# Gentrification versus structure relocation – how can we preserve a city's cultural heritage?

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**Abstract:** A number of cities are currently experiencing gentrification at various stages and intensities. Gentrification is a powerful force for economic change, but it is often accompanied by unnecessary demolition of historic buildings that are not included in the monuments registers. This article describes how to identify an area that could potentially undergo or has already undergone gentrification, using the example of the Piasek district in Krakow. It explains how gentrification has intensified in this district since the 1990s. The article also discusses the possibilities of reducing the destructive impact of gentrification on urban space by relocation of a historical building that was initially slated for demolition due to the ongoing gentrification of the area.

### 1 Introduction

Historically, the term 'gentrification' was first used by sociologist Ruth Glass in 1964 while studying class dependencies in selected districts of London. She analyzed how the working class was successively pushed out by the middle class in Hampstead, among other places [1]. Looking for a general, universal definition of this term, we can assume that the gentrification of a given area of a city denotes the pushing out of its residents by the population of higher social and material status, which is also often better educated[2]. Factors that generate this phenomenon are directly associated with the attractiveness of a given district, which carries the potential for revitalisation, new development projects, and the interest of the creative class [3]. These measures bring with them economic change that does not allow previously settled poorer classes to remain in a given area. After a period of the emergence of numerous suburbs around Polish cities, positives in settling in often already depopulated, service and tourism-oriented city centreshave once again been noticed. The re-urbanisation of cities, the influx of a new population wishing to live in exclusive, renovated districts within city centresis closely related to the phenomenon of gentrification [4].

Areas that aspire to do so are characterised by proximity of historic city centres, green space of significance in terms of the entire metropolitan area, and often have a rich history and a certain type of spirit, an atmosphere created by its residents. Today, cities are home to all social classes, who, depending on the circumstances, displace each other from certain areas. Social classes have not disappeared in Poland and are intuitively identifiable by society [5]. Gentrification, although it is seen negatively, also has a positive side. In the

context of the impact of individual districts on the general image of the city, a decayed area can experience a rebirth, elevating the prestige of the metropolis at the regional or state level.

As a part of the contemporary re-urbanisation of city space, gentrification expresses itself in three main aspects. It primarily manifests itself in the spatial dimension via an improvement to the aesthetic of a given place and its technical and economic condition, an increase in property prices and living costs in a given area, as well as in demographic changes [6]. It should be noted that gentrification can also have the opposite character and lead to the re-decay of the area. Gentrification is also a process that occurs naturally and typically is closely linked with revitalisation. Regeneration, although aimed at integration, that is, improving the quality of a given space to the benefit of its residents, often leads to the gentrification of the area [7].

Ultimately, the narrative on gentrification always boils down to the human factor. All aspects of it are reflected in the characteristics of the inhabitants of a particular neighborhood. One must account for how severely it affects the architecture of a given place, often doing so negatively. Taking Krakow as an example, one can clearly state that it manifests itself in the form of aesthetically unpleasant remodeling, vertical expansion, or restoration projects of specific, originally valuable buildings. These measures are possible for a number of reasons, including bad law, legal loopholes, or neglect, resulting in a given building not being listed as a heritage site.

This phenomenon is associated with the negative activity of real estate developers, who are primarily focused on the maximum possible profit and do not see any value in protecting authentic urban framework. The restoration of old buildings is always associated with considerable expenses, which can be ignored by contemporary facades when a building is not a heritage site, thus leading to the removal of architectural detail or the outright demolition of the building to build new urban substance. Krakow is one of many cities on the map of Poland map where, along with developing suburbs, one can observe rising interest in returning to its historical districts.

Since the 1990s, the development of tourism has been slowly forcing the original residents of these areas to move out, giving way to all kinds of services and cultural facilities. However, there are numerous townhouses that are still not restored and are inhabited by their original residents. They are nevertheless consistently bought out and transformed into luxurious apartments for new potential buyers. One example that illustrates this phenomenon is the building at 10 Łobzowska Street in Krakow's Piasek district. The townhouse, built at the start of the twentieth century, hides in its courtyard a freestanding masonry building that was originally used as an Atelier by Krakow's artists both before and after the Second World War (Fig. 1). The building, although small in scale, is characterised by high aesthetic value: it resembles a small church or chapel [8]. Due to the planned extension of the townhouse by its new owner, the Atelier is currently planned to be demolished, as it is not listed in the monuments register. In this and similar situations, due to the technology in which the building was constructed, the only solution that could protect it from demolition is its relocation [9]. This solution, although unpopular in Poland, has been used around the world already since the end of the sixteenth century [10]. This is a win-win situation. The city continues to naturally develop and the authentic structure is not demolished. Furthermore, due to the use of relocation, it can remain fully unchanged.



Fig. 1. Current view of the Atelier building and a tenement house at Łobzowska Street in Krakow.

## 2 METHODS OF STUDY

The idea behind the work is based on a case study of the on-going urban transformation of the Krakow district of Piasek. The research methods used by the authors included textual analysis of urban planning documents and their own work the conceptual design project of the relocation of the structure. The investigation was based on gathering historical and practical information by reviewing published materials, interviewing practitioners from multiple related disciplines, and personal observations. The idea behind the relocation project was based on archival studies, the aim of which was to uncover the value of the Atelier through the history of the Piasek district.

## **3 RESULT AND DISCUSSION**

## 3.1 Possibility of gentrification in a given area

When discussing the phenomenon of gentrification and its consequences, one must first determine whether the process is currently ongoing within a given area. When analysing well-known cases of gentrification in global metropolises, such as Berlin's Kreuzberg district, where a cult district that was inhabited by young people and the creative class was turned into a major tourist destination [11], or the Mission District in San Francisco, which went from being home to a low-income Hispanic population to one of the most expensive places in the USA due to the steady influx of new residents employed in the high-tech sector that began in the 1990s [12], one can find spatial characteristics shared by such areas regardless of their geographical location [13]. These characteristics can be present either in groups, supplement each other, or clearly dominate the others. Such areas are typically characterised by proximity to historical city centres, a green area of metropolitan significance and, although they can bear signs of decay, they typically display aesthetic value associated with history or culture due to the presence of their original residents.

**Table 1.** Analysis of the possibility of gentrification in a given area.

Factor	Piasek District		
Distance to the city centre	The district abuts the centre of Krakow's Old Town. The distance between		
	the townhouse at 10 Łobzowska Street and the Main Market Square is 800		
	m.		
Distance from a major	It borders with Krakowski Park from the west and Planty Park, which		
green area	separates it from the Old Town, from the east.		
Aesthetic assets of the districts	The district possesses highly valuable aesthetic assets, including pre-war		
	buildings and good examples of Modernist architecture. It is very green as		
	every city block has a green courtyard or internal garden.		
Number of damaged	There is an observable number of abandoned townhouses in the district,		
buildings	which are potentially attractive sites for new projects or remodeling		
	measures (e.g., the townhouse at 10 Łobzowska Street).		
Number of historical	The history of the district dates back to the fourteenth century and it is		
townhouses or buildings	recognisable within the entire city, which developed particularly		
erected prior to 1950	intensively during the start of the twentieth century. For this reason, most		
	of its development is comprised of townhouses from before the Second		
	World War.		

Upon analysis of the factors listed above (Table 1), which indicate whether gentrification either can take or is taking place, it can be stated that the Piasek district is undergoing gentrification. Every city is unique, and to recognize the process of gentrification, one must perceive several factors together. The weight of each factor is different depending on the study case. There are no more or less important ones in terms of ongoing gentrification. In the case of Piasek district, the most significant ones are the short distance to the city centre and high esthetic assets of the district.

#### 3.2 The Case of Piasek District in Krakow

Piasek is one of the oldest areas associated with the city of Krakow. At present, it is a district that directly borders on the Old Town. Only 200 years ago most of its territory comprised gardens and fields, while its development consisted of wooden rural houses, the suburban villas owned by wealthy residents of Krakow, and church buildings [14]. The end of the nineteenth century marked an intensive rise in development and the area began to transform into a housing district, which survived largely unchanged despite the Second World War.

Gentrification in Polish cities began only after 1989 [15]. This was closely associated with the country's political transformation, as previously, after the Second World War, social classes ceased to exist in an economic sense. In the 1990s, foreign capital began to flow into Poland, its population slowly gained affluence, and began to pay greater attention to the aesthetics of its surroundings.

Tracing the development of the Piasek district from the 1990s to the present, one can note that it has become a cultural site on the map of Krakow, a fashionable place to live while being inaccessible to average-income residents. It is now being renewed, revitalised, and is the site of new development projects (Table 2).

**Table 2.** The process of gentrification in the Piasek district.

Phenomenon	The 1990s	After 2000	Present day
Demographic	Townhouses with a	Due to the privatisation of	A small share of original
changes	stable number of	townhouses, poorer	residents protected by
changes	residents who have	residents are forced to leave	
	lived there for many	their apartments; start of the	-
	years	trend of fixed-term	affluent people; many buildings
	jeurs	apartment rental to	are used as hotels
		•	/hostels/apart- ments for fixed-
		influx	term rent
Examples of	-	Revitalisation of the major	The planned rerevitalisation of
spatial		streets, e.g., Karmelicka,	the former tobacco factory;
revitalisation		Krupnicza; revitalisation of	closure of the cultural and
		the area of Rajska Street;	gastronomic space to make
		the emergence of a new	space for a new luxurious
		cultural centre of Krakow,	housing estate, revitalisation of
		revitalisation of a former	Karmelicka Street, Biskupi
		tobacco factory; the	Square, and many smaller areas
		emergence of a cult	
		gastronomic space	
New functions	-	New cultural centre in the	Trend featuring the
		district—the Lesser Poland	establishment of luxurious
		Garden of Art., the	service facilities such as
		-	spaces, expensive restaurants
		branch—the Auditorium	with international cuisine
		Maximum, many new	accessible only to affluent
Decerved areas	Maglastad maglast	service establishments	district residents and tourists Abandoned townhouses
Decayed areas	Neglected pocket gardens, undeveloped	Worsening street technical condition, undeveloped	awaiting renovation and an
	plots acting as waste	plots act as parking lots.	undeveloped land plot that acts
	deposit sites, private	piots act as parking iots.	as a parking lot: temporary
	bus line stops,		situations.
	unofficial parking		Situations.
	spaces, decayed area of		
	a former tobacco		
	factory		
Building	Only necessary	Restoration of cult	The general trend involving the
			renovation of building facades,
new projects	work due to worsening	the Kamienica pod	numerous remodeling design
	technical condition	Pająkiem by Talowski, the	projects targeting existing
		Library,	townhouses or new high-
			standard design projects
General	Many neglected	A place undergoing	One of the greenest, well-
aesthetics	townhouses with visibly		maintained, and attractive
	deteriorated facades,	begin to care for their	districts of the city, very good
	cases of nonland-scaped		aesthetic when compared to the
	greenery, generally poor aesthetics	overall good aesthetic condition	rest of the city
	poor aestrictics	Condition	

## 3.3 The direction of gentrification: human perspectives

Krakow's population count showed very little signs of change during the turn of the century (Table 3). What has changed over the past 20 years is the increase in the number of the city's oldest residents and a marked decrease in the number of children and newborns.

Age / Year	1998	2002	2010	2015	2017	2018
0-19	209 552	161 798	124 445	112 031	133 131	136 504
20-39	245 464	242 692	265 607	249 754	239 196	234 218
40-59	180 047	240 669	230 111	191 964	193 976	195 937
>60	110 585	120 250	167 877	143 270	201 045	204 410
total	746 627	758 544	757740	761 069	767 348	771 069

**Table 3.** The population of Krakow by age

Certainly, there are also several hundred thousand people who are not in the statistics. This number consists of about 200,000 students (in 1990, there were only 50, 000) and a similar number of university graduates, 70,000 Ukrainian immigrants, as well as tourists flooding the city. Last year, Krakow was visited by 12 million tourists, and among foreign guests, there are those who come for several weeks or months. The number of universities increased from 12 in 1990 to 23 in 2010 [16]. This may explain an 11% increase in the level of higher education among citizens in 2004-2011 (Fig. 2).

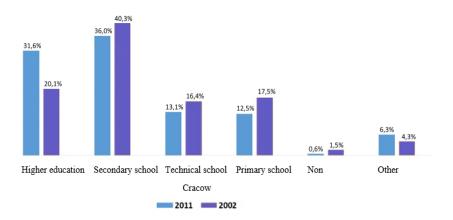


Fig. 2. Comparison the level of the education of inhabitants of Krakow.

The centre of Krakow is depopulating very quickly. In 1961, 52,000 people lived in the city centre, while in 2003, there were only 5 thousand [17]. This phenomenon shows that along with the natives of the neighborhood, the whole neighborhood is dying. Of course, new facilities are being erected, but they are not affordable to average-income people. Moreover, the middle class prefers to live in the suburbs as the city centre is full of tourists and nightlife[18]. According to a survey conducted on 152 residents of downtown Krakow in 2016, the average age of a citizen is 44. Students represent only 9% of the district's population. The largest part is the rich 60%. On the other hand, 8 people out of 1000 have an eviction order due to lack of livelihood - this is a record in the scale of the entire city. In other districts, this number varies between 0.7-4.6.

The diversity of the social status of inhabitants generates areas characterized by the accumulation of social problems, such as poverty and crime. The problems of the district most often indicated by the inhabitants are communication and mobility (24%), safety and

nuisance phenomena and crime (21%), health (18%), and aesthetics (17%) [19]. Referring to the data presented above, it is considered that gentrification in the Piasek district is ongoing and has not gone yet through a "full cycle".

#### 3.4 The idea of structure relocation

Relocation is associated with moving a structure to a new location as a whole, without lowering its aesthetic and technical value. It is a process that is very difficult in technical terms and entails considerable costs. Although the first known procedure of this type was performed in 1598 in London, relocations are currently only used in special cases, when other methods of preventing a building's destruction cannot be applied. There are two relocation methods and the choice as to which of them should be used depends on the structural system of the building and its technical condition. Timber buildings can be dismantled. They can be disassembled and later reassembled again at a new location while preserving their original character. Masonry buildings typically need to be moved as a whole. They react poorly to disassembly, and attempts at performing it are associated with irreversible damage [20]. In such cases, after applying steel bracing frames, the structure is cut off from its foundations, lifted using actuators, and then moved to a new location.

Criteria

Structural system

Weight

Distance from the target site

Technical condition

Criteria

Atelier

Masonry structure

Masonry structure

Structures during relocation.

29 or 59 m in a straight line, depending on the chosen site—a small distance between the original and target site.

The technical condition was assessed as poor. The building is dated to the start of the twentieth century and has not been renovated since its construction.

**Table 4.** Analysis of the choice the method of structure relocation.

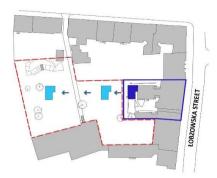
The Atelier located at Łobzowska Street, due to the factors described above (Table 4), should be relocated as a whole.

# 3.5 Relocation—to be followed by?

The Atelier building is to be relocated to a neighbouring plot, which is a garden owned by the Congregation of the Resurrection. This garden is located at the centre of a city block and is currently inaccessible to average-income residents of Krakow. After the relocation, this space is to undergo a revitalisation, and the building is to be subjected to adaptive reuse as an exhibition space [21]. Both the developer and the Congregation's leaders support the project. As the developer is aware of the historical and sentimental value of the Atelier, he agreed to financially support the process of translocation and regeneration of the whole garden after that. In return, the Congregation of the Resurrection agreed to provide the gate to the garden, open from the developer's plot side. The tenement house will then gain a view and its entrance to a semi-private garden in the very centre of the city. It will surely raise its price in the real estate market. As the entire structure of the Atelier building weighs only 15 tons, the moving process should not be very long or complicated.

The main design principle is to move the building of the historic Atelier in a straight line by either 21 or 59 m, depending on the site development option chosen by the developer at a later stage of the project (Fig. 3).

The approximate cost of both alternatives is € 100,000. It is worth noting how small the cost appears in comparison to the cost of an apartment in this district, which estimates between € 4,000 to € 5,000 per m2. Apart from the difficulties and costs, relocating the building will bring numerous additional benefits that are unattainable by demolishing it [22]. Revitalising this space can provide an additional area with cultural and recreational assets for the residents of Krakow and tourists. There is a high demand for such spaces in Krakow [23]. All visitors will have the opportunity to rest in the public layout of the park and see the Atelier building. This space will be dedicated to organised cultural and religious events accessible to everyone. As noted previously, revitalisation can be one of the factors that contribute to gentrification. However, the city must continue to develop and do so in a natural manner regardless of the circumstances. With this relocation, at least one specimen of Krakow's beautiful architecture shall be saved from demolition.





**Fig. 3.** On the left - schematic diagram of the two possible new locations of the building: the current place of the Atelier and a plot with tenement house marked in dark blue, possible locations marked in light blue; on the right – visualization of the regeneration project made by the author.

#### 4 Conclusion

The development patterns that lead to gentrification are shaped by a complex array of private and public measures at the local, regional and national levels. The effect of gentrification on a person depends primarily on their social status. Gentrification is an instrument in the struggle against urban decay and an opportunity to make space attractive in the eyes of the middle class, real estate developers, and policymakers. On the other hand, it comes with an increase in living costs and the risk of eviction faced by poorer residents in the area.

The unique character of a district is often based on the beauty of its architecture. While space is subjected to aesthetisation, it sometimes happens that buildings that comprise original urban fabric are subjected to demolition. In certain respects, a neighbourhood that is gentrified can become a 'victim of its success'. The analyses that the authors performed and presented in this paper led to concrete conclusions as to how we can prevent this phenomenon that often accompanies gentrification.

Although costly and complicated, is in many cases relocating a building is the only way to save it from demolition, as in the case of the Atelier at Łobzowska Street in Krakow. This project is significant due to the historical considerations associated with the Atelier building, as well as the potential for future regeneration of this area. This creates new potential for revitalisation and new possibilities for its use, allowing the townhouse itself to be remodeled without the unnecessary destruction of valuable buildings in the Piasek district. This discussion is intended to sensitise the broadly understood users of this area,

which can potentially be subjected to gentrification, to identify the risks borne by apparently positive measures intended to improve the use quality of a given place. In the context of raising awareness to ensure that one avoids situations in which interesting sites become forgotten, the Atelier case study could inspire discussion in the field of building relocation methods.

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