Artificial Intelligence formulated this projection for compatibility purposes from the original article published at Global Journals. However, this technology is currently in beta. Therefore, kindly ignore odd layouts, missed formulae, text, tables, or figures.

1	Project Management of Romania's Transition to Euro: Insights,
2	Solutions, Cost-Benefit Analysis
3	Ion $Corbu^1$ and Aurelian B?lu?? ²
4	¹ Spiru Haret Univesity
5	Received: 6 December 2013 Accepted: 4 January 2014 Published: 15 January 2014

Abstract 7

This paper addresses a pressing topic of present times on Romania?s need to fulfill the 8 European integration objective, namely to adopt the single European currency, euro. This 9 paper addresses several key aspects of the economic context and then, based on reliable data, 10 analyzes the stage of completion of the criteria of nominal convergence viewed from two 11 perspectives. One perspective is on the absolute completion of these criteria and another from 12 a relative completion, with reference to the percentage of effectiveness for achieving the 13 criteria. Although this second method is not mentioned in EU?s operating documents or in 14 the accession and integration documents, we believe that, theoretically, it can be taken into 15 account and may be an argument in favor of taking a political decision to accelerate 16 Romania?s transition to the single European currency. The paper discusses the advantages 17 and disadvantages of the transition to the euro currency, the courses of action for this 18 transition and some conclusions and suggestions. The paper highlights the advantages and 19 benefits of a rapid changeover, the costs of delaying this process, the forces that can put it in a 20

- firmer motion. 21
- 22

Index terms— euro, inflation, public debt, budget deficit, long-term interest, nominal convergence criteria, 23 the maastricht treaty. 24

Introduction 1 25

hat would someone's reason be, having the possibility to travel long-term and great distances, with a high-end 26 car or with a cart to choose a cart? Mutatis mutandis, in the logic of a common sense politics, liked by officials 27 of the "lion cart" management, a high-end car, in the monetary system, Euro, is available to us and we refuse or 28 delay, sine die, to take it! Why? If you read the reports, interventions or the views expressed by many officials 29 in the field, you realize it all points out that it is not possible. And that, every time the due date approaches, 30 another postponement is imposed. 31

It is a too high luxury, we might say, exotic, and having excessive costs, this odd preference of some 32 technostructures in Romania for an obsolete conservatism to keep the RON currency at any cost. 33

Who loses and who wins from this hypocritical option? We say hypocritical because almost all officials support 34 35 the transition to Euro -we actually committed to this through the Accession Treaty, however, it can be said, very 36 little is made to achieve this objective, if not, some make efforts to prolong sine die.

37 Cyprus has financial problems, our currency depreciates. Investors come, the currency depreciates, suggesting a false currency excess. Investors leave, the currency depreciates. Exaggerating a little, if the wind blows from 38 the north, the currency depreciates, if the wind is blowing from the south, the currency devalues, if it blows from 39 the East the currency depreciates, there is no other solution than depreciation. Therefore, we have a currency 40 which, with few exceptions, is continuously depreciating and takes all sorts of shocks, more or less justified. It 41 takes, as a cart does, all the shocks of a secondary road, parallel to the motorway where all the latest car versions 42

are speeding away. 43

Therefore, the biggest loser, following this option of not taking a latest generation vehicle, is the Romanian economy. The economy, rather than developing, on healthy, competitive and strong grounds, is struggling to find solutions and to keep away from permanent shocks that the "the lion cart" sends with full force. And, along with the economy, the loss is for the citizens who do not have hope anymore, they no longer dream, not even of the welfare they had hoped for when they expressed their opinion in favor of the EU accession.

According to the rules of any project, there should be identified the forces which are opposed to it. From the transition delay, the following categories are to gain: a) a few technocrats that have important positions, have unexpected and of course, not transparent privileges; b) a few bureaucrats in the public administration;

c) foreign capitals that charge excessively high and unreasonable interests, by invoking a so-called country risk,
 forgetting that Romania is a member of EU and NATO; d) non-performent companies, artificially kept with the

⁵⁴ "infusion" of extremely low salaries and which, in a loyal competition, should be closed down.

55 We thus enter in a vicious spiral. The part of the economy that is uncompetitive, becomes less competitive,

 $_{56}$ the lack of competitiveness combined with monetary policy that are at least uneconomic and an untransparent

57 mechanism of the exchange rate, will lead W to the depreciation of RON currency, which will produce new shocks

and losses, introducing other companies in the group of uncompetitive firms, that, by using a currency that is in constant devaluation, will reduce or cancel their small profits, becoming more uncompetitive and, obviously, the

60 cycle repeats.

Romania will never be completely ready for the transition to the euro currency. So, what is there to be done? To resign or to take charge and see how we can move quickly to the adoption of the euro? Which is available to us. Let's make an effort to meet the conditions and get on the next generation car! II.

⁶⁴ 2 Romania's Transition to Euro -Background

The transition to the unique european currency, Euro, although assumed by EU's Functioning Treaty and by 65 each country's accession treaty, has become, as a result of the manifestations of the crisis (sovereign debt crisis, 66 structural crisis, economies found in difficulty, etc. in countries like Greece, Spain, Italy, etc.), a controversial 67 issue. The fact is, however, obvious. A total of 17 1 countries, that are part of the "eurozone", use this currency. 68 Euro is used 2 more in Monaco, San Marino and Vatican, and is also used 3 Therefore, the range of views on this 69 matter is diverse. "A faster growth is possible if Latvia is in the eurozone in Andorra, Kosovo (unrecognized as 70 a state by Romania and Moldova) and Montenegro. Therefore, about 327 million Europeans use the european 71 currency daily. On March 2013, Latvia signed the membership application for 1 January 2014 and Lithuania 72 decided to switch to the eurozone starting with 2015. 73 Bulgaria, Hungary, Czech Republic and Poland have announced to stop their plans regarding the transition 74

to the european currency until the monetary union solves its structural problems. Romania again postponed the decision to join the european, considering that for the year 2015 it would not possible. The three countries Great Britain, Denmark and Sweden openly oppose the european currency.

78 **3 4**

"Based on evaluations presented to the presidency, I think that January 1st, 2016 is a realistic " said the 79 Latvian Minister of Finance characterizing as historic the moment when Latvia signed the application for 80 accession to the eurozone. 1 Austria, Belgian, Cyprus, Estonia, Finland, Franch, Germania, Grecia, Irlanda, 81 Italia, Luxemburg, Malta, Olanda, Portugalia, Slovacia, Slovenia ?i Spania 2 With EU approval 3 Without EU 82 approval 4 "Faster economic growth is possible if Latvia is inside the euro zone," said Vilks characterising the 83 move as "historic". http://www.telegraph.co.uk/finance/financialcrisis/9907426/Latviaformally-applies-to-join-84 eurozone.html date for Poland's accession to the eurozone 5 Bulgaria has stopped its plans for the transition to 85 the Euro currency. "Our thinking and public opinion has changed ... At this point, I see no benefit in joining 86

the eurozone, only costs", said ", said in an interview, Roman Kuzniar, advisor to the Polish President.

⁸⁸ 4 6

"Even the most optimistic forecasts say that Hungary will not be able to adopt the euro before 2018", said the
Hungarian Prime Minister, Viktor Orban Simeon Djankov, Bulgaria's Finance Minister.

91 5 7

Regarding the position of Romania, unfortunately, it is polarized. The President seems interested in a quick transition to euro and, in this respect, Romania should pass this option as a priority and will take all the efforts to fulfill the conditions of membership. The National Bank is basically a supporter of permanent postponement. The Government has not yet taken a decision on this issue and it seems that it is not yet sufficiently convinced of the urgency of the transition to . In principle, Czech Republic meets the nominal conditions for the transition to the european currency but does not seem interested to give up its own monetary policy and its own exchange rate, though, lately, it seems to have changed its mind in favor of joining the Euro.

Although, from the start, Sweden has decided firmly against the Euro, perhaps observing the developments and steps taken by the eurozone in its strengthening, the Swedish Prime Minister said that his country could participate in Greece's rescue plan, although it is not a member of the eurozone and so it does not have such

obligations. This statement may reflect a certain fear of Sweden to remain outside Europe. A kind of game 102 at both ends. If the Euro project would fail, obviously, Sweden's anti-euro position would be fully justified. 103 However, the evolution and improvement of the monetary union with the euro, proving its viability and, despite 104 105 many skeptic opinions who want or wish its disappearance, turns out to be a strong currency and has become kind of a second international reference currency, it is useful and diplomatic not to remain outside this zone. Maybe 106 this is why such a "helping hand" arises unsolicited, which no one was obliged to give. 5 La Pologne pourrait 107 adopter l'euro à partir du 1er janvier 2016, a estimé samedi le conseiller du président polonais à la politique 108 internationale Roman Kuzniar. "Basant sur les évaluations menées à la présidence, je pense que le 1er janvier 109 2016 est une date réaliste de l'adhésion de la Pologne à la zone euro", a déclaré M. Kuzniar à la radio commerciale 110 RMF FM. http://www.lefigaro.fr/flasheco/2012/12/15/97002-20121215FILWWW00555-pologne-adoptionde-l-111 euro-en-2016.php 6 http://online.wsj.com/article/SB1000087239639044375950457762932 3056333022.html euro, 112 according to a disastrous mentality "now is not the time". And the people seem divided. 113

In conclusion, the context of Romania's possible and desirable decision to switch to the euro in the near future is complex, heterogeneous and dispersed. And the effective transition to the Euro should be addressed from at least two respects: one purely technical and related to the nominal convergence criteria and one of political decision on the economy seen as a whole, the need to bring to an end Romania's strategic choice to join the EU by this transition to the Euro, and finally, through the advantages and disadvantages of adopting the Euro.

There must be noted that the Economic and Monetary Union is a unified, consistent and a firm monetary policy. Its mission and main purpose is the monetary stability, allowing harmonious and balanced development of all European countries and reducing imbalances over time between countries belonging to the European Union.

Finally, the convergence, calculated (measured) by the fulfillment of the convergence criteria, according to the operating Treaty of the EU, requires a joint effort from countries to achieve a certain target on the economic, financial and social performance. This target can be achieved by various methods and strategies, specific to each country, but the result should be a common one, namely a stable, credible, strong and performant economy, close to the best performing EU economies. Such an economy can be addressed from the view of nominal convergence and real convergence.

128 6 III.

129 7 Literature Review

130 The Maastricht Treaty 8

131 ? low inflation rate; it must not exceed a maximum of 1.5 percentage points of the average of the three best 132 performing economies in inflation; of the participating Member States in the year before the examination;

stipulates the criteria to be met by a country in order to adopt the euro, respectively to participate in the Economic and Monetary Union. These criteria are known as nominal convergence criteria or the Criteria of Maastricht. These criteria are:

136 ? low interest rates for long-term loans; the interests must not exceed the interest rates of the three best 137 performing Member States participating in the year before the examination by more than 2 percentage points.

? the budget deficit should not exceed more than 3% of GDP; ? the cumulative public debt should not exceed
 60% of GDP;

? the national currency has been part of the European Monetary System for at least two years before theexamination for membership, without severe tensions;

The Maastricht Treaty does not stipulate anything about the issues of real convergence. In an analysis 9 In 142 "Dilemmas of Romania's accession to EMU" of Romania's transition to Euro, Mugur Isarescu, referring to the 143 real convergence, has a personal view. "In the absence of clear criteria stipulated in the treaties, we believe that 144 the most important actual convergence criteria are: the degree of economy's openness (expressed as a percentage 145 of the sum of imports and exports from a country's GDP), the share of bilateral trade with the member states 146 in the total of foreign trade; the structure of the economy (expressed as the share big sectors have in creating 147 GDP: agriculture, industry, services) and the most synthetic criterion, the GDP / inhabitant (expressed either 148 in the nominal exchange rate, or in the parity of standard purchasing power)". 149

150 **8 10**

The European Central Bank also supports the existence of premises for the future project of transition to euro 151 to be successful. "The maturity of euro it is mentioned: "A sudden strategy of accession to a monetary union 152 implies that, starting from a certain day, Romania and the EU use the same currency, the euro, issued by the 153 ECB, and the Romanian citizens are informed to exchange RON currency into Euro at a given exchange rate 154 155 (we're assuming an exchange rate of Euro-RON of 1 Euro / 3 RON; starting from that date, the Romanians 156 will simply buy 1 euro for 3 ron). For Romania, such a strategy would provide an important advantage. Firstly because the inflation rate will fall to the level of the EU, without costs in terms of unemployment. The Euro 157 -currency issued by the ECB -is now the legal tender in Romania and, therefore, the inflation in Romania is equal 158 to the inflation in the EU. Economic agents realize this and, therefore, correspondingly outline their inflationist 159 expectations for Romania. Thus, Romania can immediately benefit from the reputation of the ECB. Taking 160 over the currency and EU's institutions, Romania can immediately benefit from welfare gains arising from the 161

9 *SIMULATION BASED ON REAL DATA FROM THE NBR SOURCE : TABLE CALCULATED BY THE AUTHORS BASED ON DATA FROM NBR

monetary union". From this point of view, we can see the optimistic level of the ron/euro currency considering the terminus point of the monetary convergence process with the eurozone and also the prevalence of benefits over costs when the transition to the single currency is complete.

place [so far] in good conditions, and the Eurosystem has gained considerable experience from introducing banknotes and coins and the managing their circulation. The experience will prove useful for the physical introduction of cash euro by the new EU Member States. Starting with the year 2007, the euro may gradually replace the national currencies of the 12 countries that joined the EU on 1 May 2004 and later: Bulgaria, Cyprus, Czech Republic, Estonia, Latvia, Lithuania, Malta, Poland, Romania, Slovakia, Slovenia and Hungary. The first of these countries was Slovenia, which joined the eurozone on 1st of January 2007. "

In an analysis of EBRD in 2012 about the prospect of Romania meeting the convergence criteria, there is 171 emphasized: "Short-term macroeconomic perspective of Romania is uncertain, especially in light of turmoil 172 resurfaced on global markets and within the eurozone in the second half of 2011. However, in the medium 173 term, Romania has a strong potential for convergence with the EU, given that GDP per capita, in terms of 174 purchasing power parity, is one of the lowest in the EU, standing at 45% of the EU average, provided that 175 progress will be made in the domain of structural and institutional reforms" 12 Also, the real convergence favors 176 or not nominal variables, generating itself specific costs and benefits. With the GDP growth there will be an 177 178 noninflationary increase of salaries and obviously of contributions, which is an important benefit. An increase in 179 contributions leads to an increase in budgetary resources, decrease of public debt and of the budget . Fulfilment 180 of nominal convergence criteria in the Romanian economy induces both positive and negative effects, and, in terms of project management, it contains benefits, and the potential costs are highlighted by economic theory. 181 However, the decision to switch to the single European currency is based, as a basis, on the economic component, 182 respectively on the more objective quantification of the advantages and disadvantages, but it is or has to be a 183 political decision. 184

An important economic benefit is that reducing inflation and interest rates stimulates increased investment with a direct effect on GDP growth. It thus improves economic performance effect on salaries convergence.

Respecting the restrictions of deficit and public debt, according to the nominal convergence criteria may slow down economic development as a result of lowering investment, which is one of the most unpleasant economic costs of the project. You can not make public investment more than the maximum budgetary provisions plus a share of the budget deficit that is up to 3% (at the limit, theoretically, this deficit can be entirely destinated for investment).

deficit. The difference in productivity between the assets in the commercial circuit and the assets which are 192 not part of the commercial circuit, along with the uneven increasing trends and outrunning increase of salaries 193 in relation to productivity, will lead to an increased inflation according to the Balassa-Samuelson 13 Expressed 194 synthetically, Balassa-Samuelson effect states that: "any increase in productivity in a country (GDP/capita) 195 generates an increase in the price level (in other words, nominal convergence is impossible at the same time 196 with the real convergence)" effect. Viewed through the Balassa-Samuelson effect, nominal convergence and the 197 making of accelerated real convergence, as a result of inflationary pressures caused by the B-S effect, will generate 198 restrictive monetary policies that will have, as a negative consequence, the B-S effect. . 199

In Table 1 we summarize The situation of meeting the nominal convergence criteria by Romania for adopting the Euro currency, hypothetically taking as the year of examination, 2013.

Regarding criterion 1, price stability, it is observed the decreasing trend of average annual inflation rate, 202 reaching 3.4% in 2012. However, the reference for this indicator is a dynamic one. The graphic in Figure ?? 203 shows the annual average inflation rate for 2010-2012 for the EU countries and then selecting the three best-204 performing countries, in terms of inflation. As shown, in each of the three years analyzed, the most powerful 205 countries were different and also inflation values were different from year to year. From Table 2, it results that 206 the inflation rate that Romania would have been entitled to for the year 2012 is 2.7666%. But it had an inflation 207 indicator value of 3.4%. Therefore, Romania does not fulfill this criterion. The criteria 2 and 3, shown in Table 208 1, are met. 209

Regarding criterion 3 the following comments should be made. From the graphs of Figures 2 and 3, made 210 based on daily exchange rates series of EUR -RON, results that after the accession of Romania to the EU in 211 2007, and to date, the national currency depreciated continuously. Thus, if in 2007 the thes situation was 1 euro 212 = 3 -3.5 ron, in 2008 it was situated in the 3.5 -4 ron zone. In the last three years a convergece was made in 213 the area of 4-4.5 roni with some intervals of exception. At the moment we are witnessing a stabilization of the 214 euro / ron around 4.5 RON / EUR. Based on the statistical series of the annual average exchange rate, presented 215 in Table 3, and the daily exchange rates, in the graph of figure 3, which provided the minimum and maximum 216 deviations from the average value of the annual average exchange rate of the last two years prior to the examined 217 year, respectively 2012, Table 4 analyzes the behavior of the national currency as if it participated in the exchange 218 rate mechanism of the European Monetary System (ERM II). 219

²²⁰ 9 *Simulation based on real data from the NBR Source : Table ²²¹ calculated by the authors based on data from NBR

The conclusion deduced from the analysis presented in Table 4 is that Romania meets the nominal convergence criteria 3 for 2012. In fact, this criterion is met including for the years 2011 and 2010, the maximum and minimum deviations being within the margins of $\pm 15\%$.

For analysis of nominal convergence criterion 4, we used the statistical series in Table 5. The graph in Figure 225 ?? shows long-term interest rate developments for all EU countries for the years $2009 \div 2012$. From Table 5 and 226 the graph in Figure ??, we pulled the values of long-term interest rates for the three most performants economies 227 each year, and we calculated the maximum percentage value of long-term interest rates accepted by Romania for 228 meeting the criteria. As shown in Table 5, the real average long-term annual interest rate exceeds the maximum 229 allowable percentage so that the criteria are not fulfilled. The exceeding ranges from 2.64 percentage points in 230 2011, the smallest overflow, and 4.4133 percentage points, the largest overflow. Also to be noted that the trend 231 232 of the average annual long-term interest rates for Romania is low: from 9.69% in 2009 to 6.68% for 2012, but 233 this decrease was not sufficient to reach the threshold required by the euro system exigencies. To be pointed out that this criterion, as well as "price stability" criterion, targets a dynamic value in the sense that the economic 234 performance of EU countries are also variable in terms of hierarchy (which determines the three best performing 235 EU economies) and annual average values. Therefore, the effort to achieve these goals must be sustained and the 236 result of this effort cannot be known in advance. It should also be noted, Figure ??, that the long-term interest 237 rate trend for the three best-performing EU countries in the period $2009 \div 2012$ was a decreasing one. It results 238 that, in order to catch up with the best three EU countries on these criteria, criteria 1 and 4, either Romania must 239 decrease faster or benefit from an eventual economic favourable conjuncture, in which the economic performance 240 of the three best performing EU economies are not so powerful. Otherwise, the gap will remain. Analyzing the 241 actual data of nominal convergence 15 242

243 10 Long

²⁴⁴ 11 Source : National Commission of Prognosis

245 Figure 6

compared with the data predicted by the National Commission for Prognosis, it appears that the forecast was 246 optimistic, both nominal convergence indicators not being reached. Thus, for 2012, it was projected an inflation 247 rate of 2.6% but 0.8% more was actually achieved, totaling 3.4%. As for the exchange rate, the forecasted value 248 was 3.3 ron/eur and actual value realized in the year 2012 was 4.4560 ron/eur. Therefore with a depreciation 249 of 1,156 ron, 35.03% respectively. Tables 6 and 7 and the graphs from Figures 7 and 8 present the comparative 250 evolution of the longterm exchange rate and interest rate for Romania and for some of the main countries aspiring 251 to the eurozone for $2003 \div 2012$ based on actual statistical data, and for $2013 \div 2014$ based on values expected. 252 We also presented the evolution of EUR / USD and the development of a country aspiring to join the EU, namely 253 Turkey. We noticed that the highest fluctuation of the exchange rate occurred in Poland, Romania and Turkey, 254 and the least fluctuating were Bulgaria, Latvia and Lithuania. Therefore, it can be seen that all countries aspiring 255 to the eurozone make the effort to achieve nominal convergence criteria. V. 256

²⁵⁷ 12 Discussion

From the analysis presented above, in absolute terms, 'yes' or 'no', it results that Romania fulfills two nominal convergence criteria for the transition to euro. The other two criteria are not met.

However, if we consider that the nominal convergence criteria have been met in certain proportions, the situation can be nuanced. Criterion 1 had a hopeful evolution. Price stability, represented by the inflation rate was, in 2012, 3.4% as against 2.7666%. Therefore, there was an excess of 0.6334% meaning 22.89% higher than admitted criteria. In terms of effectiveness of achieving the target, it can be said that the objective was achieved at a rate of 77.1%.

Criterion 2 was met, being registered, for the budget deficit, an amount of 2.8% against the allowed 3%. So 265 in terms of effectiveness of achieving the target we can say that the objective was achieved at a rate of 107.1%266 Also, criterion 2 was satisfied, registering, for the public debt, a value of 34,34% compared to 60% as was allowed. 267 And here, in terms of effectiveness in meeting the target, the percentage is above par, meaning 174.72%. If it 268 is granted, for the total of criterion 2, equal share to the two subcriteria, respectively the budget deficit and 269 public debt, it can be said that, on average, criterion 2 was achieved at a rate of 141%. Criterion 3 was also met, 270 271 recording the following values: +10.04/+2.32% against the $\pm 15\%$. If we use the same assumption of efficacy in 272 reaching the objective, it can be considered that the goal has been achieved at rate of 345%. Criterion 4 has 273 been met with a value of 3.4% against the 2.7666% which could be maximum allowed. In terms of efficiency in 274 reaching the objective, this was achieved at a rate of 77.1%.

Briefly, the situation of effectively meeting the nominal convergence criteria, as a whole, assuming equal shares assigned to each criterion and calculating the percentage of achieving the objective, is presented in Table 8. Column 2 shows the absolute terms of "yes" or "no" in meeting the criteria, and in column 3, in relative terms, the efficacy in reaching objective envisaged by comparing the actual values achieved at the maximum permitted levels, according to the convergence criteria rate.

²⁸⁰ 13 EMU convergence criterion series - anual data

²⁸¹ 14 Convergence of interest rates

282 No 77,1%.

Overall rating assuming equal shares are allocated, respectively 25% to each criterion.

²⁸⁴ 15 Source : table created by the authors

If the problem is approached in absolute terms, "yes" or "no", Romania in the year 2012, does not meet the criteria for nominal convergence for changeover to the euro and therefore Romania's request to switch to euro should be rejected.

The situation may change for a nuanced assessment. In the sense that, overall, the two criteria are fulfilled much better than required and the other two are not 100% satisfied, but have a high degree of compliance, namely 77.1%. analyzed from this perspective, and the percentages of achievment compensating each other, we believe that in the year 2012 Romania has met the criteria of nominal convergence at a rate of 160%. This approach, at least in theory, would allow the start of talks with the EU, and start procedures for switching to the euro.

The problem, we believe, is the political decision which must be based on a cost-benefit analysis from the perspective of the majority of citizens, not a minority. In our view, the changeover to euro should be top priority for Romania and should be done as soon as possible. First, because it is a criterion of European integration. Second that, according to the argument above, under the rules of general statistics, we meet the criteria of nominal convergence. Third, because we have this possibility: to use a strong and stable currency which will be, as highlighted for Latvia by his Finance Minister, "a faster economic growth is possible if Latvia is in the euro area".

The EU has many enemies and it still cannot be affirmed a hundred percent that the European integration 300 process is irreversible. However, despite all the criticism, skeptics and even enemies of this construction, the 301 EU develops, integrates and strengthens. Here's what Olli Rehn, European Commission Vice President and 302 Commissioner for Economic and Monetary Affairs, declared in the Report regarding the alert mechanism: 303 supporting macroeconomic adjustment in the EU ??8 : "The EU is going through a difficult process of correcting 304 macroeconomic imbalances that have accumulated in the decade before the crisis. There have been many 305 developments and reforms already paying off. But the rebalancing process is far from being completed, marking 306 the economic landscape for many years. Through the Procedure regarding macroeconomic imbalances, the 307 Commission provides guidance to http://europa.eu/rapid/press-release_IP-12-1275_en.htm Member States to 308 ensure appropriate policies to combat imbalances and promote sustainable economic growth and creation of jobs". 309 Overall, EU has managed to handle all the undesirable effects of the crisis. Moreover, its vulnerabilities were 310 identified, lessons were learned from mistakes or past shortcomings and an improvement and modernization has 311 been achieved. One of these directions is the fiscal pact that will be implemented and which will contribute to the 312 introduction of greater rigor and discipline in all EU economies. The mechanism has a relatively high degree of 313 complexity but feasible. Accordingly, our politic decision to be made is: do we keep going with EU and take the 314 last two major steps to integrate or not? Meaning do we enter the Schengen Area and adopt the euro currency 315 or do we postpone it indefinitely? 316

We must bear in mind that EU does not stand still. And, as it grows, the gap between us and the EU increases. Moreover, there are rumors that the current nominal convergence criteria will be tightened even more, real 19 convergence criteria 20 will also be sought. Since february 2012 it was introduced a dashboard for monitoring macroeconomic indicators to detect trends manifestation of macroeconomic imbalances. These indicators ??1 1) year backward moving average of the current account balance as % of GDP are:

2) net international investment position at end of year in % of GDP It is expected that, in the demand analysis of the changeover to euro, some or all of these indicators, be requested and examined. And, perhaps, given the bad experience that the EU authorities have had with the Greeks, who have manipulated statistics, it is expected that these indicators be strictly monitored and enforced mandatory in the evaluation procedure of admission in the eurozone.

Therefore, in terms of opportunity, in our view, we now have a chance that we should exploit to the full. Or else there is the risk, for a long period of time, to remain on the outside. The future looms a united Europe but with two speeds: one for the elite and one for others. Based on cost-benefit analysis and the current state of convergence indicators to the requirements eurozone, we recommend Romania to be with European elite.

³³¹ 16 VI.

Advantages and Disadvantages of Romania's Transition to the Euro The changeover, however, would have a major advantage, not emphasized in the analyzes and reports we have consulted. What is it about. The competitiveness of Romania is always invoked, as a kind of fatality that could keep us on hold in terms of the euro currency. In our opinion, we are in a vicious circle. With african wages and western prices, work motivation is very low. And so, a natural reaction of a Romanian employee is born, of a somewhat passive resistance, performing this economically incorrect polarization for a European state. And this reaction manifests itself, synthetically, by a behaviour such as: you pay us poorly, we will not work well. To not work well is lack of production, meaning lack of receivables from which the employees will obviously be paid less and the cycle repeats. If the constant rise in prices is considered (inflation target failure is largely the responsibility of NBR) and the erosion of purchasing power of wages as a result of a controlled national currency depreciation, the circle becomes even "more vicious". Therefore, breaking the vicious circle can't be done other than by interrupting the chain that feeds it. And the

343 changeover to euro would be a good opportunity to break such a vicious circle.

It is easy to prove that it's about labor demotivation and about a relatively "subversive", undeclared action in 344 terms of using a weak currency. Over ten thousand doctors that work abroad and are well paid, are competitive. 345 Otherwise they would not be employed and wouldn't have kept their workplace. The same reasoning can also 346 be applied for engineers, construction workers, farmers, etc.. The changeover to euro would better reflect salary 347 levels in Romania compared to other EU countries and it would not be left to the discretion of local monetary 348 policy, but should be protected by a strong, stable and secure currency. A true financial flywheel would not 349 be so easily influenced by economic and political shocks. In the summer of 2012, political instability led to a 350 local currency depreciation in a fast pace. If we were in the eurozone, the monetary component wouldn't have 351 emphasized the economic effects of the political crisis in 2012. 352

Moreover, the changeover could be used in meeting, perhaps, the most synthetical, important and necessary indicator, designed to reveal the diminishing gap between living standards in the EU and Romania, the average wage. The motivation of Romania's EU accession was Europe standards alignment. So setting a certain target of reaching European average wage level, in parallel with the euro changeover, would break the vicious circle of so-called "lack of competitiveness".

A correct view on this issue would be the setting, for a time horizon of, say, 15 years, a goal to reach European average salary. An example in shown in Table ??o. 9. c) Other benefits of adopting the euro currency would allow a viable adaptation of enterprises to the average European salary by improving technologies, restructuring production, introduction to manufacturing innovative, competitive products. It will stimulate to remove from offering of products or services that "withstand" the market just due to the fact that labor is poorly paid. This would cure the economy and lead to Romania's alignment in competitiveness to European standards in terms of sustainable growth in GDP.

? European currency is a stable currency in relation to the RON, and the economy will assume this stability.
 In addition, the stability, specific to the euro, implies low inflation and low interest rates with beneficial effects
 on public finances.

? Establishing a single market and price transparency of products and services which, over time, should be homogenized.

? Elimination of currency exchange costs and simplification of commercial transactions.

371 17 ? Stimulation of travel

? Constitutes a positive element from the point of view of the citizen psychology as a belonging to a set of economic
and political values, euro currency representing, through its unity and symbolism, an element of togetherness
and unity.

? Facilitates international trade and intra-community transactions of resident firms in Romania

? Protects against economic shocks and increases in raw materials (oil, minerals, coal, metals).

³⁷⁷ 18 d) Disadvantages

? Abandonment of the independent monetary policy by the State which adopts the euro. This means it will not 378 be able to regulate the money supply in circulation and will not be able to change interest rates. Therefore, a 379 decrease in production or an increase in unemployment will not be "solved" through monetary methods, namely 380 printing money. ? The mechanism of an imposed monetary policy eliminates the possibility of countries to solve 381 382 their problem of internal imbalances, generating new imbalances, namely increases the budget deficit and public debt. ? As known, unofficially, the tone in the EU is given by Germans and French. In case of divergence 383 of fiscal and monetary policy, it is difficult, if not impossible, for another country that adopted the euro, and 384 especially eastern countries, to impose their views. Due to its economic strength, Romania will not have a 385 decisive role in monetary policy making of the eurozone. Often though, economic decisions taken abroad on 386 the basis of clear criteria, were better than internal solutions based on group interests. ? It is expected that, 387 as a first step, Romania faces some price increases. But the use of euro currency will allow faster development 388 389 of the Romanian economy that will allow wage growth, with direct implications on the purchasing power of 390 employees. Also, wage growth will lead to the additional collection, without increases in rate quotas, of taxes and 391 fees which will increase budgetary resources. Therefore, medium and long term, we expect an increase in living standards. Upward adjustment mechanism of prices and wages will allow harmonization of the cost structure 392 between Romania and the eurozone countries. 393

VII. Main Actions to Fulfill Regarding the Obligation of Adopting the Euro Assumed by the Accession Treaty

19 CONCLUSIONS AND PROPOSALS

³⁹⁵ Due to the fact that, so far, all all predictions of achieving this objective were missed, it is required a substantive ³⁹⁶ reform strategy for the transition to the single european currency. We believe that the following areas should be ³⁹⁷ considered:

398 ? Setting up an interdisciplinary committee with government, civic participation, from the National Bank of 399 Romania and the academic community.

400 ? Discussion and review of Romania's strategy for the euro.

? Establishment of a working group and development of a schedule of activities necessary to implement the
 strategy with deadlines and responsibilities. Failure to undertake tasks under this planning leads to exclusion of
 persons who have not fulfilled its staff duties.

404 ? Monitoring by the Romanian government of the stage of the activities necessary to achieve the strategic 405 objective of Romania's transition to the euro.

⁴⁰⁶ ? Initiate and support all actions necessary to achieve the objectives of nominal convergence with a special ⁴⁰⁷ attention on inflation and long term interest, with involvment of institutions whose responsibilities fits these ⁴⁰⁸ aspects. The inclusion in management contracts of measurable objectives regarding convergence would act as a ⁴⁰⁹ decisive step for the euro to enter the final phase.

? With the failure of 2015 for entry into the ERM, the closest term would be 2016 or 2017. Any extension of
 time will produce only losses for Romania.

412 VIII.

413 **19** Conclusions and Proposals

414 Adopting the euro should become a national priority.

⁴¹⁵ It is necessary to also review the substantive reform of the national strategy regarding Romania's transition ⁴¹⁶ to the euro.

417 Several scenarios for Romania's transition to the euro must be developed and the most convenien scenario 418 must be adopted, as a political decision, based on public debate. Strategy and scripts must be prepared for the 419 move to the single currency and not to demonstrate the necessity of a delay or inability of a changeover.

There have to be taken necessary measures to implement fiscal and monetary policies for the achievement of nominal convergence criteria.

In parallel, efforts should be made for economic recovery and for achieving real convergence. To this end, economic policies should be revised and private business should be encouraged.



Figure 1:

În drum spre euro

Proiecția principalilor indicatori macroeconomici de către Comisia Națională de Prognoză

Indicator	2007	2008	2009	2010	2011	2012	2013
Produsul Intern Brut							
mid. euro	121,1	133,8	158,4	182,9	208,01	233,12	258,7
Creștere reală anuală (%)	б	6,5	6,1	5,8	5,8	5,7	5,7
Exporturi (mid. euro)	29,4	34,8	40,7	47,4	54,8	63,3	72,8
Importuri (mid. euro)	50,9	58,5	66,2	74,4	82,7	91,5	100,8
Deficit cornercial FOB - CIF (mil. euro)	21,5	24	25,5	27	27,8	28,2	28
Deficitul de cont curent							
mid. euro	16,9	18,2	19,7	21,4	21,9	21,9	21,3
% din PIB	14	13,6	12,5	11,7	10,6	9,4	8,2
Inflația (sfârșitul anului) %	6,5	5,8	4,0	3,5	3,0	2,6	2,3
Cursul de schimb mediu lei/euro	3,34	3,55	3,45	3,38	3,33	3,30	3,25
Numărul mediu de salariați (mil. persoane)	4,7	4,8	4,9	5,05	5,1	5,2	5,28
Salariul mediu net (euro)	312	338	387	432	478	523	574
							SIRSA

Figure 2: 2 29

¹http://www.szon.hu/hungary-unlikely-to-join-euro-zone-before-2018says-pm-orban/1921914

²9 Mugur Isarescu, Romania: The Road to Euro. Presentation at the conference organized by the Academic Board of the University "Babes-Bolyai", 2004, updated release (March 2007) 10 Cristina Socol, Aura Niculescu, Dilemmas of Romania's accession to the EMU, Economic Publishing House, Bucharest, 200611 European Central Bank, how the euro became our currency, short history of the euro banknotes and coins, Frankfurt am Main, Germany, 2007.

³Project Management of Romania's Transition to Euro: Insights, Solutions, Cost-Benefit Analysis

⁴EBRD Strategy for Romania, approved by the EBRD Board of Directors in its meeting of 28 February 2012. ⁵http://en.wikipedia.org/wiki/Balassa%E2%80%93Samuelson_effect 14 Cristian Paun, International Finance Course, Bucarest, 2011.

⁶European Commission, Press release Alert Mechanism Report: Underpinning macroeconomic adjustment in the EU, Brussels, 28 November 2012,

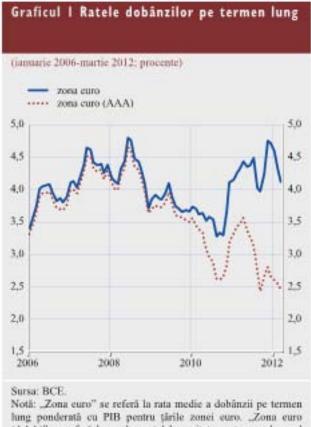
⁷In our view this process should be accelerated, meaning achievement of the European average salary should be made between 5 and maximum 7 years.

Republica Cehā	2010 2011 2012 2010 2011	Rata inflației IAPC ¹¹ 3,0 3,4 2,7 ¹⁰ 1,2	Tară cu deficit excesiv ²⁰ , ³⁹ Nu Da Da	Excedentul (+)/deficitul (-) bugetar** -3,1 -2,1	Datoria publică brută® 16,3	Monedă care participă la MCS II ²¹ Nu	Cursul de schimb față de euro* 0,0	Rata dobănzii pe termen lung ⁶ 6,0
Republica Cehā	2011 2012 2010	3,4 2,7%	Da			Nu	0,0	6.0
Republica Cehã	2012 2010	2,7%		-2,1				0,0
Republica Cehã	2010		Da ³⁵		16,3	Nu	0,0	5,4
		1.2		-1.9	17,6	Nu st	0,070	5,30
	2011		Da	-4,8	38,1	Nu	4,4	3,9
	AV.1.1	2,1	Da	-3,1	41,2	Nu	2,7	3,7
	2012	2,7%	Da ²⁾	-2,9	43,9	Nu ⁿ	-1,82)	3,5%
Letonia	2010	-1,2	Da	-8,2	44,7	Da	-0,4	10,3
	2011	4,2	Da	-3,5	42,6	Da	0,3	5,9
	2012	4,10	$Da^{(i)}$	-2,1	43,5	Du ³	1,13	5,8%
Lituania	2010	1,2	Da	-7,2	38,0	Da	0,0	5,6
	2011	4,1	Du	-5,5	38,5	Da	0,0	5,2
	2012	4,2%	Da^{2i}	-3,2	40,4	Dn^{ij}	0,020	5,2%
Ungaria	2010	4,7	Du	-4,2	81,4	Nu	1,7	7,3
	2011	3,9	Da	4,3	80,6	Nu	-1,4	7,6
	2012	4,310	Da^{2b}	-2,5	78,5	Nu ⁿ	-6,13	$8,0^{+0}$
Polonia	2010	2,7	Da	-7,8	54,8	Nu	7,7	5,8
	2011	3,9	Da	-5,1	56,3	Nu	-3,2	6,0
	2012	4,0**	Dan	-3,0	55,0	Nu ^{sy}	-2,410	5,8%
România	2010	6,1	Da	-6,8	30,5	Na	0,7	7,3
	2011	5,8	Da	-5,2	33,3	Nu	-0,6	7,3
	2012	4,6%	Da ³⁾	-2,8	34,6	Nu ³	-2,870	7,3%
Suedia	2010	1,9	Nu	0,3	39,4	Nu	10,2	2,9
	2011	1,4	Nu	0,3	38,4	Nu	5,3	2,6
	2012	1,310	Nu ²⁶	-0,3	35,6	Nu ^H	1,9%	2,2%
Valoarea de referință ⁷⁾		3,1%		-3,0%	60,0%			5,8%

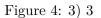
Sursa: Comisia Europeanà (Eurostat) și BCE. 1) Variații procentuale anuale medii. Datele pentru anul 2012 se referă la perioada aprilie 2011-martie 2012. 2) So referă la situația în care o țară a constituit obiectul unei docizii a Consiliului UE privind existența unui deficit excesiv pentru cel pațin

2) So referi la situsția în care o țară a constituit obiectul unei decizii a Consiliului UE privind existența unui deficit excesiv pentru cel puțin o parte a amilui.
 3) Informațiile pentru amil 2012 se referi la perioada anterioară datei-limită pentru transmiterea datelor statistice (30 aprilie 2012).
 4) Procent în PIB. Datele pentru anul 2012 provin din prognozele Comisici Europene – primăvara amilui 2012.
 5) Variații procentuale amale medii. Datele pentru anul 2012 sunt calculate ca variații procentuale ale mediei pentru perioada 1 ianuarie 2012-30 aprilie 2012, comparativ en media asului 2011. Valoarea pozitivă (negativă) indică aprecierea (deprecierea) în raport cu curo.
 6) Rate ale dobăniții amale medii. Datele pentru anul 2012 se referă la intervalul aprilie 2011-matric 2012.
 7) Valoarea de referință se referă la perioada aprilie 2011-matrie 2012 pentru inflația misturată prin IAPC și pentru ratele dobânzilee pe 3

Figure 3: Figure 3



lung ponderată cu PIB pentru țările zonei euro. "Zona euro (AAA)" se referă la randamentul la paritate pe termen lung al obligațiunilor emise de țările zonei euro cu rating AAA.



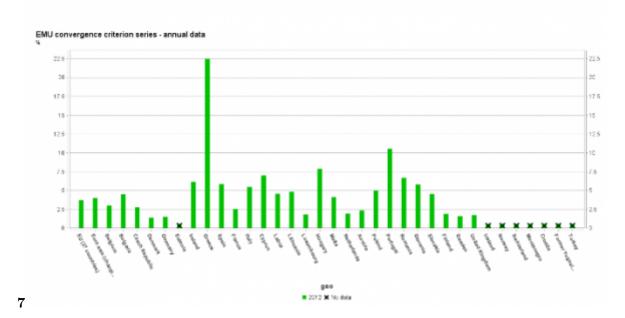


Figure 5: Figure 7

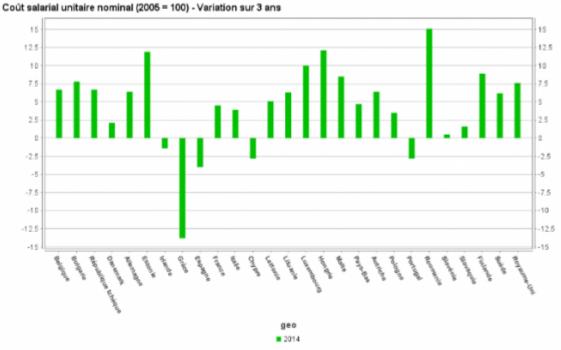
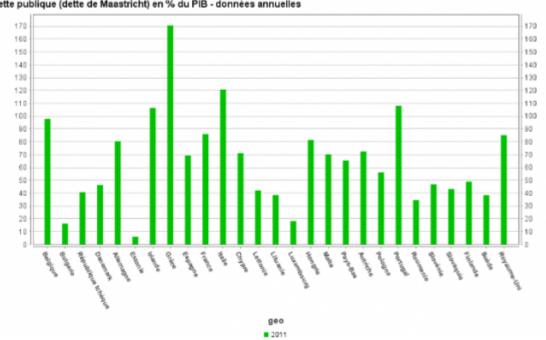


Figure 6:



Dette publique (dette de Maastricht) en % du PIB - données annuelles

Figure 7:

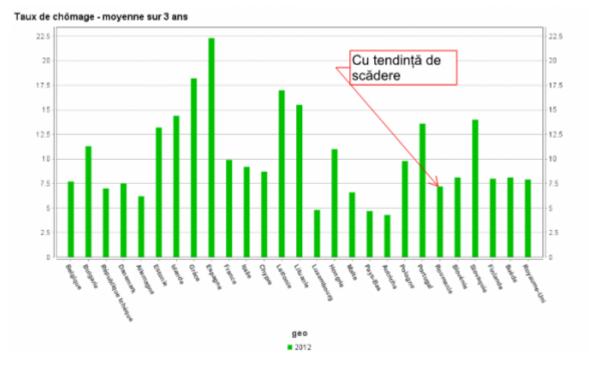


Figure 8:

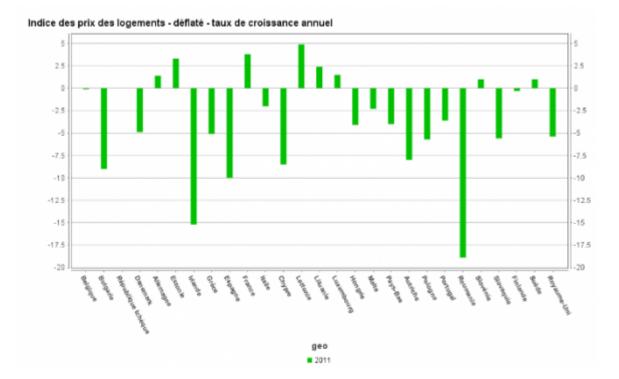


Figure 9:

Criteria	Nominal convergence criteria	Values according to the Maastricht criteria	RomanRoomanRoomanRoomanIna critera 2009 2010 2011 2012 it or
	Cinteria		2009 2010 2011 2012 It of meetsnot the
1. Price stabil- ity	Inflation rate annual % average	< 1,5 pp. above the average of the three members (1,6% most performant EU reference level)	$5,6^*$ $6,1^*$ $5,8^*$ $3,4^*$ No
2. The situa-	Budget deficit from	under 3% under 60%	-9* Yes Yes
tion of public fi- nances 3. The	the GDP % Public debt from the GDP %		$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
participatin to		+/-15%	+1,6/-+10,32+3,27/+10,04Yes
the European Monetary exchange System	(RON/EURO), the average for 2 years apprecia- tion/depreciation percentage compared to		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
rate mechanim			
4. Convergec e	Long-term interes rates (% per year)	<2 pp. above the aver- age of the three (5,3%) to price stability most performant EU mem- bers according	9,7* 7,34* 7,29* 6,68* No

1

Eurostat data

[Note: ** Calculated by the authors based on the data from The National Statistics Institute of Romania Source: Graph prepared by the authors based on data taken from Eurostat Figure 1]

Figure 10: Table 1 :

8
6
% 4
2
0
-2 EU BE BG CZ DK DE EE IE EL ES FR IT CY LV LT LU HU MT NL AT PL PT RO SI SK FI SE UK Country Inflation rate 2010 Inflation rate 2011 Inflation rate 2012

Figure 11: Inflation rate UE country 2010 -2012

YEATRhree most perfor- mant EU coun- tries	Interest rate annual value %	Annual average interest rates of of the three most performant EU countries %	Accepte ex- ceed- ing per- cent- age %	d The % maximum value of interest rate Romania for accepted	Real annual rate % interest value of Roma- nia's	Conclusions
SK 2010 NL DE IE	$0,7^{*}$ $0,9^{*}$ $1,2^{*}$ $1,2^{*}$	0,9333	1,5**	2,4333	6,1*	Does not meet the criteria of convergence Does not
$2011 \mathrm{SE} \mathrm{CZ}$	1,4* 2,1*	1,5666	1,5**	3,0666	5,8*	meet the criteria of convergence
EL 2012 SE IE	1* 0,9* 1,9*	1,2666	1,5**	2,7666	3,4*	Does not meet the criteria of convergence

[Note: Source : Tabel calculated by the authors based on data taken from different sources. *Eurostat data **According to convergence criteria]

Figure 12: Table 2 :

3

	EUR
	average
Data	(RON/EUR)
	CURSA_EURM
2012	$4,\!4560$
2011	4,2379
2010	4,2099
2009	4,2373
2008	$3,\!6827$
2007	$3,\!3373$
2006	3,5245
2005	3,6234
Source : BNR	

*Annual average exchange rate is calculated as a simple aritmetic average of the monthly average exchange rates

Figure 13: Table 3 :

 $\mathbf{4}$

	Average of the last 2 years	Average annual ex- change rate	Ron/Eur ex-		Maximum deviation from the annual average	Minimum deviation from the annual average	Maximum deviation from the annual average	Minimum deviation from the annual average	Concl usios
Year	Ron/Eur	Ron/Eur	Ron/Eur	Ron/Eur	of last 2 years	of last 2 years	of last 2 years $\%$	of last 2 years $\%$	
2012	4,2239	4,4560	4,6481	4,3219	0,4242	0,098	10,0429	2,3201	Meets the criteria
2011	4,22359 58	4,2379	4,362	4,0735	0,1384	-0,1501	3,2769	-3,5537	Meets the
2010	3,95999 58	4,2099	4,3688	4,0653	0,4088	0,1053	10,3233	2,6592	criteria Meets the criteria

Figure 14: Table 4 :

geo\time	2009	2010	2011	2012
EU27	$4,\!13$	3,82	$4,\!31$	3,74
BE	3,9	3,46	4,23	3
BG	7,22	6,01	5,36	4,5
CZ	4,84	3,88	3,71	2,78
DK	$3,\!59$	2,93	2,73	1,4
DE	3,22	2,74	$2,\!61$	1,5
IE	$5,\!23$	5,74	$9,\!6$	$6,\!17$
EL	$5,\!17$	9,09	15,75	22,5
\mathbf{ES}	$3,\!98$	4,25	$5,\!44$	$5,\!85$
\mathbf{FR}	$3,\!65$	$3,\!12$	3,32	2,54
IT	$4,\!31$	4,04	$5,\!42$	$5,\!49$
CY	$4,\!6$	$4,\!6$	$5,\!79$	7
LV	$12,\!36$	$10,\!34$	$5,\!91$	$4,\!57$
LT	14	$5,\!57$	$5,\!16$	4,83
LU	4,23	$3,\!17$	$2,\!92$	1,82
HU	$9,\!12$	$7,\!28$	$7,\!64$	$7,\!89$
MT	$4,\!54$	$4,\!19$	$4,\!49$	$4,\!13$
NL	$3,\!69$	2,99	2,99	$1,\!93$
AT	$3,\!94$	$3,\!23$	$3,\!32$	$2,\!37$
PL	$6,\!12$	5,78	$5,\!96$	5
\mathbf{PT}	4,21	$5,\!4$	$10,\!24$	$10,\!55$
RO	$9,\!69$	$7,\!34$	$7,\!29$	$6,\!68$
\mathbf{SI}	$4,\!38$	3,83	4,97	$5,\!81$

[Note: Sursa: date Eurostat Source: Chart prepared by authors based on data taken from the Eurostat website Figure 4]

Figure 15: Table 5 :

 $\begin{array}{c} 25 \\ {\rm Value10} \\ \% & 15 \\ 20 \\ 5 \end{array}$

0 EU2BEBGCZDKDEIE

EL ES FRIT CYLV LT LU

Country

long-term interest rates 2009 long-term interest rates 2010 long-term interest rates 2011

long-term

Figure 16: -term interest rate 2009 -2012 UE

$\mathbf{5}$

YearsCoun	tr‡yong-term interest rate %	Annual average value of the three best	perfor Aning al coun-average tries long- % term interest rates	for The Ro- ac- ma- cept- nia able % per- cent- age of max- i-	excess Maximu for per- the cent- av- age of er- long- age term value <2%	minterestmeeti ac- the cepted cri- by te- Ro- ria ma- nia for	Dgerflæonclusi
DE	3,22*			mum			
2009 SE	3,22 3,25*	$3,\!2767$	9,69*	2	5,2767	2	$4,4133\mathrm{Does}$
		0,2101	0,00	-	0,2101		meet crit
UK	3,36*						
DE	2,74*						
2010 SE	2,89*	2,8533	7,34*	2	4,8533	:	2,4867 Does meet crit
DK	2,93*						
DE	2,61*						
2011 SE	2,61*	2,6500	7,29*	2	4,6500		2,6400 Does meet crit
DK	2,73*						
DK	$1,4^{*}$						
2012 DE	$1,5^{*}$	$1,\!4967$	$6,\!68^*$	2	$3,\!4967$:	3,1833 Does meet crit
SE	1,59*						

[Note: * Eurostat data Source : Table made by the authorsSource : Chart prepared by authors based on data taken from the Eurostat website.]

Figure 17: Table 5 :

6

currency\time 2003 2004		202502607	2008	2002
US dollar	1,1312 1,2439 1,244	41 1,2556 1,3705	1,4708 1,3948 1,32	$57 \ 1,392 \ 1,2848 \ 1$
Bulgarian lev	$1,949 \ 1,9533 \ 1,9558$	$8 \ 1,9558 \ 1,9558 \ 1$	$,9558\ 1,9558\ 1,955$	$8 \ 1,9558 \ 1,9558 \ 1$
Latvian lats	0,6407 0,6652 0,696	62 0,6962 0,7001	0,7027 0,7057 0,70	87 0,7063 0,6973
Lithuanian litas 3,4527 3,4529 3,452	8 3,4528 3,4528 3,45	28 3,4528 3,4528	3,4528 3,4528 3,45	528
Polish zloty	4,3996 4,5268 4,023	3 3,8959 3,7837 3	3,5121 4,3276 3,994	$7 \ 4,1206 \ 4,1847 \ 4$
Romanian leu 3,7551 4,051 3,6209 3	,5258 3,3353 3,6826	4,2399 4,2122 4,2	$2391 \ 4,4593 \ 4,4899$	
Turkish lira	1,6949 $1,7771$ $1,677$	71 1,809 1,7865 1	,9064 2,1631 1,996	$5\ 2,3378\ 2,3135\ 2$
Source : data taken from the Eurost	at website 16			
15 In this paper we only analyzed no	ominal convergence	issues and only	1_2&rankNar	$me4=TIME_1_0$
tangentially have made references to	real convergence.		&sortR=ASC	
			1_FIRST&pp	orRK=FIRST&pp
			ASC&sortC =	ASC

1_FIRST&rStp=&cStp=&rDC tnes=false&empty=false&wai=

N&cfo=%23%23%23.%23%23%

054902INDICATORS,OBS_FLAG;DS-054902UNIT,NAC;&rankName1=OTP_1_2_-1_2&rankName2=INDICATORS_1_2_-1_2&rankName3=UNIT_1_2_-

 $[Note: 16 \ http://appsso.eurostat.ec.europa.eu/nui/show.do?query=BOOKMAR \ K_DS-054902_QID_-154EECFD_UID_-3F171EB0&layout=TIME,C,X,0;CURRENCY,L,Y,0;OTP,L,Z,0;UNIT,L,Z,1;INDICATORS,C,Z,2;&zSelection=DS-054902OTP,AVG;DS17 17 \ http://epp.eurostat.ec.europa.eu/tgm/table.]$

Figure 18: Table 6 :

$\mathbf{7}$

Year 2014												
$geo \ time$	2001 2002 2003	3 2004 2	2005-20	006 200	7 2008	2009 2	010 20	11 201	2			
EU (27 countries)	5	$4,\!92$	4,23	$4,\!38$	3,7	4,03	4,6	4,5	4,1	3,8	4,3	3,7
Euro area (changing												
composition)	5	$4,\!91$	$4,\!14$	$4,\!12$	$3,\!42$	$3,\!84$	4,3	4,3	3,8	3,6	4,4	4,0
Bulgaria	:	:	$6,\!45$	$5,\!36$	$3,\!87$	$4,\!18$	4,5	$5,\!4$	7,2	6	5,4	4,5
Latvia	$7,\!57$	$5,\!41$	4,9	$4,\!86$	$3,\!88$	$4,\!13$	5,3	6,4	12	10	$5,\!9$	4,5
Lithuania	8,15	$6,\!06$	5,32	4,5	3,7	$4,\!08$	4,6	5,6	14	5,6	5,2	4,8
Poland	$10,\!68$	$7,\!36$	5,78	6,9	5,22	5,23	5,5	6,1	6,1	5,8	6	5
Romania	:	:	:	:	:	$7,\!23$	7,1	7,7	9,7	7,3	7,3	6,6

[Note: \bigcirc 2014 Global Journals Inc. (US) () B Source : Chart prepared by authors based on data taken from the Eurostat website Figure 8]

Figure 19: Table 7 :

8

	Criteria	Meeting	Meeting
		the criteria	(percent
	1	2	3
1.	Price stability	No	77,1%.
2.	Public finance sit-	Yes	141%.
	uation;		
3. mechanism of the European	Monetary System Participation in the exchange rate	Yes	345%.

Figure 20: Table 8 :

9

2015/2016	2020	2025
50% of the average European salary	75% of the average European sa	lary 90% of the average European sala
This timeframe 23		

Figure 21: Table 9 :

- 423 Project Management of Romania's Transition to Euro: Insights, Solutions, Cost-Benefit Analysis
- 425 [P?un ()], Cristian P?un. International finance course 2011.
- 427 [Socol and Niculescu] Dilemmas of Romania's accession to EMU, Cristina Socol, Aura Niculescu.
- 428 [European Commission, the Maastricht Treaty] European Commission, the Maastricht Treaty,
- 429 [European Commission, the Maastricht Treaty, Macroeconomic Imbalance Procedure Scoreboard Headline Indicators Statistical in
- 'European Commission, the Maastricht Treaty, Macroeconomic Imbalance Procedure Scoreboard Headline
 Indicators'. Statistical information (Eurostat -February 2012) Commission européenne, (Luxembourg) 30
- 432 January 2012.
- [European Central and Bank ()] How the euro became our currency, short history of the euro banknotes and
 coins, European Central , Bank . 2007. Frankfurt am Main, Germania.

- $1_{438} \qquad 1_FIRST @pprRK = FIRST @pprSO = CUSTOM @ppcFIRST @ppcSO = ASC @sortC = ASC _1_FIRST @rStp = &c \\ 1_FIRST @rStp = &c \\ 1_FI$
- $\begin{array}{c} \underline{\ } \underline{\$
- 440 OLLING&lang=EN&cfo=%23%23%23.%23%23%23%23%23%23%23%23,054902.
- 441 [Press release Alert Mechanism Report: Underpinning macroeconomic adjustment in the EU (2012)] Press re-
- lease Alert Mechanism Report: Underpinning macroeconomic adjustment in the EU, 28 November 2012.
 Brussels.
- ⁴⁴⁴ [Is?rescu (2004)] 'Romania: The path to euro, Presentation at the conference organized by the Academic Board
 ⁴⁴⁵ of the University'. Mugur Is?rescu . *Babes-Bolyai* 2004. March 2007. (updated version)
- [Strategy for Romania, approved by EBRD Board of Directors in its meeting of 28th of (2012)] Strategy for
 Romania, approved by EBRD Board of Directors in its meeting of 28th of, February 2012. EBRD
- [Singer (2006)] Vice-Governor, Czech National Bank, Impacts expected after the adoption of the euro: dangers
 and opportunities Introduction of the EURO seminar Praque, Miroslav Singer . 2nd October 2006.