Political Economy of Olympic Games*

Rustem NUREEV, Doctor of economics, Professor

Head of Department of Economic Theory, Financial University; Professor at National Research University — Higher School of Economics, Moscow nureev50@gmail.com

Evgeny MARKIN, Ph. D., Senior Lecturer

Russian State University of Physical Education, Sport, Youth and Tourism, Moscow ev-markin@yandex.ru

Abstract. The purpose of the article is to analyze how IOC voting process modifies the Olympic ideals and sport development in host countries. The authors analyze a representative democracy within the Olympic Movement (the features of the functioning of the IOC, NOCs and other public organizations in the process of Olympic Games preparation). The article discusses the features of the decision making process at different stages of the hosting country selection. Candidature Acceptance Procedure includes 11 indicators. The authors describe these indicators and analyze the importance of each of them for final score. A special attention is paid to the voting procedure in the final part of the decision. The authors investigate the factors contributing to the development of principal-agent problem, logrolling and bureaucracy. Features of voting and logrolling are based on the choice of 2014 Olympic Winter Games capital (Sochi, Russia).

Influence of Olympic Games on the host country's economy is investigated on the base of major macroeconomic factors. Authors show the dependence between chosen model of administration and financing and economy and sport development in SR and LR.

The authors draw conclusions on how to improve the constitutional framework for the reduction of the prerequisites for the emergence of informal relations in the decision to host sports mega events.

Аннотация. В статье рассматривается прямая и представительная формы демократии и их проявление в Олимпийском движении. Авторы подробно анализируют процесс выбора столицы очередных Олимпийских игр, его слабые стороны. Особое внимание уделено выборам Сочи — столицы зимних Олимпийских игр 2014 года.

Авторы дают анализ издержек и выгод на разных этапах олимпийского делового цикла, рассматривают особенности экономической и политической деловой активности и факторов, от которых они зависят. Статья также посвящена анализу влияния Олимпийских игр на экономику страны их проведения. Выделены модели управления и финансирования Олимпийских игр и дан анализ их применения в странах, проводивших Олимпийские игры в 1992–2008 гг.

Key words: Olympic Games, decision making process, voting procedure, direct democracy, political business cycle, International Olympic Committee.

1. REVIEW

The role of sports mega events in economic and political life of the nations has strongly increased. That is why the investigation of these processes is very important.

Economy of physical culture and sports in the history of Russian sports science was studied by the scientists of Russian State University of Physical Training, Sport and Tourism B.S. Kuzmak and R.M. Orlov. Later

this problem was investigated also by V.I. Zholdak and V.E. Levitin. The questions of correlation between productivity and physical education was investigated by V.I. Zholdak. A.M. Alekseev considered the four most important factors determining the cost-effectiveness of sports. Issues of social and economic efficiency are also reflected in the works of S.M. Oksanych, Y.F. Trusov, etc. The most important theoretical aspects of the economy of physical culture and sports in different periods were researched by V.M. Rutgayzer and V.V. Galkin.

^{*} Политическая экономия Олимпийских игр.

V.I. Koval (1978) has investigated the economic issues of XX Olympic Games in Munich and tried to use this experience for XXII Olympics in Moscow. His work was published in 1978.

Foreign publications in sport economy are more diversified. A monographic "Economy of Sport" (by professors Wladimir Andreff and Jean-François Nys) was released in 1986 in Paris and reprinted in 2002. In 2007 Wladimir Andreff and Sandrine Poupaux published the work "The International Dimension of the Sport Economy in Transition Countries". Interesting aspects of sport influencing on Europe's economy was described by D. Dimitrov, L. Helmenshtayn, B. Moser, A. Klyaysner and J. Schindler. They analyzed the sport's impact on the European economy and its influence on Europe's GDP. In the works of L. Kann and P. Stodohar the interaction of sport and the labor market is described and their influence on each other is examined.

Holger Preuss (2000) investigated the economic conditions of Olympic Games hosting. Shank M., I. Blekshow, D. Hogg, S. Brown, W. Sutton, D Duffy, R. Noll and A. Zimbalist paid great attention to sport management and its importance for infrastructure development and new jobs creation. Researches in the field of Olympic Games economy were made by R. Barney, A. Oberger, F. Brunet, O. Shants, R. Mandell, A. Gutman. Public choice questions concerning Olympic Games are still not sufficiently researched.

A large quantity of material is contained in the newsletters (so-called Marketing Matters) and official reports of International Olympic Committee. They are published periodically and are the most complete source of information about international Olympic movement activity now.

2. OLYMPIC MOVEMENT: IOC VOTING PROCEDURE MATTER

For clear understanding how voting procedure influences the results of decision making process in Olympic movement let's look at the history and structure of IOC.

Central to the international sporting life and a base for the growth in business activity in modern world is the Olympic movement, which is rightfully occupies a leading place among the various social and cultural phenomena, and has a direct impact on the economic development of the Olympic Games host country. The international Olympic movement is a kind of institution, under which the large number of sports federations, national Olympic committees (NOC), sports competitions are held.

The first Olympic Games took place in 776 BC in Ancient Greece. The concept of modern Olympism

belongs to Pierre de Coubertin, on whose initiative in June 1894 in Paris was organized the International Athletic Congress, where on June 23, 1894 the International Olympic Committee (IOC) was founded. The need to create the IOC as an organizational and management structure was obvious — without it, all the international Olympic movement was ineffective and unsustainable organization. Only permanent management authority with appropriate financial, organization and human resources was able to solve complex problems of international scope.

IOC is nternational non-governmental organization, established as an association with l not-profit status. It recognized by the Swiss Federal Council in accordance with the contract, which came into force on November 1, 2000.

Document governing the basic mechanisms of economic management of the modern Olympic Games and the Olympic movement in general is the Olympic Charter. This is a set of fundamental principles of Olympism, rules and byelaws adopted by the International Olympic Committee. The Olympic Charter governs the structure, mechanism of action and processes of the Olympic movement and determines the conditions of the Olympic Games. It performs three main tasks:

- 1) regulates the basic principles and essential values of Olympism;
 - 2) is a charter of the IOC;
- 3) defines the basic rights and responsibilities of the three main constituents of the Olympic Movement: the International Olympic Movement, the International Federations and National Olympic Committees and Organizing Committees for the Olympic Games, which must comply with the Olympic Charter.

In 1986, the IOC brings together 164 national Olympic Committees (NOC); in 2004 at the Olympic Games in Athens, they became 201.

Another important principle of Olympic Movement management is its independence on political influence of individual states and political units. Obviously, if the Olympic institutions will be under someone else's political influence, they quickly lose their international prestige and global significance. The same can be said about financial independence on any commercial or public organizations. These norms are reflected in the Olympic Charter and allow IOC to maintain its political and commercial independence.

IOC is developing special marketing programs to raise money and create a sound financial base for the development of the Olympic movement. A priority for the IOC is to implement programs to broadcast the Olympic Games through telecommunications companies, programs to work with corporate sponsors, minting of commemorative coins and medals, etc.

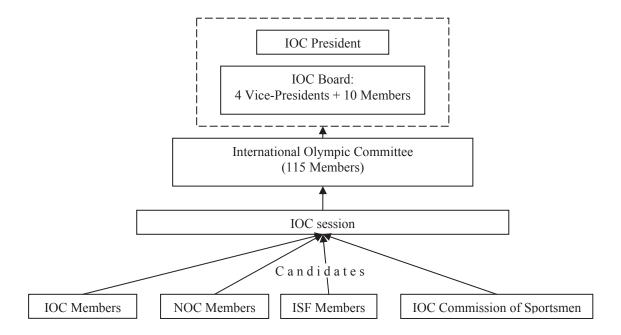


Figure 1. IOC organizational structure*.

* Created on the base of the data from: www.olympic.org.

Principles listed above were the basis of the practical operation of the IOC in the following areas:

- Regular organization of Olympic Games;
- Definition of the Games and composition of the participants (in collaboration with sports federations and National Olympic Committee of the Games);
 - Registration of Olympic records;
- Placing orders for the Olympic marketing programs and overseeing their implementation;
- Overseeing the distribution of funds among the National Olympic Committees and international sports federations;
- Promotion of sports and strengthening of friendship among athletes in the IOC member countries;
- Dissemination of ideas of Olympism and healthy lifestyle;
- Supporting development centers for sporting events.

It should be noted that one of the basic principles by which the IOC in choosing the next capital of the Games is what legacy of the Olympic Games for future generations will be left and what economic and social effect will have the city, region and country of the Games

The total number of IOC should not exceed 115 members, which can only be individuals, representatives of member states of IOC. Composition of the IOC shall be elected at a general meeting, called the session. Sessions are held at intervals not less than once a year. The organizational structure of the IOC is presented in Figure 1.

At the IOC session the president and members of the IOC Executive Board are elected. Let's look at funding mechanisms of the international Olympic movement and distribution of financial flows.

Direct democracy is political system in which every citizen has the right to personally express his/her view and vote on any particular issue.

Direct democracy is typical for the assembly of labor collectives of enterprises and institutions,, party meetings and conventions. In a national scale it is the choice of parliament members, or the president conducting nation-wide referendum. Decision-making procedure (the rules) in this situation is the main focus.

Direct democracy is not the dominant form in the Olympic movement. It remains as a subordinate element of representative democracy.

Majority rule is not a standard in terms of the effectiveness of the decision. Alternatives to majority rule are the two-step rule relative majority, multistep binary voting procedure for approving the ballot, a simple majority of the knock-out and generally exclude the losers on the board. It is obvious that the Olympic movement cannot apply the rule of unanimity in decision-making. This rule applies to the UN Security Council, for example. IOC, of course, tries to take into account the opinion of all the voting for some solutions, but everyone's opinion into account not his best.

That is why every 2 years on the IOC sessions the rule of simple majority of the knockout is using, to select the next Olympic Games host city.

A voter in fact cannot select multiple capitals of Games, guided by the idea that a sailing competition, for example, would be better held in Rio-de-Janeiro,

Table 1. Relationship between decision making and level of economic development of member countries and their world market power (since 1896).

Country	G8	G20	Olympiads	Olympic Winter Games	Total #	GDP per capita (2009)
USA	Yes	Yes	4	4	8	45 989
France	Yes	Yes *	2	3	5	41051
United Kingdom	Yes	Yes	3	0	3	35 165
Germany	Yes	Yes *	2	1	3	40 670
Italy	Yes	Yes *	1	2	3	35 084
Canada	Yes	Yes	1	2	3	39 599
Japan	Yes	Yes	1	2	3	39738
Australia		Yes	2		2	42 279
Austria		Yes *		2	2	45 562
Greece		Yes *	2		2	29 240
Norway		Yes *		2	2	79 089
Russia (USSR)	Yes	Yes	1	1	2	8 684
Switzerland		Yes *		2	2	63 629
Belgium		Yes *	1		1	43 671
Brazil		Yes	1		1	8 121
Spain		Yes *	1		1	31774
China		Yes	1		1	3744
Mexico		Yes	1		1	8 1 4 3
Netherlands		Yes*	1		1	47719
Finland		Yes *	1		1	44 581
Sweden		Yes *	1		1	43 654
Yugoslavia (Bosnia & Herzegovina)				1	1	4525
South Korea		Yes	1		1	17078

^{*} EU countries represents in G20 as one country (union). Created on the base of: www.gamesbids.com and World Bank.

and athletics — in Moscow. Thus, the choice made in favor of only one candidate. And those of programs that are known to be better with the other candidate, in this case are as "good with a load" (Nureev, 2005).

It is important to point out that in the IOC and modern Olympic Movement's activity the desire to realize the idea of "micro space", formulated by the American President John Adams in 1780s, can be traced. He believed that parliament should be an accurate portrait of the nation as a whole. In our case we are talking about the Olympic Movement's governing bodies, which consist of representatives of different nations.

Unfortunately, the relationship between decision making and level of economic development of member countries and their political influence is observed. The history of the modern Olympic Games (since 1896) shows that developed countries which now form the so-called G8 or G20 (see Table 1) are most likely to host the Games.

The struggle of countries with weak economies to host the Olympics often finish at the stage of choosing a candidate city. The final choice is made among the developed countries' representatives. These cities can spend on the Games the necessary funds, which allow to get a profit from the Games in future.

Thus, there is a conflict between the ideas and ideals of the Olympic movement and the IOC and their actual deeds. Even the recent decision to hold the 2016 Olympics in Rio de Janeiro, unfortunately, does not give the right to speak about positive trends.

Olympic movement has a procedure for selection of the capital of the next Olympic Games. As any other large institution, IOC has its own rules. The choice is made from a limited number of participants, formed by the IOC during the pre-selection.

International Olympic Committee has developed a special system of Applicants and Candidate Cities estimation. When the two-phase candidature proce-

Table 2. Indicators of Candidature Acceptance Procedure for the Games of XXXI Olympiad in 2016*.

			(zone			/414		n zone	
	City/ Saara	1		ulfill the			6		8	equireme 9	
	City/ Score	1	2	3	4	5		7	8	9	10
 Government support, legal issues and public 	Chicago					4250	6,1-	7,9			
opinion (including	Prague					4,3-6,8		7.0	0.5		
compliance with the	Tokyo Rio de Janeiro							7,0-			
Olympic Charter and the	Baku						E 7 7 E	7,2-	8,9		
World Anti-Doping	Doha						5,7-7,5	7,0-	0 0		
Code*)	Madrid							7,0-			
cour j	IVIAGITO							7,4	r-3		
				Red	zone				Gree	n zone	
			(not f	ulfill the		nents)		(fulf		equireme	ents)
	City/ Score	1	2	3	4	5	6	7	8	9	10
	Chicago						5,4-7,4				
	Prague				4,1	-5,9					
	Tokyo							7,5-	9,0		
2. General infrastructure	Rio de Janeiro						5,2-7,2		-		
	Baku				3,8-5,7						
	Doha						5,5-7,5				
	Madrid							7,9-	9,0		
				Red	zone				Gree	n zone	
			(not f	ulfill the	requirer	nents)		(fulf	fill the re	equireme	ents)
	City/ Score	1	2	3	4	5	6	7	8	9	10
	Chicago							7,0-	8,7		
	Prague					4,9	-7,2				
	Tokyo							7,4-	9,0		
3. Sports venues	Rio de Janeiro						6,0-	7,8			
	Baku							6,8-8,1			
	Doha							6,9-8,7			
	Madrid							7,3-	8,8		
					zone					n zone	
				ulfill the						equireme	
	City/ Score	1	2	3	4	5	6	7	8	9	10
	Chicago							7,0-	8,7		
	Prague					4,9	-7,2				
	Tokyo							7,4-	9,0		
4. Olympic Village(s)	Rio de Janeiro						6,0-				
	Baku							6,8-8,1			
	Doha							6,9-8,7			
	Madrid							7,3-	8,8		
				Red	zone				Gree	n zone	
			(not	fulfill the	require	ments)		(ful	fill the r	equirem	ents)
	City/ Score	1	2	3	4	5	6	7	8	9	10
	Chicago						6,0	-8,0			
	Prague						5,4-7,4				
5. Environmental	Tokyo							7,5	-8,9		
conditions and impact	Rio de Janeiro						5,6-7,7				
conditions and impact	Baku				4,1	1-6,0					
	Doha					1		6,3-8,2			
	Madrid			1	1	1	1	7.3	-8,9	1	

 $^{^{\}circ}$ Games of XXXI Olympiad 2016 Working Group Report, Lausanne, 2008.

				Rod	zone				Groot	n zone	
			(not f		requirer	nante)		/ful		guireme	nte)
	City/ Score	1	2	3	4	5	6	7	8	quireine 9	10
	Chicago			,	-	,	-	<u> </u>	-	9,3-9,9	10
	Prague					5,1-5,9				3,3-3,3	
	Tokyo					3,1-3,3					9,5-10
6. Accommodation	Rio de Janeiro					5.5.	-6,4				3,3-10
o. Accommodation	Baku			2,6-4,9		3,3	0,4				
	Doha			2,0 4,5			5,4-7,8				
	Madrid						3,47,0	7.8	-8,9		
	ividaria							7,0	0,5		
				Red	zone				Greet	ı zone	
			(not f		requirer	nents)		(ful		quireme	nts)
	City/ Score	1	2	3	4	5	6	7	8	9	10
	Chicago						5,3-7,9				10
	Prague					4,8-7,0	3,3 7,3	Π			
	Tokyo					1,0 1,0		7.5	-8,5		
7. Transport concept	Rio de Janeiro						5,5-7,6	7,5			
	Baku						,,,,,,	6,0-8,5			
	Doha							6,5-8,5			
	Madrid								-9,0		
								-,,5	,-		
				Red	zone				Greei	ı zone	
			(not f		requirer	nents)		(ful:		quireme	nts)
	City/ Score	1	2	3	4	5	6	7	8	9	10
	Chicago					<u> </u>			-8,2		10
	Prague					4,4-6,1		7,1	0,2		
	Tokyo					1,4 0,1		7 9.	-9,0		
8. Safety and security	Rio de Janeiro					4,6-7,0	l	,,,,	,,,,,		
or surery und security	Baku				4.4	-5,9					
	Doha				-1,-1	,,,	5,5-7,1				
	Madrid						0,0 1,1	7,1-7,9			
	Tridaira							-12 -12			
				Red	zone				Greei	n zone	
			(not f		zone reguirer	nents)		(ful		n zone equireme	nts)
	City/ Score	1	(not f		zone requiren 4	nents) 5	6	(ful		n zone equireme 9	nts)
	City/ Score	1		ulfill the	requirer		6 5,4-8,0		fill the re	quireme	
	Chicago	1		ulfill the	requirer				fill the re	quireme	
	Chicago Prague	1		ulfill the	requirer	5	5,4-8,0	7	fill the re	quireme	
9. Experience from past	Chicago	1		ulfill the	requirer	5	5,4-8,0 6,0	7	fill the re	quireme	
9. Experience from past sports events	Chicago Prague Tokyo	1		ulfill the	requirer 4	4,4-6,5	5,4-8,0 6,0	7	fill the re	quireme	
	Chicago Prague Tokyo Rio de Janeiro	1		ulfill the	requirer 4	5	5,4-8,0 6,0 6,5	7 -8,0 -7,9	fill the re	quireme	
	Chicago Prague Tokyo Rio de Janeiro Baku	1		ulfill the	requirer 4	4,4-6,5	5,4-8,0 6,0 6,5	7	fill the re	quireme	
	Chicago Prague Tokyo Rio de Janeiro Baku Doha	1		ulfill the	4 3,8	4,4-6,5	5,4-8,0 6,0 6,5	7	fill the re	equireme 9	
	Chicago Prague Tokyo Rio de Janeiro Baku Doha	1	2	ulfill the	a system of the	5 4,4-6,5 -6,4	5,4-8,0 6,0 6,5	7	fill the re 8	g g zone	10
	Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid		2 (not f	ulfill the 3 Red ulfill the	3,8 zone	4,4-6,5 -6,4	5,4-8,0 6,0 6,5	7 8,0 7,9 7,7 7,1	8 8 8-8,2 Green	zone quiremen	10
	Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score	1	2	ulfill the	a system of the	5 4,4-6,5 -6,4	5,4-8,0 6,0 6,5	7 8,0 7,9 7,7 7,1-	fill the re 8	g g zone	10
	Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago		2 (not f	ulfill the 3 Red ulfill the	3,8 zone	5 4,4-6,5 -6,4 nents)	5,4-8,0 6,0 6,5	7 8,0 7,9 7,7 7,1-	8 8 8-8,2 Green	zone quiremen	10
	Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague		2 (not f	ulfill the 3 Red ulfill the	3,8 zone	4,4-6,5 -6,4	5,4-8,0 6,0 6,5	7 8,0 7,9 7,7 7,1- (fulf 7 8,0	8.2 Green ill the re	zone quiremen	10
sports events	Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo		2 (not f	ulfill the 3 Red ulfill the	3,8 zone	5 4,4-6,5 -6,4 nents)	5,4-8,0 6,0 6,5 6,0	7 8,07,9 7,7 -7,1 (fulf 7 8,0	8.2 Green ill the re	zone quiremen	10
	Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo Rio de Janeiro		2 (not f	ulfill the 3 Red ulfill the	3,8 zone	5 4,4-6,5 -6,4 nents) 5	5,4-8,0 6,0 6,5	7 8,07,9 7,7 -7,1 (fulf 7 8,0	8.2 Green ill the re	zone quiremen	10
sports events	Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo Rio de Janeiro Baku		2 (not f	ulfill the 3 Red ulfill the	3,8 zone	5 4,4-6,5 -6,4 nents)	5,4-8,0 6,0 6,5 6,0	7 8,07,9 7,7 7,1 (fulf 7 8,0 7,0 7,8	8.2 Green ill the re	zone quiremen	10
sports events	Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo Rio de Janeiro Baku Doha		2 (not f	ulfill the 3 Red ulfill the	3,8 zone	5 4,4-6,5 -6,4 nents) 5	5,4-8,0 6,0 6,5 6,0	7 8,07,9 7,7 7,1- (fulf 7 7,8 7,8 7,8 7,8	8.2 Green ill the re	zone quiremen	10
sports events	Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo Rio de Janeiro Baku		2 (not f	ulfill the 3 Red ulfill the	3,8 zone	5 4,4-6,5 -6,4 nents) 5	5,4-8,0 6,0 6,5 6,0	7 8,07,9 7,7 7,1 (fulf 7 8,0 7,0 7,8	8.2 Green ill the re	zone quiremen	10
sports events	Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo Rio de Janeiro Baku Doha		2 (not f	Red ulfill the	zone requiren	5 4,4-6,5 -6,4 nents) 5	5,4-8,0 6,0 6,5 6,0	7 8,07,9 7,7 7,1- (fulf 7 7,8 7,8 7,8 7,8	6 s s s s s s s s s s s s s s s s s s s	zone quiremen 9	10
sports events	Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo Rio de Janeiro Baku Doha		(not f	Red ulfill the	zone requiren 4	5 4,4-6,5 -6,4 -ents) 5 4,8-6,8	5,4-8,0 6,0 6,5 6,0	7 -8,0 -7,9 -7,7 (fulf 7 8,0 7,0- 7,8 6,7-8,7 6,5-8,6	-8,2 Green ill the rec	zone quiremen 9	10 hts) 10
sports events	Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid	1	(not f	Red ulfill the	zone requiren 4	4,4-6,5 -6,4 -ents) 5 4,8-6,8	6,0 6,5 6,0 6,0	7 -8,0 -7,9 -7,7 7,1 (fulf 7 8,0 7,0-7,8 6,7-8,7 6,5-8,6 (fulf	Green ill the rec	zone quiremen 9	10 nts) 10 nts)
sports events	Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Ch		(not f	Red ulfill the	zone requiren 4	5 4,4-6,5 -6,4 -ents) 5 4,8-6,8	5,4-8,0 6,0 6,5 6,0 6	7 -8,0 -7,9 -7,7 (fulf 7 8,0 7,0- 7,8 6,7-8,7 6,5-8,6	-8,2 Green ill the rec	zone quiremen 9	10 hts) 10
sports events	Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Chicago Chicago Chicago	1	(not f	Red ulfill the	zone requiren 4	4,4-6,5 -6,4 -ents) 5 4,8-6,8	6,0 6,5 6,0 6,0	7 -8,0 -7,9 -7,7 7,1 (fulf 7 8,0 7,0-7,8 6,7-8,7 6,5-8,6 (fulf	Green ill the rec	zone quiremen 9	10 nts) 10 nts)
sports events 10. Finance	Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Chicago Prague Tokyo Rio de Janeiro Chicago Prague Chicago Prague	1	(not f	Red ulfill the	zone requiren 4	4,4-6,5 -6,4 -ents) 5 4,8-6,8	5,4-8,0 6,0 6,5 6,0 6	7 -8,0 -7,9 -7,7 (fulf 7 8,0 -7,0- 7,8 6,7-8,7 6,5-8,6 (fulf 7	Green ill the rec	zone quiremen 9	10 nts) 10 nts)
sports events 10. Finance 11. Overall project and	Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo	1	(not f	Red ulfill the	zone requiren 4	4,4-6,5 -6,4 -ents) 5 4,8-6,8	5,4-8,0 6,0 6,5 6,0 6 6,0 6 5,0-8,0	7 -8,0 -7,9 -7,7 7,1 (fulf 7 8,0 7,0-7,8 6,7-8,7 6,5-8,6 (fulf	Green ill the rec	zone quiremen 9	10 nts) 10 nts)
sports events 10. Finance	Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid	1	(not f	Red ulfill the 3	zone requiren 4 zone requiren 4 4,0-5,0	4,4-6,5 -6,4 -ents) 5 4,8-6,8	5,4-8,0 6,0 6,5 6,0 6	7 -8,0 -7,9 -7,7 (fulf 7 8,0 -7,0- 7,8 6,7-8,7 6,5-8,6 (fulf 7	Green ill the rec	zone quiremen 9	10 nts) 10 nts)
sports events 10. Finance 11. Overall project and	Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo	1	(not f	Red ulfill the 3	zone requiren 4	4,4-6,5 -6,4 -ents) 5 4,8-6,4 -ents) 5	5,4-8,0 6,0 6,5 6 6,4- 6 5,0-8,0	7 -8,0 -7,9 -7,7 (fulf 7 8,0 -7,0- 7,8 6,7-8,7 6,5-8,6 (fulf 7	Green ill the re	zone quiremen 9	10 nts) 10 nts)
sports events 10. Finance 11. Overall project and	Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo Rio de Janeiro Baku Doha Madrid City/ Score Chicago Prague Tokyo Rio de Janeiro Baku Tokyo Rio de Janeiro Baku	1	(not f	Red ulfill the 3	zone requiren 4 zone requiren 4 4,0-5,0	4,4-6,5 -6,4 -ents) 5 4,8-6,8	5,4-8,0 6,0 6,5 6 6,4- 6 5,0-8,0	7	Green ill the re	zone quiremen 9	10 nts) 10 nts)

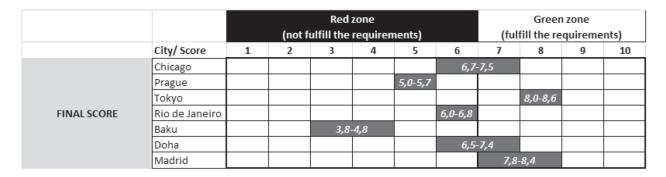


Figure. 2. Final Result of Working Group Report for estimation of Games of XXXI Olympiad 2016 Applicant Cities. Source: Games of XXXI Olympiad 2016 Working Group Report.

Table 3. Bid Index on the eve of 2014 Winter Olympics final voting.

CITY	HIGH	LOW	CHG	INDEX
PyeongChang	64.99	55.72	+00.09	64.99
Salzburg	65.35	60.63	-01.31	62.62
Sochi	63.17	56.71	+02.22	63.17

Source: www.gamesbids.com

Table 4. Bid Index on the eve of 2016 Olympics final voting.

CITY	HIGH	LOW	CHG	INDEX
Chicago	61.24	58.78	+1.23	61.24
Madrid	59.50	57.80	0.00	57.80
Rio-de-Janeiro	61.61	59.73	-0.19	61.42
Tokyo	61.41	59.20	-0.18	59.02

Source: www.gamesbids.com

dure was introduced, the IOC Executive Board considered that the assessment of Applicant Cities should be supported by decision-making software.

"Decision Matrix" was selected from a number of options to assist with the assessment of the 2008 Applicant Cities, based on experience with projects of a similar type.

Decision Matrix was formed in 1983 for the purpose of developing decision software catering to large and very specific decision-making processes in organizations. The Decision Matrix software uses graphic user interfaces to display results in an easily interpretable fashion. In consultation with the IOC, Decision Matrix developed the "OlympLogic" decision model — based on an already proven decision model "OptionLogic" — which computes the best option amongst a number of contenders. The OlympLogic program enables the assessment of the Applicant Cities on the basis of a number of IOC specific criteria.

Matrix was successfully used by the IOC in the assessment of the 2010, 2012 and 2014 Applicant Cities, as well as in the assessment of the bidding cities for the 2010 Youth Olympic Games.

Candidature Acceptance Procedure includes 11 indicators:

- 1. Government support, legal issues and public opinion (including compliance with the Olympic Charter and the World Anti-Doping Code);
 - 2. General infrastructure;
 - 3. Sports venues;
 - 4. Olympic Village (s);
 - 5. Environmental conditions and impact;
 - 6. Accommodation;
 - 7. Transport concept;
 - 8. Safety and security;
 - 9. Experience from past sports events;
 - 10. Finance;
 - 11. Overall project and legacy.

Each indicator can be in a range between 1 to 10. The acceptable minimum is six. If city receives less than 6 then this indicator is colored in matrix in red color. It is the signal that city is not developed enough. Let's illustrate this procedure on the example of Games of XXXI Olympiad 2016 (see Table 2).

As we can see in Table 2, Prague and Baku do not have enough support according to members of Working Group. All the results are summarized in the final

Table 5. Simple Majority With Exclusion (Australian Voting System).

Group I (4 voters)	Group II (6 voters)	Group III (7 voters)	Group IV (3 voters)	Group V (2 voters)
A	D	В	С	E
C E	C E	E C	D	В
E B	E B	C D	E B	A
D	A	A	A	C
_		ative that scored least votes		
b)				
Group I (4 voters)	Group II (6 voters)	Group III (7 voters)	Group IV (3 voters)	Group V (2 voters)
A	D	В	С	В
C	C	C	D	Ā
В	В	D	В	С
D	A	A	A	D
C — 3. Excluded				
c)				
Group I (4 voters)	Group II (6 voters)	Group III (7 voters)	Group IV (3 voters)	Group V (2 voters)
A	D	В	D	В
В	В	D	В	A
D	A	A	A	D
A — 4. Excluded				
d)				
Group I (4 voters)	Group II (6 voters)	Group III (7 voters)	Group IV (3 voters)	Group V (2 voters)
B D	D B	B D	D B	B D

decision (Figure 2). As you can see Prague and Baku were not recommended by Working Group. This decision has preliminary status and other cities could also be declined at the last stage. For example, Doha was also declined as a candidate city for the Games of XXXI Olympiad in 2016.

This procedure always takes place inside IOC. International sport analytical agencies have their own ratings. They analyze the same indicators and present Bid Indexes. The Bid Indexes of GamesBids Agency on the eve of 2014 and 2016 Olympics final voting are presented in the Tables 3 and 4.

Bid Index includes the lowest and highest estimation and the last changes. In Table 3 we can see that Sochi left off PyeongChang but demonstrated the highest level of Bid Index Increase. It became the crucial factor for the win.

Rio de Janeiro was the leader on the eve of final voting but there was a small decrease of index. Nevertheless it did not influence the final result, and Rio

de Janeiro was elected as the capital of 2016 Olympics.

As noted earlier, IOC members make a decision about Olympic Games next capital using the simple majority rule with a knockout. We shall consider it in detail.

In a simple majority of knock-out (the Australian system of voting) wins the candidate who gains a simple majority (see Table 5). However, in the absence of a simple majority at the first stage the candidate with the fewest votes is left. In our example it is E (E - 2).

During the multistep voting system, each time a candidate with the fewest votes is eliminated.. In our example it is B (B - 13 out of 22).

Olympic Games Capital voting procedure is the following:

- More then 100 International Olympic Committee members take part in the voting;
- International Olympic Committee members from the countries presented by the candidate cities are not voting;

- International Olympic Committee members representing countries where the Olympic venues are partially situated are not voting;
- Candidate city should receive more than 1/2 of all votes;
- Olympic Games host city and country are determined at least before 7 years of the Games.

The Analysis of Olympic Games selection since 1972 (see Annex 1) shows the following regularity:

The majority of the IOC members have an exact scheme of voting before it starting. This scheme is based not only on real IOC Member preferences (Sydney 2000, Nagano 1998, Atlanta 1996).

The votes which were given for the first outsider mostly go to the city, which finally wins. But it takes place only if there are no other candidate cities from the same continent or economic area (Sochi 2014, Vancouver 2010).

IOC members firstly support the applications from the same home continents (London 2012, Atlanta 1996, Lillehammer 1994, Albertville 1992, Montreal 1976).

3. LOGROLLING AND CORRUPTION

The geography of the countries applying for the Olympic Games in recent years has grown significantly: Azerbaijan, Thailand, South Africa, Malaysia (see Figure 3), Poland, Slovakia, Kazakhstan (see Figure 4).

Recently, the IOC uses a more rigorous approach for selection of the new Olympic Games capital. This is illustrated in Table 6, which shows that in the last 15 years a large number of applicants were rejected at the first procedure stage and the status of candidate city was given to fewer participants (less than 50%).

Previously mentioned examples show that the Olympics enjoy the extremely high popularity, and attract a large number of countries wishing to undertake them. But the number of competing cities to host the Games has been reduced.

The main reason for the claims of the leadership in this competition is that the applicant countries expect from the Olympic Games a strong impetus for economic development and social services through their impact on economic growth.

Olympic Games bid process includes a very complex and costly procedure for choosing the capital of the next Olympic Games. And as any selection procedure it can be associated with possibilities for manipulation, lobbying, corruption, etc.

In 1998–1999 the crisis in the Olympic movement happened. It was linked with the abuses and corruption in the selection of the capital of 2002 Winter Olympics. After that selection procedure of candidate cities and the capital of the Games has changed.

On December 15, 1998 at IOC session in Lausanne, one of IOC members — Marc Hodler (Switzerland) — announced the facts of corruption among fellow Olympians. He said: "5–7% of the 115 IOC members are amenable to bribery." The IOC set up a commission to investigate this fact. It detected that some IOC members received gifts and cash rewards from the Bid Committee of candidate cities. In the "black list" there were IOC members from Ecuador, Libya, Congo, Netherlands, Finland, Chile, Swaziland, Cameroon, Mauritius, Kenya, Côte d'Ivoire and Russia.

The following results were achieved:

- 6 Members were temporary excluded from IOC;
- 3 Members were completely excluded from IOC;
- It was recommended to approve a new selection procedure for 2006 Olympic Games capital;
- The rights to host 2000 and 2002 Olympic Games were confirmed to Sydney and Salt Lake City;
- IOC members approved Juan Antonio Samaranch as IOC President (86 votes of 90).

If a state decides to hold Olympic Games, to achieve this goal it is necessary to do the following:

- 1) The city receives the status of candidate city (city must receive a positive assessment of the IOC Evaluation Commission, according to the assessment matrix);
- 2) Majority of IOC members votes for a candidate city in the final vote.

Throughout this process there are opportunities for abuse and corruption within the IOC members and officials of the Bid Committee.

The first who saw this problem were Frank Daumann and Markus Breuer of Friedrich–Schiller–University, Jena in the paper "The Award of the Olympic Games — Incentives for Corruption in a Multiple Principal-Agent Relationship". They suggested the following behavior of participants in the process of choosing the capital of Olympic Games:

- Abuses are still possible in IOC regardless of the 1999 reform of the Olympic Games selection procedure;
- Individual preferences with respect to a particular candidate city prone logrolling process especially in the IOC members from countries traditionally often participating and conducting the Olympic Games (U.S., Canada, France, Japan);
- The athletes' opinion is most often not taken into account.

Agent (IOC member) will receive compensation only if the deal goes through. The rate depends on the amount of the transaction (e.g., a fixed percentage). In this case also may be the likelihood of abuse — double sales of the vote. The IOC member may agree with the different parties to support a par-

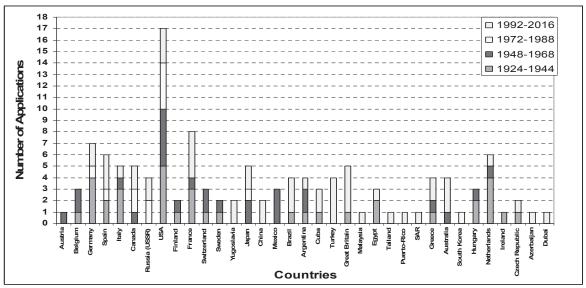


Figure 3. Number of Candidate Cities to Host The Games of Olympiad (1896–2016) Calculated by authors on the base of www.gamesbids.com, www.olympic.org

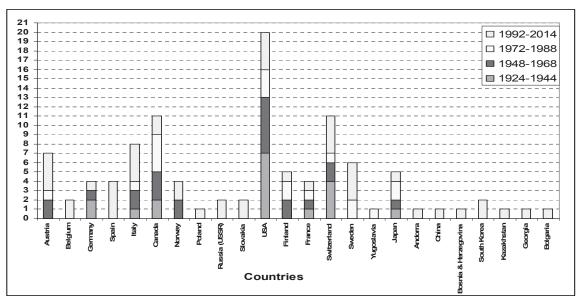


Figure 4. Number of Candidate Cities to Host Olympic Winter Games (1924–2014) Calculated by authors on the base of www.gamesbids.com, www.olympic.org

Table 6. Applicant and Candidate cities on the 1992–2018 Olympics.

	Games o	of Olympiad		Olympic Winter Games			
Years	Number of Applicant Cities	Number of Candidate Cities	% of attrition	Years	Number of Applicant Cities	Number of Candidate Cities	% of attrition
1992	6	6	0	1992	7	7	0
1996	6	6	0	1994	4	4	0
2000	5	5	0	1998	5	5	0
2004	11	5	54	2002	4	4	0
2008	10	5	50	2006	6	2	66
2012	9	5	44	2010	8	3	62
2016	6	4	33	2014	7	3	57
2020	6	N/A	N/A	2018	3	3	100

Part of World	Sovetskiy Sport newspaper (2007)	Izvestiya newspaper (2007)
Europe	25	35
Asia	3	3
America	15	3
Africa	8	10
Australia & Oceania	0	0
TOTAL	51	51

Table 7. Number of votes in support of Sochi 2014 Olympic Bid (expert analysis of Russian mass media)

ticular candidate city and secure income with 100% probability. In fact, he may vote for whom he wants. And in case of lossof one of the candidate cities he says that he voted in support of it and there is no his guilt in losing. In this case, he will receive income from the other (winning) candidate, if pre-entered into an informal agreement with it.

The possibility of such behavior is high because everything is regulated by informal relationships and it is impossible to keep track of how 100% of IOC members behave.

Sochi 2014 can be analyzed as an example.

The final vote of selection of the host city of the XXII Olympic Winter Games in 2014 was attended by 100 members of the IOC: 42 from Europe, 17 from Asia, 18 from America, 19 from Africa and 4 from Oceania.

As a result, the Russian resort city in the second round of voting won the bid. It was supported by 51 members of IOC; 47 members voted for Peong-Chang. Some Russian analytical publications independently tried to more specifically define which IOC Members supported Sochi (see Table 7).

Analysis shows that Sochi received the greatest support from IOC members from Europe. Australia and Oceania did not support Sochi at all. The most controversial data is on the voting of IOC members from the United States. According to *Sovetskiy Sport*, Sochi was supported 15 members of the IOC out of 18, while according to *Izvestiya* — only 3 out of 18.

During the Olympic bid top Russian sport and political officials undertook different attempts to get support. Logrolling was non exclusion.

Russian sports officials have openly talked in interviews how some votes were got. Ex-President of the Russian Football Union said that his responsibilities included persuasion of "football" IOC members (e.g. Joao Avelange and Zepp Blatter). IOC members at various levels demonstrated the benefits of the application of Sochi 2014. There was a case of logrolling: Sochi received 3 votes of IOC members from Ukraine and Poland in exchange for the Russia's support to application of these countries to hold European Football Championship in 2012.

4. OLYMPIC POLITICAL BUSINESS CYCLE: THEORY AND PRACTICE

In the Olympic business cycle 3 phases can be defined:

- Pre-Olympic stage from the date of filing a formal application from the city and the country to host the Olympic Games till 30 days before the start of the Olympic Games;
- Olympic stage from 30 days before the start of the Olympic Games till 30 days after the official closing ceremony;
- Post-Olympic stage from 30 days after the official closing ceremony till the end of next season (the summer for the Olympics and the winter for the Olympic Winter Games) after completion of the Olympic Games.

4.1. OLYMPIC POLITICAL BUSINESS CYCLE: COST-BENEFIT ANALYSIS

Cost-benefit analysis allows to define when expenditures are the biggest and when the revenues are the highest. Let's see on the costs and benefits of Olympic Games organizing committees at different stages of the Olympic business cycle (see Tables 8–11).

4.2. OLYMPIC POLITICAL BUSINESS CYCLE: CORRECTION OF THE WAVE

Gross spending related to the 2010 Games and distribution of the investments for the Olympic Games is presented on the Figure 5 and Figure 6.

We can see that the biggest part of expenses is required 4–6 years before the Olympics. This fact proves our theory about the costs distribution during the Olympic business cycle. From the other side, as statistics shows (see Figure 6) the largest number of investments is made 3–1 years before the Games.

Thus we should correct our model and increase economic activity during the period of 3–1 years before the Games and decrease the political activity during the period of Olympics hosting (see Figure 7).

The mechanisms of administration play an important role during the Olympic business cycle, as presented by Nureev R.M. and Markin E.V. (2008). High-quality

Table 8. Public and private cost-benefit analysis on pre-Olympic stage (Participation in election procedure).

	Costs	Benefits
Public	 Olympic bid documentary support Participation fee Preparation and organization of activities to popularize the idea of Olympic Games hosting inside the country and abroad Olympic Games Questionnaire preparing Applicant City advertising Infrastructure development and preparation for IOC Commission visit 	Country image increase Knowledge increase about applicant city abroad
Business	Participation analysis	Investment attraction increase

Table 9. Public and private cost-benefit analysis on pre-Olympic stage (Olympic Games Organizing).

	Costs	Benefits
Public	Organization costs, Administrative costs Opening and closing ceremonies Olympic touch relay Technical costs (stadiums, swimming pools, Olympic village, press-center etc.) Infrastructure development (roads, underground, electronic communications etc.) Environmental protection	DIRECT TV rights selling Sponsors (national and worldwide) Licensing Ticketing (partially) Sales through the Internet Coins, lottery etc. INDIRECT Unemployment decrease Aggregate demand growth Taxes growth Business activity growth Country and city availability growth
Business	Hotels construction Tourism infrastructure development in hope for the future benefits	Investment attraction growthAdvertising of goods and services

Table 10. Public and private cost-benefit analysis on Olympic stage.

	Costs	Benefits
Public	 Security Sportsmen accommodation and food Advertising activities, festivals etc. Utilities Subsidies to the factories and companies which are closed for the Games period, traffic jams avoiding and so on. 	 Number of tourists increase, Country image increase, Ticketing (partially) Sales through the Internet GDP and GRP growth taxes
Business	General organizational costs Restrictions for factories and industry companies work	 Country image increase, Investment attraction increase Advertising of goods and services Souvenirs and sport equipment selling Plastic cards transactions Hotels filling Sportsmen and guests expenditures

Table 11. Public and private cost-benefit analysis on post-Olympic stage.

	Costs	Benefits
Public	Infrastructure and equipment operation costs	Bank interest revenue Assets sales Hosting other mega events
Business	Infrastructure and equipment operation costs	Hosting other mega events Souvenirs and sport equipment sales Tourism

effective management and planning allows to make profitable and successful Olympic Games.

Olympic Games hosting gives an impulse to the economy of their countries and achieves two main objectives: profits maximizing and positive externalities maximizing.

Private business is more interested in achieving the first objective, state — the second one.

All sources of events and infrastructure funding, which come from the state, regional and local (municipal) levels, constitute public financing. All private domestic and foreign expenses are private funding. Value of public and private funding can be divided into 3 basic models of administration and financing, which can be applied to any Olympic Games:

- Model of public administration and financing (the share of public participation more than 67%);
- Mixed model of administration and financing (the share of public participation from 33% to 67%);
- Model of private administration and financing (the share of public participation less than 33%).

Figure 8 shows which model of administration and finance was typical for the Olympic Games in 1972–2008.

Let us consider which of these models is used in Russia for organization of 2014 Sochi Olympic Games.

Usually it is divided in 4 main levels of administration and financing: the government of the Olympic Games host country, the region/district, the city (the capital of the Games) and the private sector. All these levels were involved in Sochi: the President and the Government of Russia, Krasnodar Region Administration, Sochi Administration and private sector (see Figure 9). The Games Organizing Committee is usually

responsible for Games preparation. In Russia it is the "Sochi 2014" Organizing Committee.

In Russia a state corporation was founded — SC "OlympStroy". It is responsible for region infrastructure development (most of which was built from scratch).

Analogue of creating state corporations were specially created organizations for the preparation of the Games in Sydney, Athens and Turin, which reported directly to governments. A similar scheme is also used in the organization of the Games of XXX Olympiad in London, where a key role (besides LOCOG) was played by the Olympic Development Agency (ODA).

Olympic Winter Games 2014 in Sochi was extremely important for Russia. It gave investment impulse to the development of regional economy, attracted private capital and foreign investments, created high-tech production and environment for economic growth. Games' cost for Russia was more than 50 bn US dollars. It was the most expensive winter games in the history of Olympic Movement.

5. INFLUENCE OF THE OLYMPIC GAMES ON THE NATIONAL ECONOMY

The influence on the Olympics host country economy can be characterized by following factors:

- 1) production growth (construction, sports paraphernalia, pins, complementary goods, sports equipment, food);
 - 2) employment growth:
- temporary: construction workers, the additional hotel and transport service volunteers;

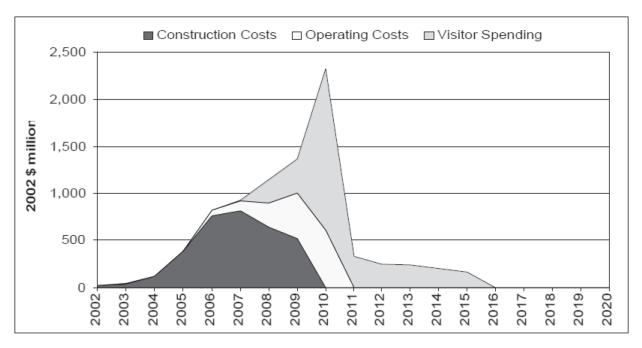


Figure 5. Summary of gross spending related to the 2010 Games. Source: 2010 Winter Olympic and Paralympic Games Report

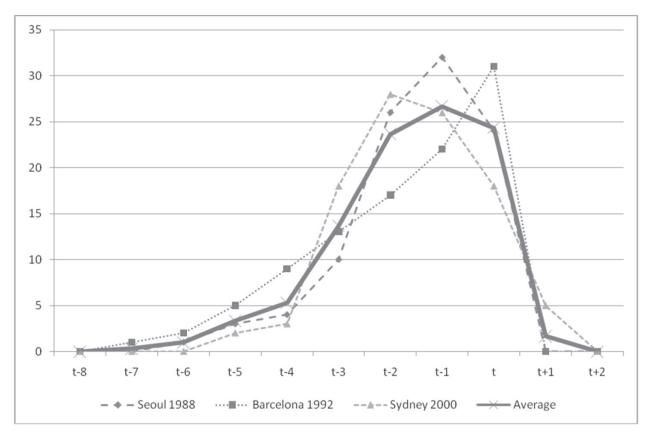


Figure 6. Distribution of the investments for the Olympic Games (%). Created by: Preuss (2009)

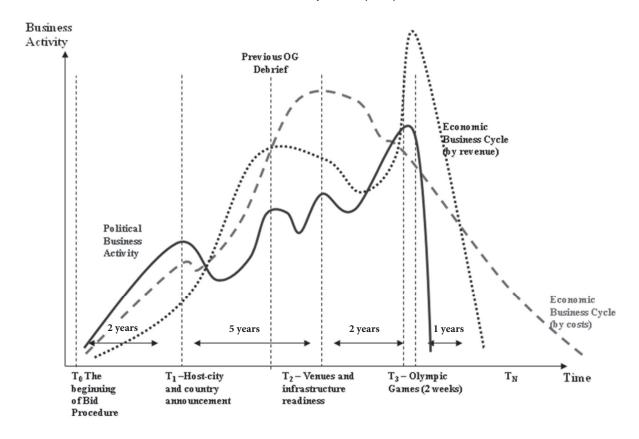


Figure 7. Political and economic business activity inside the Olympic business cycle (a typical issue). Created by: authors

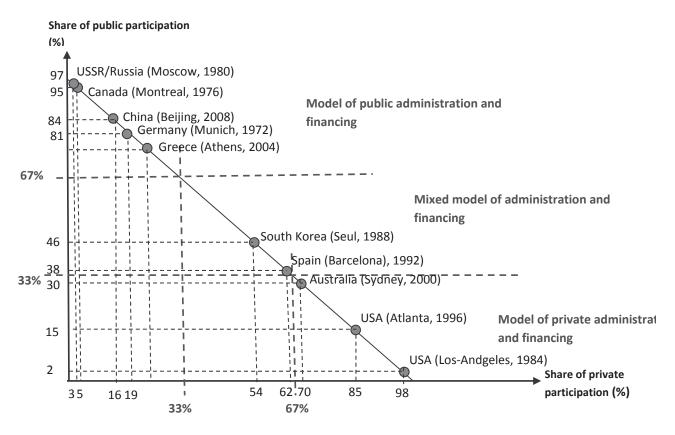


Figure 8. Administration and financing models of summer Olympic Games in 1972–2008. Created by: Preuss (2000), Koval (1978)



Figure 9. The main levels of administration in organizing 2014 Sochi Olympic Winter Games.

- constant: the staff and management of hotels, restaurants and technical personnel;
 - 3) the growth of tourism:
 - turnover of the hotel business;
- increasing load of transportation routes (air, railway, bus etc.);
 - 4) the expansion of the banking sector:
- lending to the population and small and mediumsized businesses;
- exchange transactions (including banking noncash);
 - 5) value of income tax, sales tax,
 - 6) increase in effective demand, etc.

The impact of sport on the GDP can be calculated as the sum of sports sector profit and investment in sports sector in the country. Similar calculation method can be applied to assess the impact of the Olympics for host country's GDP conduct. We can calculate how domestic investments in the Olympics host country increases the growth of goods or services output. For example, it was estimated that sport has direct impact on the economies of Europe (EU-25) in the amount of 41 billion Euros (0,46% of GDP), with taking into account the multiplier — 45 billion Euro (0,51% of GDP-We now analyze the average number of employees in the economy, conducted the Olympics for the past 20 years (see Table 12).

The table shows that employment increased during the Olympic business cycle in each country. This is particularly evident in those countries where data for the full Olympic business cycle is available: Australia (2000) — an increase from 7.8 million to 9.1 million, Japan (1998) — an increase from 62.5 million to 64.5million, Italy (2006) — an increase from 20.2 million to 22.6 million attendees. And in Japan immediately after the Olympic business cycle in 1999, the number of employed in the economy began to decline. Of course, we must make allowances for the fact that there is population growth in these countries which doesn't depend on the Games. But, first of all, the growth was not so intensive, and secondly, the population growth within the Olympic business cycle can increase the number of employed people much later.

At the same time, the total number of unemployed people in the Olympics host countries decreased within the Olympic business cycle (see Table 13).

The data shows that unemployment in Italy during the Italian Olympic business cycle fall down from 2,6 mln. (2000) to 1,8 mln. (2006). The same situation was in Australia where unemployment decreased from 0,75 mln. to 0,67 mln. during 1995–2001. Unemployment growth was fixed only in Japan. It started to increase in 1999 when Japanese Olympic business cycle (1989–1999) finished. The number of unemployed peo-

ple reached 3,1 mln. in 2004 compared to 2,1 mln. in 1995. But this exclusion from our preposition could be explained by the economic crises in Japan at the end of XX century.

The crises took place because of the growth of bad debts, delayed structural modernization of Japanese industries and decrease of private sector average demand.

Let us draw your attention to the growth of unemployment during this period in other European countries, which didn't host the Olympics. For example, unemployment in Austria between 2000 and 2005 increased from 139 up to 208 thousand people, in Belgium from 308 up to 380 thousand people (2004), in Hungary from 263 up to 304 thousand people, in Germany from 3127 up to 4583 thousand people etc. But there were few countries where unemployment decreased: Finland (from 253 down to 220 thousand people), Lithuania (from 274 down to 133 thousand people)¹.

The analyzed data also shows that during the Olympic business cycle employment growth is accompanied by the growth of real wage in the economy.

As we can see from Table 14 real wage indicator increased. Between 1995 and 2005 Japan, Australia, USA, Greece and Italy were on different stages of Olympic business cycle. Japanese Olympic business cycle took place in 1989–1999, Australian — 1991–2001, USA — 1993–2003, Greece — 1995–2005, Italian — 1997–2007. Compared to 1995 real wage index increased up to 110% in Australia, 114% in USA and down 99% in Japan. Data of the Table 14 also shows that real wage indicator in China and Canada which entered in Olympic business cycles later (in 1999 and 2001) also continued to rise.

The dynamics of gross capital assets was always positive, except for Japan (see Table 15). Countries such as Australia and the USA continued to show high growth of capital assets, even after Olympic business cycles in these countries (after 2001 and 2003, respectively). Canada, for which the Olympic business cycle began in 2001, showed very high positive dynamics — 144% in 2001 and 180% in 2005 (compared to 1995).

One of the factors, which influences on aggregate production and supply is capital assets. In Table 15 the dynamics of capital assets in 1992–2014 host countries is presented.

Figure 10 shows the 20-year dynamics of inflation in countries that have organized the Olympic Games. From 5th to 15th years is the period of Olympic business cycle in particular country. For example, for Spain it is the time period from 1978

¹ Rosstat, 2007.

Table 12. Olympic business cycle influence on the annual employment in countries which hosted Olympic Games in 1990–2006 (mln.).

Host country					Years				
	1990	1995	2000	2001	2002	2003	2004	2005	2006
France (Albertville 1992)	22,3	22,2	23,3	23,8	23,9	24,6	24,7	n/a	n/a
Norway (Lillehammer 1994)	2,0	2,1	2,3	2,3	2,3	2,3	2,3	2,3	n/a
USA (Atlanta 1996, Salt-Lake-City 2002)	119	125	135	135	136	138	139	142	n/a
Japan (Nagano 1998)	62,5	64,6	64,5	64,1	63,3	63,2	63,3	63,6	n/a
Australia (Sydney 2000)	7,8	8,2	9,0	9,1	9,2	9,5	9,6	10,0	n/a
Greece (Athens 2004)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Italy (Turin 2006)	21,5	20,2	21,2	21,6	21,9	22,1	n/a	22,6	n/a
China (Beijing 2008)	639	681	721	730	737	n/a	n/a	n/a	n/a

Source: Rosstat, 2007.

Table 13. Olympic business cycle influence on the annual unemployment in countries which hosted Olympic Games in 1995–2008 (thousand).

Host country				Ye	ars			
	1995	2000	2001	2002	2003	2004	2005	2006
France (Albertville 1992)	2899	2590	2285	2341	2656	2727	n/a	n/a
Norway (Lillehammer 1994)	107	81	84	92	107	106	111	n/a
USA (Atlanta 1996, Salt-Lake-City 2002)	7404	5655	6742	8378	8774	8149	7591	n/a
Japan (Nagano 1998)	2100	3190	3400	3590	3500	3130	2940	n/a
Australia (Sydney 2000)	751	608	667	637	607	571	535	n/a
Greece (Athens 2004)	n/a							
Italy (Turin 2006)	2638	2495	2267	2163	2096	n/a	1889	n/a
China (Beijing 2008)	n/a							
Canada (Vancouver 2010)	1402	1084	1164	1272	1289	1234	1173	n/a

Source: Rosstat, 2007.

to 1998 (where 1983–1993 — Olympic business cycle), for Japan — from 1984 to 2004 (where 1983–1993 — Olympic business cycle) etc. Years 1–5 and 16–20 are given just to understand the overall trend indicator.

Thus we can see that inflation significantly decreased during the Olympic business cycle (see Figure 10). This fact can be explained by the fact that in preparation for the Games the production of goods and services required for their organization drastically increased.

Table 14. Real wages indicators during Olympic business cycles in countries Which hosted Olympic Games in 1992–2008 (%, 1995=100%).

Host country				Years			
	2000	2001	2002	2003	2004	2005	2006
France (Albertville 1992)	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Norway (Lillehammer 1994)	n/a	n/a	n/a	n/a	n/a	n/a	n/a
USA (Atlanta 1996, Salt-Lake-City 2002)	112	112	112	112	114	n/a	n/a
Japan (Nagano 1998)	99	99	97	97	96	98	n/a
Australia (Sydney 2000)	110	n/a	110	n/a	110	n/a	n/a
Greece (Athens 2004)	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Italy (Turin 2006)	n/a	n/a	n/a	n/a	n/a	n/a	n/a
China (Beijing 2008)	156	180	207	232	254	n/a	n/a
Canada (Vancouver 2010)	106	110	112	113	115	n/a	n/a

Source: Rosstat, 2007.

Table 15. Capital investments dynamic during the Olympic business cycles in countries which hosted Olympic Games in 1992–2014 (in constant prices,%, 1995=100%).

Host country				Years			
	2000	2001	2002	2003	2004	2005	2006
France (Albertville 1992)	126	129	127	129	134	138	n/a
Norway (Lillehammer 1994)	131	130	129	129	140	155	n/a
USA (Atlanta 1996, Salt-Lake-City 2002)	146	144	139	143	152	161	n/a
Japan (Nagano 1998)	97	96	92	91	92	95	n/a
Australia (Sydney 2000)	121	133	152	164	174	189	n/a
Greece (Athens 2004)	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Italy (Turin 2006)	119	122	127	125	127	126	n/a
China (Beijing 2008)	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Canada (Vancouver 2010)	138	144	146	156	168	180	n/a
United Kingdom (London 2012)	135	139	144	144	153	158	n/a
Russia (Sochi 2014)	79,8	87,9	90,4	103,0	116,0	125,6	n/a

Source: Rosstat, 2007.

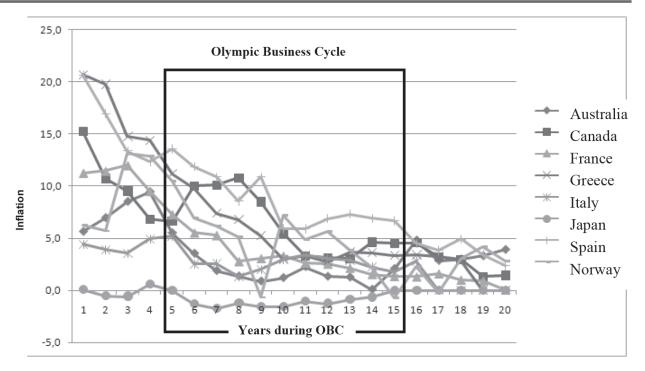


Figure 10. Inflation dynamics during the Olympic business cycles in countries hosted Olympic Games in 1988–2006. **Created:** on the base of World Bank data.

It should be noted that the volume of production (expressed in value added as percent of GDP) reduced during the Olympic business cycles in host countries (see Figure 11).

Demand is one of the key macroeconomic factors that affect economic growth. It includes the growth of consumer, investment and government spending and domestic and foreign investments to the economy.

Dynamics of households final consumption expenditures in countries that host the Games in 1998–2010 years is shown in Table 16.

Let us analyze the dynamics of foreign investments in countries, which organized the Olympiads or Olympic Winter Games from 1988 to 2006 (see Figure 13).

For all countries a stable foreign investments took place on the eve of the start of Olympic business cycle. Their level of investments was almost the same — without fluctuations. For most countries (except Norway and Greece) foreign investment fluctuations and its gradual increase coincides with the start of the Olympic business cycle. In the second half of Olympic business cycle very high levels of investment were demonstrated in Australia, Italy and France.

These examples suggest that the profitability of the Games largely depends on attracting funding for their private investors: the larger the share of private investments in Games financing, the greater possibility that the Games will pay off. The role of the state here is to create the institutional preconditions for attracting

private business to participate in the Games, as well as in macroeconomic management on various stages of the Olympic business cycle.

Conversely, if the government pays more attention to externalities (improving the image of the state, creating the conditions for tourism development, raising the healthy generation) then the Games most often are unprofitable or barely recovered.

However, it is important to note that situation could be radically opposite for the country's economy: the more the state invests in the preparation of the Games (high share of the budget), the more likely that externalities (the main objective of the State) will be maximal, and during the Olympic business cycle and after the Games economic growth and GDP growth rate will be higher (see Figure 15) in comparison with the Olympic business cycles and the period after the elections in countries where funding has prevailed share of private capital (see Figure 14).

The Figure 14a shows that Spain's GDP growth rates (the share of public capital -38%) were highest in the middle of the Olympic business cycle. After completion of the Olympic business cycle growth again increased, but did not reach the previous level. For Australia (share of public capital -30%) growth rate during the Olympic business cycle were quite high - an average of 4% (14b). At the end of the Olympic business cycle growth rates have fallen down. This confirms the idea that for the host country the economy is influenced by the Games not so strongly,

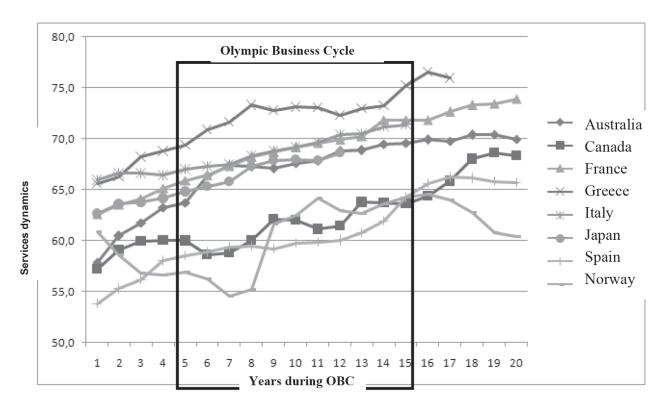


Figure 11. Services dynamics (value added in% of GDP) during the Olympic business cycles in countries hosted Olympic Games in 1988–2006.

Created: on the base of World Bank data.

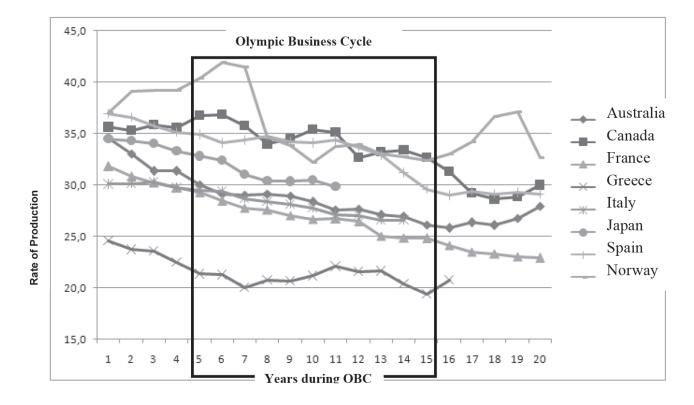


Figure 12. Rate of production (value added in% of GDP) during the Olympic business cycles in countries hosted Olympic Games in 1988–2006.

Created: on the base of World Bank data.

Table 16. Expenditures on final household consumption during the Olympic business cycles in countries which hosted Olympic Games in 1992–2010 (in constant prices,%, 1995=100%).

Host country	2000	2001	2002	2003	2004	2005	2006
France (Albertville 1992)	114	117	119	122	125	128	130
Norway (Lillehammer 1994)	123	126	130	133	141	145	n/a
USA (Atlanta 1996, Salt-Lake-City 2002)	124	127	131	134	139	144	148
Japan (Nagano 1998)	104	106	107	107	109	112	n/a
Australia (Sydney 2000)	122	125	130	137	143	147	n/a
Greece (Athens 2004)	114	118	122	127	133	138	n/a
Italy (Turin 2006)	113	114	114	115	116	117	118
China (Beijing 2008)	n/a						
Canada (Vancouver 2010)	119	122	126	130	134	139	145

Source: Rosstat, 2007.

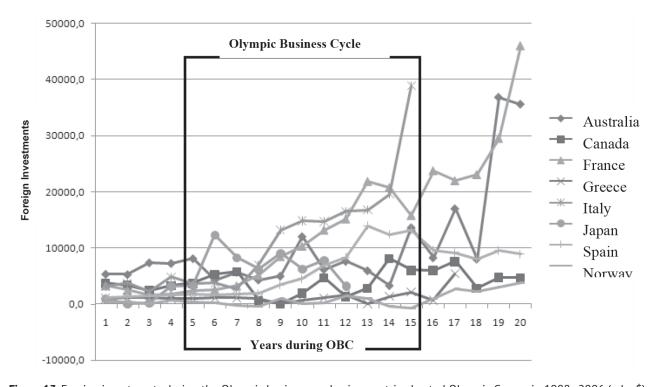


Figure 13. Foreign investments during the Olympic business cycles in countries hosted Olympic Games in 1988–2006 (mln. \$). **Created:** on the base of World Bank data.

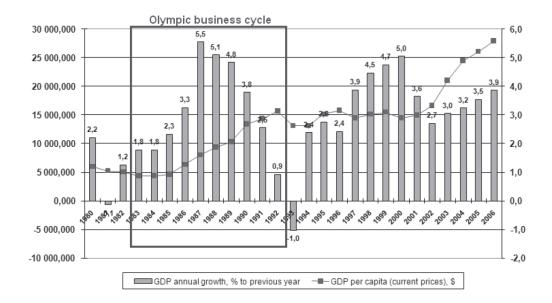
and it is usually short-lived when a high share of private capital is taking place.

In countries where the share of public capital has prevailed, the situation was different. The break-even point on the Games mostly was not achieved, but their influence for national economy was high and had

a long-term perspective. For example, high rates of Greece's GDP growth were noted just at the beginning of the Olympic business cycle and continued after its completion.

In China, where since the early 90-ies of the XX century the negative dynamics of the annual GDP growth

a) Spain



b) Australia

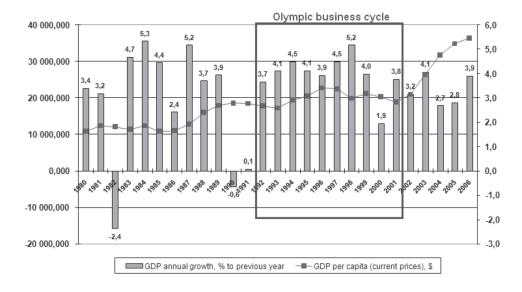


Figure 14. Spain's (a) and Australia's (b) GDP per capita and GDP growth in dynamics (1980–2006). **Created by:** World Bank, International Monetary Fund.

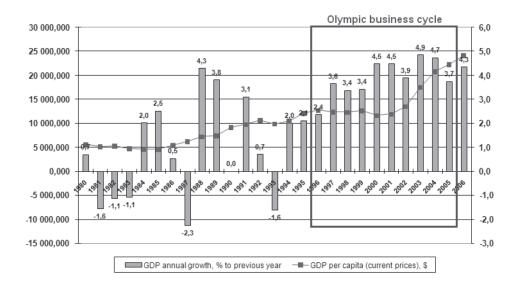
was observed, a positive trend of this indicator starts from the beginning of the Olympic business cycle (see Figure 15).

It should also be noted that analysis of different models of administration and financing must also take into account the size of the economies themselves. This assumption can be considered by the example of the U.S. economy. Olympic Games of 1984 and 1996 in the United States had no noticeable ef-

fect on the economy in view of the fact that the ratio of the budget of the Games and the U.S. budget was too small. GDP per capita in the United States was growing steadily, but the GDP growth rates ranged (see Figure 16).

Thus the effectiveness of the Olympic business cycle can be understood in two ways. On one hand, it is a direct return of costs of Games' organizing and hosting. These conditions are good especially

a) Greece



b) China

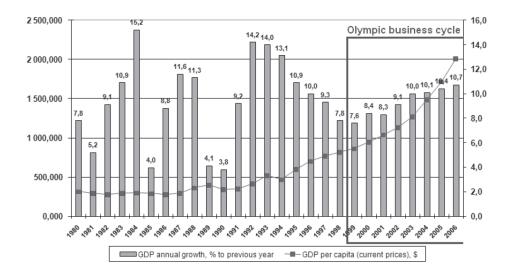


Figure 15. Greece's (a) and China's (b) GDP per capita and GDP growth in dynamics (1980–2006). **Created by:** World Bank, International Monetary Fund.

for private firms. On the other hand, effectiveness means that through the Games the preconditions for long-term and sustainable economic development were created. If the model of private administration and financing were used during the Games organizing the payback on the Games means a success for the organizers and investors. The citizens of the host country, with high probability, slightly feel the economic impact of this case. If the model of

public administration and financing was used then the budget of the Olympic Games for more than 2/3 was financed from public sources. This suggests that the state wants to use the Olympic games mainly as a way to improve infrastructure, to stimulate aggregate demand and improve the quality and living standard of people. Often these efforts cannot be fully reflected in the short run. They tend to have long-term effect.

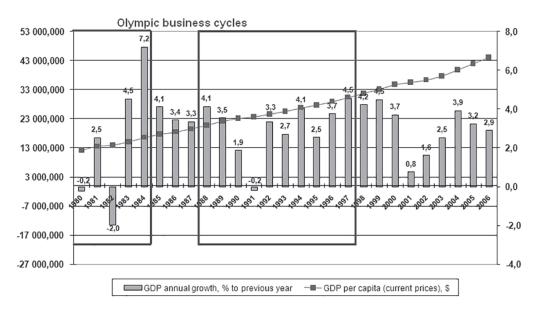


Figure 16. USA GDP per capita and GDP growth in dynamics (1980–2006). **Created by:** World Bank, International Monetary Fund.

6. CONCLUSION: THE PROBLEMS OF POLITICAL ECONOMY OF OLYMPIC GAMES DEVELOPMENT IN THE LIGHT OF CONSTITUTIONAL ECONOMY

The analysis shows not only the advantages but also disadvantages of the Olympic movement. These deficiencies stem from the fact that the IOC is not always able to ensure efficient allocation and use of public resources. This is primarily due to the following factors:

- 1. Information asymmetry in decision-making process (the existence of special interest groups, an active lobby, a large bureaucracy).
- 2. Imperfection of the political process (lobbying, manipulation of votes due to the imperfections of the Rules, logrolling, the search for political rents, political-economic cycle, etc.).
- 3. Limited control over the bureaucracy. The rapid growth of the IOC apparatus creates new and emerging issues in this area.
- 4. Failure to fully provide for the IOC and to monitor the immediate and long-term consequences of its decisions. The fact that economic agents alter the meaning and direction taken by the IOC's shares, leads to consequences, which may be different from the original goals.

IOC activities aimed at correcting "failures" of the Olympic movement, in general, are far from perfect level. That is why it is necessary to strictly control the consequences of its activities and to adjust it depending on the socio-economic and political situation. One possible way to solve these problems is to increase the role of the Olympic Charter as social capital. Although

it has long existed, it is necessary to create effective enforcement measures to implement it.

REFERENCES

2010 Winter Olympic and Paralympic Games Report.

Alesina A., Roubini N., Cohen G.D. (1997), Political Cycle ad Macroeconomy. Cambridge; L.: MIT Press.

Andreff, W. (1986), Economie du sport / Wladimir Andreff, Jean-François Nys. — Paris:. Presses universitaires de France.

Athens 2004 Report: Sponsorship

Buchanan J.M. (2006), Limits of Liberty. Between Anarchy and Leviathan. 1987. Ch. 7.

2006 Marketing Fact File, IOC report

Games of XXXI Olympiad 2016 Working Group Report, Lausanne, 2008 McRay C.D. (1977) A Political Model of the Business Cycle, Journal of Political Economy. Vol. 85. P. 239–263.

Nordhaus, W. (1975), The Political Business Cycle, Review of Economic Studies. N42, P. 169–190.

Olympic Charter (in force as from 7 July 2007), IOC

Preuss, H. (2000), Economics of the Olympic Games. Hosting the Games 1972–2000. Sydney: Walla Walla Press in conjunction with the Centre for Olympic Studies, The University of New South Wales. Preuss, H. (2009), The Olympics. Handbook on the Economics of Sport. Edited by Wladimir Andreff abd Stefan Szymanski. Edward Elgar Publishing, UK, 2009

Fort, R.D. (2005), Sports Economics. — 2^{nd} edition, Pearson Princess Hall

Schwarz E., Hunter J. (2008), Advanced Theory and Practice in Sport Marketing. First Edition. Elsevier

Sochi 2014 Candidature File, Sochi, 2006

Sullivan, Arthur; Steven M. Sheffrin (2003). Economics: Principles in action. Upper Saddle River, New Jersey 07458: Pearson Prentice Hall.

Olympic Bids Voting Results (1932-2020)

Annex 1.

	LOCATION AND						Ro	und		
DATE	SESSION		GAMES	BID CITY (Winner in BOLD)	1 st	2 nd	3 rd	4 th	5 th	6 th
	Buenos-			Tokyo, Japan	42	-	60			
7.09.2013	Aires,	125	2020	Istanbul, Turkey	26	49	36			
	Argentina			Madrid, Spain	26	45				
				PyeongChang, South Korea	63					
06.07.2011	Durban, South Africa	123	2018	Munich, Germany	25					
	Journ Amea			Annecy, France	7					
				Rio-de-Janeiro, Brazil	26	46	66			
				Madrid, Spain	28	29	32			
				Tokyo, Japan	22	20				
				Chicago, USA	18					
				Doha, Qatar						
	Copenhagen,			Prague, Czech Republic						
02.10.2009	Denmark	121	2016	Baku (Azer)						
				Sochi, Russia	34	51				
				PyeongChang, South Korea	36	47				
				Salzburg, Austria	25	-				
				Almaty, Kazakhstan						
				Borjomi, Georgia						
	Guatemala City,		2014,	Jaca, Spain						
07.04.2007	Guatemala	119	Winter	Sofia, Bulgaria						
				London, United Kingdom	22	27	39	54		
				Paris, France	21	25	33	50		
				Madrid, Spain	20	32	31	-		
				New York, USA	19	16	-	-		
				Moscow, Russia	15	-	-	-		
				Leipzig, Germany						
				Rio de Janeiro, Brazil						
				Istanbul, Turkey						
07.06.2005	Singapore	117	2012	Havana, Cuba						
				Vancouver, Canada	40	56				
				PyeongChang, South Korea	51	53				
				Salzburg, Austria	16	-				
				Andorra la Vella, Andorra						
				Berne, Switzerland						
	_			Harbin, China						
	Prague, Czech		2010,	Jaca, Spain						
07.02.2003	Republic	115	Winter	Sarajevo, Bosnia-Herzegovina						
				Beijing, China Candidature File	44	56				
				Toronto, Canada	20	22				
				Paris, France	15	18				
				Istanbul, Turkey	17	9				
				Osaka, Japan	6	-				
				Bangkok, Thailand						
				Cairo, Egypt						
				Havana, Cuba						
	Mossow			Kuala Lumpur, Malaysia						
7/13/2001	Moscow, Russia	112	2008	Seville, Spain						

				Turin Italy	EZ			1		
				Turin, Italy	53					
				Sion, Switzerland	30					
				Helsinki, Finland	-					
				Klagenfurt, Austria	-					
	Seoul, South	400	2006,	Poprad-Tatry, Slovakia	-					
6/19/1999	Korea	109	Winter	Zakopane, Poland	-					
				Athens, Greece	32		38	52	66	
				Rome, Italy	23		28	35	41	
				Cape Town, South Africa	16	62	22	20	-	
				Stockholm, Sweden	20		19	-	-	
				Buenos Aires, Argentina	16	44	-	-	-	
				Istanbul, Turkey						
				Lille, France						
				Rio de Janeiro, Brazil						
				St. Petersburg, Russia						
	Lausanne,			San Juan, Puerto Rico						
09.05.1997	Switzerland	106	2004	Seville, Spain						
				Salt Lake City, USA	54					
				Ostersund, Sweden	14					
				Sion, Switzerland	14					
				Quebec City, Canada	7					
				Graz, Austria						
				Jaca, Spain						
				Poprad-Tatry, Slovakia						
	Budapest,		2002,	Sochi, Russia						
6/16/1995	Hungary	104	Winter	Tarvisio, Italy						
				Sydney, Australia	30	30	37	45		
				Beijing, China	32	37	40	43		
				Manchester, United Kingdom	11	13	11	-		
	Monte-Carlo,			Berlin, Germany	9	9	-	-		
9/23/1993	Monaco	101	2000	Istanbul, Turkey	7	-	-	-		
				Nagano, Japan	21		30	36	46	
				Salt Lake City, USA	15	59	27	29	42	
				Ostersund, Sweden	18		25	23	_	
	Birmingham,		1000	Jaca, Spain	19		5	-	_	
6/15/1991	United Kingdom	97	1998, Winter	Aosta, Italy	15	29	-	-	_	
-,,, -				Atlanta, USA	19	20	26	34	51	
				Athens, Greece	23	23	26	30	35	
				Toronto, Canada	14	17	18	22	-	
				Melbourne, Australia	12	21	16	-	_	
				Manchester, United Kingdom	11	5	-	_	_	
9/18/1990	Tokyo, Japan	96	1996	Belgrade, Yugoslavia	7			-	_	
// 10/ 17/0	ionyo, sapan	,0	1770	Lillehammer, Norway	25	30	45			
				Ostersund, Sweden	19	33	39	-		
			40	Anchorage, USA	23	22	-	-		
9/15/1988	Seoul, South Korea	94	1994, Winter	Sofia, Bulgaria	17		_	-		
2/T2/T200	Noted	74	willei	Jona, Bulyana	1/		_			

				Barcelona, Spain	29	37	47											
				Paris, France	19	20	23	1										
				Belgrade, Yugoslavia	13	11	5											
				Brisbane, Australia	11	9	10	1										
				Birmingham, United Kingdom	8	8	10	1										
			1992	Amsterdam, Netherlands	5	-	-	1										
			1992	Albertville, France	19	26	29	42	_	51								
				Sofia, Bulgaria	25	25	28	24	-	25								
				Falun, Sweden	10	11	11	11	41	9								
				Lillehammer, Norway	10	11	9	11	40	-								
				Cortina d'Ampezzo, Italy	7	6	7	_	40	_								
					7		/											
10/16/1006	Lausanne,	01	1992,	Anchorage, USA		5	-	-		-								
10/16/1986	Switzerland	91	Winter	Berchtesgaden, West Germany	6	-	-	-	-	-								
			1000	Seoul, South Korea	52													
			1988	Nagoya, Japan	27	-		-										
	Baden-			Calgary, Canada	35	48												
0.70.41004	Baden, West	0.4	1988,	Falun, Sweden	25	31	-											
9/30/1981	Germany	84	Winter	Cortina d'Ampezzo, Italy	18	-												
			1984	Los Angeles, USA	-	-		-										
				Sarajevo, Yugoslavia	31	39	-											
	Athens,		1984,	Sapporo, Japan	33	36												
5/18/1978	Greece	80	Winter	Gothenburg, Sweden	10	-		_										
				Moscow, USSR	39													
			1980	Los Angeles, USA	20	-		_										
10/13/1974	Vienna, Austria	75	1980, Winter	Lake Placid, USA	_	_												
	71031110		7.030.10	7 (0.50.10								Montreal, Canada	25	41				
				Moscow, USSR	28	28												
			1976	Los Angeles, USA	17	-												
				Denver, USA (Innsbruck Hosted)	29	29	39											
				Sion, Switzerland	18	31	30											
	Amsterdam.		1976,	Tampere, Finland	12	8	-											
05.12.1970	Netherlands	69	Winter	Vancouver-Garibaldi, Canada	9	-	-											
				Munich, Germany	29	31												
				Detroit, USA	6	-												
				Madrid, Spain	16	16												
			1972	Montreal, Canada	6	13												
			-	Sapporo, Japan	32													
				Banff, Canada	16													
			1072	Lahti, Finland	7													
4/25/1966	Rome, Italy	64	1972, Winter	Salt Lake City, USA	7													
,, _ ,,	,,			Grenoble, France	15	18	27											
				Calgary, Canada	12	19	24	1										
				Lahti, Finland	11	14		1										
				Sapporo, Japan	6	-	_	1										
	lanak : -!		1000	Oslo, Norway	4	-	_	1										
1/28/1964	Innsbruck, Austria	61	1968, Winter	Lake Placid, USA	3	_	_	1										
2,20,201	7.03010			Mexico City, Mexico	30													
				Detroit, USA	14													
	Baden-			Lyon, France	12	1												
10/18/1963	Baden, West Germany	60	1968	Buenos Aires, Argentine	2													
10/10/1903	ocilially	00	1,000	Ducilos Aires, Argentine														

				I - .	7.4				
				Tokyo, Japan	34				
				Detroit, USA	10				
				Vienna, Austria	9				
			1964	Brussels, Belgium	5				
				Innsbruck, Austria	49				
	Munich,		1964,	Calgary, Canada	9				
5/26/1959	Germany	55	Winter	Lahti, Finland	0				
				Rome, Italy	15	26	35		
				Lausanne, Switzerland	14	21	24		
				Brussels, Belgium	6	-	-		
				Budapest, Hungary	8	1	-		
				Detroit, USA	6	11	-		
				Mexico City, Mexico	6	-	-		
6/15/1955			1960	Tokyo, Japan	4	-	-		
<u> </u>			<u> </u>	Squaw Valley, USA	30	32			
				Innsbruck, Austria	24	30			
				St. Moritz, Switzerland	3	-			
			1960,	Garmisch-Partenkirchen, Germany	5	-			
6/16/1955	Paris, France	50	Winter	Karachi, Pakistan	0	-			
				Melbourne, Australia	14	18	19	21	
				Buenos Aires, Argentina	9	12	13	20	
				Mexico City, Mexico	9	3	-	-	
				Chicago, USA	1	-	-	-	
				Detroit, USA	2	4	4	-	
				Los Angeles, USA	5	4	5	-	
				Minneapolis, USA	1	-	-	-	
				Philadelphia, USA	1	_	-	_	
				San Francisco, USA	0	_	-	_	
			1956	Montreal, CAN	0	_	-	_	
				Cortina d'Ampezzo, Italy	31				
				Colorado Springs, USA	2				
			1057	Lake Placid, USA	1				
4/28/1949	Rome, Italy	43	1956, Winter	Montreal, Canada	7				
., = 0, = 1			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Helsinki, Finland	14	15			
				Los Angeles, USA	4	5			
				Minneapolis, USA	4	5			
				Amsterdam, Netherlands	3	3			
				Detroit, USA	2	-			
				Chicago, USA	1	_			
				Philadelphia, USA	0	_			
				Athens, Greece	0	_			
				Lausanne, Switzerland	0	_			
			1952	Stockholm, Sweden	0	_			
			1///	Oslo, Norway	18				
				Cortina d'Ampezzo, Italy	9				
6/21/1947	Stockholm, Sweden	40	1952, Winter	Lake Placid, USA	1				
0/41/194/	_ Swedell	_+∪	Winter	Lake Flaciu, USA	1				

				I				
				London, UK				
			1948					
			1740					
			(London	Baltimore, USA				
			selected without	Lausanne, Switzerland				
			election	Los Angeles, USA				
			after end	Minneapolis, USA				
			of World War II)	Philadelphia, USA				
				Saint Moritz, Switzerland				
_	_	_	1948, Winter	Lake Placid, USA				
			1944	London, UK	11			
			(Games	20114011, 011				
			Cancelled,					
			World War	Rome, Italy	2			
			II)	-	1			
				Detroit, USA				
				Lausanne, Switzerland	0			
				Athens, Greece	0			
				Budapest, Hungary	0			
				Helsinki, Finland	0			
			1944,	Montreal, Canada				
			Winter	Cortina d'Ampezzo, Italy	16			
			(Games					
			Cancelled,					
			World War	Montreal, Canada	12			
_	_	_	11)	Oslo, Norway	2			
				Berlin, Germany	43			
				Barcelona, Spain	16			
				Alexandria, Egypt	10			
				Budapest, Hungary				
				Buenos Aires, Argentina				
				Cologne, Germany				
				Dublin, Ireland				
				Frankfurt, Germany				
				Helsinki, Finland				
				Lausanne, Switzerland				
			1	Lausanne, SWITZERTANO				
1								
				Nuremberg, Germany				
			1936,	Nuremberg, Germany Rio de Janeiro, Brazil				
			1936, Summer	Nuremberg, Germany Rio de Janeiro, Brazil Rome, Italy				
			Summer	Nuremberg, Germany Rio de Janeiro, Brazil Rome, Italy Garmisch-Partenkirchen, Germany				
			Summer 1936,	Nuremberg, Germany Rio de Janeiro, Brazil Rome, Italy Garmisch-Partenkirchen, Germany Montreal, Canada				
-	-	-	Summer 1936, Winter	Nuremberg, Germany Rio de Janeiro, Brazil Rome, Italy Garmisch-Partenkirchen, Germany				
-	-	-	Summer 1936, Winter 1932,	Nuremberg, Germany Rio de Janeiro, Brazil Rome, Italy Garmisch-Partenkirchen, Germany Montreal, Canada St. Moritz, Switzerland				
-	-	-	Summer 1936, Winter	Nuremberg, Germany Rio de Janeiro, Brazil Rome, Italy Garmisch-Partenkirchen, Germany Montreal, Canada St. Moritz, Switzerland Los Angeles, USA				
-	-	-	Summer 1936, Winter 1932,	Nuremberg, Germany Rio de Janeiro, Brazil Rome, Italy Garmisch-Partenkirchen, Germany Montreal, Canada St. Moritz, Switzerland Los Angeles, USA Lake Placid, USA	-			
-	-	-	Summer 1936, Winter 1932,	Nuremberg, Germany Rio de Janeiro, Brazil Rome, Italy Garmisch-Partenkirchen, Germany Montreal, Canada St. Moritz, Switzerland Los Angeles, USA Lake Placid, USA Montreal, Canada				
-	-	-	Summer 1936, Winter 1932,	Nuremberg, Germany Rio de Janeiro, Brazil Rome, Italy Garmisch-Partenkirchen, Germany Montreal, Canada St. Moritz, Switzerland Los Angeles, USA Lake Placid, USA Montreal, Canada Oslo, Norway				
-	-	-	Summer 1936, Winter 1932,	Nuremberg, Germany Rio de Janeiro, Brazil Rome, Italy Garmisch-Partenkirchen, Germany Montreal, Canada St. Moritz, Switzerland Los Angeles, USA Lake Placid, USA Montreal, Canada Oslo, Norway Yosemite Valley, CA, USA				
-	-	-	Summer 1936, Winter 1932,	Nuremberg, Germany Rio de Janeiro, Brazil Rome, Italy Garmisch-Partenkirchen, Germany Montreal, Canada St. Moritz, Switzerland Los Angeles, USA Lake Placid, USA Montreal, Canada Oslo, Norway Yosemite Valley, CA, USA Lake Tahoe, CA, USA				
-	-	-	Summer 1936, Winter 1932,	Nuremberg, Germany Rio de Janeiro, Brazil Rome, Italy Garmisch-Partenkirchen, Germany Montreal, Canada St. Moritz, Switzerland Los Angeles, USA Lake Placid, USA Montreal, Canada Oslo, Norway Yosemite Valley, CA, USA Lake Tahoe, CA, USA Bear Mountain, NY, USA				
-	-	-	1936, Winter 1932, Summer	Nuremberg, Germany Rio de Janeiro, Brazil Rome, Italy Garmisch-Partenkirchen, Germany Montreal, Canada St. Moritz, Switzerland Los Angeles, USA Lake Placid, USA Montreal, Canada Oslo, Norway Yosemite Valley, CA, USA Lake Tahoe, CA, USA Bear Mountain, NY, USA Duluth, MN, USA				
04.10.1929	- Lausanne, Switzerland	27	Summer 1936, Winter 1932,	Nuremberg, Germany Rio de Janeiro, Brazil Rome, Italy Garmisch-Partenkirchen, Germany Montreal, Canada St. Moritz, Switzerland Los Angeles, USA Lake Placid, USA Montreal, Canada Oslo, Norway Yosemite Valley, CA, USA Lake Tahoe, CA, USA Bear Mountain, NY, USA				