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## **THE IMPACT OF BREXIT ON THE MEMBER STATES' ABILITY TO BUILD BLOCKING COALITIONS IN THE COUNCIL**

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### **Abstract:**

The paper presents the results of the research on the impact of the United Kingdom's withdrawal from the European Union on Member States' ability to build small, minimal blocking coalitions in the Council. To this end, the theory of voting games was used, but departing from the assumption that the creation of each possible coalition of players is equally likely. It was also assumed that they do not necessarily make decisions independently of each other, and the analysis focuses on the ability to build minimal blocking coalitions.

The conducted analysis indicates that after Brexit the ability of the Council members to form small minimally blocking coalitions will have changed significantly. The UK's withdrawal from the EU will strengthen the position of the other five member states with the largest population in the Council, in particular Germany and France. The position of the five most-populated member states will determine the scope of a possible compromise in the Council to an even greater extent.

The presented research was financed by the National Science Centre, as part of project No. UMO-2016/23/D/HS5/00408 (SONATA 12) entitled *The Impact of Brexit and Unconditional Introduction of the "Double Majority" Voting System on the Decision-Making Process in the Council of the European Union*.

**Key words:** Brexit, blocking coalitions, Council of the European Union.

## Introduction.

In the light of previous research, there is no doubt that decisions in the Council are worked out primarily through consensual negotiations<sup>1</sup> and Member States do not generally begin talks with a cold calculation of the possibility of building a blocking coalition<sup>2</sup>. Carried out rather *implicitly* than *explicitly*, voting boils down to the formal adoption of earlier arrangements. The culture of consensus is an important part of the political culture in the Council<sup>3</sup> and, after the entry into force of the provisions of the Treaty of Lisbon, changes taking part within it can be observed. Raising an objection by those members of the Council that are unable to build a blocking coalition is considered exaggerated action. An informal rule operates, according to which all member states should defend the adopted common position in Council negotiations with the European Parliament.<sup>4</sup>

The decisions taken in the Council are relatively rarely contested by member states, whether by abstaining from voting, or by raising objections.<sup>5</sup> However, legislative projects in which the positions of member states are strongly polarized are also proceeded upon. Although such cases are not frequent, they concern issues defined as being of significance for a "vital national interest", or important for party rivalry in the domestic arena. At the same time, they arouse strong media interest and focus the electorate's attention.

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F.M. Häge, "Coalition Building and Consensus in the Council of the European Union", *British Journal of Political Science* vol.43, no.3 (2013), pp.481-504, at <<https://doi.org/10.1017/S0007123412000439>>; D. Heisenberg, "The Institution of 'Consensus' in The European Union: Formal Versus Informal Decision-Making in The Council", *European Journal of Political Research*, vol.44, no.1 (2005), pp.65-90, at <<https://doi.org/10.1111/j.1475-6765.2005.00219.x>>.

<sup>2</sup> M. Kleinowski, *Sila państw w Unii Europejskiej. Pozaformalne wyznaczniki siły państw Radzie UE i Radzie Europejskiej*, Toruń 2014, p.139-185.

<sup>3</sup> J. Lewis, "The Janus Face of Brussels. Socialization and Everyday Decision Making in the European Union", in J.T. Checkel (ed.), *International Institutions and Socialization in Europe*, Cambridge 2007, pp.137-170; F.M. Häge, *op.cit.*, pp. 481-504; J. Clark, A. Jones, "Telling Stories about Politics: Europeanization and the EU's Council Working Groups", *Journal of Common Market Studies*, vol.49, no.2 (2011), pp.341-366, at <<https://doi.org/10.1111/j.1468-5965.2010.02143.x>>; M. Kleinowski, *Sila państw...*, p.159.

<sup>4</sup> S. Novak, *Qualified majority voting from the Single European Act to present day: an unexpected permanence*, Studies and Research 88, p.19, at <[http://institutdelors.eu/wp-content/uploads/2018/01/etud88\\_qualifiedmajority-voting-novak.pdf](http://institutdelors.eu/wp-content/uploads/2018/01/etud88_qualifiedmajority-voting-novak.pdf)>.

<sup>5</sup> F. Hayes-Renshaw, W. van Aken and H. Wallace, "When and Why the EU Council of Ministers Votes Explicitly", *Journal of Common Market Studies*, vol.44, no.1 (2006), pp.161-194, at <<https://doi.org/10.1111/j.1468-5965.2006.00618.x>>; M. Kleinowski, "Consensual Negotiations or Voting - Contestation of Legal Acts in the Council", *European Studies*, no.4 (2012), pp.27-50, at <[https://www.ce.uw.edu.pl/pliki/pw/marcin\\_kleinowski.pdf](https://www.ce.uw.edu.pl/pliki/pw/marcin_kleinowski.pdf)>; S. Hagemann, J. de Clerck-Sachsse, "Old Rules, New Game Decision-Making in the Council of Ministers after the 2004 Enlargement", Center for European Policy Studies Special Report (2007), at <http://aei.pitt.edu/11754/1/1470.pdf>; M. Mattila, "Contested decisions: Empirical analysis of voting in the European Union Council of Ministers", *European Journal of Political Research*, vol.43, no.1 (2004), pp.29-50, at <<https://doi.org/10.1111/j.1475-6765.2004.00144.x>>; Idem, "Voting and Coalitions in the Council after the Enlargement", in: D. Naurin, H. Wallace (eds.) *Unveiling the Council of the European Union: Games Governments Play in Brussels*, Basingstoke 2008, p.23-35.

This may explain why, in the course of carrying out institutional reforms in the European Union (hereinafter referred to as the EU), member states evaluated the system of weighing votes in the Council from the perspective of winning possible allies and building coalitions on specific issues, which could be the subject of decision-making.<sup>6</sup> Sozański points out that while negotiating the provisions of the Treaty establishing a Constitution for Europe, member states were not so much interested in the value of mathematical indices of voting power as in the ability to build blocking coalitions, consisting of a relatively small number of members.<sup>7</sup> In view of the activity of facilitators in the decision-making process in the EU, such as the European Commission, the rotating presidency, and the President of the European Council, it is very difficult to build a blocking coalition consisting of a large number of states. The research presented by Thomson indicates that even in the case of legislative proposals that are very controversial in the Council, one can rarely count on the establishment of a blocking coalition of 10-12 countries.<sup>8</sup>

Decisions in the EU are arrived at primarily through inter-institutional negotiations conducted in trilogues.<sup>9</sup> However, the Council begins negotiations in a trilogue, if there is a majority in the institution sufficient to adopt a common position.<sup>10</sup> This suggests that the creation of a blocking coalition in the Council may affect not only the position of this institution in the legislative process, but also the outcome of the decision-making process.

Based on the analysis of all legislative projects on environmental policy proceeded upon in the Council between the first round of the Eastern enlargement and the entry into force of the Treaty of Lisbon, Warntjen shows the existence of a positive correlation between the probability of success of a member state's requests and the number of votes backing

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<sup>6</sup> A. Moberg, "Is the Double Majority Really Double? The Second Round in the Debate of the Voting Rules in the EU Constitutional Treaty", Working paper, no.290, Real Instituto Elcano 2007, pp.64-89.

<sup>7</sup> T. Sozański, *The Conception of Blocking Power as a Key to the Understanding of the History of Designing Voting Systems for the EU Council*, "Decyzje" 2014, no.22, p.24, at <<http://dx.doi.org/10.7206/DEC.1733-0092.32>>.

<sup>8</sup> Thomson's analysis includes 125 controversial legislative proposals, proceeded upon in the years 1996-2009. R. Thomson, *Resolving Controversy in the European Union: Legislative Decision-Making before and after Enlargement*, Cambridge 2011.

<sup>9</sup> G.J. Brandsma, "Co-decision after Lisbon: The politics of informal trilogues in European Union lawmaking", *European Union Politics*, vol.16, no.2 (2015), pp.300-319, at <<https://doi.org/10.1177/1465116515584497>>; E. Bressanelli, Ch. Koop and Ch. Reh, "The impact of informalisation: Early agreements and voting cohesion in the European Parliament", *European Union Politics*, vol.17, no.1 (2016), pp.91-113, at <<https://doi.org/10.1177/1465116515608704>>; H. Farrell, A. Héritier, *The Invisible Transformation of Codecision: Problems of Democratic Legitimacy*, SIEPS Report No.7, Stockholm 2003, at <[http://www.sieps.se/en/publications/2003/the-invisible-transformation-of-codecision-problems-of-democratic-legitimacy-20037/Sieps\\_2003\\_7.pdf?>](http://www.sieps.se/en/publications/2003/the-invisible-transformation-of-codecision-problems-of-democratic-legitimacy-20037/Sieps_2003_7.pdf?>).

<sup>10</sup> Ch. Roederer-Rynning, J. Greenwood, "The culture of trilogues", *Journal of European Public Policy*, vol.22, no.8 (2015), pp.1148-1165, at <<https://doi.org/10.1080/13501763.2014.992934>>.

a proposal.<sup>11</sup> Requests for derogations, extensions, or lower standards more than twice as often ended in at least partial success, if they were filed by those member states that were able to form a blocking coalition in the Council. At the same time, obtaining partial concessions was definitely more likely than achieving full success.<sup>12</sup> The results of Warntjen's research indicate that, for member states, a blocking coalition is a tool for forcing further discussion in the Council and strengthening their own position in negotiations conducted in order to reach a compromise.

One of the most important arguments for introducing the system of the so-called double majority of weighing votes in the Council and, thus, the abandonment of the Nice system, was the relative ease of adapting the new way of weighing votes in the event of accession of other states to the EU. However, when designing the double majority system, it was not anticipated that one of the largest member states could leave the EU. With a population of over 65.8 million people (12.85% of the total EU population), the United Kingdom ranks, in this respect, third among the 28 EU countries. Consequently, Brexit may be presumed to change the ability of member states to form winning and blocking coalitions in the Council. Thus, a question arises as to how the UK's withdrawal from the EU will affect member state's ability to build a blocking coalitions in this institution.

### **Notation, definitions and methods**

Solving the posed research problem requires finding answers to at least two research questions:

1. How will member state's ability to build minimal blocking coalitions in the Council change as a result of Brexit ?
2. How will the ability of Council members to develop minimal winning coalitions change as a result of Brexit in the case when a European Commission's initiative will not be supported by two of the five Member States with the largest populations

In order to obtain answers to the posed research questions, the theory of cooperative games was applied and, in particular, proper simple games, also called voting games, were

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<sup>11</sup> A. Warntjen, *Do votes matter? Voting weights and the success probability of member state requests in the Council of the European Union*, *Journal of European Integration*, vol.39, no.6 (2017), p.673-687, at <<https://doi.org/10.1080/07036337.2017.1332057>>.

<sup>12</sup> In the case when the requests were put forward by member states that did not form a blocking coalition in the Council, 37% of such proposals resulted in at least partial success. In turn, 76% of requests put forward by a blocking minority were successful. *Ibid.*, pp.680-683.

used<sup>13</sup>. Simple games are sometimes defined as<sup>14</sup> "a conflict in which the only objective is winning and the only rule is an algorithm to decide which coalitions of players are winning"<sup>15</sup>. It should be emphasized that the theory of cooperative games does not deal with such problems as the way in which players make their own choices within a coalition, or the way a coalition is formed, and thus the players' reaching an agreement to undertake joint action. Voting games, are often used to model voting in decision-making bodies and to measure players' voting power.

For a simple game in which  $n$  (voting) players take part,  $N = \{i_1, i_2, \dots, i_n\}$  is a non-empty, finite set of  $S$  players, which is a subset of the set  $N$ . Each subset  $S \subseteq N$  is referred to as a coalition - including also the empty set  $\emptyset$  which is a coalition that does not contain any player. Like in Felsenthal and Machover, the term coalition is understood as any possible set of players.<sup>16</sup> The number of players in a finite set, e.g.  $S$  is marked as  $|S|$ . Simple games in which  $n = |S| \geq 3$  are called  $n$ -person simple games. In simple games, for each set  $S$  the characteristic function takes only one of two values  $v(S) = \{0, 1\}$ .  $\mathcal{W}$  stands for the set of all winning coalitions. The set  $S$  is the winning coalition  $S \in \mathcal{W}$  when and only when  $v(S) = 1$ . If  $v(S) = 0$ , then and only then  $S$  is not the winning coalition  $S \notin \mathcal{W}$ . A winning coalition is a set of players which, as part of the game, is sufficient to adopt, impose a decision on all players.

The simple game  $G$  is such a pair  $(N, \mathcal{W})$  that<sup>17</sup>:

- $\emptyset \notin \mathcal{W}$ , an empty set, in which there are no players, cannot be a winning coalition;
- $N \in \mathcal{W}$ , a set of all players is a winning coalition;
- If  $S \in \mathcal{W}$  and  $S \subseteq T$ , then  $T \in \mathcal{W}$  - if the set  $S$  is a winning coalition and the set  $T$  contains all players from the sets  $S$ , then the set  $T$  is also a winning coalition.

Player  $i$  is a swing member of the coalition  $S$ , if  $S \in \mathcal{W}$  and  $S \setminus \{i\} \notin \mathcal{W}$ , and thus when after leaving the coalition  $S$  by player  $i$ , it ceases to be a winning coalition, and player  $i$  has the

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<sup>13</sup> G. Owen, *Game Theory 3rd ed.*, London 1995, p.218.

<sup>14</sup> The definition quoted above is often attributed to von Neumann and Morgenstern, and their fundamental work *Theory of Games and Economic Behavior* is indicated as its source. In their monograph, however, this definition was not directly written in this form.

<sup>15</sup> See: J.M. Bilbao, J.R. Fernandez, N. Jimenez, J.J. Lopez, "Voting power in the European Union enlargement", *European Journal of Operational Research*, vol.143, no.1 (2002), p.181, at <[https://doi.org/10.1016/S0377-2217\(01\)00334-4](https://doi.org/10.1016/S0377-2217(01)00334-4)>; A. Belke, B. Styczynska, *The Allocation of Power in the Enlarged ECB Governing Council: An Assessment of the ECB Rotation Model*, Brussels 2004, p.4.

<sup>16</sup> D.S. Felsenthal, M. Machover, *The measurement of voting power: theory and practice. Problems and paradoxes*, Cheltenham 1998, pp.16-17.

<sup>17</sup> J.C. Harsanyi, R. Selten, *A General Theory of Equilibrium Selection in Games*, Cambridge 1988, pp.3-4.

so-called negative *swing*, or the ability to transform the winning coalition  $S \in \mathcal{W}$  into the non-winning coalition  $S \setminus \{i\} \notin \mathcal{W}$ .

The set  $\mathcal{MW}$  consists of all the subsets  $N$  being minimal winning coalitions. Von Neuman and Morgenstern proposed the concept of a minimal winning coalition, defining it as "a set of these elements of  $S \in \mathcal{W}$  of which no proper subset<sup>18</sup> belongs to  $\mathcal{W}$ "<sup>19</sup>. Deegan and Packel defined a minimal winning coalition in the following way:

$$\mathcal{MW} = \{ S \in \mathcal{W} \mid \forall \text{ of the non-empty } T \subseteq S \wedge S \setminus T \notin \mathcal{W} \}^{20}.$$

The above definitions show that for every coalition  $S \in \mathcal{W}$ , the set  $S$  is called a minimal winning coalition, if and only if  $S \setminus i \notin \mathcal{W}$  for each  $i \in S$ . Hence, in a minimal winning coalition, each player is a swing member of the coalition.

The  $S$  set for which  $v(S) = 0$  can be a losing or blocking coalition.  $\mathcal{B}$  is a set of blocking coalitions for  $N$ .  $S \in \mathcal{B}$ , if  $S \notin \mathcal{W}$  and  $N \setminus S \notin \mathcal{W}$ . The set  $S$  is the minimal blocking coalition  $S \in \mathcal{MB}$ , if no proper subset of  $S$  belongs to  $\mathcal{B}$ , hence:

$$\mathcal{MB} = \{ S \in \mathcal{B} \mid \forall \text{ of the non-empty } T \subseteq S \wedge S \setminus T \notin \mathcal{B} \}.$$

$\mathcal{L}$  is a family of subsets of the set  $N$  called losing coalitions. The set  $S$  is a losing coalition, if  $N \setminus S \in \mathcal{W}$ . Each proper subset of the set  $S \in \mathcal{L}$  is a losing coalition.

Weighted voting games are a subclass of voting games. We define the decision-making threshold  $q$  as the minimum, required number of votes that a coalition of players has to gather in order for the initiative proceeded upon to be accepted. By  $w_i$  we mean the weight of player  $i$ 's vote. The game  $(N, w_{i \in N}, q)$  is called a weighted voting game, if  $\sum_{i \in N} w_i \geq q$  and  $\forall i \in N w_i > 0$ , and the characteristic function  $v(S)$  takes the values:

$$v(S) = \begin{cases} 1 & \text{when } \sum_{i \in S} w_i \geq q \\ 0 & \text{when } \sum_{i \in S} w_i < q \end{cases}$$

The presented research uses an original variant of voting games, which is distinguished by two characteristic features. First of all, the analysis is focused on the players' ability to build minimal blocking coalitions, and thus on the structure of blocking for voting games. It makes it possible to determine how a change in the vote weighing system in the

<sup>18</sup> Set  $A$  is a proper subset of the superset  $B$ , if it consists only of elements included in the set  $B$  and, at the same time, does not contain at least one element from the set  $A$ .

<sup>19</sup> J. von Neumann, O. Morgenstern, *Theory of Games and Economic Behavior*, Princeton 1944, p.430.

<sup>20</sup> J. Deegan, E.W. Packel, "A New Index of Power for Simple n-Person Games", *International Journal of Game Theory*, vol.7, no.2 (1979), p.114, at <https://doi.org/10.1007/BF01753239>.

Council affects the relative ability of individual states to create such coalitions, taking into account the decision-making threshold and the distribution of voting weights. From the perspective of individual players, it makes it possible to identify key partners needed to set up blocking coalitions. As a consequence, it may be an introduction to a qualitative analysis consisting in the assessment of the feasibility of establishing certain coalitions in the Council, by comparing the position taken by a given government in matters relevant to it with the preferences of the key partners needed to set up a blocking or winning coalition. Secondly, there is a departure from the assumption that the formation of each coalition of players is equally likely and that they independently decide on how to vote. As a consequence, to some extent, it makes it possible to take into account in the analysis the role that the agenda setters (and, in the subject of the analysis, the European Commission in particular) play in the decision-making process. It also makes it possible to perform the analysis assuming that within the voting body there are groups of players with different preferences as regards a given issue. In the presented studies, an assumption was made that at least 55% of the Council's members, including the majority of EU countries with a population of over 30 million, would be ready to support the European Commission's proposal.

Even in the case of draft legislation that raises great controversy in the EU, the chances of creating a blocking coalition consisting of 13 countries in the Council are very small. This is indicated by Thomson's research on legislative initiatives, in which strong divisions inside the Council were revealed<sup>21</sup>, as well as the experience from proceeding upon the Directive 2018/957 concerning the posting of workers in the framework of the provision of services, and the legislative package on EU-ETS reform.<sup>22</sup>

Cases in which member states are unable to adopt a common position in the Council are extremely rare. Of the 72 draft legal acts proceeded upon under the co-decision/ordinary legislative procedure, which were withdrawn by the European Commission between July 1, 2009 and December 31, 2018,<sup>23</sup> only in the case of 10 it was not possible to reach political agreement or adopt a common position in the Council, including in one case the Council considered the initiative as a violation of its exclusive competence.

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<sup>21</sup> Thomson, *op.cit.*

<sup>22</sup> In the case of the Directive 2018/957 concerning the posting of workers in the framework of the provision of services, 11 countries were ready to raise their objections. On the other hand, in the case of the EU-ETS reform, at the session of the Environment Council on 28 February 2017, 11 and 9 member states, respectively, were ready to vote against the adoption of the first and the second presidency proposals to modify the general approach. In the final vote in the Council, not all of the above-mentioned countries decided to express their position by raising objections, or by abstaining from voting.

<sup>23</sup> The oldest of the indicated 72 legislative initiatives was officially presented by the European Commission in December 2005.

In order to calculate the number of minimal blocking and minimal winning coalitions possible to be created, a research tool in the form of the POWERGEN 5.0 program was used for the selected voting games. It contains a feature that makes it possible to prepare detailed coalition statistics for individual players. It also makes it possible to specify for a blocking minority the minimum number of players necessary to create it. None of the commonly available programs has such a function, and it is important in the analysis of the vote weighing system in the Council in the case of adopting decisions by a qualified majority. After Brexit, in the so-called double majority system, a blocking coalition will consist of at least four members of the Council.<sup>24</sup> In addition, the POWERGEN 5.0 program makes it possible to limit the analysis to only part of all possible combinations of players (coalitions), and thus to depart from the assumption that the creation of any coalition is equally likely.

It should be borne in mind that for the purpose of qualified majority voting in the Council, the EU population number is construed *de facto* as the number of residents.<sup>25</sup> Each year, it is provided by Eurostat for all member states.<sup>26</sup> The presented studies used the number of residents of individual EU states as at January 1, 2017.<sup>27</sup>

The study uses the term "large member states", which means the six member states with the largest population for the European Union consisting of 28 countries, and Germany, France, Italy, Spain and Poland after potential leaving the EU by the United Kingdom.

### **The impact of Brexit on the ability to build blocking coalitions by the five Member States with the largest population**

After the UK's withdrawal from the EU, it will still be difficult to build a blocking coalition in which only one EU country with a population of more than 35 million participates. Table 1 presents the minimum number of countries needed in such a situation to form a blocking coalition in the Council in the case of selected member states and the Visegrad Group, both before and after Brexit.

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<sup>24</sup> *Consolidated version of the Treaty on European Union*, Art.16(4), (O.J. UE, C 202, 7.06.2016).

<sup>25</sup> *Regulation (EU) No 1260/2013 of the European Parliament and of the Council of 20 November 2013 on European demographic statistics* Art. 5, (O.J. EU, L 330, 10.12.2013).

<sup>26</sup> Data on the number of residents of EU countries as at 1 January of a given calendar year are usually officially available around October.

<sup>27</sup> Eurostat, *Usually resident population on 1 January* (last update on October 2, 2017), [http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=demo\\_urespop&lang=en](http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=demo_urespop&lang=en) [30/09/2018].



**Table 1. The minimum size of a blocking coalition in the Council, in which only one large member state participates - before and after the UK's withdrawal from the EU.**

Member States participating in the blocking coalition	EU-28	EU-27 after Brexit
Germany	1+8	1+6
France	1+10	1+7
United Kingdom	1+10	-
Italy	1+11	1+8
Spain	1+12	1+10
Poland	1+12	1+11
Visegrad Group	4+9	4+8

Source: Own calculations.

After the UK's withdrawal from the EU, the creation of a blocking coalition in the Council around one large state will become hypothetically a bit easier. In practice, however, France, Italy, Spain, Poland and the Visegrad Group (V4) have only a theoretical possibility to build a blocking coalition, without the participation of another large state.

Table 2 indicates that after Brexit it will become more difficult to adopt a decision in the Council against the position of two of the five Member States with the largest population in the EU.<sup>28</sup> Comparing the left and right sides of Table 2, it should be noted that it will generally be more difficult to build a winning coalition facing the objection of two large member states, in particular Germany, France or Italy. Adopting a decision in the Council against the position of the German-French tandem will require the creation of a winning coalition consisting of at least 20 states. At the same time, only 44 such coalitions are possible to be set up. In the case of raising objections by Germany and Italy, the real decision-making threshold in the Council will have increased to at least 18 countries, with 193 minimal blocking coalitions possible to be built. This means that if these countries coordinate their positions presented in the Council, the European Commission will have to take due account of their interests at the stage of preparing the initiative. As a consequence, the position of the five largest member states will determine the scope of a possible compromise in the Council even more than before, with a particularly large influence of Germany and France.

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<sup>28</sup> It is very unlikely that three large member states would be forced to build a blocking coalition in the Council. In such a case, its creation would be almost certain. One cannot ignore the significant political power of such a group of states in the Council, which cannot be reduced only to the weight of their vote, either. Since the entry into force of the provisions of the Treaty of Lisbon, regarding the change of the Nice system of weighing votes in the Council to the so-called double majority system, there has been no case of a legislative initiative in which three large Member States would be forced to form a blocking coalition. Being aware of the difficulties this would mean for a planned initiative, the European Commission would rather take into account the interests of the largest member states in its proposal, or would give up putting forward the initiative, at least at a given time.

**Table 2. The actual threshold of the number of states for QMV adopted decisions in the Council, on the initiative of the European Commission, in the case of opposition of selected states.**

States opposing the initiative	EU 28			EU 27 after Brexit		
	Minimum number of states in the winning coalition	Number of minimal winning coalitions with the smallest possible number of members	Number of all minimal winning coalitions	Minimum number of states in the winning coalition	Number of minimal winning coalitions with the smallest possible number of members	Number of all minimal winning coalitions
Germany, France	16	75	4023	20	7	44
Germany, Italy	16	1012	8345	18	5	193
Germany, Spain	16	43849	60231	15	15	2805
Germany, Poland	16	141771	157997	15	1086	8549
France, Italy	16	49417	66231	15	22	3117
France, Spain	16	264579	280084	15	8842	21116
France, Poland	16	433716	443467	15	51154	67610
Italy, Poland	16	383759	397416	15	31728	47248
Italy, Spain	16	530437	539429	15	115196	131823
Spain, Poland	16	640345	651819	15	384921	393463
Germany, V4	16	6974	7656	15	1	68
France, V4	16	29362	29767	15	1620	2186
Italy, V4	16	37912	38177	15	5238	5919
Spain, V4	16	48981	49054	15	25229	25741

Source: Own calculations.

After the UK's withdrawal from the EU, it will be very difficult to create a winning coalition facing the opposition of Germany and France or Germany and Italy. This means that while preparing a legislative initiative, the European Commission will have to take into account even more the preferences of the three EU Member States with the largest population, and above all Germany. As a consequence, Brexit will lead in this respect to a more pronounced imbalance between the five Member States with the largest population.

In the case of absence of support for a legislative initiative of the European Commission on the part of Germany, France and Italy, the creation of a winning coalition will become practically impossible, since all other members of the Council, i.e. 24 states, would have to participate in it.

After the UK's withdrawal from the European Union, it will be much more difficult to build a winning coalition in the Council in the face of contesting the initiative by the Visegrad Group together with one large member state, in particular by presenting a common position with the German government. In the latter case, although it is possible to create a minimal winning coalition of 15 countries, only one such coalition actually exists. In the case of building a blocking coalition by Poland and Germany together, it is necessary to recruit

additional 4-5 member states to create it. Therefore, in this situation, the presentation of the common position by the Visegrad Group raises the attractiveness of the states forming it as potential coalition partners. In economic and financial matters, the position of the Visegrad Group may be closer to the position taken by the German government, than to the position of Spain. Should the position of Germany and the Visegrad Group states be supported by at least one member state of the group, i.e. Romania, the Netherlands, Belgium, Portugal, Greece, then a blocking coalition is formed in the Council. For Germany, after Brexit, cooperation with the Visegrad Group to strengthen its negotiating position in the Council by creating a blocking coalition may be a viable alternative to its cooperation with Italy.

After the UK's withdrawal from the EU, in a situation in which the five biggest EU member states will be seeking to build a blocking coalition and three states will be supporting the presented initiative, the Netherlands and Romania, the position of which will have a significant impact on the chances of creating a blocking coalition, will proverbially tip the balance.

In the case of coordinating the position in the Council by Germany and France, it is unlikely that these states should have to form a blocking coalition, as both their voting weight in the institution in question (cf. Table 2) and their political power are very big. In such a situation, the governments in Paris and Berlin are usually the backbone of a winning coalition in the Council.

Table 3 presents the blocking structure for the voting game in the Council with the following assumptions:

- qualified majority voting is applied (“double majority voting”);
- the legislative initiative enjoys the support of at least 55% of EU states;
- the initiative is not to be supported by at most two member states with a population of over 35 million.

Despite the fact that, as a result of Brexit, the number of all possible coalitions in the Council will be halved, the number of minimal blocking coalitions likely to be set up by 4-6 EU states will have increased. This indicates that after the UK's withdrawal from the EU, it will become easier for large member states to build a blocking coalition consisting of 4-6 members, because it will be easier for especially the three states with the largest population to find coalition members with a sufficiently large number of residents. It will be difficult to push through the Council solutions that run counter to the position of two of the three largest states.

The number of blocking coalitions in the Council possible to be created by 7 or 8 countries will have decreased, which means that for member states with a population of less than 35 million people, it will be more difficult to create small blocking coalitions. Germany will gain a huge advantage in building smallest minimal blocking coalitions.

**Table 3. Small, minimal blocking coalitions possible to be set up in the Council, assuming that at least 55% of member states and at least three large EU countries support the initiative of the European Commission.**

Member State	EU 28					EU 27 after Brexit				
	The number of coalition members					The number of coalition members				
	4	5	6	7	8	4	5	6	7	8
Germany	7	382	1703	4838	9864	320	275	1260	2519	4504
France	5	158	729	3106	8081	199	164	1059	3146	7046
United Kingdom	1	177	763	3039	7963	–	–	–	–	–
Italy	1	59	616	2894	8008	127	218	876	2323	6272
Spain	0	0	82	940	4204	13	125	1147	3260	7438
Poland	0	0	1	287	1814	1	54	586	2499	7314
Romania	7	187	596	2697	7196	59	90	690	2052	5813
Netherlands	3	166	549	2370	7332	52	135	580	1985	5567
Belgium	1	92	515	2275	6571	43	66	679	1905	5386
Greece	1	82	505	2338	6464	42	60	617	1984	5629
Czech Republic	1	76	510	2323	6447	39	82	604	1911	5543
Portugal	1	74	515	2289	6424	39	76	616	1954	5566
Sweden	0	87	514	2225	6431	39	72	599	1987	5495
Hungary	0	85	489	2219	6390	38	80	575	2001	5601
Austria	0	65	509	2327	6321	37	69	469	2099	5477
Bulgaria	0	42	498	1934	6516	32	83	499	1897	5238
Denmark	0	34	408	1842	6297	28	52	572	1785	5291
Finland	0	33	389	1846	6154	28	45	569	1764	5351
Slovakia	0	31	400	1844	6147	26	55	563	1755	5356
Ireland	0	29	336	1814	5929	25	45	500	1730	5176
Croatia	0	24	308	1696	5624	24	38	438	1646	5169
Lithuania	0	17	191	1431	5135	23	29	317	1356	4392
Slovenia	0	11	149	1157	4471	18	42	260	1182	3952
Latvia	0	11	141	1091	4318	17	42	249	1161	3862
Estonia	0	8	99	809	3428	15	30	178	924	3171
Cyprus	0	4	73	554	2620	12	29	123	676	2459
Luxembourg	0	3	54	393	1998	12	20	87	532	1894
Malta	0	3	40	286	1589	12	14	72	414	1478
Total	7	388	1947	7552	19967	330	418	2464	6921	16930

Source: Own calculations.

After Brexit, the five EU states with the largest population will gain a greater capacity to build small, minimal blocking coalitions, although Poland will benefit from this change relatively less compared to the other members of this group.

Table 4 shows what will be the ability of member states to create small minimal blocking coalitions in the Council after Brexit, depending on the position of Germany with regard to the potential initiative, with the same assumptions that were adopted for the calculations in Table 3.

**Table 4. Small, minimal blocking coalitions possible to be set up in the Council, assuming that at least 55% of member states and three large EU states support the initiative of the European Commission.**

Member State	Minimal blocking coalitions involving Germany for EU-27					Minimal blocking coalitions not involving Germany for EU-27				
	The number of coalition members					The number of coalition members				
	4	5	6	7	8	4	5	6	7	8
Germany	320	275	1260	2519	4504	–	–	–	–	–
France	189	21	7	3	0	10	143	1052	3143	7046
Italy	117	83	89	47	23	10	135	787	2276	6249
Spain	13	117	656	939	936	0	8	491	2321	6502
Poland	1	54	508	1435	2262	0	0	78	1064	5052
Romania	51	61	220	275	1368	8	29	470	1777	4445
Netherlands	49	55	203	418	1384	3	80	377	1567	4183
Belgium	41	45	304	582	1255	2	21	375	1323	4131
Greece	40	41	278	638	1371	2	19	339	1346	4258
Czech Republic	38	47	275	626	1318	1	35	329	1285	4225
Portugal	38	42	307	606	1384	1	34	309	1348	4182
Sweden	38	40	295	628	1363	1	32	304	1359	4132
Hungary	37	49	293	647	1378	1	31	282	1354	4223
Austria	36	41	248	794	1409	1	28	221	1305	4068
Bulgaria	32	56	258	670	1343	0	27	241	1227	3895
Denmark	28	38	314	728	1402	0	14	258	1057	3889
Finland	28	31	328	742	1412	0	14	241	1022	3939
Slovakia	26	42	322	738	1414	0	13	241	1017	3942
Ireland	25	34	291	749	1412	0	11	209	981	3764
Croatia	24	27	268	756	1466	0	11	170	890	3703
Lithuania	23	21	188	634	1445	0	8	129	722	2947
Slovenia	18	36	163	570	1366	0	6	97	612	2586
Latvia	17	37	159	558	1335	0	5	90	603	2527
Estonia	15	25	124	471	1162	0	5	54	453	2009
Cyprus	12	26	86	354	961	0	3	37	322	1498
Luxembourg	12	18	63	284	756	0	2	24	248	1138
Malta	12	13	53	222	603	0	1	19	192	875
Total	320	275	1260	2519	4504	10	143	1204	4402	12426

Source: Own calculations.

The analysis of the data contained in it makes it possible to conclude that after the UK's withdrawal from the EU, Poland will not be a member of any the four- or five-member blocking coalitions built without the participation of Germany. Out of the 330 four-member minimal blocking coalitions, in 320 cases Germany is an indispensable member of such a coalition. At the same time, the government in Berlin will have much greater freedom in choosing coalition partners for four-member minimal blocking coalitions. All EU states with a population of less than 10 million will also become a potential coalition partner.

After Brexit, France will have a large capacity to build small, minimal blocking coalitions, even in the case of supporting a legislative initiative by the German government, provided that the position of the government in Paris is supported by another large EU state, especially Italy or Spain. At the same time, in the case of support for the legislative initiative by Germany, Poland's ability to form blocking coalitions consisting of six or seven states largely depends on the support of France. It is an indispensable member of 83.3% and 74.1% of such coalitions possible to be set up by Poland, respectively.

The UK's withdrawal from the EU will also have an impact on the balance of power on the *euro vs. non-euro* axis. In the European Union consisting of 28 Member States, nine countries not belonging to the Eurozone (the United Kingdom, Poland, Romania, the Czech Republic, Sweden, Hungary, Denmark, Bulgaria, and Croatia) constitute approximately 33.34% of all EU residents. Therefore, they cannot set up a blocking coalition in the Council. However, not much is necessary to cross the threshold of 35% of the EU population. Only one additional state with a population equal to, or bigger than Austria or, for example, Ireland and Slovakia. As a consequence, non-Eurozone member states could count on taking advantage of any discrepancies within the Eurogroup to protect their own interests. In addition, the political power of the United Kingdom in the Council was greater than it resulted from its formal voting weight in that institution.

After the UK's withdrawal from the EU, all large EU states, except Poland, will belong to the European Monetary Union. The euro is currently the currency of 19 member states, and in the future one should expect an increase in this number. From this perspective, Brexit reduces Poland's chances to build a blocking coalition in the event of support for an initiative by Germany, France, Italy and Spain almost to zero. After Brexit, states not belonging to the Eurozone will constitute only slightly more than 23% of the EU population, and Poland will be the only big state in this group. Even if Poland's position is supported by Italy, the creation of a blocking coalition will be difficult due to the small number of potential coalition partners.

In turn, the planned adoption of the euro currency by other member states<sup>29</sup> will make it difficult to take advantage of the contradictions in interests between the Eurozone states.

## Conclusions

The presented results indicate that Brexit will have a significant impact on member state's ability to build minimal blocking coalitions in the Council, as well as on the position of individual actors in the decision-making process in the EU.

The UK's withdrawal from the EU will strengthen the position of the five member states with the largest population in the Council, in particular Germany and France. It can be said that as a result of the UK's withdrawal from the EU, the importance of the population criterion in the building of blocking and winning coalitions within the Council will increase. The position of the five most-populated member states will determine the scope of a possible compromise in the Council to an even greater extent. In this group, Poland will benefit the least from the change that will take place in the vote weighing system as a result of Brexit. It will be decidedly more difficult to adopt a QMV decision in the Council against the position of Germany and France or Germany and Italy, and Brexit will lead to the breaking of the relative equality that has existed between the EU states with the largest population.

The modification of the vote weighing system in the Council, which will take place as a result of Brexit, may pose a threat to the Community method, as it will limit the ability of the European Commission to balance the interests of large and smaller member states in the law-making process, as well as reduce its freedom to propose solutions in the legislative initiatives prepared by it. On the other hand, it may also tempt the European Commission to support the interests of selected, major EU states, in order to speed up the decision-making process, which will significantly hamper the construction of a blocking coalition in the Council.

The adoption of a decision in the Council against the position of the German-French tandem, although theoretically possible, will be very unlikely in practice. If the governments in Berlin and Paris coordinate their positions, they will become an indispensable member of 99.99% of the theoretically possible winning coalitions in the Council.

After Brexit, the Eurozone countries will have, in the context of decision-making by qualified majority, a clear majority in the Council (19 states constituting over 77% of the EU population), which creates the risk that *de facto* decisions on economic and financial matters

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<sup>29</sup> Bulgaria, Romania and Croatia have made efforts to join the Eurozone.

will be made in the Eurogroup, and the Economic and Financial Affairs Council (ECOFIN) will only be used for official approval. The adoption of the single euro currency by other member states will make it difficult to build blocking coalitions in the Council by taking advantage of the contradictions within the Eurozone.

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