Designing a Multi-Functional Complex Using a Structural Contextual Approach (Case Study: Laleh Zar Region of Tehran)

Maryam Taleghani¹, Reza Naghdbishi^{2*}

1 Maryam Taleghani

Department of architecture, Kashan Branch, Islamic Azad University, Kashan, Iran. Maryam.nba2@gmail.com.

2 Department Architecture, Roudehen Branch, Islamic Azad University, Roudehen, Iran. *(Corresponding author) Email:reza.naghdbishi@riau.ac.ir.

Abstract

Multifunctional complexes are some environmental and architectural areas that play their parts in society. Historical fabrics have an undeniable role in establishing urban identities. Failure to pay attention to the historical structures of a neighborhood or a city in many parts of the country could leave adverse impacts. Therefore, the characteristics of the past environments that contribute to the quality of designing multi-functional spaces should be examined by taking into account the effects of the environment on the urban spaces. This research investigates the role of context in multi-functional spaces and its effects on citizens, the urban environment spaces and urban identity. Also, theories are used to provide contextual indicators to design multi-functional spaces. Ultimately, guidelines are also offered based on the indicators and tables.

Keywords: multi-functional complex, contextualism, architecture, urban identity

INTRODUCTION

Today, urban spaces have an especially effective place in people's lives. Each urban space that surrounds us enjoys its usages and functions. In this connection, some spaces have various usages and respond to multiple needs. The spaces that may have different usages are called multi-functional spaces (Hasani, Saeid & Meschi, 2016). Contextualism as a common approach to urban development and architecture that values the context as a historical arena where the urban elements are recognized, designed and built. According to this viewpoint, the ideas and elements of past cities contribute to the formation of contemporary urban structures.

Thus, a context-oriented architect and urban developer should be able to understand the characteristics of a place and integrate them into a part of its design process (Toulaei, 2001). Contextualism is a link between architecture and urban development in a certain context. In other words, a context

refers to a place where architecture and urban development are related. Urban developers' tendency to construct in the existing complex denotes the interweaving of the old and the new in a way a living and the desirable whole is created. So, there must be a specific commitment to the issue and introducing new architecture into the existing context (Toulaei, 2001). Contextualists maintain that its internal forces or features do not characterize the elements of a city's fabric; rather are dependent on the environment and the surrounding complex. Thus, one cannot just look for characteristics and dimensions of phenomena, as well as the essence of the phenomena, without regard for the dimensions of time and context they are located. The unit of analysis in this approach is a review of buildings and spaces in relation to environmental factors, as any changes to them should depend on those factors (Toulaei, 2001).

Each generation should redefine the old symbols they have inherited from previous

introduced by Austin Allen, a

generations and reexplain the old concepts with the concepts of their contemporary time because architecture is an expression of space which helps create in the observer a certain experience of space concerning previous and future experiences (Feizi & Esmail Dokht, 2014). Each urban context is characterized by its scale, volume, spatial form, materials and architectural and urban development techniques that offer sensitive designers structural interventions and guidelines, with the society also presenting its controls. Thus. theoretical and philosophical debates mostly focus on the quality of this approach and the adaptation and coherence between new buildings and existing structural status (Feizi & Esmail Dokht, 2014).

Preservation of the framework of a place and imitating denotes copying the surrounding styles that can lay the ground for contextualism as a successful method in urban reconstruction. However. indiscriminate imitation of some old buildings could likely eliminate diversity. Thus, new contextualism designs don't want to be copies of an old building (Zhou & Zhang, 2015). Lewis Mafford suggests that imitation of the past will cause a boring future. Direct imitation of construction characteristics, and preservation of the things already existing, may help that space survive, though weakening the character and quality of that region (Zhou & Zhang, 2015).

A context may be a "fake thing," merely a superficial copy of a tradition. It may be an artificial thing relating to an emotional nostalgia that would help falsely improve itself in the memory. This type of feeling is strange and poor. Also, the past's concept of grief, sorrow and limited sweetness cannot be constructed this way (Zhou & Zhang, 2015). However, the criticism of the concept of context also helps search for new terminologies in contemporary architecture theories. George Dodds reasons that "revivalism" is a more comprehensive term than contextualism. True "site" realities, introduced by Austin Allen, are also new terms proposed instead of context (Esin Komez Doglioglu, 2015). Context is a critical concept in architecture. Although inherent contexts affect the architectural design processes, contemporary theories pay little attention to them (Esin Komez Doglioglu, 2015).

Unlike specific architectural style, а contextualism can be regarded as a set of values that help determine the conduct of architecture (Abdel & Moniem et al., 2017). Considering the expansion of residential and administrative towers as well as shopping malls, modern architecture has failed to meet the needs of a family for living in a house; thus, in this kind of architecture, if these elements are arranged among each other unsystematically, they will not create a coherent city. Now, we must get these elements along each other to complete their forms and activities and create a living urban life.

Because of the growth of the upper-class population, the Laleh Zar region moved northwards, as luxury commercial units were also erected there; meanwhile, due to the less presence of the low-income people in this region, most of the wholesalers or sewing shops were converted into manufacturing shops and electrical appliance malls. Despite the presence of high-rise buildings, this region has, thus far, failed to get back to the commotion and crowdedness of the past, as it becomes an abandoned and no-resident area when the working hours end, creating a frightening scene for the pedestrians. As stated, this study aimed to design a multifunctional complex using a structural contextualism approach in the Laleh Zar region of Tehran. Iran.

Theoretical Foundations of the Research Multi-functional Spaces

The expansion of urbanity and shortage of undisputed lands, on the one hand, and dissemination of the culture of using space in Western-style building construction, on the other hand, caused owners in large cities like Tehran to turn to construct multi-story

buildings, which entailed major interests for society; thus, increasing social the interactions across neighborhood levels. Expanded combined use denotes a building or complex that includes various land applications. This term is usually used when residential, administrative, commercial, entertainment and child care uses or social uses like school, library and state services are combined. Expanded combined use has recently become a common form among designers because the appropriate and dense use of the land is considered a suitable opportunity to convert it into an easy working and trading site. Cycling, walking and trips benefit people and reduce commuting and energy consumption in the transportation sector. Expanded combined use, if designed well, is aimed for a greater objective than constructing a building, like developing a site, art progress, and creating a real sentiment of place. The abundant benefits of expanded combined use must be determined by the transportation engineers, i.e., what they consider as "internal dominance," or points from a to b must all within this expansion. To develop expanded combined use. more activities. determination of the classification zone. parking lots, planning to use the land, and planned land development conditions are required so that a developer, administrator or constructor make sure and get the project The benefits of expanded running. combined use include the dense use of the land, reduction of traffic and energy consumption, creation of a sense of attachment, easy access to several places (maximum time management and utilization in the minimum possible).

Contextual Architecture

Contextual architecture is defined as architecture that has created a relation between a specific site and its expanded visual and physical environment. This study provides a comprehensive definition of the

contextual architecture of various levels; in sum, from a historical and philosophical point of view and a critical regional aspect, American architects offered principles and techniques while practicing contextual architecture in the mid-twentieth century; these criteria could be used as a basis for the design and graded evaluation of a building or a set of buildings which are symmetrically (Wolford. Jane. adaptable 2005). Contextualism first addressed merelv structural dimensions, later gradually turning into human aspects and extending its scope of studies to incorporate social and cultural characteristics of the society. Contextualists maintain that the elements of a city's fabric are not characterized by its internal forces or features; rather are dependent on the environment and the surrounding complex. Thus, one cannot just look for characteristics and dimensions of phenomena, as well as the essence of the phenomena, without regard for the dimensions of time and context they are located. The unit of analysis in this approach is a review of buildings and spaces concerning their environmental factors, as any changes to them should depend on those factors (Toulaei, 2001). This study has examined three structural, historical and social-cultural areas. Historians maintain that the past offers objective lessons for the current urban development. If a society disassociates itself from the past, it has rendered the human struggle void. Man, in a sense, has no nature; man has a history. The only difference between human and natural history is that the former can never start from the beginning (Toulaei, 2001). Traditionalism is inspired by the past visage of the city, positing that the new development should have a close relationship with the surrounding environment. It also focuses on the urban environment, which is familiar to the people. Patrice Geddes was a staunch advocate of preserving architectural and cultural traditions and a harsh critic of the imposition of Western urban development over non-Western societies. The new tendency, inspired by the Historical Preservation Movement to design cities, and made tradition an inspiration for the new thinking, was neo-traditionalism. Traditionalism focused on social objectives and deemed as important the return to the old institutions of the Agora public arena, temple and venues due to their spatial importance.

Social and cultural contextualists posit that culture creates a set of rules which the developed form represents. People use culture, i.e., values, worldviews and common symbolic systems, to give meaning to their environment and convert the vacant space into a place. The basis of the place theory is the understanding of human and cultural characteristics of a structural space (Toulaei, 2001).

The goal of contextual architecture is to preserve the beauty of the site nature using some precise design that concerns its surroundings. Contextualism in urban design and planning was first defined in the 1960s. Caroline Rowe was one of the leading figures who condemned the violation of modern urban deigns and their destructive effects on historical cities. Many of her seminal contributions were related to the urban form relative to the architectural language. Her seminal work that led to the school of contextualism was a critique of modern urban design and architecture theory, which posits that types of modern buildings were adaptable to traditional urban forms.

Infill Development and Modern Urban Development

Consistent with the modern urban development regulations, much emphasis has been laid on the applied planning of sustainable involving infill lands. development, mixed uses and increased density. Infill development in this regulation serves as a tool to protect the environmental resources and economic investment and stabilize the social body. Thus, emphasis is also laid on increasing mixed uses and activities of commercial centers there. To Williams, compact neighborhoods of mixed uses have increased access to urban services and facilitated social justice (Mir-Moghtadaei, Rafieian & Sangi, 2010).

The infill development model is directly associated with the growth of the smart city (a component sustainable of urban development), also regarded as part of its strategies and principles. In recent years, cities have founded many their neighborhoods' development models on smart growth strategies and principles. These principles increase access to uses, reduce vehicles per capita, and create neighborhoods of combined uses. The strategies related to smart growth also include encouragement to infill development. Urban smart growth and infill development are similarly characterized by the fact that both methods of development are thought of as a proposed method to reform dispersion, with the infill development implemented specifically in the campuses constructed (Mir-Moghtadaei, Rafieian & Sangi, 2010). Uncertainty about the time, costs, and complexity of the site preparation has made it difficult to measure and compare land potentials used in the housing sector. Thus, uncertainty in achieving developmental goals can be considered a barrier. This kind of development is not a common or systematic model, as investors are less familiar with it.

On the other hand, requirements in an infill developmental plan are not evaluation criteria, and failure to evaluate the indicators to select suitable lands for the development are other existing problems and barriers. Urban infill development projects can only be residential and involve mixed uses and development with diverse applications. This kind of development can be in a prefabricated form, in small or high-rise units, or be reconstructed, restored, revived, etc.

Table 1: A summary of views of experts and critics about regional-global interaction (source:Bayazidi, 2013).

Critic	Viewpoint and theory
Fumihiko Maki	In reality, globalization denotes that people of the world cannot make use of all local artistic traditions and expressions as an accomplishment of human civilizations
Robert Charles Venturi	Globalization is excessively boring because it has lost its environmental spirit.
Paul Andrew	It is cultural exchange and the possibility of representing creativities that bring about the architecture of a nation; rather than the determination of the sources that have inspired them
Zonis	The goal of regionalism is to create diversity while benefiting from global advantages.
Rapaport	Providing an incomplete housing design, allowing residents to play a major role in designing their houses
Farhad	
Sasani	Only local arts can engage in the global discourse; i.e., those arts that are not merely from museums

Table 2: summary of architects and their works on the regional-global interaction

Architect	Their works and characteristics		
Alvar	Säynätsalo City Hall, attention to technology and place		
Aalto	Säynätsalo City Hall, attention to technology and place		
Jørn	Kuwait Darliament Ruilding, integrating general and local characteristics		
Utzon	Kuwait Parliament Building; integrating general and local characteristics		
Louis	huilding in Dhaka, Bangladach		
Kahn	building in Dhaka, Bangladesh		
Andō	Shopping mall convention project in Naha Okinawa; Attention to the		
Tadao	importance of shadow		
Raj Rewal	Olympic village housing in India		
Moshaver	University of Aghakhan and Kerachi hospital complex		
Pite			

An infill development protects the lands outside the city, on the one hand, and plans for the vacant and defenseless spaces inside the city, on the other hand.

 Table 3: Dimensions and concepts of evaluation from the view of infill development

Infill development			
Social-economic	Functional	Structural-environmental	
Engaging residents in all activities	Reducing and removing the general visage of the parking lot	Updating a general plan and zoning codes	

	1	
Creating public and	Locating places with	Using special plans
private participation to	the inherent	
provide financial credits	potential for infill	
	development	
Working with neighbors	Separating the cost	Increasing transportation
constructively and	of parking lots from	choices
usefully	the cost of housing	
Reviving old and	Using common	Reducing and removing the
declining communities	parking lots	general visage of the parking
		lot
Stabilizing and	Creating a clear link	Attention to the reports of
supporting local	between public and	environmental impact on
businesses and non-	private spaces	projects
profit organizations		
Preserving the	Creating a sense of	Administration by open
traditional image of the	security and safety	development agencies
neighborhoods	with design	
	elements	
Space dimensions and	Providing the	Providing urban guidelines
scale should create easy	possibility of	and strategies
and peaceful	sidewalks and cars	
interactions among	inside the urban	
people	block	
Ensuring the usefulness		Reconstructing existing
of the new development		houses as a preferred choice
for the community		for developers

Investigation of a case sample outside Iran Table 4: Review of the Louvre Museum (Source: authors)

Louvre Museum			
Place and Year of construction:	Paris, France, 1989		
Type of school:	Infill building, facadism		
Architect:	I.M.P		
Architectural analysis:	 The foundation, designed to be annexed to the Louvre Museum, is made of a large glass and steel pyramid surrounded by three smaller pyramids transporting light to the space below the courtyard of the Napoleon section. The foundation of this glass-made pyramid creates a symbolic entrance with figural and historical importance and strengthens the main entrance. This structure is one of the most consolidated forms that justifies its transparency, as it is made of glass and steel; this structure suggests a gap with old architectural traditions. This work belongs to our times. The scale of the large pyramid, designed in proportion to the famous Pyramid of Giza, was just beyond a simple adjacency of this modern structure, as compared to the historical nature of the Museum; here, the French Renaissance architectural style of the Museum has created a considerable impact that is associated with design beauty and details. 		

© 2021 JPPW. All rights reserved

	 The glass-made sloped walls of the pyramid follow the gable roof of the Museum, as this heavy and dark view of the Louvre intensifies the transparency of the foundation design. 	
Architectural critique:	Most critiques about this revivalism were aimed at the very subject of the architectural styles rather than the annexation of the Museum. Most critics felt that the aesthetics of the modern design of the foundation was in full conflict with the classic architecture of the Louvre Museum, which is revealed in a strange form.	

Table 5: Review of the Crystal Museum in Canada (Source: Authors)

Canadian Crystal Museum	
Place and Year of construction:	Toronto, Canada, 1912
Type of school:	Infill building, Deconstructivism
Architect:	Daniel Libeskind
Architectural analysis:	 This project is today known as Michael Lee-Chin Crystal, which is made of a five-story building that reminds royal crystals. The architectural style is deconstructivism, 25% glass and 75% steel. It provides a superb view of the city of Toronto, specifically at the upstairs of the Museum
Architectural critique:	Even though many observers praise beautiful glass buildings, incompatibility and dissimilarity of the new design with the old building of the Museum, now sitting next to it, was announced as the main cause of choice.

Tal	ble 6: Review	of the	Reichstag	Dome	(Source: author)

Reichstag Dome	
Place and Year of construction:	Berlin, Germany,1992
Type of school:	Infill building, facadism
Architect:	Norman Foster
Architectural analysis:	 The stone-made fabric plays a basic role, with the glass and metallic structure (dome) opening and spreading the space to serve as a symbol of Germany's open and free popular government. Herbal oil is used to supply the energy of this building. Contamination caused by this fuel is much lower than by fossil fuels. Generated Carbon Dioxide is 94% lower than that produced by fossil fuels. A full glass dome allows for sunlight and daylight, thus creating natural ventilation inside the place. Visitors pass through the Main Square and entrance of the building to use the large elevator to access the rooftop and finally the dome, as they can see the parliament representatives inside the structure. There is an expanded terrace on the parliament's rooftop, in the middle of which is a large glass-made dome; inside the dome, there are two ramps against each other, one is for the visitors' climbing up, and the other for their climbing down. On top of the dome, there is a cavity for natural air ventilation. Also, in summers, solar energy is used to supply warm

Table 7: Review of House of Dior (Source: author)

House of Dior	
Place and Year of construction:	Seoul, Korea, 2015
T	
Type of school:	Multi-functional complex, minimalism
Architect:	By renowned French architect Portzamparc,
	while Peter Maurino designed the interior space
	 A new, fluid, tall, statue-like ambitious structure conforms to the site. The architect said: "I wanted to develop a building to represent Dior and to
Architectural analysis:	represent the work of Christen Dior. Thus, I wanted to make the facades fluid, like soft white silk garments. These surfaces

Table 8: Review of multi-functional Malmö Liv complex (Source: author)

Malmö Liv		
Place and Year of construction:	Malmö, Sweden, 2015	
Type o school:	Multi-functional complex, minimalism	
Architects:	Tiago Pereira, Rene Nedergaard, Sveinung Chercka Simonsen, Mads ¹ Dyssel Engel, Caroline Zakrisson,	

¹ Archidaily

^{© 2021} JPPW. All rights reserved

Γ					
	Sally Rudgaard Jessen, Thomas Walcher, David Fink,				
	Kirsten Sennicksen, Morten Fough				
Architectural analysis:	 Sally Rudgaard Jessen, Thomas Walcher, David Fink, Kirsten Sennicksen, Morten Fough Malmö Liv is a dynamic building that serves various architectural functions. The point of departure for the building design was the traditional architecture of the modern Scandinavian area, which is transparent, functional and accessible with an open and concentrated floor story. The idea was to create a "house in the city to develop a building which will contribute to the existing urban life." The context includes materials, colors, and various sizes of different building regions, as the building design refers to the future. The building is composed of twisted cubes of different sizes, corresponding to the direction and height of the buildings surrounding it. Its façade is designed with a homogenous expression which appears to be a kind of architectural sculpture. Various building uses are organized in the form of separate elements, similar to a small city. Like cities of the Medieval centuries, which were curved, there are narrow alleys around the squares and lobby squares taking the form of small congregations where visitors can sit and enjoy the demonstration of the channel and the park. 				
	 It has a large symphony hall, a flexible saloon and a conference hall 				
	 The interior space is simple which is made of rough black and white concrete, stone, wood, and brass aimed at protecting the open nature of the building 				
Architectural criticism:					

 Table 9: Review of Kourosh's multi-functional commercial and cultural complex (Source: author)

Kourosh commercial and cultural complex	
Place and Year of construction:	2014
Type of school	Multi-functional complex, Minimalism
Architect	Javid Nejad
Architectural analysis:	 This building is notably resistant to earthquakes. Minimalistic principles, which are proportionate to the volume and identity of buildings, are observed on this building in a modern form. Its façade combines Frameless and Spider windows, stone and ceramics, and composite aluminum, equipped with two LCDs of large dimensions of 13*10and 17*10 to display cinematic campus movies and advertisements. The entrances of the building not only have an identity distinct from the body of the building façade but also have a great appeal, thus enjoying desirable conformity. The volume of the Spider glass-made cube, located in the southwestern corner of the building, covers the second to sixth stories, thus giving special importance to the building. In the meantime, the pleasant demonstration of the hall includes Fast food and Coffee Shop spaces in all these stories. Large and appealing void of the complex on the first basement floor has become a central lobby by the implementation of floor covering; this lobby has distinct features.

	6. The presence of a beautiful fountain, along with unique lighting and congregation, hall and appealing artistic spaces are the characteristics of this building.
Architectural criticism	7. Located in district 5 of Tehran, the Kourosh commercial and cinematic complex has 14 cinematic saloons containing 2500 chairs to be the largest cinematic campus in the country. However, this complex was supposed to be an area for the welfare and amenities of the citizens due to its easy access to shops, restaurants and cinemas; now, since it is located on the Sattari Highway, which has heavy traffic, it has become a disrupting factor of public peace.

Table 10:	Review	of J	i multi-func	tional comme	rcial and	residential	complex	(Source:
authors)								

Ji multi-functional complex		
Place and Year of construction:	Winner of architectural design competition	
Type of schools:	Multi-functional complex	
Architect:	Moshaver Asar engineers	

	1. This design aims to achieve a long-term
	plan to create a flexible and dynamic
	urban complex in a land of 54 hectares.
	The first measures in this area began
	with constructing a public garden
Architectural analysis:	aimed to develop greenery spaces,
	annex it to the building structure, and
	connect four sections of the space
	together. The physical plan of the
	design includes 173 hectares for
	commercial, administrative, and
	design uses.
	2. Protecting and developing the existing
	green spaces
	3. Creating a spatial relation between the
	interior spaces of the complex with the
	city
	4. Creating a flexible urban structure
	capable of connecting all project
	components
	5. Avoiding interference with the walking
	and driving spaces and allocating free spaces to the walking spaces
	6. Access to a free and flexible plan 5 that
	can change based on future needs

 Table 11: Review of Bentoun multi-functional complex in Tehran (Source: authors)

Multi-functional Bentoun complex	
Place and Year of construction:	Winner of the first prize in the international architecture competition in Tehran
Type of school: Architect:	Modern, contextualism WERK83

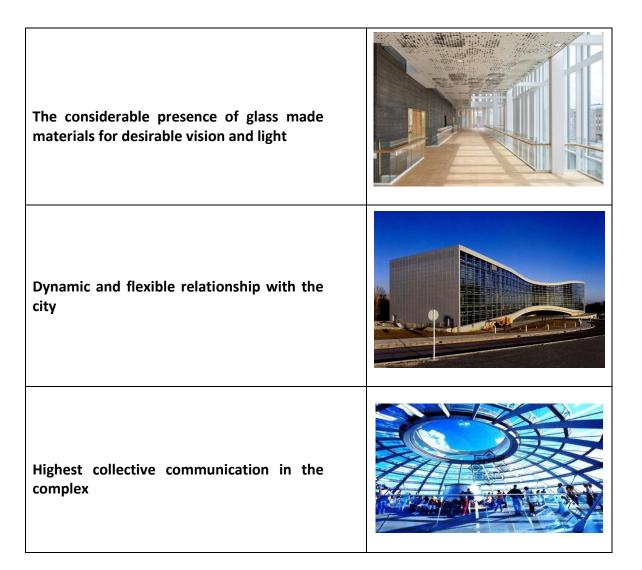
© 2021 JPPW. All rights reserved

	70	
u.	1 /	

Architectural analysis: 1. Form of this building follows points below: a) signs of Ziggurat, one of the oldest forms of this land b) a function of plan requirements 2. It has a social goal of retail sales in the region commensurate with the historical context of the neighborhood 3. Architecture/details: The façade is covered by engraved aluminum panels. This interior space protects against excessive heat, creates complicated shades and decorates the internal spaces. The height model is in proportion to the Farsi decoration. The office shutters and apartment windows are also made of panels, with the façade looking homogenous in the design.

Table 12: Review of common features of case studies (Source: authors)

Presence of infill and protection of contextualism schools	
Comprehensiveness with the maximum use of land	
Statue-like structure sometimes called an urban sign	



The statistical population of this research consists of multi-functional complexes which have adopted one of the schools of contextualism. The sampling method was a random sampling technique. In this research, 9 multi-functional complexes of different concepts, including contextualism, were randomly selected outside and inside Iran, and each data was gathered using library sources.

Analyze of Site

The selected site is located in district 12 of Tehran, east of the Saadi St. site, north of the Johouri St. site and west of the Laleh Zar St. site. The site also includes part of the Laleh Zar St.



Image 1: Selected site situated in Tehran's Laleh Zar (Source: author)

The late Qajar and early Pahlavi eras were symbols of modernism and art in Iran. Laleh Zar St., known as the Champs Elysées of Tehran, was home to many theaters, Restaurants, trade houses, nightclubs, sewing houses, cinemas and famous shops of Iran. This site was dynamically flexible in terms of access to main and secondary and driving routes, as it enjoyed great public transportation such as subway stations (Saadi station) and various bus stops. The site's dimension in the north measures 83 m, in the east 120 m, in the west 75 m and the south 171 m. Also, the area of the selected

site is 20400 square meters. The slope of the site is 3%.

Findings

The table below shows the indicators of contextual multi-functional complexes using some case studies. This table investigates each indicator in every one of the eight complexes and gives scores, with each indicator scoring 1-5 from a sum of scores. Number 40 shows the best status quo situation, while number 20 shows the weakest. Also, each of the case studies examined has received a score for its design model, with the rank of each complex in contextualism derived in the end.

Indicator	The Lou vre Mus eum	Crys tal Mus eum	Reic hsta g Dom e	Dior Hou se	Mal mö Liv	Kou rosh	Jay	Bent oun	Scor e
Appropriate use or context									29
Protection of values									24
Respect for fluidity and local traditional character									32
Non-dominance over historical context									33
Vacant plots as the infill									32
Natural landscape									30
Street landscape									32

Table 13: Analysis of case studies using contextualism indicators (Source: authors)

Indicator	The Lou vre Mus eum	Crys tal Mus eum	Reic hsta g Dom e	Dior Hou se	Mal mö Liv	Kou rosh	Jay	Bent oun	Scor e
Minimum possibility of									32
destruction									32
New annexations in the form of a									20
separate building									20
Skylines									29
Hierarchy									35
Morphology of urban landscape									32
Volume-context balance									32
Non-dominance of new									
annexations over the historical									31
building									
Height proportion to or shorter									22
than the historical building									33
Proportions and scale									32
Preservation of integrity									32
Place spirit									40
Time spirit									26
Familial similarity									24
Reinterpretation of early									22
centuries of architecture									32
Familiar cultural symbols									28
Simple design									32
Respect for rhythm									32
Material compatibility									32
Details									32
Color									37
Height									35
Modern materials									32
Light									32
Transparent									32
Highlights									37
No copying									32
Reinterpretation of traditional									
details by modern details									32
Relation between old and new									33
Meeting the needs									32
Case score	162	126	156	144	142	125	131	135	

As the table above shows, the Louvre Museum has the highest rate of © 2021 JPPW. All rights reserved

contextualism among the cases studied, while the Crystal Museum and the Kourosh multifunctional complexes have the lowest rate of contextualism. Also, a review of the indicators of these eight cases suggested that **Table 14: Guide Table (Source: author)** vacant plots were regarded as infill, and new annexations as separate buildings held the lowest rate.

Quality	Very good	Good	Medium	Weak	Very weak
Color					
Score	5	4	3	2	1

Conclusion

Multi-functional complexes have a long history that dates back to the Medieval centuries. Thus, considering virtual communication systems, one should look for spaces that provide more public meeting opportunities. Multi-functional complexes serve as an appropriate guideline in a society with service and transportation expanded infrastructure. The term combined use denotes a building or site of the congregation that offers residential, administrative, commercial, entertainment and child care use and involves social uses like schools, libraries and state services. Multi-functional complexes also offer advantages to urban activities, help create more intimate relations between family members, reduce dependency on vehicles, reduce intra-city trips, increase public responsibility of their localities and coordinate public goals. For this, the components of an artificial environment made by humans should help create a special meaning in an orderly and coordinated way by arranging those components together. As Rapoport suggested, the organization of an artificial environment is also an organization of meaning. Structurally, space is vacant land, albeit with a range and goal that connects objects; when a space embraces a cultural content, it is called the place. Contextualism is a common perspective in urban development that regards the context as a historical arena where architecture and urban development are linked. The infill development may serve as a tool to protect natural resources, economic investment and the social body. For Williams, compact

neighborhoods of mixed uses increase access to urban facilities and services and social justice.

The theoretical discussions of this research involve expanded combined use, semantics, regionalism, and infill development. In this discussions section. theoretical were tabulated. Expanded combined use has recently become a common subject among developers because the suitable use of the land provides an appropriate opportunity for converting it into labor and shopping. Findings revealed that the factors affecting the expanded combined use were dense use of the lands, reduction of energy consumption, reduction of vehicle commuting, reduction of traffic, speed, reduction of inter-city trips and comprehensive spaces for public gatherings, ad increased sense of attachment. Major contextualism concepts include an emphasis on special characteristics of a place and its use of it in contemporary design, historical perspective of the urban form and attention to the importance of the past in forming the present and the future; in the meantime, it was revealed that culture creates a set of rules which the developed form is a representation of it, as it emphasizes the protection of special characteristic.

Using contextual multi-functional complexes, an analysis of the case samples suggested that each indicator obtained a score from 5 to 40. The indicators with a score of less than 35 suggested it is weak or discarded in the plan. For this, a guide table is presented which offers solutions for each of those indicators so that they are utilized to design a contextual multi-functional and identity-based complex.

Guide/so	Guide/solution Table					
Row	Priority	Guidelines				
1	Protection	More attention to historical fabrics and attempts to protect the				
	of values	historical sites located in the Laleh Zar site				
2	Respect for	Each design should be proportionate to the local situation not				
	local and	in conflict with it; thus, the current commercial aspects of the				
	traditional	Laleh Zar sites should be respected, despite being developed				
	characters	for the cultural and recreational aspects of the past				
3	Vacant	Use of abandoned and unused spaces as infill sites, and				
	plots as	creation of a functional communicational bridge between the				
	infill	vacant plot as the infill bd past historical buildings				
4	New					
	annexations					
	in the form	Separating the use of the annexed building from the infill				
	of a	building with a unique use as an urban sign				
	separate					
	building					
5	Skylines	Protection of the urban skyline, especially the historical Laleh				
	экуппез	Zar site that would avoid historical fabric deconstruction.				
6	Height in					
	proportion					
	to or	The heigh of this project is low and measures the height of a				
	shorter	four-story building, which is a sign of respect for protection of				
	than the	contextualism values				
	historical					
	building					
7		Creation of nostalgic spaces in the new fabric inspired by the				
	Time spirit	old fabric, and attention to cultural and recreational functions				
		of the past in the new design styles				
8	Place spirit	Creation of gathering spaces for more communication of the				
	riace spirit	public				

Acknowledgment

This paper is based on the first author Master dissertation in the Kashan branch of Islamic Azad University, Kashan, Iran. which was supervised by Dr. Reza Naghdbishi.

REFERENCE

Abdel-Moniem El-Shorbagy,(2017), Contextualism: Architecture and Context, Knoji Consumer Knowledge

Esin Komez Daglioglu,(2015), The context Debate: An Archeology, Architectural Theory Review,20:2,266-279

Faizi, M., & Esmail Dekht, M. (2013), Analytical genealogy of new construction technologies to give identity to architectural buildings using a contextual approach, Urban Management Quarterly, (38)

Hosni, A., Saeed, W. & Kazemzade Meschi, A. (2012). Design measures for multi-functional spaces in crisis management are consistent with space design patterns. Mashhad: Khavaran Institute of Higher Education.

© 2021 JPPW. All rights reserved

Mir Moghtadaei, M., Rafiyan, M., & Sangi, A. (2010). Review of the concept of infill development and its necessity in urban areas, Shahdariha Journal, 98(10). Tolaei, N. (2001). Contextualism in urban planning, Fine Arts Quarterly, No. 10. Zhou, Sh.&Zhang, Sh,(2015), Contextualism & Sustainability: A Community Old City Of Beiging, Sustainability 2015,7,747-766