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Introduction. In modern world not **Results**: only the certain producer, but also the development in different regions of general country in has to be competitive. Strengthening of competition on the global market economic clusters activity existing in causes the necessity in creation of new forms of business which provide survival and prosperity of national of entrepreneurial activity of textile producers and the state in general. Rather effective solution of a problem of ensuring competitiveness on the offered. national and global markets is the Conclusions: The necessity of taking concept of national economy clustering. Creation of a territorial cluster does not guarantee its high efficiency at all. While implementing each of the cluster project developers face with an issue of efficiency assessment of its functioning.

Hypothesis. The research of cluster entrepreneurship effectiveness helps to identify the most influential factors of its realization, directions of cluster initiatives contribution through the changes of the development vector.

The aim of the research is to develop methodical justification of efficiency assessment of certain industry sector cluster functioning.

Methodology of the research is based on the Michael Porter's concept of territorial clusters development.

OF ASSESSMENT **CLUSTER** TEXTILE ENTREPRENEURSHIP EFFICIENCY

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> The features of cluster Ukraine have been analyzed. The approaches of efficiency assessment of scientific literature have been studied. The method of efficiency assessment industry clusters taking into account sectoral features of business has been

into account the industrial sectors of clusters helps to identify priority directions of clustering in many regions of Ukraine, the biggest potential of clustering and interindustrial cooperative links. Using the results of the research in Ukrainian practice will contribute to the improvement of territorial policy in the sphere entrepreneurial of cluster development of economy. It will give opportunity to increase an the competitiveness of national economy on the global market.

Keywords: entrepreneurship; textile and industrial clusters; efficiency assessment; clustering; agglomeration map; cluster initiatives.

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### ОЦІНКА ЕФЕКТИВНОСТІ КЛАСТЕРНОГО ТЕКСТИЛЬНОГО ПІДПРИЄМНИЦТВА

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Вступ. У сучасному світі конкурентоспроможними повинен бути не тільки окремий виробник, але і країна в цілому. Посилення конкуренції на глобальному ринку викликає необхідність у створенні нових форм ведення бізнесу, які забезпечують виживання і процвітання національних виробників і держави в цілому. Досить ефективним вирішенням проблеми забезконкурентоспроможності печення на національному і глобальному ринках є концепція кластеризації національної економіки. Створення територіального кластера аж ніяк не гарантує його високу ефективність. При реалізації кожного кластерного проекту перед розробниками постає питання про оцінку ефективності його функціонування.

Гіпотеза. Дослідження ефективності кластерного підприємництва дозволяє визначити найвпливовіші чинники його реалізації, напрями сприяння кластерним ініціативам через зміну вектору розвитку.

Мета дослідження полягає в розробці методичного обґрунтування оцінки ефективності функціонування кластера певної галузевої приналежності.

Методологія дослідження базується на концепції кластерного розвитку територій М. Портера.

Результати: Проаналізовано особливості кластероутворення у регіонах України, існуючі в літературі підходи до оцінки ефективності діяльності економічних кластерів. Запропоновано методику для оцінки ефективності підприємницької діяльності текстильно-промислових кластерів, що враховує галузеву специфіку бізнесу. Висновки: Необхідність врахування галузевої приналежності кластерів дозволяє визначити пріоритетні напрями кластеризації у багатьох регіонах України, найбільший потенціалом кластеризації та міжгалузеві кооперативні зв'язки. Застосування результатів дослідження в українській практиці сприятиме вдосконаленню територіальної політики в області кластерного підприємницького розвитку економіки і дозволить підвищити конкурентоспроможність національної економіки на глобальному ринку.

Ключові слова: підприємництво; текстильно-промислові кластери; оцінка ефективності; кластероутворення; агломераційна карта; кластерні ініціативи. **Problem statement.** The analysis of international experience shows that textile and light industries are the most adapted ones for the market conditions. These industries have the highest turnover of capital and production of essential social-oriented goods, the demand for which is never limited. Modern social and economic development of Ukraine is going on in accordance with the intensive influence of global economy, rigid strengthening of competition and the increase of the role of transnational factors of development. Therefore, the use of clusters, which are the elements of territorial structure of economy, allows to develop the group of geographically localized objects of different functions, including objects of innovative infrastructure, multilateral links, which complement each other and, thereby, to increase competitive advantages of separate organizations and the system in general.

# The analysis of recent publications and the unsolved part of the problem.

In economics the issues, connected with the development, peculiarities of creation and functioning of clusters, are widely covered both in domestic and foreign scientific literature. Among domestic scientists we should mention I. Gryshchenko [1], L. Ganushchak-Yefimenko [2], S. Mochernyi, V. Fedorenko [1], T. Voronkova [1], V. Shcherbak [2] and others. The most famous foreign researches in the sphere of clustering are M. Porter [3], A. Marshal [4], R. Keech [5], M. Munger [5], C. Simon [5], M. Ketels [6], O. Memedovic [6].

The issue of the development of methodological framework for the efficiency assessment of economic clusters is covered in scientific works of M. Buianov, L. Dmytryev [7], H. Volkovska, P. Yanovskyi [8], Ye. Velykaia, A. Papian [9]. Analysis of publications on this issue gives an opportunity to name several basic approaches to the efficiency assessment of industrial clusters: method, based on the measuring of partial effects, caused by clusters (assessment of the synergetic effect; assessment of the effect, caused by the decrease of transactional losses; synergy of infrastructure; effect, caused by the diffusion of innovations); methods of clusters efficiency assessment as the investment projects (NPV; Real option approach); parametric methods of indicators efficiency assessment (key of clusters clusters activity: multiparametric approach); methods based on the assessment of clusters competitiveness (assessment of different aspects of clusters competitiveness: market position, technological leadership and capacity to renewal; assessment of factors of current and strategic competitiveness of clusters). All the given methods have one common advantage - universality of their use, because the authors don't limit the sphere of their usage. But at the same time, such kind of multifunctionality can be considered as a disadvantage, because the correction of indicators and effects according to the sectoral affiliation of clusters is not provided in their works. In real circumstances it may lead to incorrect results of efficiency assessment. In our opinion, the specificity of industry should be taken into account while forming the economic clusters. Consideration of industrial features will provide the clear understanding, in which directions the competitive advantages should be formed, which aspects should be taken into account while estimating clusters effectiveness, what is the comparative basis according to separate estimating criteria.

The aim of the research is to ground the features of clustering in different regions of Ukraine and to define the most reasonable approach on efficiency assessment of textile and industrial cluster functioning.

The results of the research. Positive experience of economically developed countries has influenced on the Ukrainian business and resulted in formation of cluster initiatives. Clusters functioning promised the rapid and significant income, market stability, favorable competitive positions and strengthening of its members as a result of synergetic effect. In Ukraine the idea of clustering was developed by the initiative of the economist Wolfgang Preis (USA) by the end of the 1990's. It was implemented in <u>Khmelnytsky Region</u> in several clusters at once: tailoring, building materials and agricultural. The new governmental public organization 'The Podillya Pershyi Association' (PPA) was formed to develop these clusters [10].

The Concept of the Cabinet of Ministers of Ukraine on the National Program on Small and Medium-sized Enterprises for years 2014-2024 (Order №641-p; August 28, 2013), The Concept of the Cabinet of Ministers of Ukraine on the National Target Economic Program on Industry Development for the period till 2020 (Order №603-p; July 17, 2013), The Concept of the Cabinet of Ministers of Ukraine on Reforming the State Policy in Innovative Area (Order №691-p; September 10, 2012) provide the development and implementation of the programs of small and medium-sized enterprises integration into the national and international innovational and technological clusters; definition of the notion "clustering" on the legislative level and the order of clusters financing; creation of scientific, innovational and industrial clusters in high-technological spheres; simplification of the innovational clusters forming procedures. Several examples of clusters initiatives implementation in Ukraine are given in Table 1.

In our state legal bases of the economic cluster formation have not been created yet, though its essence and purpose are well-known. Actually clusters in Ukraine began to develop as a unification of enterprises on the basis of economic interests and on any contractual form between participants of a cluster. Let's consider peculiar features of clustering in different regions of Ukraine on the basis of short characteristics of cluster initiatives embodied in them for identification of dependence between clustering development and harmonious development of the region.

Table 1

	Examples of clusters initiatives implementation in Ukraine						
	1998	2006	2008	2008	2008		
	"PPA"	Industrial park	Cluster	Creation of	Analysis of		
	First cluster events	"Solomonovo"	associations in	special online	economy of		
	(tours with local	Logistics cluster	IT sphere and	portal for the	regions and		
	and international	"Bereg-Karpaty"	wood industry	information	clusters		
	companies,	Legislation on	Inclusion of the	and contacts			
	trainings etc.).	local levels on the	cluster concept	sharing among	Development of		
	In clusters:	contribution to the	into the strategy	the members of	the strategy of		
	tailoring;	development of	of city	Ukrainian	cluster		
its	building materials; building; food;	clustering (for	development,	regional	development in		
ven	building;	example, the	conducting of	clusters	separate regions		
Ε	food;	decision of the	research on the	The studies of	(based on the		
	animal husbandry	regional council	creation of local	clusters activity	conclusion of		
	and farming;	from April 24,	clusters.	are conducted.	the Monitoring		
	tourism.	2009 "On the			group supported		
		creation of cross-			by the		
		border centers of			"Effective		
		transportation			Management"		
		services and			Fund)		
		logistics").					
	The establishment	Industrial park	IT-cluster in	Doctor	One of the		
	of cluster	doesn't fully	Lviv Region is	Sokolenko`s	clusters		
	associations	corresponds to the	active and	team conducted	development		
	"Building cluster",	cluster approach;	provides the	several	strategies		
	"Tailoring cluster"	implementation of	companies with	researches on	resulted in the		
s	and tourism cluster	the events on	real benefits	the issue of	creation of		
ult	"Kamianets"	cooperation	from their	clusters in	an active IT-		
Results	Clusters don't	between logistics	cooperation;	2005 and 2010;	cluster		
Ч	cooperate actively,	clusters is not	there exists the	the map of			
	associations are	active, benefits	certain level of	cluster			
	passive and almost	from the cross-	activity of wood	organizations			
	invisible on the	border	industry	was published.			
	national and	cooperation are	associations.	_			
	international levels.	not being used.					

## **Examples of clusters initiatives implementation in Ukraine**

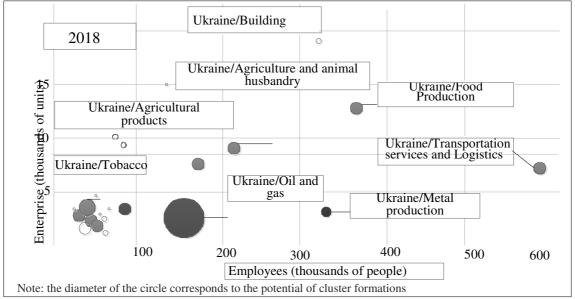
Definition of the priority directions of clustering in many regions of Ukraine does not consider features of industrial development, without taking into account industries with the largest clustering potential and formed interindustrial cooperative bonds (for example, shipbuilding and sea-industry in Mykolaiv Region) (Table 2). In the majority of regional strategies we can observe copying of purposes and strategic priorities of regional development from the strategies of other regions, including the priority directions and sectors for clusters creation and development (first of all, on creation of agricultural clusters and for the development of entrepreneural environment) [11].

Table 2

Ose of the cluster model in unrefert regions of Okrame			
Purpose	Region	Number of regions	
Increase of agricultural production	Vinnytsya Region, Zhytomyr Region,	9	
effectiveness and realization of	Zakarpattya Region, Ivano-Frankivsk		
agricultural potential	Region, Kirovograd Region, Poltava		
	Region, Ternopil Region, Chernivtsi		
	Region, Chernihiv Region		
Implementation of the innovational	Vinnytsya Region, Zhytomyr Region,	7	
model of industrial development	Zakarpattya Region, Kirovograd Region,		
	Ternopil Region, Chernivtsi Region		
Strengthening of the SMEs potential	Volyn Region, Poltava Region,	6	
and development of their infrastructure	Chernivtsi Region, Donetsk Region, Lviv		
	Region, Kherson Region		
Insurance of the recreational potential	Ternopil Region, Kherson Region,	4	
and tourism sphere development	Chernivtsi Region, Chernihiv Region		
Stimulation of cooperation between	Vinnytsya Region, Zakarpattya Region,	3	
cross-border and border territories	Lviv Region		
Decrease of development	Kyiv Region, Mykolaiv Region	3	
disproportions in the region			
Insurance of the alternative energy	Ivano-Frankivsk Region, Chernihiv	2	
sector development	Region		

Use of the cluster model in different regions of Ukraine

As the geographical localization of enterprises is considered to be one of the most essential conditions of a cluster creation, we offer to reveal the presence of clusters potential according to this feature in different spheres of economic activity of Ukraine basing on the analysis of the agglomeration map (Figure 1) [11].



*Resourse: author`s calculations according to the European Cluster Observatory data* [12]. *Figure 1.* **Agglomeration map of cluster potential in Ukraine** 

The offered method of efficiency assessment of textile industry clusters proves the prospects of such kind of entrepreneurial integration and gives an opportunity to reveal the problems of this type of clustering [13] (Table 3).

Table 3

Main problems of textile industry development [15]				
Problem	Essence of the problem			
	• lack of infrastructure of personnel training (system of technical			
	training colleges);			
1. Personnel-based.	• increase of working professions prestigiousness in certain spheres			
1. I CISOIIICI-Dascu.	by the means of the wages growth;			
	• considerable shortage of personnel;			
	• insufficient qualification of personnel.			
	• weak organization of the market of producers;			
2. Market-based.	• low competitiveness of products in comparison with their foreign			
	analogs			
	• low investment attractiveness;			
3. General economic.	• high dependence of expenses on the level of prices for major			
5. General economic.	factors;			
	• weak contacts between producers in technological chain.			
	• under-utilization of production capacities as a result of their			
4. Production-based.	demolition;			
+. 1 10000011-0aseu.	• technological gap of the industry;			
	• high resource intensity of applied technologies.			

Main problems of textile industry development [13]

Multiparametric approach is the basis of our method. The assessment should be carried out in 11 key directions (Table 4). It should be noted that the choice of peculiar indicators was made taking into account specific features of the textile industry. In total these criteria are capable to give a complex assessment of clusters activity.

Table 4

Criterion	Content of the criterion	Weight	Assessment
1	2	3	4
1. Cont	ent assessment of cluster participants		
1.1. Share of cluster	Share of the cluster textile enterprises		
participants in total number of	in total number of textile enterprises of	3-1	5-1
industry representatives	the country		
1.2. Dynamics of new	Growth in the number of new	3-1	5-1
businesses share	companies in the cluster	3-1	3-1
1.3. Share of non-production	Share of non-production companies in	3-1	5-1
organization	total number of participants	3-1	3-1
1.4. Dynamics of foreign	Growth in the number of foreign	3-1	5-1
(joint) enterprises share	companies in the cluster	3-1	3-1

Form for the assessment of the textile cluster efficiency

			nd of Table 4
Criterion	Content of the criterion	Weight	Assessment
1	2	3	4
1.5. Share of SMEs	.5. Share of SMEs Share of SMEs in total number of participants		5-1
1.6. Share of research	Share of research institutes in total	3-1	5-1
institutes	number of participants		
1.7. Regional concentration of participants	In case, when major participants are located in one region (territorially close), we put 1 point, in the other case, 0	3-1	1-0
1.8. Sectoral concentration of participants	In case, when all the participants are involved only in textile industry, we put 1 point, in the other case, 0	3-1	1-0
1.9. Working experience of the participants on the market	In case, when the majority of companies have sufficient working experience, we put 1 point, in the other case, 0	3-1	1-0
2.	Cluster position on the market		
2.1. Cluster share on the inner market	Relation of the amount of cluster production to the total number of propositions on the domestic market	3-1	5-1
2.2. Dynamics of share in the world-wide textile proposition	Growth in the number of cluster production on the world market	3-1	5-1
2.3. Dynamics of the outer markets	Growth in the number of outer markets, dealing with the cluster	3-1	5-1
2.4. Advantages of the cluster's geographical location	In case, when the cluster's location is advantageous for the development of its activity, we put 1 point, in the other case, 0	3-1	1-0
3.	Production capacity of a cluster		
3.1. Loading of industrial capacity	Current level of the industrial capacity use	3-1	5-1
3.2. Consumption of fixed capital	The level of cluster`s fixed capital consumption	3-1	5-1
3.3. Costs level	Costs on production and distribution of products	3-1	5-1
3.4. Labor productivity	The level of productivity on the key enterprise of the cluster	3-1	5-1
3.5. Fixed capital renewal rate	Share of renewed funds in general structure of fixed capital	3-1	5-1
3.6. Share of the cluster's fixed capital in total amount of the industry's fixed capital	Relation of the cluster's fixed capital to the fixed capital of the country's textile industry in general	3-1	5-1

End	of	Table	: 4
	- J		

		Er	nd of Table 4
Criterion	Content of the criterion	Weight	Assessment
1	2	3	4
4. /	Assessment of cluster production		
4.1. Quality of products	Quality of products Expert assessment based on consumer characteristics, aesthetics and environmental friendliness of products		5-1
4.2. Share of synthetic products	Share of products containing synthetic materials in general amount of cluster`s production.	3-1	5-1
4.3. Competitiveness of products on the world market	Expert assessment of the demand for the cluster`s production on the world market	3-1	5-1
4.4. Presence of a brand	In case when the cluster uses one common brand while distributing the products, we put 1 point, in the other case, 0	3-1	1-0
5. Efficie	ncy assessment of cluster manageme	ent	
5.1. Presence of strategies In case when there exists a strategy of cluster development, we put 1 point, in the other case, 0		3-1	1-0
5.2. Presence of a coordinative body	In case when there exists one common body to coordinate the activity of all the participants of the cluster, we put 1 point, in the other case, 0	3-1	1-0
5.3. Level of collaborative links developmentIn case when the cluster`s organizational structure contributes to its development, we put 1 point, in the other case, 0		3-1	1-0
6. Assessm	ent of cluster infrastructural availal	oility	
6.1. Availability of industrial infrastructure of business support	In case when the cluster cooperates with industrial parks and other institutions, we put 1 point, in the other case, 0	3-1	1-0
6.2. Availability of innovative infrastructure	In case when the cluster cooperates with technological parks, business incubators, engineering centers, venture funds and other institutions, we put 1 point, in the other case, 0	3-1	1-0
	ssessment of financial component		
7.1. Cost-effectiveness of a cluster	Cost-effectiveness of sales	3-1	5-1
7.2. Returns on investment	Relation of the income to the invested capital	3-1	5-1

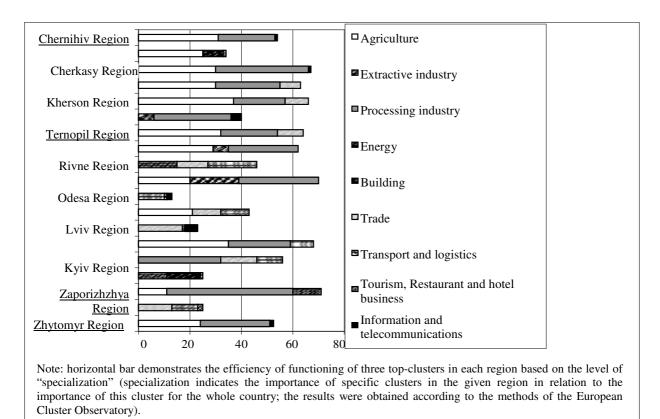
		Er	<i>id of Table 4</i>
Criterion	Content of the criterion	Weight	Assessment
1	2	3	4
	Characterizes the level of decrease		
7.3. Dynamics of transactional	of transactional losses for	2.1	5 1
losses	organizations which are getting	3-1	5-1
	involved into the cluster		
7.4. Indicators of clusters	Is assessed using the example of the	0.1	~ 1
financial resilience	key participant of the cluster	3-1	5-1
<b>8.</b> As	ssessment of innovative component		
8.1. Dynamics of investments	Growth in the number of		
in Research and Development	investments directed at	3-1	5-1
(R&D)	development	01	01
	Number of successfully		
8.2. Commercialization of	implemented developments in total	3-1	5-1
innovations	amount of R&D per year	<b>J</b> -1	5-1
8.3. Number of new products	Amount of new or improved cluster		
of a cluster	products	3-1	5-1
	Relation of the number of hi-tech		
8.4. Share of hi-tech products	products to the total amount of	3-1	5-1
8.4. Share of in-teen products		5-1	5-1
	production Relation of total sum of awards for		
8.5. Reward for innovations		2.1	5 1
per one personnel member	development to the general number	3-1	5-1
L 1	of cluster personnel		
	9. Assessment of investments		
9.1. NPV	Determining the benefits of	3-1	5-1
	investments in the cluster project	• •	01
9.2. Investments payback	Calculation of average period of	3-1	5-1
period	investment payback	<b>J</b> -1	5-1
9.3. Dynamics of foreign	Growth in the number of foreign	3-1	5-1
investments	investments in the cluster	5-1	5-1
10. A	ssessment of human resource policy		
	Relation of the average salary to the		
10.1. Level of salary	established minimum subsistence	3-1	5-1
	level		
10.2. Share of working	Part of workforce in the general	0.1	<b>5</b> 1
personnel in the cluster	number of cluster personnel	3-1	5-1
10.3. Share of personnel with	Number of personnel with higher		
higher education	education	3-1	5-1
	Amount of highly-productive		
10.4. Share of highly-	working places in general personnel	3-1	5-1
productive working places	structure	01	01
11 Efficiency	assessment from the perspective of t	the state	
	Is defined on the basis of a	m suu	
11.1. Cluster budgetary	difference of tax and non-tax budget		
effectiveness	revenues and expenses of the	3-1	5-1
	authorities on cluster support		
	autionnes on cluster support		

End	of	Table 4	1
	· ./		

Criterion	Content of the criterion	Weight	Assessment
1	2	3	4
1.2. Share on cluster in Gross Regional Product (GRP)	Relation of cluster production to the total amount of GRP in a particular region	3-1	5-1
11.3. Employment of population in clusters enterprises	Amount of job opportunities for all cluster members	3-1	5-1
11.4. Regional investments	Share of regional investments obtained by cluster members in total number of regional investments	3-1	5-1

Expert assessment of cluster efficiency. Assessment is carried out on a scale of 1 to 5 (Table 2, column 4) concerning the revealed average industrial indicators of the criteria: 5 points (the highest mark) is put in case when the expected (projected) cluster indicator significantly predominates over the characteristic (average) indicators of the textile sphere; 4 points correspond to the insignificant predomination of an indicator over the average industrial indicator; 3 points mean approximate equality of the average industrial and cluster indicators; 2 points mean some deterioration of a cluster criterion in comparison with the average industrial one; 1 point means that the cluster demonstrates significant lags according to this indicator. At the same time, it should be taken into account that for some of the assessment criteria only the scale of 1 to 2 can be used, because such criteria cannot be assessed deeply. But at the same time their use in this method is rather important for getting the correct efficiency assessment of cluster's activity. The offered method can be considered as universal. It gives an opportunity to identify the efficiency level of functioning of current Ukrainian clusters rather clearly taking into account the specificity of each industrial sector. The results of calculation are given in Figure 2.

According to Figure 2 the potential of clustering effectiveness exists, for example, in agricultural sphere of Cherkasy, Mykolaiv and Kirovograd regions; in biotechnical sphere – in the city of Kyiv and Kharkiv region; production of footwear – in Chernivtsi region; leather goods production – in Zakarpattya region. Taking into account current conditions of agglomeration in Ukraine, the implementation of cluster policy could lead to the growth of clusters, developing local economic benefits [10]. At the same time, it should be mentioned that one of the advantages of cluster policy is the creation of potential conditions for the creation of effective clusters even without the evident industrial agglomeration. As an example we should mention Saskatchewan biotechnological cluster in Canada. It was built with the help of powerful crediting and based on the



University of Saskatchewan. Its effective activity ensured the leadership of the region in the sphere of biotechnological researches in Canada [10].

**Conclusions and suggestions.** Thus, economic cluster nowadays continues to obtain popularity in domestic practice of business leading. With each passing year cluster policy of Ukraine will yield new results. Methods of proper assessment of cluster functioning with the consideration of sectoral features have to be improved in order to increase the effectiveness of the events carried out by the state on the support of clusters. In our opinion, the issue of clusters efficiency assessment will not lose its relevance in the nearest future. In modern circumstances, taking into account limited financial resources, there is a problem to choose the most advantageous variant of investment. The offered methods of textile clusters assessment will give an opportunity to solve this problem to a certain extent.

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Resourse: author's calculations according to the European Cluster Observatory data [12]. Figure 2. Potential of clustering effectiveness according to different industries and spheres of activity

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