

# Innovative financing of creative projects on the Kickstarter platform: Ukrainian and Polish experience

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**Abstract.** In the era of digital economy, the crowdfunding platforms provide the background to mitigate cross-country differences within project financing. In particular, creative projects are important as a vital driver in maintaining business and social sector competitive. Thereby, research problem lays upon the potential of providing crowdfunding support to overcome the creative project divide in different countries. The paper aims to provide scientific support on creative projects innovative financing in Ukraine and Poland within Kickstarter. The research methodology is based on Kickstarter data (10 years; 83 industries and 898 projects) processed by statistical analysis. The Concentration Ratio (CR) was modified to measure the concentration of efforts, considering the largest creative industries within Kickstarter platform. The results section represents high rates of concentration of efforts for Ukrainian creative projects that commercialize tangible physical goods: Product Design and Gadgets. At the same time, in Poland the main concentration of efforts is in the field of intangible intellectual products: Tabletop Games and Video Games. Thus, digital platform is a reflection of interrelations between intangible and tangible values in economies. The study results can be used within national programs of creative innovative projects financial support. In relation to other countries, more extensive study is required.

## 1 Introduction

### 1.1 Research question

In the new global economy, creative projects have become an important part of successful innovative entrepreneurship, coming with new ways to meet both economic, cultural and social challenges. Human development projects influence both the modern business and society, transforming standard of living, working conditions within industries, education, cultural and health systems. The success of a few start-ups that started to take care of factors of creative industries development makes up the need to replace some resources as the companies tend to meet new challenges, enhancing their activity into new markets. However, in many cases, the issue of failed human development projects, including creative ones, is mostly related to insufficient funding [1; 2]. For instance, the annually efforts to meet sustainable development goals (SDGs) are estimated to cost about 4.5 tn. USD, including 2 tn. USD for cultural and creative industries development, that makes more than US federal budget [3]

Thereby, determining the impacts of innovative financial resources and mechanisms is becoming more crucial than ever before for the future of creative industries worldwide. In particular, there is already some

evidence on crowdfunding and its influence on creative project development. Due to the practical experience, the crowdfunding mechanism is able to overcome many human development challenges and direct more funds to satisfy the most urgent social, economic, cultural and environmental needs. The particular interest should be paid to particular crowdfunding platforms such as GlobalGiving, Indiegogo and Kickstarter, which raise annually about 34 bn. USD within the global crowdfunding industry [3].

Studies have found positive linkages between human development and creative industries development trends and access to crowdfunding services (e.g. D. C. Brabham [4] and B. Boeuf, J. Darveau, R. Legoux [5] on crowdfunding financing of cultural component; M. G. Colombo, C. Franzoni, C. Rossi-Lamastra on crowdfunding influence on human capital and education [6]; M. Farnel 2015 on crowdfunding role to solve health and cultural challenges [7]), although the quality of crowdfunding services provided has been questioned (e.g. M. Barbi, M. Bigelli [8] and J. H. Ganatra [9]).

In light of recent trends of crowdfunding, it is more difficult to find studies that provide a comparative analysis of crowdfunding effectiveness indicators, considering the relation between crowdfunding financing and successful creative projects implementation in particular countries. Thus, the current study tends to

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highlight the tendencies of creative projects crowdfunding financing, using the data of two neighboring countries, namely Poland and Ukraine. At the analytical part of the research, attention is paid to the creative projects of the above-mentioned countries crowdfunding financing on Kickstarter, which is one of the leading crowdfunding platforms globally. The genesis of this thesis can be traced back to the time the authors became interested in innovative sources of social and economic development financial support in Ukraine and abroad.

## 1.2 Previous researches

Several previous studies and international organizations reports have found that crowdfunding has a significant potential to support creative industries worldwide by boosting innovation in the creative sector, generating wealth and social growth [4-10].

More recently, literature has emerged that offers findings of the relationship between the trends of financing and creative industries development at the national or cross-country level, largely with a focus on the health and educational components. In particular, some researchers have found an association between education and health sectors financing and improvements in both access to these services and related creative industries development outcomes [13, 14], considering the possibility and potential effect of innovative financing across national economies. Other studies pay attention to different social and economic sectors financing [11, 12], considering the possibility to achieve both social and economic progress.

Particularly, in the literature on innovative sources of creative project financing, the relative importance of crowdfunding essence has been subject to considerable discussion. Even though crowd co-financing relates to the previous centuries, it is defined as an innovative paradigm within the scientific concept nowadays.

According to G. Le Bon, "While all our ancient beliefs are tottering and disappearing, while the old pillars of society are giving way one by one, the power of the crowd is the only force that nothing menaces, and of which the prestige is continually on the increase. The age we are about to enter will in truth be the era of crowds" [15]. Since the late 1990s collective efforts of individuals who network and pool their resources, usually via the Internet, to support the efforts initiated by other people or organizations are defined as crowdfunding [16; 17].

For instance, Hengchen, and Zhang are paying attention to the reward-based crowdfunding concept, when crowdfunding aims to increase the capital volume from potential consumers to reach a measure of social and economic goals [18]. Kindler, Golosovsky, and Sorin define crowdfunding among the emerging channels for spreading social collective action and funding of novelty in all these domains, considering the potential of various crowdfunding platforms. In particular, these experts pay attention to the lack of experience on Kickstarter, Indiegogo and Sellaband

mechanism of data collection [19]. Dahlhausen et al continue researches about the crowdfunding potential to support creative projects that are funded by the masses through websites such as Kickstarter and Indiegogo. Thereby, these crowdfunding platforms are becoming popular both within theoretical researches and practice that has been steadily gaining attention in the last few years, across many different sectors of society [20].

In particular, nearly 5 bn USD are collected from nearly 5 mln. backers on Kickstarter yearly, which are divided within about 200 thousand successful funded projects [3]. In light of recent trends of digital society growth and increase the number of funding projects that have reached their goals, Kickstarter becomes an important source for creative industries financing globally. Also, following the Web of Science Core Collection report, the total publication volume on Kickstarter topic is increasing since 2000. In particular, the highest increase has taken place within the last 5 years. Thus, the chosen problem is of a significant scientific interest nowadays.

## 1.3 The scientific problem

The scientific problem of this article lays upon the potential of providing flexible crowdfunding support to overcome the social and economic divide in order to improve the creative sector environment in Ukraine and Poland. The hypothesis of the paper has both theoretical and applied background, concerning the crowdfunding impact on human development process and innovative sources of financial support, which aims to activate innovative creative projects implementation. *The aim* of the current study is to identify similarities and differences, discover the best practices and present how the modern innovative creative projects are crowdfunded in Ukraine and Poland, based on Kickstarter statistic. *The object* of the research is crowdfunding boost within two neighboring countries. *The subject* is creative projects development financing volumes on Kickstarter, contributing the social and economic growth within both countries.

## 1.4 The research methodology

*The research methodology* is based on Kickstarter data processed by statistical analysis. Data on crowdfunding in various types of projects were collected by authors directly from Kickstarter. A time period of research is 10 years: 2009 – 2019; the number of industries: 83; the number of projects: 898. Total funds raised by researched Polish projects are 24 993 092 \$; by Ukrainian projects are 5 046 334 \$. During the analysis, the following data were studied: Industry, stated goal (\$), Raised funds (\$), Reaching the goal (%), Total funds raised (\$), Max. successful project (\$).

A higher concentration of efforts allows players to maximize the likely financial result while expanding efforts is designed to reduce the risks of failure. For measuring concentration of efforts, the Concentration Ratio (CR), proposed by Bain to analyze the market

share, was used [21]. *The scientific novelty of the methodology is as follows:* in the study, the Concentration Ratio (CR) is applied with the following modifications: 1) not the share of the largest firms in industry revenue, but the share of the largest industries in the general market; 2) not a market for products, but a market for resources (namely, crowdfunding financing). The Three-Branch Concentration Ratio / The Ten-Branch Concentration Ratio measures the total market share of the three / ten largest industries on the Kickstarter platform accordingly.

### 1.5 The current research structure

The current research consists of the following parts:  
 - primarily, a theoretical framework based on innovative sources of creative projects financing and crowdfunding definition is provided;  
 - secondly, the Kickstarter phenomenon is described; the placement of Ukrainian and Polish creative projects on a crowdfunding platform is analyzed; the authorial approach of efforts concentration for crowdfunding financing is represented (Ukrainian and Polish Kickstarter experience);  
 - then, the research conclusions on crowdfunding effectiveness for creative industries development in Ukraine and Poland are provided.  
 The research practical implication is that results can be used within national innovative financial support strategies to accept community challenges both on national and regional levels.

## 2 Main theoretical assumptions of the research

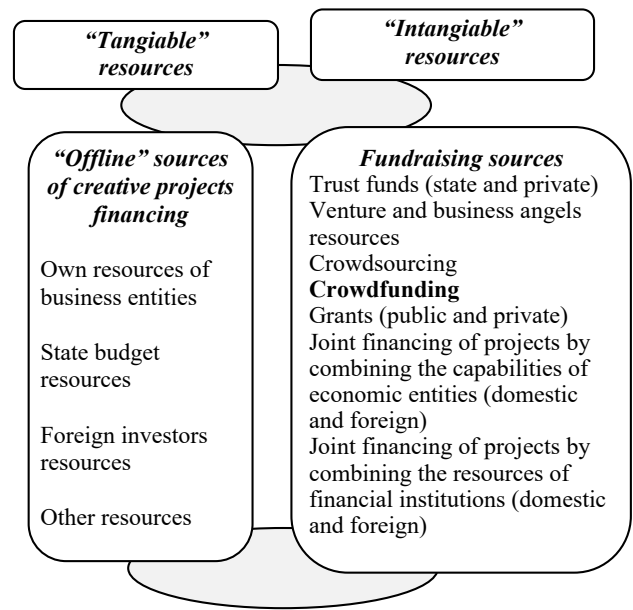
### 2.1 Innovative sources for creative projects financing

In the context of the current activity of economic entities, there is an interaction between the traditional components of the chain of production resources, namely “human resources – material resources – financial resources”. However, the goals and objectives of economic and cultural development, the strategic importance of each component is changing, depending on the environment [22, p. 139]. The primary requirement for innovative activity within social, economic and creative sectors means qualitative changes of human and financial resources.

Thereby, the improvement of the qualitative characteristics of human resources creates the basis for scientific, cultural and technical development, innovative social and economic initiatives creation, innovative projects implementation and innovative characteristics of creative industries development within the national economy. At the same time, sufficient and systematic funding is needed to expand the range of human and material resources. Following the above-mentioned information, fundraising allows to systematize the

process of financial resources attraction and diversify the sources of their attraction.

Despite traditional resources of creative projects, financing that involves attracting the resources of economic entities, state budget resources and foreign investors; fundraising involves the use of both “real” and “virtual” resources. Thus, resources and opportunities of national economic entities, financial institutions, the state, and foreign investors are expanded due to the digital technologies widespread (Figure 1).



**Fig. 1.** Fundraising and opportunities for creative projects financing

Direct mailing, crowdsourcing (obtaining the necessary services through the fulfillment of socially important tasks by a multitude of volunteers coordinating activities through information technology) and **crowdfunding** (the process of voluntarily cooperation of entities who provide financial or other kind of assistance to solve particular social challenges through Internet), virtual negotiations are considered in the context of online and email fundraising [23, p. 279].

This proves the potential for attracting alternative private resources to achieve the goals of sustainable human development and creative industries growth.

### 2.2 Theoretical framework of crowdfunding

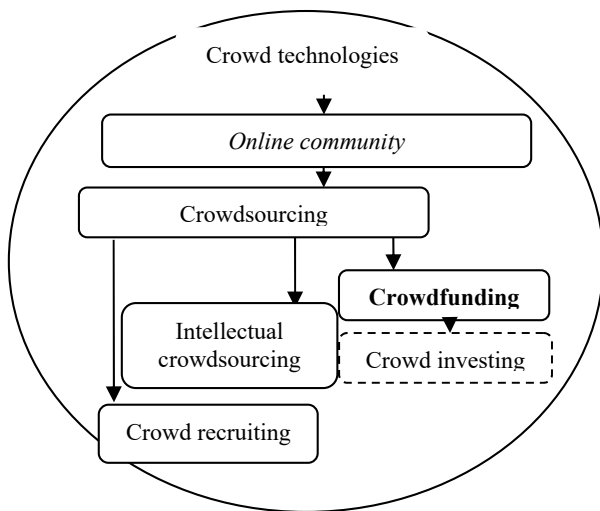
In the context of substantiating the potential of innovative financial mechanisms to ensure creative project implementation in Ukraine and Poland, the attention should be paid to the widespread of Internet technologies to all areas of human life, including cultural ones. In particular, the rapid development of information technology is transforming how people use, shape, and disseminate educational and cultural content, their ideas, participating in social life.

International organizations tend to pay attention to the measure of key indicators of competitiveness of the national economy, including the potential to create

innovation and improve living standards, taking into account the level of scientific and technological development, infrastructure and financial market trends [24]. This is associated with the rapid development of the Internet environment, which forms the so-named “online” infrastructure. Transition to the information society causes structural changes in an aggregate capital to provide social benefits. The volumes of “intangible” financial resources are rapidly growing. Thus, fundraising online sources are becoming globally widespread.

In particular, the crowd technologies concept has received considerable critical attention within the modern socially-oriented society. The term “crowd”, which means common efforts to provide financial support for creative projects, is at the heart of our understanding of crowd technologies. The mentioned technologies are representing a mechanism of a wide range of stakeholders’ online cooperation to meet urgent social and economic challenges [25, p. 426].

Thereby, the crowd technologies represent a major area of interest within the field of innovative social and economic changes financing. At the same time, there is a wide range of crowd technologies diversity within the international practice of creative projects financial support (Figure 2).



**Fig. 2.** Crowd technologies spectrum

Crowd technologies can play an important role in addressing the issue of a virtual community. Reingold defines the virtual community as a social-oriented network that involves the support of a large group of people in open discussion to achieve specific goals [27]. To commercialize virtual community capabilities, it is advisable to use crowdsourcing capabilities, which characterize opportunities to attract the necessary resources through the Internet. For instance, Eric von Hippel examined the impact of crowdsourcing into a user-friendly innovation. Thus, the crowd technology development depends on the growing demand for social investment within modern society.

In particular, intellectual crowdsourcing technologies involve the intellectual collaboration of particular individual knowledge and skills through social networks.

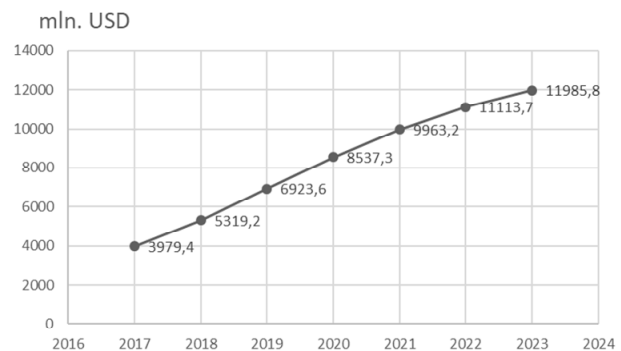
Such common interaction aims to create an intellectual product, integrating the knowledge and skills of a significant number of people (“crowd”). At the same time, intellectual interconnections have no territorial, corporate, professional, social and cultural barriers due to their online widespread [28; 29]. However, the theoretical and applied evidence shows the possibility to attract additional human resources through the Internet (crowd recruiting technologies).

At the same time, modern studies have provided evidence on the growing influence of sustainable financing into creative project implementation through the crowdfunding mechanism. The theoretical considerations provide the concept of crowdfunding that is defined as a combination of the terms crowd and funding. However, the crowdfunding process has mostly practical applications. Thereby, the crowdfunding influence on creative project development should be evaluated as the result of specific crowdfunding projects implementation. The essence of crowdfunding may be defined as “worldwide financing”, “a social bank”, “a collective wallet”, “public financing”, “common fold”. The current study aims to test the creative projects’ successful implementation through an innovative mechanism of crowdfunding platform functionality.

### 3 Research results

#### 3.1 Global crowdfunding market trends

Crowdfunding platforms are considered as major drivers for social and economic development worldwide. By Statista data, total transaction value in the crowdfunding segment amounts to \$ 6,923.6 mln in 2019 (Figure 3).



**Fig. 3.** Global crowdfunding trends (based on Statista [30])

Another important practical implication is that the top crowdfunding platforms play an important role within social and economic development within particular economies. Thereby, this particular research finding points to the need for the leading crowdfunding platforms functionality analysis (Table 2).

Under Statista data, the quantity of crowdfunding campaigns tends to be about 8724 thousand in 2019. At the same time, the number of funding campaigns in the crowdfunding segment is expected to amount to 12,063.9 thousand by 2023 [30] (Figure 4).

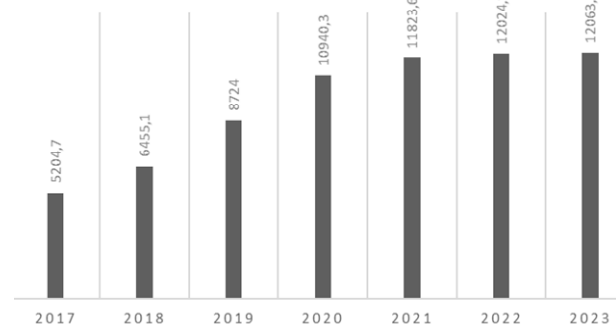
**Table 2.** Top 10 crowdfunding platforms worldwide.

Crowd-funding platform	Main characteristics	Core areas of financing
Kickstarter	The crowdfunding platform is known as one of the most popular worldwide. The initiative has raised over \$4.5 billion with more than 170 000 projects funded since its inception in 2009. Categories include Arts, Comics & Illustration, Design & Tech, Film, Food & Craft, Games, Music, and Publishing. Kickstarter is an all or nothing platform, which means that you don't get your funds unless you complete your campaign. Kickstarter mainly provides financing to assist within social, high- technology and creative business development	Tech and creative entrepreneurs, venture business, social business, inventions
Indiegogo	The crowdfunding platform aims to provide assistance within the process of non-profit business activity. The crowdfunding platform works similarly to Kickstarter, except it doesn't have an exclusively all or nothing fundraising model.	Social initiatives
Patreon	Patreon is a monthly subscription platform where supporters and donors provide regular monthly contributions, rather than one bulk payment.	Creative venture or artist
GoFundMe	The crowdfunding site collects a 2.9% processing fee and 30 cents for every donation.	Short-term personal projects
Crowdrise	Crowdrise is geared more toward helping "real-world issues", rather than funding for-profit ventures.	Cycling and walking events, non-profit event fundraising, and online social fundraising
PledgeMusic	You can provide rewards for donors who pledge a certain level, such as downloadable digital music.	Music and musicians development
MightyCause	Financial support for special events for children and family, education, animals and pets, and even faith-based causes.	"Worthy causes"
InKind	The financial assistance is provided to support restaurant business representatives	Restaurant business
Crowdfunder	The platform pay angel investor or venture capitalist attention to particular projects	Venture, innovative initiatives
Give	This is a WordPress plugin to add to your WordPress blog and use it to collect donations from visitors.	Online donation

Some crowdfunding platforms are more geared to developing products, others are about funding artistic endeavors, and still, others are ideally suited to

nonprofits. The particular sites will collect all the money as it comes in; others will not collect it until the goal amount is reached.

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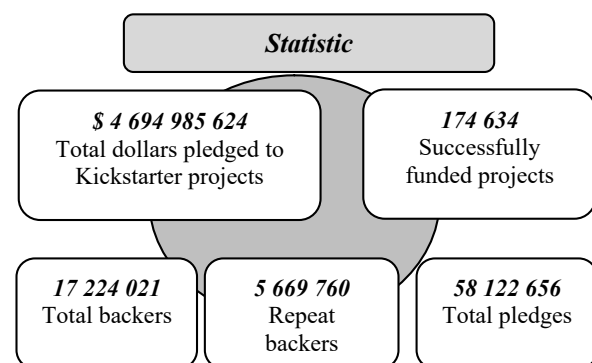
**Fig. 4.** Global crowdfunding campaigns (based on Statista [30]).

### 3.2 Kickstarter: grandness of the phenomenon

The Kickstarter platform was launched on April 28, 2009. However, its history goes back to 1713, when Alexander Pope set out to translate 15,693 lines of ancient Greek poetry into English. In exchange for a shout-out in the acknowledgments, an early edition of the book, and the delight of assistance within bringing a creative work into the world, 750 subscribers pledged two gold guineas to support the author's effort before he put pen to paper.

In 2015, Kickstarter was reincorporated and achieved the status of a Benefit Corporation. Even though Benefit Corporations are for-profit companies, Kickstarter is considering the impact of funded decisions on society, not only shareholders. Radically, a positive impact on society becomes part of a Benefit Corporation's legally defined goals. The crowdfunding platform has its unique mission, vision, and goals, which also makes the basis for Kickstarter stockholders' activity (Table 2).

17 million people have backed a project, \$4.7 billion has been pledged, and 174 634 projects have been successfully funded. However, Kickstarter statistic is changing daily (Figure 5).



**Fig. 5.** Kickstarter statistic as of December 12, 2019.

Statistics are available for the site overall as well as each of the 15 project categories. Because the

Kickstarter platform is represented as a Benefit Corporation, both creative and high-technology projects are financed on the platform (Table 3).

**Table 2.** Kickstarter platform phenomenon (based on Kickstarter statistics [31]).

Kickstarter parameters	Overview
Kickstarter mission	The mission is to help bring creative projects to life.
Kickstarter goals	1. Kickstarter will create tools and resources that help people bring their creative projects to life, and that connect people around creative projects and the creative process. 2. Kickstarter will care for the health of its ecosystem and integrity of its systems. 3. Kickstarter will engage beyond its walls with the greater issues and conversations affecting artists and creators.
Kickstarter vision	The vision is for-profit companies support, which activity aims to provide both economic and social impact
Community	Kickstarter is an enormous global community built around creativity and creative projects. Over 10 million people, from every continent on earth, have backed a Kickstarter project.
The main stakeholders groups	Artists, musicians, filmmakers, designers, and other creators
Kickstarter team	Independent, founder-controlled company of 153 people working together in an old pencil factory in New York City.
Kickstarter operations to support sustainability	Kickstarter will seek to limit environmental impact. It will invest in green infrastructure, support green commuting methods, and factor environmental impact when choosing vendors. Additionally, Kickstarter will provide recommendations and resources that help creators make environmentally conscious decisions on tasks, like shipping and packaging, that are common to the use of its services.
Financial model	If a project is successfully funded, Kickstarter applies a 5% fee to the funds collected. All pledges are processed securely by our third-party payments partner, Stripe. These payment processing fees work out to roughly 3-5%. If the project does not reach its funding goal, there are no fees.

However, the creative component of human development needs to expand a range of financial resources for their support due to the rather high risk of such kind of social investment. At the same time, the creative projects are the most successful on the Kickstarter platform (Table 4).

Thus, Kickstarter is a funding platform for creative projects – everything from films, games, and music to art, design, and technology. The available statistics and analytical researches show that in general Kickstarter projects tend to be successful (about 50 %) rather than fail (about 35 %) or get cancelled (about 8%). Given the data provided on the official website, there is a difference among the Kickstarter project outcomes in particular areas. For instance, the highest successful

implication is typical for projects in music (82%), theatre (63%), film and video (63%). At the same time, nutrition, games and publishing have the lowest success rates (less than 50 % for each group). Thereby, the Kickstarter database analysis confirms its role as the creative projects specialized platform.

**Table 3.** Kickstarter platform projects and financial support volumes.

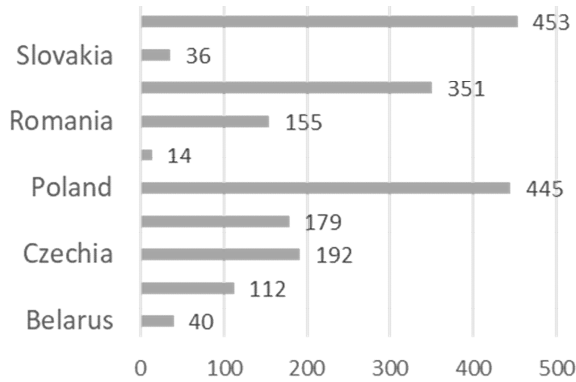
Project category	Launched	Total \$	Successful \$	Live \$	Live	Success, %
All	478,806	4.82 B	4.32 B	41 M	3,866	37.57
Games	50,909	1.21 B	1.12 B	14.25 M	659	40.39
Design	40,361	1.09 B	990.20 M	12.74 M	382	38.08
Technology	41,805	905.46M	794.19 M	6.33 M	403	20.64
Film & Video	74,130	464.72M	395.23 M	1.35 M	418	37.61
Music	61,956	246.00M	224.81 M	941.85 K	290	50.00
Fashion	31,100	184.16 M	161.50 M	832.13 K	252	27.91
Publishing	49,261	176.84M	155.33 M	967.09K	353	33.02
Food	29,729	160.53M	135.62 M	670.60K	209	25.19
Art	38,130	126.72M	112.95 M	1.04 M	430	44.02
Comics	15,686	107.76M	100.08 M	1.28 M	214	58.69
Photography	12,307	48.06M	42.19 M	129.52 K	58	32.21
Theater	12,229	46.69M	41.91 M	61,597	45	60.09
Crafts	11,262	19.57M	16.12 M	86.54 K	97	25.04
Journalism	5,690	17.72M	15.43 M	73,283	37	22.71
Dance	4,251	14.77M	13.71 M	40,838	19	61.84

**Table 4.** Successful projects on the Kickstarter platform, projects.

Category	< \$1000	\$1000-9999	\$10000-19999	\$20000-99000	+\$100K	+\$1M
All	23,189	96,770	25,679	25,993	6,397	426
Music	3,061	21,634	4,217	1,825	92	2
Film & Video	3,252	15,553	4,362	4,117	429	7
Games	1,649	8,399	3,557	4,829	1,698	163
Art	4,551	9,655	1,411	890	84	5
Publishing	2,345	9,964	2,181	1,537	124	0
Design	1,061	4,994	2,641	4,643	1,774	112
Comics	1,255	5,731	1,015	953	125	1
Fashion	1,561	3,870	1,433	1,474	265	6
Technology	498	2,304	1,229	2,775	1,620	121
Food	737	3,045	1,765	1,779	102	9
Theater	1,043	5,312	644	303	19	0
Photography	735	2,142	588	443	37	0
Crafts	956	1,447	221	160	12	0
Dance	239	2,046	253	78	1	0
Journalism	246	674	162	187	15	0

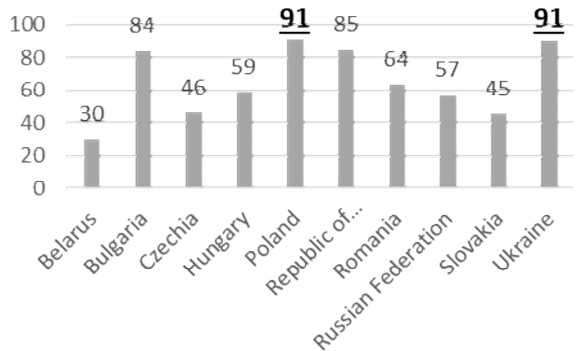
### 3.3 Ukraine and Poland on the Kickstarter platform

Ukraine and Poland are among the leaders in Eastern Europe on the Kickstarter platform. In particular, following the statistic on the number of projects, both countries are the leading ones (Figure 6).



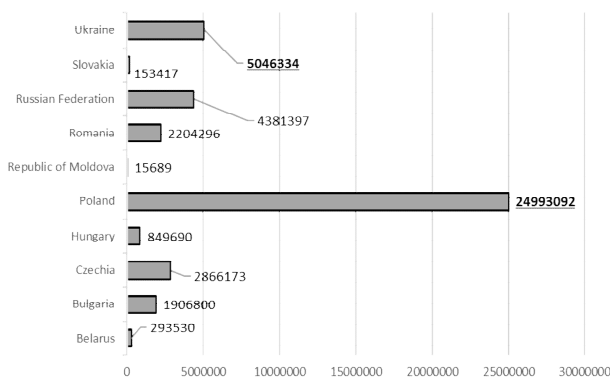
**Fig. 6.** The comparative analysis of projects number on Kickstarter, projects.

The same tendencies are defined for the average volumes of investment per one backer in these countries (Figure 7).



**Fig. 7.** The comparative analysis of the average volumes of investment per one backer on Kickstarter, USD.

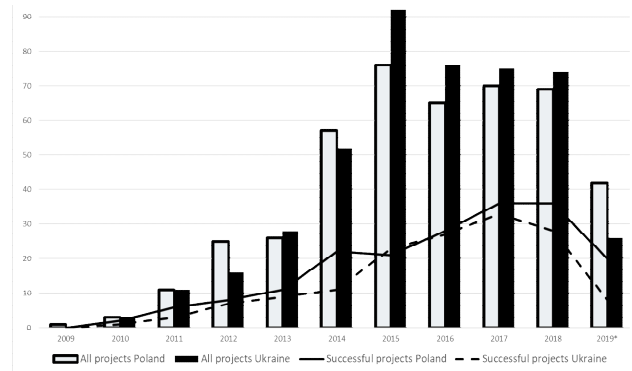
Thus, Ukrainian and Polish creative projects gather the main part of total funding (Figure 8).



**Fig. 8.** The comparative analysis of total funds raised on Kickstarter, USD.

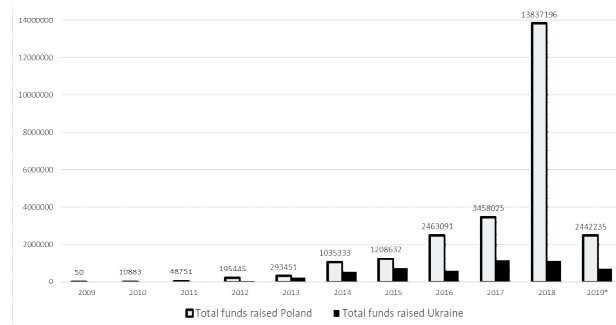
At the same time, an important indicator of crowdfunding financing effectiveness in a particular

country is the share of successfully funded projects. The following data have been collected to analyze the above- and below-mention indicators of Ukrainian and Polish creative projects Kickstarter funding, including timeframe of ten years (2009 – 2019); total number of industries: 83; total number of projects and project essence: 898; stated goal and raised funds in USD; the share of reaching goals; number of backers; project campaign start/end/duration; project status; total funds raised in USD; successful projects share and funding volume (Figure 9).



**Fig. 9.** The successful Ukrainian and Polish creative projects share and trends on Kickstarter platform, % (black for Ukraine; white for Poland).

Ukraine is slightly overtaking Poland by the number of announced projects, but Polish projects are more successful and more often reach established investment goals (Figure 10).

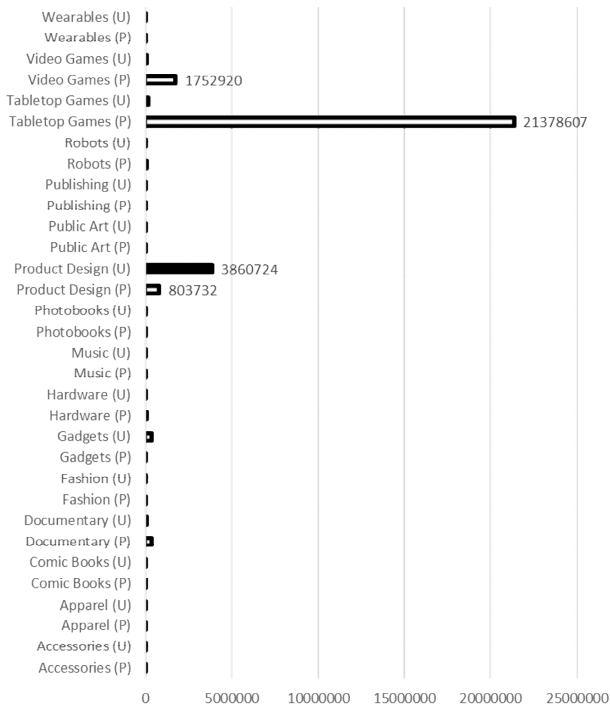


**Fig. 10.** Ukrainian and Polish creative project financing trends on Kickstarter, projects (black for Ukraine; white for Poland).

Thereby, both countries are the leaders on the Kickstarter platform. However, Polish creative projects seem to be more effective due to the different levels of effort for crowdfunding financing concentration.

### 3.4 Creative projects in Ukraine and Poland: concentration of efforts for crowdfunding financing (Kickstarter experience)

Ukrainian and Polish creative projects are among leaders on the Kickstarter platform following both qualities' and quantities' indicators. However, there is a different approach, concerning countries profile industrial structures (Figure 11).



**Fig. 11.** Country profiles: industries, projects (black for Ukraine; white for Poland).

The country Kickstarter profile of Poland is defined as *a concentration of intangible intellectual products* (Table 5).

**Table 5.** Industries: concentration of efforts in Poland.

	Industry	All projects	Successful projects	Total funds raised
1	Tabletop Games	122	83	21 378 607
2	Video Games	61	31	1 752 920
3	Product Design	17	6	803 732
4	Documentary	38	13	362 596
5	Robots	2	1	76 372
6	Hardware	4	1	67 551
7	Wearables	2	2	58 096
8	Music	5	3	41 904
9	Comic Books	2	2	38 109
10	Public Art	4	1	33 442

At the same time, the country Kickstarter profile of Ukraine is defined as *a concentration of tangible physical goods* (Table 6).

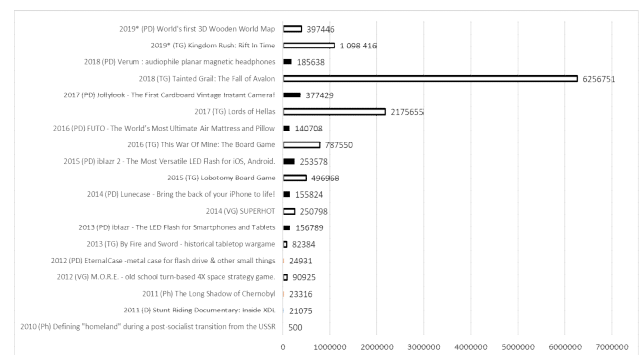
The chosen dataset provides the information on success rate of Ukrainian and Polish creative project on Kickstarter. In particular, in 2019 more than 30 % of Ukrainian and more than 40 % of Polish creative projects were successful. An average percent of project goal achievement is about 150 % and 220 % accordingly. The above-mentioned tendencies are reflected within the most successful Ukrainian and Polish creative projects on the Kickstarter platform (Figure 12).

A successful Kickstarter crowdfunding campaign duration varies from 7 to 90 days in Ukraine and from 14 to 90 days in Poland. The number of people who supported the creative project on Kickstarter varies from

2 to 6 110 person in Ukraine and from 5 to 41 939 person in Poland.

**Table 6.** Industries: concentration of efforts in Ukraine.

	Industry	All projects	Successful projects	Total funds raised
1	Product Design	141	71	3 860 724
2	Gadgets	12	7	359 461
3	Tabletop Games	13	5	186 856
4	Documentary	30	5	84 755
5	Video Games	19	3	58 254
6	Accessories	13	5	39 475
7	Photobooks	4	1	36 393
8	Apparel	8	2	32 094
9	Publishing	6	2	31 866
10	Fashion	10	4	27 466



**Fig. 12.** The most successful Kickstarter projects: Ukraine vs Poland, USD (black for Ukraine; white for Poland).

The smallest successful Ukrainian Kickstarter project is “Learn English with 850 Basic English words”. Two person donated 50 USD during 7 days to achieve the project goal, namely to shoot a short movie in English, using dictionary words Basic English 850. The creator already had the necessary equipment, a small studio, and students who wanted to play in film. Thereby, the crowdfunding campaign played rather the role of advertisement, motivation for Ukrainian people to learn English.

The Ukrainian creative project on Kickstarter that attracted the widest audience was “Jollylook – The First Cardboard Vintage Instant Camera!”. 6 110 person donated 377 429 USD instead of 15 000 USD during 31 days (in April 2017) to produce a simple fold out camera for analog snapshots, made entirely from recycled paper and cardboard. As the result of crowdfunding campaign on Kickstarter, about 1043 cameras were sold on online pre-order for 46.958 USD as of November 2018. In December 2019, the Camera is represented at Amazon with 4 ranking. There are more than 160 posts from all over the world on Camera features only on Instagram. There are also many product video reviews on YouTube and Facebook with positive assessment of Camera design and images quality.

The longest Ukrainian crowdfunding campaign duration was 90 days to raise funding for “The Long Shadow of Chernobyl” project. The project goal was to raise awareness of the Chernobyl Nuclear Disaster 25



years later through a retrospective photo book by Gerd Ludwig. The Kickstarter campaign was rather successful. The project initiator gathered twice more funding from 435 donors. Gerd Ludwig spent about 5 weeks in Chernobyl region, photographing deep inside the reactor. One year later, the images were first exhibited at the EBRD headquarters in London, helping to raise the addition 1.5 billion dollars needed to build the New Safe Confinement and safely deconstruct the ailing Chernobyl shelter. The project is still active nowadays. The photo book is represented on Amazon.

The shortest Polish crowdfunding campaign lasted during 11 days to assist Violet & Myo within their Eastern Europe tour, namely to cover their train fare. As the result, Violet & Myo achieved their goal.

The most successful Polish crowdfunding campaign lasted 23 days and enabled to gather 6 199 036 USD out of desirable 50 194 USD (41 939 backers) for “Tainted Grail: The Fall of Avalon” project. This adventure, survival cooperation Board Game set in unique grim world inspired by Arthurian Legends. Currently, the game ranking is 8.8 out of 10 (nearly 1 K comments).

The longest Kickstarter Polish crowdfunding campaigns lasted 90 days (a screenplay “Mike & Zack's Righteous Journey” and a journalist research “Life In the Shadow of Auschwitz”). The projects were successfully funded for more than 100 %.

Despite available theoretical researches on crowdfunding functionality, there is no approved methodology to estimate the concentration of efforts for crowdfunding financing. Thereby, to examine this issue the concentration ratio (CR3 and CR10) methodology was applied within the current research (Table 7). The table shows that the concentration ratio, based on the three and ten leading branches, indicated a higher level of effort polish projects' concentration on the Kickstarter platform.

**Table 7.** The concentration of efforts indicators for Ukraine and Poland.

Poland	All projects 445	Successful projects 190	Total funds 24 993 092
Concentration of efforts indicators			
CR3-Index	44.94	63.16	95.77
CR10-Index	57.75	75.26	98.48
Ukraine	All projects 453	Successful projects 150	Total funds 5 046 334
Concentration of efforts indicators			
CR3-Index	36.64	55.33	87.33
CR10-Index	56.51	70.00	92.94

Thus, despite the equal quantity and volumes of crowdfunding financing in Poland and Ukraine, Polish fundraisers pay more attention to intangible intellectual products. This causes the highest concentration of efforts, developing creative projects in Poland.

## 4 Conclusions

Given all that has been mentioned so far, one may state that crowdfunding financing is getting growing

effectiveness within creative project implementation. The primary analytical research of Kickstarter statistics shows the increasing trends of total funds raised and all projects financed both in Ukraine and Poland.

At the same time, the study results show that the global digital platform (Kickstarter for creative industries) is a reflection a reflection of interrelations between intangible and tangible values in economies. Ukraine and Poland were chosen for comparison because of their common geographic location, close and growing economic cooperation. At the same time, the Polish GDP per capita exceeds the corresponding Ukrainian indicator more than tenfold. However, Polish creative project financing trends on Kickstarter are more successful than Ukrainian ones.

For measuring the concentration of efforts for comparing countries, the Concentration Ratio (CR), proposed by Bain to analyse the market share, was successfully applied with the following modifications: 1) not the share of the largest firms in industry revenue, but the share of the largest industries in the general market; 2) not a market for products, but a market for resources (namely, crowdfunding financing). The proposed “Three-Branch Concentration Ratio” and “The Ten-Branch Concentration Ratio” measure the total market share of the three / ten largest industries on the Kickstarter platform accordingly.

The results of the study revealed high rates of concentration of efforts of Ukrainian projects in creative industries that commercialize tangible physical goods: Product Design (141 projects) and Gadgets (12 projects). At the same time, the main concentration of efforts of Polish creative projects is observed in the field of intangible intellectual products: Tabletop Games (122 projects) and Video Games (61 projects).

The same trend is confirmed by the industry affiliation of the most successful projects: 1) the most successful Ukrainian project is “World’s first 3D Wooden World Map” (Industry: Product Design); 2) the most successful Polish project is “The Fall of Avalon” (Industry: Tabletop Games).

There is an urgent need to concentrate more efforts on the crowdfunding process in Ukraine. Thereby, the study results of the can be used by the Ministry of Economy of Ukraine that provides organizational and financial support for creative innovative projects in part of crowdfunding platform access stimulation.

In particular, the Ukrainian crowdfunding stakeholders tend to pay attention on the following activities:

- stimulating the development of crowdfunding research in the works of Ukrainian scientists;
- creation of a centralized system of informing the national business entities and investors regarding the possibility of online cooperation;
- intensification of cooperation between public and private backers, who are ready to finance creative projects.

The essence of crowdfunding is both applied and theoretical question. Thus, the potential crowdfunding stakeholders pay attention to the factors of successful crowdfunding campaign, including:

- ability to gather a network of enthusiastic stakeholders, who will assist at the initial stage of crowdfunding campaign;
- provide an effective system for stakeholders' stimulation;
- provide a serious business plan and project clear explanation for future stakeholders;
- demonstrate your previous achievements and professional skills;
- provide an effective video pitch, keep it short and concise;
- study of online audience needs.

Despite there is already a measure of researches on crowdfunding results and functions, experts still have a lack of information on some applied aspects, including:

- a measure of long-term results from crowdfunding financing;
- lack of information on successful crowdfunding campaign principles;
- lack of crowdfunding statistic both on global and national levels.

Thereby, there is a need for further crowdfunding research, considering its practical implication within modern society. In particular, in relation to other countries, these studies should be applied with caution due to the national economies' peculiarities. More extensive study is required. Thereby, this is the subject for future researches.

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