,893	15.3	1,279				
Rest			41	2,029,439	18.7	379,101	688,402	1.8	34				
Totalt			523	3,774,895	45.4	1,715,592	18,389,198	10.7	487				
Oslo Me	t		185	454,576	96.9	440,595	8,036,140	18.2	1,768				
Analysen Feilmargin	Analysen inneholder kun fullstendige klassifiserte reklameflater Feilmargin +/- 2 % Parkanefs!/ Network[s]												
E:\E\Travel Surv	Package(s)/ Network(s) JCD Roadside A. txt Adshel 1600 network.txt Travel Survey/Norway/Delivery/Cafas databases/CAFAS Norway V11 Socio mdb Date: 28 May 2008   Database Version: 4												



### Campaign Charts - Cover over time / N Plus

The CAFAS Analysis function has had two charting options.

These charts show:

- 1. The increase in Cover over time
- 2. N plus coverage at the selected time period.

The Charts are available from the main menu bar at the top of the CAFAS screen after using the Campaign Analysis screen. The operate on each Coverage Tab, so can be chosen to show either the Combined cover or Roadside/Retail/Travel/Transport cover.

The charts are offered in 5 options, three Cover over time and two N Plus.

Note the campaign should be "Analysed" before selecting the chart options.

🔣 Cover a	nd Frequency Analysis Sy	stem		
File Edit	Chart Digest Analysis (	Campaign Planner Options	Window Help Version 1.16.7	
CAFAS OUTD	Cover over time Cover over time 14 Days Cover over time 28 Days N Plus 1 - 10 N Plus 1 - 20	Cam	paign or Packag	e Analysis
Days	7 Go Target Mark	et All Adults 12+		Month January
	T jose campaign File D	aies	0	00710
Files	Campaign Sheetage	Angle   Flow   OTS	VAC Illuminated Non-Ill	uminated   Site Area   Ped Site A

Please note that the "Use Campaign File Dates" is not used and should be <u>unticked</u> before using the chart options. The number of days used in the charts is taken from the days box or the days 14/28 as selected on the option menu.

The charts are produced for the Target Market/ Month / Number of days and N+ selected on the main screen.

The Cover over time charts are available with three options. The first option charts a variable number of days (from 1 to 28) to be chosen dependent on the number of days selected on the screen in the days box and the particular coverage tab chosen. (Roadside/Retail/Travel/Buses).

Two are fixed length charts available, 14 days and 28 days.

The chart below is produced using 7 days, the default in the days box.



By changing the number of days required, to 20 in this case, This Cover over time chart may be used for any period up to a maximum of 28 days.



The previous example shows a chart for "Combined Total Cover". Charts are available for each "Environment" - Roadside, Travel, Retail, Transport (Bus/Tram) and Combined Total Cover.

To select a Roadside chart click on the "Roadside" Tab and then choose the chart required.

Cover and Frequency Analysis System - [CAFA5]												
The Edit Chart Oversikt Analyse Kampanje planlegger Options Window Help Version 1.16.74												
OUTDOOR ( IMPACT Serie analyse												
Cover over time												
90 80 70 60 60 60 60 70 60 70 70 60 70 70 60 70 60 70 70 60 70 70 60 70 70 60 70 70 60 70 70 60 70 70 60 70 70 70 70 70 70 70 70 70 7												
Bergen Region         Bergen Region           0         - <td></td>												
20 20 20 Rest 10 20 20 20 C Totalt												
Dager												
Roadside Close												

The N Plus charts are available in two options. Either from 1 to 10 or 2 to 20. The 1<sup>st</sup> option on the menu and allows charts of variable number of days controlled by the number of days on the screen.

Please note that the "Use Campaign file dates" is not used to set the number of days on the chart.



N Plus charts can be selected for the same environments as the Cover over time function.

Campaign Charts - Copy and Pasting

How to copy the charts into Excel and Word documents

The charts exist on the computer system as both a table of numbers and a picture. You will need to select which is required when using the Copy and Paste function.

To copy and paste the charts into Excel and Word from Cafas you will need to follow the instructions below:

Copying the Chart:

1) To copy the chart use Edit > Copy



2) To paste the chart picture use Edit > "Paste Special" in your required target program, Excel or Word.

M	kros	oft Excel									
Ele	Ed	t View Insert	Forma	t Tools Da	ta <u>Wi</u> ndow	Help					
0	•7	Undo Clear (	Ctrl+Z	B B . J	N . N . 1	A E - 24	1 1 3 1	00% • 🕐	Arial		• 10 •
161	60 65	Copy C Easte C	Ctrl+C Ctrl+V	TPReply with	h <u>Changes</u>	Egd Review					
		Paste Special		-						_	_
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	4										

### 3) Select bitmap

Book1														
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		Courses												
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		C Paste link:	Bitmap											
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)														
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5			of memory	and disk spac	e, but is exact	ly as								
5			you see on	the screen.										
'														
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7														
	et1/shee	t2 / Sheet3 /					4						•	

4) The Chart picture will be pasted into your target program, Excel or Word.



Copying the data behind the chart:

1) To copy the data use Edit > Copy



2) To paste the Table of numbers use Edit > Paste in your required target program, Excel or Word.



3) The table of numbers used in the chart is pasted.

<b>N</b>	Kicrosoft Excel - Book1												
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<u> </u>	A1	-	•	= N Plus 1 to	20								
	Α	T	B	С	D	E	F	G	H	I	J	K	L 着
1	N Plus 1	to :	20										
2	N+	C	Oslo Regio	Bergen Region	Trondheim Regi	Stavanger Regi	Cities 50K +	Rest		Totalt			
3		1	83.3901	37.1064	80.7713	31.8694	71.7416	9.34004	0	32.4786			
4		2	73.0982	18.7875	73.9845	22.302	57.9567	1.92869	0	24.0476			
5		3	63.7662	8.95037	67.7673	15.4889	48.1846	0	0	19.4416			
6		4	55.8171	4.66583	62.0719	10.0168	40.9348	0	0	16.6489			
7		5	48.9393	2.42359	56.8546	6.40119	35.2194	0	0	14.4139			
8		6	42.8978	1.06841	52.0753	3.98865	30.3918	0	0	12.5344			
9		7	37.5583	0.389293	47.6971	2.37479	26.2246	0	0	10.9325			
10		8	31.6756	0.059379	43.6864	1.56436	22.6275	0	0	9.36115			
11		9	26.2737	0	40.0123	1.04028	19.5226	0	0	7.96187			
12	, í	10	21.6552	0	36.6466	0.688588	16.8424	0	0	6.76234			
13	, í	11	17.7119	0	34	0	15	0	0	6			
14	, í	12	14.3514	0	31	0	13	0	0	5			
15	, í	13	11.4584	0	28	0	11	0	0	4			
16	, í	14	8.96595	0	25	0	9	0	0	3			
17	, í	15	6.88211	0	22	0	8	0	0	3			
18	, í	16	5.13787	0	18	0	7	0	0	2			
19	· ·	17	3.87521	0	16	0	6	0	0	2			
20	· ·	18	3.24047	0	13	0	5	0	0	2			
21		19	2.60015	0	11.0671	0.00203401	4.43078	0	0	1.28174			
22	2	20	2.0455	0	9.18318	0.000411955	3.81526	0	0	1.05652			
23													
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### **Analysis Campaign Comparison**

The campaign comparison option has been designed so that the user may view the results of multiple networks/ campaigns or mixtures of networks/campaigns on the same screen for the purposes of comparing coverage and frequency results.

The process to access this data is as follows:

- 1. Analyse a network or campaign in the Analysis > Package or Campaign option.
- 2. The window will show "Combined Total cover".
- 3. Use option File > Save Campaign. (enter your own description if required)
- 4. Repeat 1 to 3 above on as many campaigns as required.

The details of this network / campaign or mixture of networks is then saved to a file in the Cafas database.

NOTE if you are using a centrally administered database these are saved in the central file.

#### The Campaign Save screen in Pictures:

Load Campaign			461		9	Serie a	nalyse	9					
Dager 7 Go Målgruppe All Adults 15+ Måned Mai V N+ 1 V													
🖵 Use (	Campaigr	n File Dat	es					_	,				
Files Flate	er i serien		/inkel	Passeringe	r   OTS	VAC	Belyst	Ube	lyst	Type område	for trafikk	Type område for gående	•
Dekning roads	ide	) De	kning reiser		) ekning kjøps	punkt		Total ko	mbinert de	kning	CPT(C)	Flater uten verdier	i
						· · · ·							-1
		Flater	Målgruppe Pop	VAC Dekning	Pop. Dekning	VA Kontakter	VA Snitt Frekvens	GRP	CPT(C)				
Oslo Region		209	741,404	83.4	618,257	4,710,484	7.6	635					
Bergen Region		30	251,409	37.1	93,289	197,708	2.1	79					
Trondheim Regio	n	58	160,998	80.8	130,040	1,089,329	8.4	677					
Stavanger Region	n	29	205,455	31.9	65,477	383,430	5.9	187					
Cities 50K +		156	386,190	71.7	277,059	2,469,446	8.9	639					
Rest		41	2,029,439	9.3	189,550	344,201	1.8	17					
Totalt		523	3,774,895	36.4	1,373,673	9,194,599	6.7	244					
Oslo Met		185	454,576	89.2	405,700	4,018,070	9.9	884					
Analysen innehold Feilmargin +/- 2 %	er kun fu	illstendige	klassifiserte	reklameflate	91								
Package(s)/ Network(s) JCD Roadside A txt Adshel 1600 network.txt													

After analysis of the chosen network or campaign file: use File >Save Campaign

A screen is shown that defaults to the network or campaign file name, but allows the user to enter their own description as required by overtyping in the central box. This is necessary if a combination of networks / packages have been analysed.

🗮 Cover and Frequency Analysis System - [CAFAS]	<u>_ 🗆 ×</u>
問 File Edit Chart Oversikt Analyse Kampanje planlegger Options Window Help Version 1.16.74	_ 8 ×
OUTDOOR ( IMPACT Serie analyse	
Save Campaign	
Campaign Description Test mixture of CC and JCD networks	
Save Campaign Cancel	
E:/E\Travel Survey\Norway\Delivery\Cafas databases\CAFAS Norway V11 Socio.mdb Date: 28 May 2008   Database Version: 4	

The details of this network / campaign or mixture of networks is then saved to a file in the Cafas database.

When multiple networks / campaigns have been "saved" it is then possible to view them in the campaign comparison screen.

The Campaign comparison screen.

The option is accessed from the menu by choosing Analysis > Campaign comparison.

Cover and Frequency Analysis System	<u>_     ×</u>
Load Campaign	
Cover and Frequency Comparisons	
Environment Kombinett dekning 🔽 Måned Mai 🔽 🔽 Use Campaign File Dates	
Dekning i Alle områder 💌 Målgruppe All Adults 15+ 💌 Dager 14 💷 N+ 1	
	_
Dekning i Serie Målgruppe Pop VAC Pop. VA Snitt VA GRP Dager CPT Flater	
Close	
E:XE\Travel Survey\Norway\Delivery\Cafas databases\CAFAS Norway V11 Socio.mdb Date: 28 May 2008   Database Version: 4	

The screen will appear blank.

It is now possible to choose or "load" the specific campaigns on which comparisons are required.

From the File menu choose the option > Load Campaign (see above picture)

When the > Load Campaign option is selected the system will display all of the previously analysed and saved networks / campaigns.

🗏 Cover and Frequency Analysis System										
File Edit Oversikt Analyse Kampanje planlegger Window Help Version 1.16.74										
Post Campaign Comparison										
Cover and Frequency Comparisons										
Environment Kombinert dekning V Måned Mai	Use Campaign File Dates									
Dekning i Alle områder 🔄 Målgruppe All Adults 15+	▼ Dager 14 50 N+ 1 ▼									
Delete Description	Date									
Test mixture of CC and JCD networks	28/05/2008									
Adshel 1600 network.txt	28/05/2008									
JCD Roadside A.txt	28/05/2008									
Storby Roadside A.txt	28/05/2008									
Adshel 1300 network.txt	28/05/2008									
Delete	Cancel									
E:\E\Travel Survey\Norway\Delivery\Cafas databases\CAFAS Norway V11 Socio.mdb Date: 28 May 2008   Database	Version: 4									

The campaigns required can be selected in three ways

- 1. Control + Left Click on name highlights and selects multiple networks / campaigns, then press load button
- 2. Double click selects and loads one single campaign
- 3. Click name to highlight > Press load button, selects a single campaign

You can delete campaigns you no longer want by clicking on the tick box in the first column and then pressing the "Delete" button.

The campaign comparison screen is then displayed with the previously selected networks / campaigns. The default selections are:

- All regions
- Combined Coverage
- All Adults 15+
- Using Network / Campaign dates for duration
- N+ = 1

File E	<b>ver and Fr</b> e Edit Oversi	e <b>quency Analysis Syst</b> e kt. Analyse Kampanje p	em blanlegger Windov	v Help Versi	ion 1.16.74		_		_			<u>_   ×</u>	
Er	<b>UUIU</b> nvironment	Kombinert dekning	ACI Måned	Cover al	nd Frequ	uency C I	omparis	ons	V	Use Campa	ign File Dates		
De	ekning i	Alle områder	Målgru	ppe All A	.dults 15+	_			• D	ager 14	io N+ 1	•	
	Dekningi område	Serie	Målgruppe Pop	VAC Dekning %	Pop. Dekning	VA Snitt Frekvens	VA Kontakter	GRP	Dager	CPT	Flater		
A	Alle områder	Test mixture of CC and	4,229,471	40.6	1,715,592	10.7	18,389,198	435	14.		- 523		
A	Alle områder	Adshel 1600 network.txt	4,229,471	39.0	1,650,232	8.8	14,571,346	345	14.		- 442		
A	Alle områder	Storby Roadside A.txt	4,229,471	36.5	1,544,624	6.2	9,544,129	226	14.		- 271		
A	Alle områder	Adshel 1300 network.txt	4,229,471	27.1	1,146,434	10.2	11,651,056	275	14.		- 332		
	Alle områder   Adshel 1300 network_txt 4,229,471 27.1 1,146,434 10.2 11,651,056 275 14. 332												
	_	_	_	_	_	_	_	_	_	_		Close	
E:\E\T	Travel Surve	y\Norway\Delivery\Cafas i	databases\CAFAS N	lorway V11 So	cio.mdb	Date: 28	May 2008   1	Database Ver:	sion: 4				

All of the options may be changed by simple selection of the required region, environment (Roadside/Retail/Travel/Transport), target group, dates, N+ level.

The columns of the displayed data may be sorted in either descending or ascending order by simply clicking on the required heading row, at which point t he sort will take place and a > or < appear in the sorted column heading. (The lowest Freq first shown in example below)

ECover and Free File Edit Oversi	e <mark>quency Analysis Syst</mark> i kt. Analyse Kampanje p	em olanlegger Window	Help Versi	on 1.16.74							
	TDOOL		IIVI		T						
🖥 Post Camp	aign Comparison										- 🗆 🗙
OUTD	DOR ( IMP	ACT	Cover ar	nd Freq	uency C	omparis	ons				
Environment	Kombinert dekning	▼ Måned	Mai		•			V	Use Campaig	n File Dates	
Dekning i	Alle områder	▼ Målgru	ppe All A	dults 15+				• D.	ager 14 Go	N+ 1	-
Dekning i			Van	Pop	> VA Spitt	VA				_	
område	Serie	Målgruppe Pop	Dekning %	Dekning	Frekvens	Kontakter	GRP	Dager	CPT	Flater	
Alle områder	Storby Roadside A.txt	4,229,471	36.5	1,544,624	6.2	9,544,129	226	14.		271	
Alle områder	Adshel 1600 network.txt	4,229,471	39.0	1,650,232	8.8	14,571,346	345	14.		442	
Alle områder	Adshel 1300 network.txt	4,229,471	27.1	1,146,434	10.2	11,651,056	275	14.	-	332	
Alle områder	Test mixture of CC and	4,229,471	40.6	1,715,592	10.7	18,389,198	435	14.		523	
											ose
E:\E\Travel Surver	u\Norwau\Deliveru\Cafas i	databases\CAFAS_N	orway V11 Soc	io mdb	Date: 28	May 2008	Database Vers	ion: 4			

### **Cost Per Thousand**

Both the package analysis and campaign planner sections of the system have a built in cost per thousand facility. This is explained below for the campaign analysis but operates in a similar way for the campaign planner section.

Tover and Frequency Analysis System - [CAFAS]												_ 🗆 🗵								
,町 File Edit	Chart Ov	/ersikt	Analyse	Kampan	ije planl	egger	Options	Wind	H wob	elp V	ersion 1.	16.74								_ & ×
OUTDO	OUTDOOR ( IMPACT Serie analyse																			
Dager	Dager 7 Go Målgruppe All Adults 15+ 💌 Måned Mai 💌 N+ 1 💌																			
	Use Campaign File Dates																			
Files	Flater	i serien	Vir	nkel	Pass	eringer	0	TS	VAC		Belyst	1	Ubelyst	Туре	e områd	le for traf	ikk	Туре с	område for gå	ende
Dekr	ing roadsid	e	Deki	ning reise	r	Del	kning kjø	øpspun	ikt			Tota	al kombine	rt dekning	9	CP	T(C)	FI	ater uten ver	dier
Status		-	Oslo Reg	ion		Ro	adside			Reise	er		Hande	el		Transp	ort		Totalt	
Blank	ut verdier		Bergen R Trondheii	egion m Region																
			Stavange	r Region																
		ŀ	Rest	<u>+</u>	_			_				-								
			Totalt															20000	00	
		i i	USIO MEC	-																
			_	_	_	_	_		_		_		_	_	_	_	_	_	_	
	Package(s)/ Network(s) Adshel 1600 network.txt																			
	JLU nodaside A.ixi																			
E:\E\Travel Sur	:\E\Travel Survey\Norway\Delivery\Cafas databases\CAFAS Norway V11 Socio.mdb Date: 28 May 2008   Database Version: 4																			

In the planner there is a cost per thousand tab as seen above, this tab allows the cost of the campaign to be entered by region and environment if this is known, or as a total per environment if only this is known. If you enter a figure in the Total/Total box, this value is distributed equally amongst all panels regardless of Region/Media type unless a specific distribution method has been chosen.

#### status CPT

The status indicator is there to show whether CAFAS can accept the figures on the screen.

The rules are as follows.

- If there is a "Total Total" there can be no other figures.
- If there are any figures in the "body", that is the Region rows for any Model then there can not be any figures in the Total row or Total column.
- If there is any figure in the Total column there must be no figures in the Total row.

In the example above we have chosen a CC + JCD billboard network distributed across Norway. We estimate for planning purposes that this will cost 2,000,000 but we don't know how this would be distributed across the regions so we have entered the value in the total line. If we now select the roadside tab again and press analyse the system will calculate the cost per thousand contacts per region as shown below.

Cover and Frequency Analysis System - [CAFAS]													
file Edit Cl	hart Oversikl	t Analys	e Kampanje	e planlegger	Options V	/indow Help	Version 1.	16.74					
UTDO	OR @	IMP	ACT		S	ierie a	nalyse	è					
Dager 7 Go Målgruppe All Adults 15+ 💌 Måned Mai 💌 N+ 1 💌													
Use Campaign File Dates													
Files	Flater i serie	n Í V	/inkel	Passeringe	r OTS	VAC	Belvst	Ube	lust	Type område for traf	ikk Ì	Type område for gåen	de Ì
Deknin	g roadside	De	kning reiser	ī	Jekning kjøpsp	ounkt	' í	Total ko	ombinert de	ekning CP	т(С) '	Flater uten verdier	i
						· · ·							]
		Flater	Målgruppe Pop	VAC Dekning	Pop. Dekning	VA Kontakter	VA Snitt Frekvens	GRP	CPT(C)				
Oslo Regi	on	209	741,404	83.4	618,257	4,710,484	7.6	635	169.67	7			
Bergen Re	egion	30	251,409	37.1	93,289	197,708	2.1	79	580.26				
Trondheim	n Region	58	160,998	80.8	130,040	1,089,329	8.4	677	203.61				
Stavange	r Region	29	205,455	31.9	65,477	383,430	5.9	187	289.23	3			
Cities 50K	+	156	386,190	71.7	277,059	2,469,446	8.9	639	241.58				
Rest		41	2,029,439	9.3	189,550	344,201	1.8	17	455.51				
Totalt		523	3,774,895	36.4	1,373,673	9,194,599	6.7	244	217.52				
Oslo Met		185	454,576	89.2	405,700	4,018,070	9.9	884					
Analysen inneholder kun fullstendige klassifiserte reklameflater Feilmargin +/- 2 %													
Package(s)/ Network(s) Adshel 1600 network.txt JCD Roadside A.txt													
Fravel Surve	u/Norwau/Del	iverv\Cafa	s databases'	CAFAS Nor	way V11 Socie	o.mdb	Date: 28	May 2008	Databa	ase Version: 4			

CAFAS has distributed the 2,000,000 proportionally by the number of panels per region. The cost per thousand contacts is showing the cost in any currency per thousand visibility-adjusted contacts CPT (total VAC Contacts) in that region.

### NOTE

CAFAS also offers the option of calculating cost per thousand people covered this can be selected using the options menu and then pressing the analyse button. The column heading and calculation will change to CPT (P). This will be more expensive than CPT (C) as the frequency element is removed form the cost basis

Toolbar >Options > Select CPT (C) or CPT (P)

CAFAS has the ability to reduce the number of columns to make the screen more readable, see the :

Toolbar > Options > Reduce columns, this removes the average Flow/OTS/VAC information columns.

#### Cost feeds included in the data feed in report

It is possible to switch between "Cost from Network File" and "Costs from CPT Screen" via the "Options" menu on the "Campaign or Package Analysis" screen. Buses CPT will always automatically be calculated from the CPT screen.

To input the cost of a panel on a line by line basis for inclusion in the CPT calculations., the file format should be as below. Please note this is different from the format used for site lists.

Company Code	(3 Characters (JCD/CLC)
District Code	(4 Numerals (Current codes, 0180 etc,)
Location Code	(4 Characters/Numerals (zero fill, but allows sub-district
location)	
Site Number	(X Characters)
Panel Number	(X Characters)
Panel Size	(X characters)
Address	(50 characters)
In charge date	(YYMMDD)
Out Charge date	(YYMMDD)
Cost	(00000.00)

#### **Campaign Planner**

The campaign planner is designed to estimate coverage for X number of panels, using the Flow/OTS/VAC averages for the selected size, region, month and Social group. Effectively planning using an "average" panel of any selected size. This planning function is available for all panel environments, and in addition, if mixtures of environments are selected, a combination cover is calculated.

You can hide the non-dynamic average per week columns via "reduced columns" on the options menu. On Entry the program has no chosen criteria. To calculate an estimate, the following process must be undertaken. Defaults are 100 panels and 7 days.

- 1. Select a size from the pull-down box. (the system will then calculate the required averages for that size.
- 2. Enter the number of panels required, either in the Panels box, or click in the grid and enter the number of panels required in each Region.
- 3. Select Distribute by **Adult population** or by **Share of Voice** (see later in this section for explanation)
- 4. Press the analyse button.

The other options, time, media owner, month and social group can be selected and changed at any time. Period default is 7 days, simply changed by entering a new period in the Days box.

변 <mark>Cover and Frequency Analysis System - [Kampanje planlegger - Roadside] [미 또</mark> 변 File Edit Oversikt Analyse Kampanje planlegger Options Window Help Version 1.16.74 [중 ]														
OUTDOOR () IMPAC	Kam	par	nje plar	nlegg	jer -	Road	side							
Roadside Reiser Handel Total kombin	Roadside Reiser   Handel     Total kombinett dekning   CPT(P)													
Resultat Størrelse Mix														
Flater         500         Flater         Snitt         Snitt <th< td=""></th<>														
Eurosize         Oslo Region         163         89.278         49.724         22.767         741,404         67.6         501,473         3,710,373         7.4         501           Bergen Region         5         62,291         31,146         21,746         251,409         12.4         31,131         108,728         3.5         43														
Bergen Region         5         62.291         31,146         21,746         251,409         12.4         31,131         108,728         3.5         43           Selskap         Trondheim Region         59         108,007         54,786         19,137         160,998         80.0         128,732         1,129,069         8.8         701														
Selskap         Univers         Trondheim Region         59         108.007         54,786         19,137         160.938         80.0         128,732         1,129,069         8.8         701           Stavanger Region         124         77,298         39,846         19,557         205,455         81.4         167,272         2,425,065         14.5         1,180														
Stavanger Region         124         77,298         39,846         19,557         205,455         81.4         167,272         2,425,065         14.5         1,180           Analysere         Cities 50K +         109         66,221         36,154         18,063         386,190         61.8         238,821         1,968,896         8.2         510														
Chanada Min	Analysere Uttes buck + 109 66,221 36,154 18,063 386,130 61.8 238,821 1,366,836 8.2 510 Rest 40 61,475 31,117 10,304 2,029,439 20.3 412,180 412,180 1.0 20													
Størreise Mix	Totalt	500	80,997	43,239	19,510	3,774,895	39.2	1,479,608	9,754,916	6.6	258			
Elate fordeling etter befolkning (15 + ÅF	Oslo Met	119	97,280	55,068	24,565	454,576	75.3	342,412	2,923,292	8.5	643			
I Flate fordeling etter Share of voice														
Dager 7 Måned N	lai 🗾		N+  1	•							( C	lose		
Målgruppe 🛛	II Adults 15+			•										
Feilmargin +/- 2 %				_										
Rødt indikerer at antall reklameflater er større en	n tilgengelige flater													
E:\E\Travel Survey\Norway\Delivery\Cafas data	bases\CAFAS Norway V11 So	ocio.md	ь	Date	e: 28 May	2008   D	atabase Ver	sion: 4				11.		

### Campaign planner – Further Notes

This function is designed as a method of estimating the coverage you should achieve by using different mixtures of size, time, environment or area. It is <u>NOT</u> a method of measuring the actual coverage a campaign will achieve. This actual measurement is done in the campaign analysis screen.

The campaign planner uses average area and poster size Flows, OTS and VAC. These columns can be shown or hidden in CAFAS via the options menu (see below). It may not be possible for you to buy to the average, you may get higher or lower figures in an actual network.

The campaign planner uses distribution averages based on typical networks that were available for analysis. Any actual campaign may have very different distribution patterns from these averages.

The campaign planner is <u>NOT</u> an **optimiser;** it simply uses average posters.

Cover and Frequency Analysis Sy	stem - [Kampanje planlegge	r - Road	lside]	1 16 74								
DUTDOOR (IMPACT         Kampanje planlegger - Roadside         Roadside       Reiser       Handel     Total kombinert dekning   CPT(P)												
	Resultat Størrelse Mix											
Flater 500		Flater	Målgruppe Pop	VAC	Pop. Dekning	VA Kontakter	VA Snitt Frekvens	GRP	CPT(P)			
Eurosize 💌	Oslo Region	98	741,404	60.1	445,569	2,231,141	5.0	301				
	Bergen Region	33	251,409	58.9	148,104	717,603	4.8	285				
Selskap Univers 💌	I rondheim Hegion	21	160,998 205.455	63.3	101,850	401,872	3.9	250				
Analusera	Cities 50K +	51	386 190	46.0	177 827	921,226	4.0	239				
Analyseie	Rest	269	2.029.439	51.6	1.047.264	2.771.910	2.6	137				
Størrelse Mix	Totalt	499	3,774,895	53.8	2,030,774	7,571,790	3.7	201				
	Oslo Met	60	454,576	65.6	298,119	1,473,929	4.9	324				
Flate fordeling etter befolkning [1]	D + Ał											
Flate fordeling etter Share of void	e											
Dager 7 Måned	Mai		N+	1								
Målgruppe	All Adults 15+			-	=							
Failmannin (J. 2.%	Particular of											
Bødt indikerer at antall reklameflater er st	arre enn tilgengelige flater											
	and an angle georgeo march											
F:\F\Travel Survey\Norway\Delivery\Caf	as databases\CAEAS Norway V11	Socio m	нh		) ate: 28 May	2008 L Datah	ase Version	4				

<u>Campaign planner – Roadside</u>

In the example above, we have selected the size required as a Eurosize, and we have used the default period -7 days, the default Month - May, default is always the current month, and the default number of panels, 500.

As a starting point on the spread of the panels regionally we have chosen to distribute the panels proportionally to the Adult population. For example, if a particular region had 20% of the total country population, the system will allocate 20% of the posters to that region.

Note: this may <u>NOT</u> be the optimum spread of panels, it is just a planning starting point. The alternate starting point may to distribute the panels by <u>Share of voice</u>, the second tick box.

	関Cover and Frequency Analysis System - [Kampanje planlegger - Roadside] [日 2 町 File Edit Oversikt Analyse Kampanje planlegger Options Window Help Version 1.16.74 [6] 2														
	J File Luit	Oversiki	Analyse Kampanje	planlegger Options wind	JOW He	p version	1.10.74		<u> </u>						
	OUTD	DOR	🔁 IMPAC	Kan	npar	ije pl	anleg	jger - I	Roadsi	de					
ľ			<u> </u>												
			~ ~												
	Roadside   F	Reiser   H	andel   Total kombi	nert dekning CPT(P)											
	Resultat   Størrelse Mix														
	Flater 500 Flater Målgruppe VAC Pop. VA VA Snitt GRP CPT(P)														
	Flater Poo Dekring Dekring Kontakter Frekvens GRP (P1(P) Dslo Region 163 741,404 67.6 501,473 3,710,979 7.4 501														
	Format         Eurosize         Oslo Region         163         741,404         67.6         501,473         3,710,979         7.4         501           Bergen Region         5         251,409         12.4         31,131         108,728         3.5         43														
	Selskap	Unis	/ers	Trondheim Region	59	160,998	80.0	128,732	1,129,069	8.8	701				
		Jour		Stavanger Region	124	205,455	81.4	167,272	2,425,065	14.5	1,180				
	Analy	ysere	1	Cities 50K +	109	386,190	61.8	238,821	1,968,896	8.2	510				
	Starrolco	Mis		Rest	40	2,029,439	20.3	412,180	412,180	1.0	20				
	S (BITCISC )	-110	L	Totalt	500	3,774,895	39.2	1,479,608	9,754,916	6.6	258				
	Elate fi	ordelina el	tter befolkning (15 + Åf	Usio Met	119	454,576	75.3	342,412	2,923,292	8.5	643				
	I✓ Flate h	ordeling el	tter Share of voice												
				·											
1	ager [	7	Måned	Mai 💌		N+	1	•						Close	
			Målgruppe	All Adults 15+			•	•							
F	eilmargin +/- :	2 %													
F	Rødt indikerer	at antall re	eklameflater er større e	nn tilgengelige flater											
E:	\E\Travel Su	rvey\Norw	vay\Delivery\Cafas dat	abases\CAFAS Norway V11	Socio.mo	Ь	D	late: 28 May i	2008   Datab	ase Version	: 4				1.

In the example above the starting point on the spread of the panels is share of voice Panels are distributed in relationship to where they exist, so if 32% of Eurosize are in Oslo, the system will place 32% of the campaign size in Oslo, thus equating to an equally share of voice in each region for the chosen size.

The effect of distributing panels by either method can be seen in the previous examples.

Once we have a basic configuration, we can then adjust each region to any number of posters we require, so in the case above we could click in the Oslo region panels box and change the number of panels from 163 to 150 shown below.

ļ.	UCover and Frequency Analysis System - [Kampanje planlegger - Roadside]													
	🖑 File Edit 🤇	Oversikt Analyse Kampanj	ie planlegger Options Win	dow He	lp Version	1.16.74								_ 8 ×
(	OUTDOOR ( IMPACT Kampanje planlegger - Roadside         Roadside       Reiser   Handel   Total kombinett dekning   CPT(P)													
	Resultat Størrelse Mix													
	Flater         497         Flater         Vålgruppe Pop         VAC         Pop.         VA         VA Snitt         GRP         CPT(P)           0sto Region         157         741.404         66.5         493.128         3.415.011         6.9         461													
L	Format Eurosize  Oslo Region Four Deckming Deckning Control Deckning Contr													
L	Californ		Bergen Hegion	5	251,409	12.4	31,131	1 1 29 069	3.5	43				
L	beiskap	Univers 💌	Stavanger Begion	124	205 455	81.4	167 272	2 425 065	14.5	1 180				
L	Analus	ere	Cities 50K +	109	386,190	61.8	238,821	1,968,896	8.2	510				
L			Rest	40	2,029,439	20.3	412,180	412,180	1.0	20				
L	Størrelse Mi	×	Totalt	487	3,774,895	39.0	1,471,263	9,458,948	6.4	251				
L		define and befollowing (CE) - Å	Oslo Met	119	454,576	75.3	342,412	2,923,292	8.5	643				
L	Flate for	deling etter berokning (10 + A	*											
	Flate for	deling etter Share of voice	<u> </u>											
	Dager         7         Måned Målgruppe         Mai         N+         1         Close           Feilmarcin +/- 2 %         All Adults 15+         V													
	remangin +/- 2 % Rødt indikerer at antall reklameflater er større enn tilgengelige flater													
E	:\E\Travel Surv	ey\Norway\Delivery\Cafas da	atabases\CAFAS Norway V11	a Socio.r	ndb		Date: 28 Maj	2008   Data	abase Versio	n:4				1.

The system will then calculate the relevant average panel scores and apply these in the coverage models, so calculating the estimated VAC cover percentage and VAC Average Frequency. It should be noted that the system will not report in areas where the campaign sheetage is very small as the estimate would not be statistically robust.

In brief, the remaining columns in the grid display the following numbers: (see Poster and Cafas terminology for more detailed descriptions)

Panels	The selected or entered number of panels by model region.
Av Flow	Shows the average traffic Flow in adults 12+, for the indicated region and selected size per week. This number can be checked by opening the digest > Flow by media owner screen. The average Flow per week will match that displayed in the campaign planner.
Av OTS	Shows the average directionally adjusted <b>Error! Reference source not found.</b> in adults per week, for the indicated region and size.
Av VAC	Shows the average number of visibility adjusted contacts VAC, in adults per week, for the indicated region and size.
VAC cover%	Shows the estimated VAC coverage which is the proportion of the selected audience by region that will have at least one contact with the campaign of X panels over the time period selected, in the example above this is 7 days.
POP Cover	Shows the Population covered as the number of the selected social group in that region, that will have at least one contact with the campaign. (VAC cover% X Total region social group population = POP cover)
VA Contacts	Shows the total number of Visibility adjusted contacts (VAC) that the selected social group will have with the campaign.
VA Av Freq	Shows the Visibility adjusted average frequency which is the average number of visibility adjusted contacts (VAC) that the covered population will have with the campaign over the selected number of days.
GRP	Poster equivalent "ratings" for the campaign. See section in cafas terminology on GRP
СРТ	Poster cost per thousand, either contacts or covered. See section on Cost Per Thousand

You can hide the non-dynamic columns average flow per week/average OTS per week /average VAC per week via "reduced columns" on the options menu.

#### Campaign planner – Mixing Sizes

The campaign planner allows the mixing of sizes within a region. There is a secondary tab next to the "Results" tab, which can be selected to turn on the feature.

On basic usage, a single size is selected as shown below:

변 <b>Cover and Frequency Analysis System - [Kampanje planlegger - Roadside]</b>												
OUTDOOR     Impact     Kampanje planlegger - Roadside       Roadside     Reiser     Handel     Total kombineti dekning     CPT(P)												
Flater         551         Eurosize         Boards         City Backlite         Backlite         Collumns         Pillars												
Format Eurosize Selskap Univers Analysere Størrelse Mix Flate fordeling etter befolkning (15 + Ål Flate fordeling etter Share of voice	Oslo Region Bergen Region Trondheim Region Stavanger Region Cities 50K + Rest Totalt Oslo Met	150 33 21 27 51 269 551 60										
Dager     7     Måned     Mai     N+     1												

In the example below we have selected the "Size Mix" tab and it can be seen that the original sizes and distribution is maintained as the start point. From here we can enter the number of panels of any additional sizes. If they are to be distributed in the same manner as the initial panels the total quantity can be entered in the relevant total line. Below we have entered 50 additional CityBacklite in Oslo to our original 150 Eurosize as in this example the additional panels are only required in Oslo.

関 <b>Cover and Frequency Analysis System - [Kampanje planlegger - Roadside]</b> 可 File Edit Oversikt Analyse Kampanje planlegger Options Window Help Version 1.16.74												
IMPACT         Kampanje planlegger - Roadside         Roadside       Reiser       Handel       Total kombinet dekning       CPT(P)         Resultat       Starrelse Mix												
Flater 551		Eurosize	Boards	City Backlite	Backlite	Collumns	Pillars	1				
Format     Eurosize       Selskap     Univers       Analysere       Størrelse Mix       Flate fordeling etter befolkning (15 + ÅF       Flate fordeling etter Share of voice	Oslo Region Bergen Region Trondheim Region Stavanger Region Cities 50K + Rest Totalt Oslo Met	150 33 21 27 51 269 551 60		50								
Dager     7     Måned Målgruppe     Mai     N+     1       Feilmargin +/- 2 % Rødt indikerer at antall reklametlater er større enn tilgengelige flater     Di / 0 0 M     0 00 M												

We can now return to the roadside "Results" tab:

On pressing the analysis button, the 50 additional CityBacklite are added to the campaign mix. The weighted total OTS

Cover and Frequency Analysis System - [Kampanje planlegger - Roadside]     Image: Cover and Frequency Analysis System - [Kampanje planlegger - Roadside]       If le Edit Oversikt Analyse Kampanje planlegger Options Window Help Version 1.16.74     Image: Coversit Analyse Kampanje planlegger Options Window Help Version 1.16.74														
Image: Control oversite Analysis Kampanje planlegger (pools window negroversite 11:0:74         Image: Control oversite Analysis Kampanje planlegger - Roadside         Roadside Reiser Handel   Total kombinert dekning [CPT(P)]														
Resultat   Storrelse Mix														
Flater 551 Flater Målgruppe VAC Pop. VA VA Snitt GRP CPT(P)														
Format         Eurosize         Oslo Region         20         71.4         529.46         65.192.50         9.8         700           Bergen Region         33         251.409         558.9         148.104         717.603         4.8         225           Caldo and														
Selskap         Univers         Image: Construction of the selection of the selectio														
Analysere Størrelse Mix	Analysere         Dies 50K +         51 396,190         46.0         177,827         921,226         5.2         2.39           Storradea Mix         Fest         269 2,029,439         51.6         1,047,264         2,771,910         2.6         137													
Flate fordeling etter befolkning (15 + ÅF	Oslo Met	110 454,576	75.8	2,114,674 344,353	3,251,438	5.U 9.4	279 715							
Flate fordeling etter Share of voice														
Dager     7     Måned     Mai     N+     1     Y       Målgruppe     All Adults 15+     Y       Feilmargin +/- 2 %       Rødt indikerer at antall reklameflater er større enn tilgengelige flater														

Where a particular size mix is not possible, either through ownership or presence of panels of that size in a particular region, then the size mix cell concerned will be coloured red. This warning in colour will also be transferred by default to the "Results" grid.

The same method of mixing panels can be used in all environments and these panel formats in turn can be combined via the combined cover tab.

#### Distribution in the campaign planner

In the Campaign Planner, when you enter a number of panels in the total box this is distributed evenly amongst the areas. This works in a similar fashion to other "total" figures when entered on the "spreadsheet" on screen.

Distribute the total figure on the Size Mix tab according to your choice of share of voice or by adult population. Enter the total figure and select the option required, or select the option required and enter the total figure. Any number entered apart from on the total line will turn off the distribute feature as you would have changed the numbers on the screen and they would not match. You can turn this feature on and off as required.

#### Campaign planner - Travel

Using the same spreadsheet grid as shown above in "Roadside", if we now select the "Travel" tab, we can plan a mixture of panels by region. In this instance we have selected 200 panels in the Travel environment.

Panels are classified into environments depending on their main criteria. So that panels in Railway stations, or Metro stations or in other environments where the main object of the passing audience is to "travel" are included in this category.

Each category or environment is analysed and summarised by size and coverage region (Oslo region etc). See earlier references to the Digest screens pp Digest or Summary of stock.

In many ways it is similar in coverage and frequency terms to "roadside", in the travel environment the passing audience is regular or on a daily basis, but for a more restricted audience who travel that route. So it is a high frequency medium.

🗒 Cover and Frequency Analy	sis System - [Kampanje planlegge	r - Reiser]								_ 🗆 ×		
🖳 File Edit Oversikt Analyse	Kampanje planlegger Options Win	dow Help Version	n 1.16.74							_ 8 ×		
OUTDOOR (© IMPACT         Kampanje planlegger - Reiser           Roadside         Reiser         Handel   Total kombinett dekning   CPT(P)												
	Resultat Størrelse Mix									1		
Flater 230		Flater Målgruppe Pop	VAC Dekning	Pop. Dekning	VA Kontakter	VA Snitt Frekvens	GRP	CPT(P)				
Format Eurosize	Oslo Region	172 741,404	52.5	389,393	5,469,865	14.0	738					
Californ	Bergen Hegion	8 251,409 c 100,999	6.7	17,821	17,821	1.0	- / 7					
Univers	Stavanger Begion	4 205 455	1.7	3 509	9.651	28	5					
Analusere	Cities 50K +	10 386,190	5.2	20,142	126,075	6.3	33					
	Rest	30 2,029,439	0.0	0	0	0.0	0					
Størrelse Mix	Totalt	230 3,774,895	11.7	441,708	5,634,255	12.8	149					
Flate fordeling etter befolk:	ing (15 + ÅE	162 454,576	60.8	276,404	5,369,027	19.4	1,181					
Flate fordeling etter Share	of voice											
Dager 7 Måned Målgru Feilmargin +/- 2 % Rødt indikerer at antall reklametlat	Mai  All Adults 15+ ar er større enn tilgengelige flater m/Cafas databases/CAFAS Norwau V11	N+	1	• •	2008 L Datab	iase Version	· 4			Close		

In the above example we have chosen 200 Eurosize, distributed by Share of Voice initially, then we have entered 30 panels in the "Rest of Country" box. The system will calculate the required factors to predict a likely coverage and frequency level, given similar "universe average" posters are bought in the real campaign.

It should be noted that in the "Rest of Country" row 6 of the grid, the panel numbers allocated cannot be bought as they do not exist in this quantity, and are hence shown in red.

### Campaign planner - Retail

Using the same spreadsheet grid as shown above in "Roadside" and "Travel", if we now select the "Retail" tab, we can plan a mixture of panels. In this instance we have selected the default 200 panels in the Retail environment.

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Boadside	OUTDOOR ( Impact       Kampanje planlegger - Handel         Roadside   Reiser       Handel     Total kombinett dekning   CPT(P)													
	Resultat Starrelse Mix													
Flater		200		Flater	Målgruppe Pop	VAC Dekning	Pop. Dekning	VA Kontakter	VA Snitt Frekvens	GRP	CPT(P)			
Formal	. [	Eurosize 💌	Oslo Region	39	741,404	30.4	225,155	726,893	3.2	98				
			Bergen Region	13	251,409	37.3	93,669	217,424	2.3	86				
Selska	ip [	Jnivers 💌	Trondheim Region	9	160,998	31.1	50,088	101,982	2.0	63				
			Stavanger Hegion	11	205,455	37.1	76,290	291,790	3.8	142				
<u> </u>	nalysere		Best	109	2 029 429	23.0	F29 222	1 042 532	3.0	0/ 51				
Større	lse Mix		Totalt	200	3 774 895	28.8	1 087 304	2 716 718	2.0	72				
			Oslo Met	24	454.576	30.7	139.364	299.307	2.1	66				
🔽 🔽 Fla	ate fordelin	g etter befolkning (15	+ ÅR											
Fla	ate fordelin	g etter Share of voice	, <u> </u>											
Dager	7	Måned	Mai		N+	1	-						Close	
		Målgruppe	All Adults 15+				-						L	
Feilmargin +/- 2 % Rødt indikerer at antal reklameflater er større enn tilgengelige flater														
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It should be noted that the "Retail" environment has a different coverage and frequency profile to the travelling environments of "Roadside or Travel".

For example, achieving 11 million contacts per week in Roadside, a high reach can be achieved because the "environment" is open to everyone, people travel the same routes day after day and most people leave home at least once per week. In retail the same level of VAC contacts will translate into lower coverage but higher frequency, as there is a limited audience who visit these retail locations

Campaign planner - Transport

Available in Phase II

### Campaign planner - Combined

We can now mix 551 panels on the "Roadside" tab and our 200 Retail and 230 Travel and look at the projected combined cover.

U Cover and Frequency Analysis System - [Kampanje planlegger - Kombinert dekning]													
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Flater 1031 Elster Målgruppe VAC Pop. VA VA Snitt opp oprøm													
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Format Enter Size  Osto Region 411 741.404 86.6 642.005 11.389.279 17.7 1.536													
Berge	en Region 54	251,409	75.7	190,293	952,848	5.0	379						
Selskap Univers Trond	heim Region 36	160,998	73.6	118,441	514,697	4.3	320						
Stava	anger Hegion 42	205,455	69.0	141,707	829,479	5.9	404						
Analysere	SUN + 81	386,190	62.4	240,832	1,383,398	5.7	308						
Tabl	407	2,023,433	61.2	1,241,333	3,814,441	3.1	F00						
	. 1,031	3,774,033 454,570	00.2	410 470	0 010 772	21.2	1 962						
Flate fordeling etter befolkning (15 + ÅR	viet 230	434,370	32.1	410,470	0,313,773	21.3	1,302						
Elate fordeling etter Share of voice		_	_	_	_	_	_	_	_		_		
Dager 7 Måned Mai	•	N+	1 💌	1						Close			
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It should be noted that the coverage and frequency produced in each environment, Roadside/Transport/Retail are not simply additive as the audience will have a probability of seeing either or both formats.

For example, if we had a mixed roadside and retail campaign, the system will display the coverage solely for Retail on the Retail tab and solely for the roadside element on the Roadside tab. The people who are covered in the retail environment must also travel down the roads to get to the retail centres and so will also be covered by the roadside element. The combined coverage is shown on the combined tab.

The system on the "combined cover" tab calculates the coverage and frequency overlap between the various selected coverage environments Roadside/Travel/Retail/Transport dependent on the weight of posters in each environment and displays the total or combined non-overlap coverage and frequency.

#### Cost Per Thousand

See section in Cost Per Thousand campaign analysis.

#### <u>Campaign planner – Saving the Plan</u>

The campaign planner allows the saving of the plan details so that it can be referenced at a later date.

Once the plan has been finalised, use the option File >Save

ЩC	over and F	requency Analysis Sy	rstem - [Kampanje pl	nlegger - Koml	oinert del	(ning]							_ 🗆 🗙
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-	Close	,		Flater	Målgruppe Pop	VAC Dekning	Pop. Dekning	VA Kontakter	VA Snitt Frekvens	GRP	CPT(P)		
	Farmat	Enter Size	Oslo Region	335	741,404	82.9	614,260	9,180,844	14.9	1,238			
	rumat		Bergen Region	13	251,409	18.6	46,696	126,548	2.7	50			
	Selskap	Univers 💌	Trondheim Regio	n 65	160,998	81.4	131,078	1,139,912	8.7	708			
			Stavanger Regio	n 128	205,455	81.4	167,272	2,434,716	14.6	1,185			
	Analys	sere	Cities 50K +	119	386,190	63.3	244,453	2,094,970	8.6	542			
			Hest	40	2,029,439	20.3	412,180	412,180	1.0	20			
			Dala Mat	201	3,774,833 AEA E7C	42.8	1,610,333	0.000.010	3.5	408			
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You will then be prompted for the location to save the plan. You can create a directory and view your machine file structure.

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The plan is save as a text file in the directory chosen.

Any saved plan can be opened again and re-loaded into the planner by using the File>Open option when a blank Campaign Planner window has been selected.

A list of the most recently accessed plans is also displayed.

🗮 Cover and Frequency Analysis System - [Kampanje planlegger - Roadside]					<u>_     ×</u>			
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End

### **Other Media Research**

All of the main advertising media, TV, Radio and Press have research that offers the clients an estimate of the coverage and frequency of a campaign. This estimate is a major factor in allowing a client to decide on the "value" of that particular medium for his or her advertising. It is not the only factor, price, availability, prominence and share of voice also come into the equation, but these are more subjective measures.

Most of this other media research has been in place for many years and so outdoor as a new entrant must be proven to be better and more up-to-date methodologically so that it can take its place along side the other media research.

Detailed below is a brief description of the typical research methodologies of other media. Many of the terms used are directly comparable to those in the Cafas system, it also being noted that the term "reach and frequency" is the same as "coverage and frequency"

#### TV reach and frequency

A TV campaign is a series of "spots" or advertisement breaks. A typical campaign may be 50 to 100 "spots" run over a period of several weeks. The chosen spots will not all be in the peak hours of weekday evenings. The "spots" will be distributed across the schedule and may even be across several channels. In this way hard to reach people, such as night-workers, or students may also be covered by the campaign.

To measure the coverage and frequency of a campaign the TV stations need to know who is watching each channel at any one time. Obviously they cannot measure everyone, so they choose a representative sample of the populations, say 1000 people, and ask them for their viewing to be electronically measured.

They provided small handsets to the chosen sample, like a TV remote control, and each person in the family will have their own button on it. The handset is then linked to the television so that the current playing channel can be detected. Then as people come and go from the TV room they push their button indicating they are in the room or have exited and gone elsewhere. The data being sent back to a central computer by phone every night.

There are some obvious flaws in this research methodology and it is worth listing them, as they can be relevant in arguments on the pro's and con's of outdoor research.

- 1. The sample sizes that can be measured are relatively small, 1000 people or so, because of the expense of the continual monitoring required.
- 2. The small sample sizes mean that programs aired outside of the "peak viewing" times may only have 5 or 10 people watching from the sample. This introduces very large margins of error, if one person goes to bed the measured audience can drop by 20%.
- 3. The people in the room may not all be watching the television, they may be reading or talking or taking part in some other activity that distracts their attention.

Effectively this means they are not measuring opportunity to see (OTS) but are only measuring "presence in the room".

4. The reach of a campaign can only be measured after it has run as TV viewing is reliant on "content" and it is much harder to predict what channel people will be watching at 7.00pm a week or a month in the future.

#### Radio reach and frequency

In Radio the most common methodology is a weekly 15-minute diary. A representative sample of a 1000 or more people are chosen and issued with either electronic or paper diaries. They then have to complete the diary at the end of each day to say which radio stations they were listening to during each 15-minute period.

Like TV research there are some obvious flaws in this research methodology and it is worth listing them for the same reasons.

- 1. The overall sample size makes it difficult to measure listening on local and minority radio stations, where <5% are listening.
- 2. The diary task is heavy in time for respondents, and it is expected they will automatically fill in the stations that are easily remembered. So light-listening stations will be under reported and heavy-listening stations over reported.
- 3. The total listening time will always be over reported as the smallest block is 15minutes even if the listener only has the radio turned on for 5 minutes to catch the news or weather forecast.
- 4. New technology is being tested, recording watches, worn by respondents, pick up the audible stations. These are then matched to the "schedule". This should be a more reliable methodology, if the respondents wear the watches and other background noise can be filtered out.

#### Press or Magazine reach and frequency

In general the daily or weekly sales figures for each "title" are used as a guide on the reach and frequency of a campaign. Some "titles" may claim extra secondary readership because perhaps the whole family will read a TV listing magazine or Weekend newspaper.

Because the ownership of the press is diverse, and sales figures are commercially sensitive, often an industry research body or independent market research company is employed to "audit" the returned figures.

Flaws in Press research methodology.

- 1. Readership is based on the assumption that each person who buys the paper or magazine "reads" every page, so an OTS based on this is "true" only for the front page.
- 2. The OTS of inside pages cannot be measured and can vary a great deal depending on "content" of opposing pages and size of title.
- 3. Proximity to other advertisements and "inappropriate content" can affect the message.

4. Readership of supplements (like free listing magazines on a Sunday) is based on the sales figures for the main "title".

Good points in Press research

- 1. Each title has a very "tight" social demographic readership. For example, 15 19 year old Women have their own magazines, as do other social groups.
- 2. Local Press can be used for small-scale campaigns for local products.

#### Outdoor reach and frequency

We can now compare the reach and frequency generated in the cafas system to those of the other mediums.

#### For:

Outdoor is a "broadcast" medium, more like TV and radio than press. This means that the whole population can see the message, so the potential for coverage is much higher.

Against:

Outdoor has limited variation in social demographics, it is impossible to target "professional men" without also picking up all other social demographics to the same extent.

For:

Outdoor is a high frequency medium. Because of the repetitive nature of most journeys, to work or school every day, an outdoor campaign will provide a contact almost every day. TV, Radio and Press do not have such high frequencies.

#### Against:

The other medium can deliver more detail, as they may be seen only once but the contact time is longer.

#### For:

The message in Outdoor advertisements are not normally influenced by close proximity "content", like TV, Radio and Press.

#### Against:

The message in Outdoor must be very simple, Product, Strapline and Brand, there is no room and it is not possible to read detailed offers and complicated messages.

#### For:

Outdoor coverage and frequency is very predictable into the future, because journeys and general mobility of a population are very reliable. So you can plan a campaign in 6 months time and be very confident that the estimated coverage and frequency will be delivered.

#### Against:

It has relatively long lead times, all the posters must be printed and pasted up, I can't use it to advertise a product next week.

For:

Because outdoor is a "broadcast" medium, it is easier to reach some target groups, for instance if selling a new womens magazine, that covered all age groups, then using outdoor is a relatively easy method. The other media alternatives are much more complicated.

Finally, additional insights into the consumption of these and other media are contained in an annual study called **Target Group Index** which also measures the consumption of products and services across the majority of industry categories (from who drinks coca cola to who uses each of the mobile phone networks etc etc). Media consumption data can be cross-referenced with product consumption data to assist in the targeting of advertising campaigns.