# LIPSTICK EFFECT IN ROMANIA: PROPENSITY TO BUY COSMETICS AND STOCK MARKET EVOLUTIONS

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ABSTRACT: Usually, consumer spending declines during recession. Cosmetics seem to disobey this rule; there are evidences to prove that women spending on beauty products increased during the economic turmoil. The scarcity of detailed data regarding this industry makes very hard to test this effect. The present paper tries to overcome the problem, proposing an alternative methodology to analyze if the propensity to buy beauty products, especially lipstick, increased during the last economic crisis. More exactly, we use the normalized number of individuals searching from Romania the world "ruj" (lipstick) on Google as a proxy of aggregate weekly propensity to buy these products and we investigate if BET evolutions (as a proxy for the financial turmoil) are inversely correlated with it. The results drawn from the empirical analysis show the presence of such an inverse correlation on the Romanian market. The decision to buy cosmetics and especially lipstick (a product that instantly change the person imagine and could serve as a rapid mood enhancer) seems to be driven by psychological factors and less by rational ones.

Keywords: beauty products, recession, lipstick effect, mood

JEL codes: D01, D12, D53

#### Introduction

Lipstick cannot be for sure a panacea for the anxiety of global economic crisis but can serve as a mood enhancer for consumers. The global economic downturn has heavily impacted on the consumer buying behaviour. The reduced financial resources and the increased uncertainty regarding the future determined a serious decrease both in the major purchases as automobiles, homes and luxury items and in the basic purchases as groceries<sup>2</sup> (Bohlen et.al, 2010; Euromonitor International, 2012). Despite that, because the consumers under pressure still want to feel good and to lift their spirit, the propensity to buy lipstick and other beauty products seems to increase (Schafer, 2008; Alison and Martinez, 2010; Hill et.al, 2012), effect coined in 2008<sup>3</sup> by the head of the cosmetic group Estée Lauder, Leonard Lauder as the "lipstick effect".

The supporters of this effect find at least two reasonable explanations for its presence: mood enhancing and mating desires.

First, the consumer behaviour is influenced by mood (Holbrook *et.al.*, 2000; Baumeister, 2002) but the relation is bidirectional because the purchase behaviour also impacts on mood. Especially in women case, shopping is perceived as a relaxing or leisure activity and seems to be helpful to overcome the identity problems (Manchanda, 2012). In this way, through hedonic consumption, the consumer simply tries to feel better (Arnold and Reynolds, 2003)

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 $<sup>^2</sup>$  In 2009, the 0,7 % decrease in global real GDP appears to be the most severe downturn from Wall Street Crash of 1929 and the Great Depression. Despite the GDP increase of 5,1% in the following year, mainly caused by the development in emerging markets, the main part of the worlds developed economies still suffer from an important dip in global demand for consumer goods and services.

 $<sup>^{3}</sup>$  Even if the term is relatively new the effect seems to be present long time before someone name it because for instance during the Great recession, cosmetic sales have also increased by 25%.

A newer and unprecedented motivation use ancestral mating psychology to explain why, in a recession time, there is an increased propensity to buy beauty products in women's case (Hill *et.al*,  $2012^4$ ). When the economic resources are scarce, women are tempted to increase their efforts directed towards attracting mates with resources. Men often chose their romantic partner based on physical attractiveness (Buss and Dedden, 1994; Li et.al., 2002). As an adaptive phenomenon, one of the most efficient methods used by women to attract or retain mates is connected with the increase of physical attractiveness (Sabini and Silver, 2005; Durante et.al, 2011).

The scarcity of reliable historical figures on lipstick and beauty products sales makes hard to clearly demonstrate the lipstick effect. More than that, there are evidences that lipstick sales had grown both in recession and in prosperity periods so it is hard to establish a clear negative correlation (The Economist, 2009).

The purpose of this paper is to investigate, for the first time from our knowledge, the presence of this effect on the Romanian market. Each country due to psychological factors, social influences, and different purchasing power has a different cosmetics purchasing behaviour (Weber and de Villebonne, 2002). That is why, from our point of view, a study focused on only one country could provide more reliable results than a cross-country study. We have chosen Romania due to its particular characteristics. Despite the fact that Romanian women are recognised for their beauty, the average expenses for beauty products is one of the smallest in all Europe<sup>5</sup> (around 52 Euro/year). This makes Romania an interesting case for a study focused on the presence of the lipstick effect.

The paper is structured as follows: Section 2 presents some of the main actors of beauty product market in Romania and graphically compares their sales evolution with the economy evolution (captured by two opposite variables, Bucharest Stock Exchange Index - BET and the unemployment rate). Section 3 proposes a new approach to investigate the lipstick effect and discusses the main data and methodology. Section 4 examines the relationship between the propensity to buy one of the most sold beauty products in the Romanian cosmetics market, lipstick, and the financial crisis. Section 5 of this paper summarizes the most relevant conclusions.

#### Romanian beauty product market and economic recession

Despite the last positive trend in the local producers' turnover evolutions<sup>6</sup>, Romanian beauty product market is still dominated by multinationals as L'Oreal, Beiersdorf, Sarantis and Avon. The value of the beauty and care market estimated by Euromonitor International (2012b) had positive evolutions in the last years but slightly lower than the expected ones, due to the continuation of economic crisis, the VAT increase in mid 2010 and the low household income (978 millions Euro in 2008, 952 millions euro in 2011 and a forecasted 1 billion Euro for 2012).

Analysing the evolutions of the top ten cosmetic distribution companies<sup>7</sup> in the last 11 years, one could notice that the first positions as sales in 2011 (see Table 1) is occupied by large international companies. On the first position is the largest distribution company in Romania,

<sup>&</sup>lt;sup>4</sup> Hill *et.al.* (2012), based on five studies, proves the existence of the lipstick effect and state that its presence could be considered as a third indicator of economic recessions, with roots in individual ancestral psychology. In the first study macroeconomic data are used to investigate the relationship between world recession (unemployment is used as proxy in this case ) and consumers habits and behaviours; the second study is designed to experimentally verify the hypothesis that the propensity to buy beauty products in response to an economic decline is driven by women; the third study examines the role of women's preference for financial security in a mate as a mediator in the mechanism of lipstick effect; the fourth study is testing if the price of beauty products influences the lipstick effect and the fifth study enters more deeper, testing which women are more prone to exhibit the lipstick effect

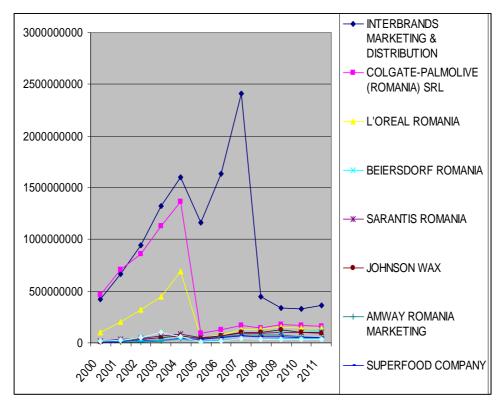
<sup>&</sup>lt;sup>5</sup> From all the European countries just Turkey encounters smaller values of expenses for beauty products

<sup>&</sup>lt;sup>6</sup> enhanced during the last year of recession by the shift in the consumer preferences towards cheaper products, with a good quality-price relation

<sup>&</sup>lt;sup>7</sup> We have chosen to analyse the top ten distribution companies and neglect top ten retailers because the sales of the last category are encapsulated in the first one.

Interbrands Marketing & Distribution, part of the Lebanese group Sarkis, which managed only in 2011 to recuperate the large decrease in turnover and profits from 2008, 2009 and 2010. On the next positions are very known international companies as Colgate-Palmolive, L'Oreal, Beiersdorf, Sarantis, Johnson and Amway.

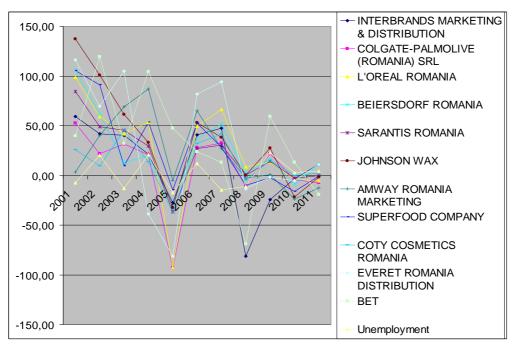
In all the cases there are two extremely important drops in the cosmetic sales: one caused by internal problems in 2005, when the Romanian economy has crossed a very important macroeconomic disequilibria and the other in 2008-2009, when the cause was the international economic recession<sup>8</sup> (see Graph 1 below). The evolutions of the analyzed firms are not necessarily similar. In some of the cases as L'Oreal, Beiersdorf, Johnson, Amway the turnover increased during the crisis but the rhythm severely dropped. In other cases the turnovers severely decreased (for instance in the Interbrands Marketing & Distribution' case, the decrease in turnover in 2008 was higher than 80%).



Graph. no. 1 - Inflation adjusted turnovers for top ten cosmetic distribution companies

At the first look, there seems to be no serious evidence of the lipstick effect (see Graph 2), but one cannot neglect the sales increases in the case of the four aforementioned firms. Also, it is still possible that the demand for lipstick or other particular beauty product to be increased in that period but this initial graphic analysis does not allow us to draw any further conclusions regarding the product's particular sales evolutions. A further analyse will be realised in the next paragraph.

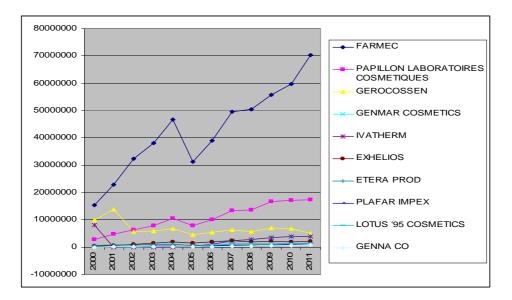
<sup>&</sup>lt;sup>8</sup> To represent the economic recession two variables were taken into account: % change in BET and % change in unemployment. BET closing values are compiled from Bucharest Stock Exchange website: <u>www.bvb.ro</u>.Unemployment rates are compiled from National Bank of Romania website: <u>www.bnro.ro</u>



Graph. no. 2. - Top ten distribution companies and economic downturn (% change in turnover on a year earlier, inflation adjusted)

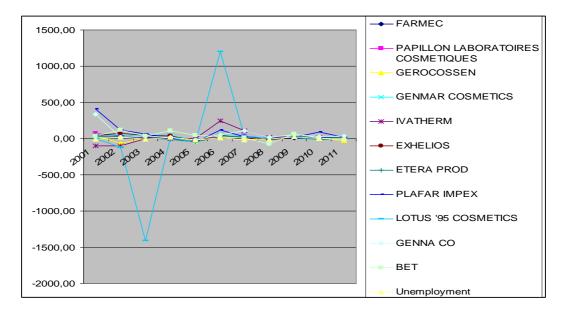
If we are analysing the segment of cosmetic producers, Romanian producer Farmec gains the lead, at a very big distance from its competitors, with a turnover of more then 25 mil Euro in 2011 compared with around 6 mil for Papillon Laboratoires Cosmetiques (the second position) or almost 2 mil for Gerocossen (the third position). The Farmec success is mainly determined by the Gerovital brand (with very famous trade marks as Gerovital H3 Evolution, Gerovital H3 prof. dr. Ana Aslan, Gerovital Plant) that gained the first position in the beauty and care products among Romanian consumers, as trust and affectivity (Biz and Unlock Market Research, 2012).

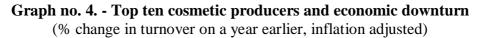
Cosmetic producers companies have been less affected by the crisis than the first category (see Graph 3). The autochthon products gain recognition in the last years and the propensity of buying and using these products among Romanians increased (on the one side due to their smaller price compared with alternative foreign products and on the other side due to their high quality).



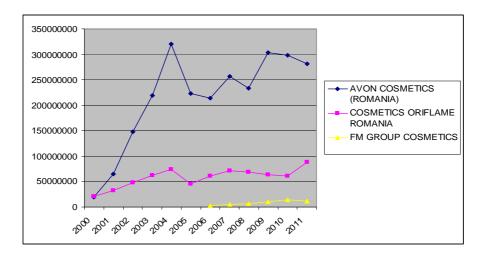
Graph. no. 3 - Inflation adjusted turnovers for top ten cosmetic production companies

Looking more attentive at the evolutions during the crisis (see Table 2 and Graph 4), one could see that just in two cases, Gerocossen and Exhelios there were serious turnover decreases. In the rest of the cases, the tendency was to continue the increase tendency, even if with smaller percentages due to the economic downturn (Farmec, Papillon Laboratoires Cosmetiques, Ivatherm, Lotus'95 Cosmetics).





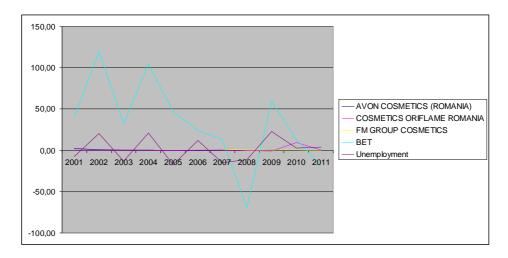
In direct sales segment, three international companies are by far the market leaders: Avon Cosmetics Romania, Cosmetics Oriflame Romania and FM Group Cosmetics Romania. All three have had pretty constant evolutions before and after the crisis with no very important picks<sup>9</sup>. The financial crisis did not generate either severe drops in sales or important increases (see Graph 5).



Graph. no. 5. – Inflation adjusted turnovers for top direct sales cosmetic companies

<sup>&</sup>lt;sup>9</sup> The sales of Avon Cosmetic had a small decrease in 2008 due to internal scandals caused by the bribe accuses in top management level of the company.

Despite the fact that cosmetic products gained the lead in the Romanian direct sales (almost 80% of the market) the Romanians interest for them decreased in the last years because more and more individuals prefer to buy this kind of products from the retailers, where the diversity of products and the buying process could bring supplementary advantages. Analyzing those figures compared with the economic downturn (Graph 6 and Table 3) the conclusion holds: the economical crisis do not change much the evolution of sales, neither the preference for their products.



### Graph. no. 6. - Top cosmetic companies in top 20 of the best direct sales companies and economic downturn

### Is there any lipstick effect on Romanian market?

Based on the overview we had realised, one could conclude that the sales in the cosmetic market in Romania were not extremely affected by the crisis but, in the same time, it is hard to prove that the crisis increased the Romanian preference for cosmetics, especially for lipstick, as the lipstick effect hypothesises.

In order to realise a more reliable analysis one would need the exact value of the sales, on each product, for the entire industry. Because these kind of data is hardly available we are proposing as a proxy for the propensity of buying lipstick, the normalized number of individuals searching on Google the words "*ruj*" (lipstick in Romanian) from Romanian web addresses ( the idea of using this kind of proxy came from a paper wrote in 2012 by Becchetti *et.al.*, who uses the normalized number of individuals searching on Google the word "*felicità*" - happiness in Italian-from Italian web addresses and "*glück*" - happiness in German- from German web addresses, in order to build a high frequency indicator of life satisfaction). People searching for the word "*ruj*" have a desire to buy this product so, the number of individuals searching for this word could be used as a measure for the propensity to buy it in that period. Usually individuals are searching for things because they do not have them otherwise they would not pay the cost of looking for information (for similar conclusions see the behaviour of web surfers looking for information about illnesses they have or could have in: Brodie et *al.*, 2000; Dickerson et *al.*, 2004; Ybarra and Suman, 2006).

#### **Data and descriptive statistics**

Our empirical analysis aims to test the relation between the propensity to buy certain types of cosmetics, measured by the number of individuals searching for the word "ruj" form Romanian web addresses, and the economic downturn measured by the values of Bucharest Stock Exchange Index. The analysis uses weekly time series starting from 06.07.2008 to 23.06.2012.

The number of individuals searching for the word "ruj" on Google is taken from the Google "Insights for search", statistics which automatically normalize<sup>10</sup> on a 0-100 scale the information in the selected interval. The Google week interval goes from Monday until Sunday (and therefore is not influenced by the following week market opening)<sup>11</sup>. The closing values of BET are downloaded from Bucharest Exchange web-site.

Because the proposed analysis is a dynamic one and we are interested if the propensity to buy this product increases or decreases during the crisis period, we are using dynamic growth rates instead of raw data. Their main descriptive statistics are presented in the Table no. 4.

Table no. 4

Statistics	DGR_SEARCH_RUJ	DGR_CLOSE_BET
Mean	0.002553	0.002184
Median	0.017700	0.003522
Maximum	0.644357	0.084222
Minimum	-0.929536	-0.154484
Std. Dev.	0.266789	0.036335
Skewness	-0.573164	-0.767904
Kurtosis	4.032704	5.607763
Jarque-Bera	13.98570	53.80993
Probability	0.000918	0.000000
Sum	0.359984	0.307888
Sum Sq. Dev.	9.964669	0.184837
Observations	141	141

where:

DGR\_SEARCH\_RUJ – dynamic growth rate of the number of searches of the word "ruj" on the Google from Romanian addresses:  $DRG_SEARCH_RUJ_t = ln\left(\frac{SEARCH_RUJ_t}{SEARCH_RUJ_t-1}\right)$ DGR\_Close\_BET- dynamic growth rate of the BET close value computed using closing Friday values of the index  $DRG_CLOSE\_BET_t = ln\left(\frac{CLOSE\_BET_t}{CLOSE\_BET_t-1}\right)$ 

Both dynamic growth series have been checked for unit root using Augmented Dickey-Fuller, Dickey-Fuller GLS and Philips-Perron tests (including also intercept, trend and intercept). We were able to reject the null and concluded that both series are stationary (the t-statistic values were inferior to the critical values at 1%, 5% and 10% levels, with a p-value of 0.0000).

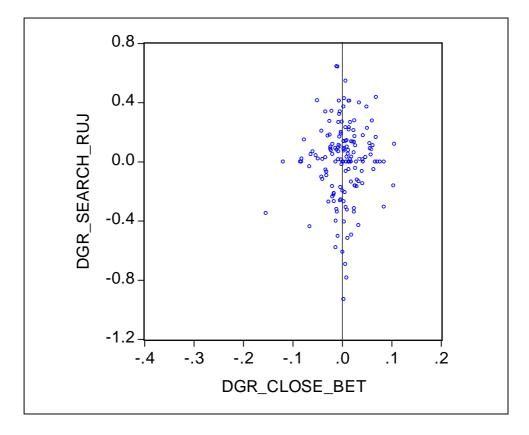
#### Model, specification and result

**Descriptive statistics** 

The main hypothesis we are trying to verify is the existence of a negative correlation between stock market evolutions (as a proxy for the economic downturn) and the propensity to buy lipstick on the Romanian cosmetic market (see in the Graph 6 the scatter plot that connect these two variables; at the first look the variables seems to have a linear relationship).

<sup>&</sup>lt;sup>10</sup> The available data are the weekly number of web searches normalized with respect to the week of maximum search contained on our time interval which is conventionally set at 100. Details on the reliability of the information and the methodology adopted can be found in the web page http://www.google.com/trends/correlate.

<sup>&</sup>lt;sup>11</sup> Our use of the Friday market close reflects the fact that individuals have more time to search on the web in the weekend and therefore this value is expected to influence strongly the weekly Google search values measured till Sunday.



Graph. no. 6. - Variables dynamic in time

In order to investigate if we can confirm the lipstick effect we are using a VAR model. Due to particular nature of the variables - both variables could be considered dependent by their previous values and in the same time both could represent an explanatory variable for the other- a VAR model could lead to better results than a simple OSL estimation. For instance economic downturn could impact on the propensity of buying lipstick either in the direction of reducing it, as a result of income reduction, either in the direction explained by the lipstick effect. In the same time, through the channel of mood enhancing, the propensity to buy beauty product cold also influence the risk aversion attitude and the market evolutions (for further details regarding the mood influence in financial decision see Affect Infusion Model proposed by Forgas in 1995 and Mood Maintenance Hypothesis proposed by Isen *et.al.* in 1998).

Based on lag exclusion test we have chosen a VAR model with 1 lag, with the following general form:

$$\begin{bmatrix} DGR\_SEARCH\_RUJ = a_{1}DRG\_SEARCH\_RUJ_{t-1} + a_{1}DGR\_CLOSE\_BET_{t-1} + b_{1} \end{bmatrix}$$
  
$$\begin{bmatrix} DGR\_CLOSE\_BET = a_{2}DGR\_SEARCH\_RUJ_{t-1} + a_{2}DGR\_CLOSE\_BET_{t-1} + b_{2} \end{bmatrix} (1)$$

that leaded to the results presented in the Table 5.

Table no. 5.

	DGR_SEARCH_RUJ	DGR_CLOSE_BE T
DGR_SEARCH_RUJ(-1)	-0.450372	-0.000318
	(0.07321)	(0.01235)
	[-6.15172]	[-0.02573]
DGR_CLOSE_BET(-1)	-0.783142	0.051397
、 /	(0.49089)	(0.08283)
	[-1.59534]	[ 0.62055]
С	0.003779	0.002805
	(0.01914)	(0.00323)
	[ 0.19740]	[ 0.86850]
R-squared	0.222961	0.002649
Adj. R-squared	0.212243	-0.011107
Sum sq. resids	7.816003	0.222504
S.E. equation	0.232171	0.039173
F-statistic	20.80288	0.192579
Log likelihood	7.633990	270.9988
Akaike AIC	-0.062621	-3.621605
Schwarz SC	-0.001867	-3.560851
Mean dependent	0.000887	0.002960
S.D. dependent	0.261585	0.038957
Determinant resid covarianc	e (dof adj.)	8.23E-05
Determinant resid covarianc	e	7.90E-05
Log likelihood		279.0217
Akaike information criterion	1	-3.689483
Schwarz criterion		-3.567974

#### The results from VAR model

Included observations: 148 after adjustments Standard errors in ( ) & t-statistics in [ ]

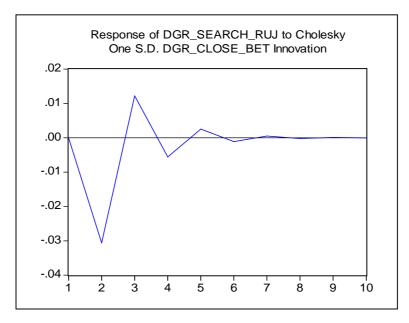
The model was tested for stability and there are no roots lying outside the unit circle. The robustness was checked through VAR residual Portmanteau test for autocorrelation, VAR residual serial correlation LM and VAR residual Heteroskedasticity Test. All the results show that the VAR model with 1 lag is a robust and stable one.

As one could see in Graph 7, an impulse in BET seems to generate a short term, strong inverse response in propensity to buy lipstick that confirms the suppositions of the lipstick effect theory<sup>12</sup>.

<sup>&</sup>lt;sup>12</sup> Same conclusion could be drawn also if one looks at the estimated VAR model coeficients:

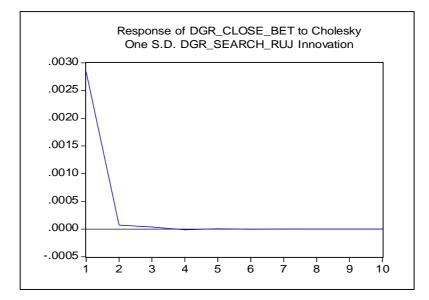
DGR\_SEARCH\_RUJ = -0.450372283\*DGR\_SEARCH\_RUJ(-1) - 0.783142361\*DGR\_CLOSE\_BET(-1) + 0.003778518099

 $DGR\_CLOSE\_BET = -0.0003178717314*DGR\_SEARCH\_RUJ(-1) + 0.05139736094*DGR\_CLOSE\_BET(-1) + 0.002804925478$ 



Graph. no. 7. - The effect of an impulse generated by the capital market evolutions on the propensity to buy lipstick

On the other side, seems that from the two alternative aforementioned theories regarding the relation between mood and capital market, our model confirms Mood Maintenance Hypothesis<sup>13</sup> for an extremely short moment in time. After that, the system quickly stabilises (see Graph 8). The former BET evolutions have an importantly larger effect on its present values, as one can easily see from the model coefficients, so the mood change impact quickly disappears.



# Graph. no. 8. - The effect of an impulse generated by the propensity to buy lipstick on the capital market evolutions

<sup>&</sup>lt;sup>13</sup> A better mood induced by a larger propensity to buy lipstick seems to increase the risk aversion and reduces the capital market growth

#### Conclusions

Motivations that drive consumer spending are clearly not always intuitive or rational. Our analysis showed an increase in the sales of an important part of the companies that produce or distribute cosmetic on the Romanian market, despite the crisis.

More than that, the propensity to buy lipstick seems to be inversely correlated with the capital market evolution. This conclusion allows us to consider that in fact the motivation that stays behind the decision to buy cosmetics and especially lipstick (a product that instantly change the person imagine and could serve as a rapid mood enhancer) is driven by psychological factors and less by rational ones as the level of incomes. Our study does not go further to asses what kind of psychological motivations support this propensity, mood enhancing or the mating desires but it offers empirical proves that lipstick effect do exist on the Romanian market. A future study could extend its findings and test also for the psychological motivation that determines the presence of this effect on the Romanian market.

Despite the fact that this was not the main purpose of the study, this analysis could be also helpful as a starting point for a further investigation of the effect of mood on the capital market evolutions. The results of the VAR model offer support for the idea that individuals with a better mood could have a higher risk aversion, generated by the desire to maintain this state of mind and this could be transposed in lower demand for stocks and lower returns of the capital markets. Some different mood enhancers could be used in order to test this hypothesis on the Romanian capital market.

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## Appendix

	Top ten distribution companies (% change in turnover on a year earner, innation aujusted)												
No.	COMPANIES	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	
	INTERBRANDS												
	MARKETING &												
1	DISTRIBUTION	59,18	41,60	40,20	21,18	-27,56	40,84	47,67	-81,44	-24,40	-3,19	11,26	
	COLGATE-												
	PALMOLIVE												
2	(ROMANIA) SRL	52,69	21,94	31,31	20,56	-92,88	27,98	32,66	-11,12	21,99	-4,43	-7,61	
3	L'OREAL ROMANIA	98,85	59,33	41,67	53,59	-92,79	49,63	66,19	8,36	13,80	-3,85	-5,22	
	BEIERSDORF												
4	ROMANIA	105,96	61,11	13,10	19,69	-29,53	36,86	51,74	2,06	15,93	-8,76	11,14	
5	SARANTIS ROMANIA	84,16	48,86	45,40	29,63	-36,69	26,79	30,48	0,25	14,31	-2,92	-0,18	
6	JOHNSON WAX	137,09	100,71	61,04	33,13	-32,50	53,18	38,37	0,40	27,54	-21,74	-1,94	
	AMWAY ROMANIA												
7	MARKETING	3,14	40,26	69,04	86,96	-4,93	64,73	26,78	-3,05	0,67	-24,10	-12,53	
	SUPERFOOD												
8	COMPANY	105,53	90,88	9,38	53,49	-14,83	52,47	28,71	-9,79	-2,42	-16,07	-0,78	
	COTY COSMETICS												
9	ROMANIA	25,84	9,32	45,52	13,55	-37,24	32,10	41,64	-4,84	15,08	-0,04	2,54	
	EVERET ROMANIA												
10	DISTRIBUTION	116,14	69,50	104,72	-38,84	-81,43	81,61	94,13	-13,53	-1,57	-5,44	10,93	

Top ten distribution companies (% change in turnover on a year earlier, inflation adjusted)

Source: The companies were ranked accordingly to the national top of Romanian firms realised by the Council for Small and Medium Enterprises for 2011, available on <a href="http://top.cnipmmr.ro/clasamente.html">http://top.cnipmmr.ro/clasamente.html</a>

The initial turnover values are compiled for each year from the Finance Ministry web site: <u>www.mfinante.ro</u> and from other two supplementary web sites that offer financial information regarding the Romanian firms: <u>http://www.firme.info/; http://www.doingbusiness.ro/financiar/</u>. As an exception, the turnover value for Everet Romania Distribution for 2004 is an estimated value.

Inflation rates were compiled from the National Bank of Romania website : <u>www.bnro.ro</u>

Table no. 1.

No.	COMPANIES	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
1	FARMEC	49,14	41,08	17,90	22,45	-33,11	24,79	27,18	1,41	10,64	7,06	17,79
	PAPILLON LABORATOIRES											
2	COSMETIQUES	76,31	30,77	23,08	35,64	-26,14	27,68	34,03	1,30	22,79	2,84	1,62
3	GEROCOSSEN	40,83	-59,34	2,48	17,29	-33,93	21,16	18,18	-12,81	25,95	-4,31	-26,16
4	GENMAR COSMETICS	57,03	32,75	51,89	45,10	-13,72	54,04	24,74	-3,67	38,58	3,48	14,10
5	IVATHERM	-99,96	-100,00	0,00	0,00	0,00	249,43	109,49	19,60	25,15	15,92	-0,15
6	EXHELIOS	48,85	76,97	48,29	37,66	-29,62	46,14	13,50	-14,09	14,50	-10,64	3,65
7	ETERA PROD	26,95	30,66	11,79	-6,17	-49,30	26,91	29,38	-0,48	23,14	24,64	11,55
8	PLAFAR IMPEX	411,80	116,14	60,69	9,89	-48,27	117,85	26,80	-2,57	20,91	91,01	21,89
9	LOTUS '95 COSMETICS	0,00	-114,67	-1406,03	21,65	-51,43	1195,65	40,19	3,45	16,72	-16,91	1,23
10	GENNA CO	337,17	15,09	39,41	15,84	-18,45	53,25	106,09	16,07	58,96	24,24	35,35
			· · · ·			. 2001	1 2000 6	1.1.1				

Top ten cosmetic producers (% change in turnover on a year earlier, inflation adjusted)

Source: similar with the ones from Table 1. The exception in this case is Gerocossen's turnover in 2001 and 2009, for which the values are estimated using the past trend.

Table. no. 3.

Table no. 2.

# Top cosmetic companies in top 20 of the best direct sales companies (% change in turnover on a year earlier, inflation adjusted)

				1	1							
No.	COMPANIES	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
	AVON COSMETICS											
1	(ROMANIA)	2,34	1,27	0,49	0,46	-0,30	-0,04	0,20	-0,09	0,30	-0,02	-0,06
	COSMETICS ORIFLAME											
2	ROMANIA	0,62	0,46	0,31	0,17	-0,38	0,34	0,18	-0,04	-0,08	-0,04	0,45
3	FM GROUP COSMETICS							1,28	0,14	0,61	0,37	-0,17

Source: similar with the ones from Table 1