

## RESEARCH ARTICLE

**SUSTAINABILITY THROUGH THE ADAPTIVE REUSE AND RE-FUNCTIONING OF THE HISTORIC CASTLE OF OTHELLO TOWER IN THE WALLED-CITY FAMAGUSTA, CYPRUS****Dr.Amal S. A Ahsairat <sup>1</sup> and Khadiga . A . Awad . Salama<sup>1</sup>**

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**Accepted at 23/02/2021****Published at 01/03/2021****Abstract**

The Othello Castle (OC) in the walled-city Famagusta (WCF) has high cultural values and it should be conveyed into future in its original way so the future generations can also see its unique beauty. However, the Othello Tower deteriorated during the previous period of time and it needs to be conserved and preserved. This study aims to conserve the OC by assessing the possibility of re-function opportunities in the OC historic walled city of Famagusta are selected appropriate to its new functions to the castle. Data is collected from the sources such as book, articles , Internet sources and interviews ,In addition to this was filmed in the castle. And the transfer of historical evaluation ,and assessing of architectural space through Literature .And public opinion is measured using a questionnaire , this is done interviews 40 people from two different groups : First, the residents those living in the walled city Famagusta ,and secondly ,the tourists those who come to visit the Othello Castle. The study proposed some functions that maybe applied for this historic building with the relevant characteristics of the architecture and public functions, therefore . Cultural functions that will be recommended for this of the castle is a museum or theater, while the functions of commercial that would be recommended is the restaurant or mall. In a public opinion poll analyzes show that residents and tourists and parallel to each other , the cultural functions are appropriate for this castle because it was their second choice preference function cultural museum or theater.

**Key Words:** Othello Castle, historic walled city of Famagusta, Cyprus, Adaptive Reuse, Conservation of historic buildings.

## الاستدامة من خلال إعادة استخدام وإعادة تشغيل القلعة التاريخية لبرج عطيل في مدينة فاماغوستا ذات الأسوار، قبرص

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### المستخلص

تتمتع قلعة (Othello Castle) الواقعة في مدينة فاماغوستا ذات الاسوار شمال قبرص بقيم ثقافية عالية ويجب الحفاظ عليها ونقلها إلى المستقبل بطريقتها الأصلية حتى تتمكن الأجيال القادمة أيضًا من رؤية جمالها الفريد. ومع ذلك ، تدهور برج (Othello) خلال الفترة الزمنية السابقة ويحتاج إلى اتخاذ خطوات جادة بهدف الحفاظ عليه. تهدف هذه الدراسة إلى الحفاظ على برج (Othello) من خلال تقييم إمكانية إعادة الوظائف في مدينة فاماغوستا التاريخية ذات الاسوار والتي يتم اختيارها بما يتناسب مع وظائفها الجديدة للقلعة. يتم جمع البيانات من المصادر مثل الكتب والمقالات ومصادر الإنترنت والمقابلات ، بالإضافة إلى ذلك تم إنقاص بعض الصور الهامة في القلعة وتم الحصول على بعض البيانات من خلال مراجعة الدراسات السابقة ، وتم قياس الرأي العام باستخدام استبيان ، وذلك بمقابلة 40 شخصًا من مجموعتين مختلفتين: أولاً ، سكان المدينة ذات الاسوار فاماغوستا ، وثانيًا ، السياح الذين يأتون لزيارة قلعة (Othello). اقترحت الدراسة بعض الوظائف التي يمكن تطبيقها على هذا المبنى التاريخي مع الخصائص ذات الصلة للعمارة والوظائف العامة ، لذلك. الوظائف الثقافية التي سيتم التوصية بها لهذه القلعة هي متحف أو مسرح ، في حين أن الوظائف التجارية التي يوصى بها هي المطعم أو المركز التجاري. في تحليلات استطلاعات الرأي العام تظهر نتائج الاستبيان أن السكان والسياح وبالتوازي مع بعضهم البعض تقترحون أن الوظائف الثقافية مناسبة لهذه القلعة لأنها كانت الخيار الثاني المفضل لديهم كمتحف ثقافي أو مسرح.

## **INTRODUCTION**

Historic buildings are part of the World Heritage , but the main concern for all countries and all societies and all these building are a unique type of work in the past, and although some of them now obsolete, and historic building that have been found in northern Cyprus is a very valuable and unique because many of the civilization that passed through this small island and leave the lot and must be of the rich classes in Cyprus ,but this unique historical buildings have a different situation because of the fact that they live without the community are listed in the walled city, of Famagusta in the World Heritage list of UNESCO , because of this conservation Unfortunately , Othello Castle has deteriorated, Castle exhibits different levels of degradation. The outer wall surfaces are usually in better condition, with the internal construction with a very badly damaged . There are successful examples of many of the adaptation and reuse of the world that given the historic building of old a lot of different functions ,and examples like this of this reuse can seen in the new function given to the Castle that have been developed and renovated to the functions .

### **Problem Definition**

The Othello Castle in the walled-city Famagusta, It has high cultural values and it should be conveyed into future in its original way so the future generations can also see it`s unique beauty , because this unique building is tools to show architectural heritage as a reflection of the cultural past of the country . Which come from previous times . The Othello Tower deteriorated during the period of time and it need conservation from the damage. It is not easy to preserve castle as an open air museum .Restoring a building but not benefit from it is not a long term lasting precaution ,to be able to sustain this castle for the future ,it is suggest to give a new function for it.

### **Research Objectives**

1. To determine the ideal function for the Othello Tower in the Walled-city of Famagusta.
2. To preserve criteria and values with change the function of Othello tower.
3. To determine the public perception of a historic castle critical architectural features when it is adapted to a new function.
4. To determine if it possible to use the Castle by proposing and scenarios different functions than as an open air museum.

### **Focus ,Field study**

This study covers the historic castle walls in the city of Famagusta. Are listed walled city of Famagusta in the World Heritage List of UNESCO ,which needs to be preserved. There are many architectural layers of different civilizations. This study was to determine the castle ,which stands in the walled city of Famagusta during the period of time, due to many reasons . This study aims to identify assessment opportunities to re-functioning of the castle in the historic walled city of Famagusta through the investigation of architectural features ,and historical background of the castle. In addition to the architectural and historic decisions, the public opinion through the search for suitable functions.

### **Research Methodology**

Data is collected from the sources such as book, articles , Internet sources and interviews ,In addition to this was filmed in the castle. And the transfer of historical evaluation ,and assessing of architectural space through Literature .And public opinion is measured using a questionnaire , this is done interviews 40 people from two different groups : First, the residents those living in the walled city Famagusta ,and secondly ,the tourists those who come to visit the Othello Castle .

### **Adaptive Re-use of Castle**

The definition of adapt and reuse of historic landmarks such as the reuse is more than just conservation or rehabilitation of property for new use or the continuation should be adaptive reuse of historic building have minimal impact on the importance of heritage in building and put her .Developers should understand why the building has heritage status , and then achieve development that is sympathetic to the building to give it a new purpose . Readjustment is self-defeating if fails to protect the heritage values of the building.

### **An example of adaptive reuse of the castle to tourist shrine**

**Name of building:** Mendoza Castle **Location :** Real Madrid in Spain



This building is a good example of modern conservation approaches in the use of form, materials and design . This Castle is an important example the Castilian military architecture and additions Gothic the 15<sup>th</sup> century . Was renovated from the castle to tourist shrine. (Fig.1)



Fig.1: An example of adaptive reuse of the castle to tourist shrine

**Name of building:** Mendoza Castle **Location :** Real Madrid in Spain

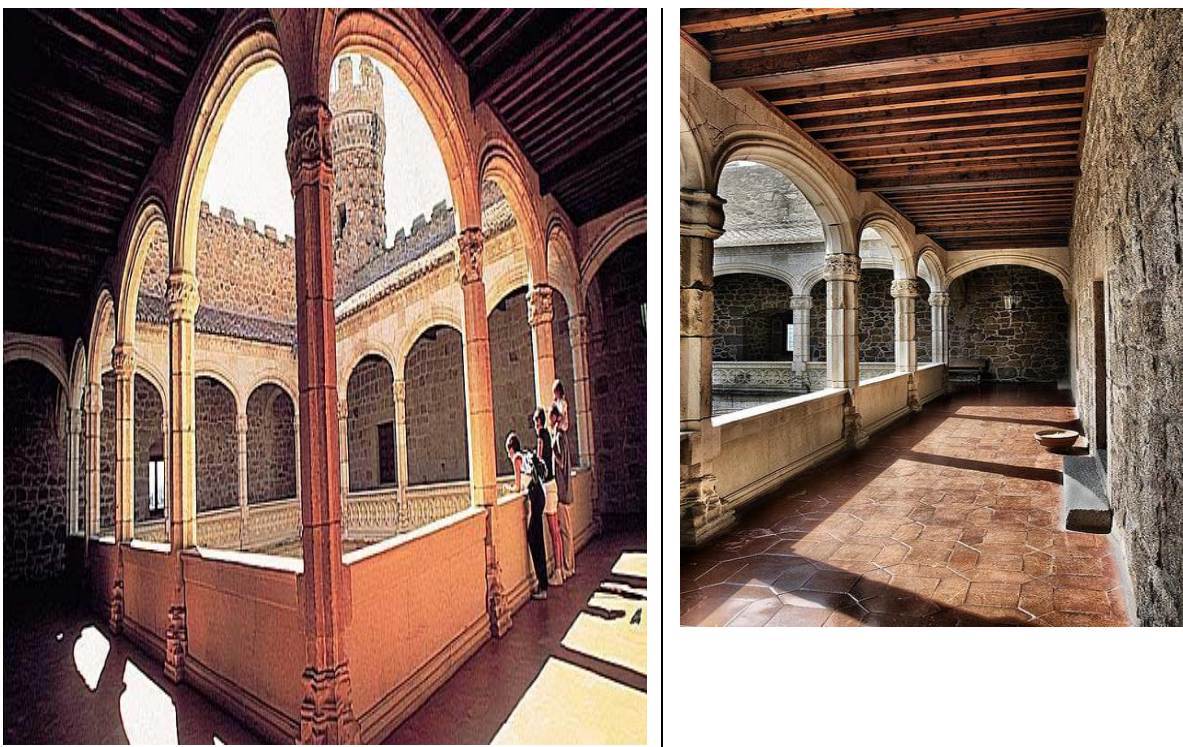


Fig.2: Another example of adaptive reuse of the castle to tourist shrine

**An example of adaptive reuse of the castle to the cultural function**

**Name of building:** Tripoli Castle **Actual name of building :** Assaraya Alhamra Museum

**Location :** Tripoli, Libya

This building is a good example of modern conservation approaches in the use of form , materials and design . This Castle is built from the Spaniards in 1510 , was renovated from the castle to a museum . (Fig.3 & Fig.4)





Fig.3: An example of adaptive reuse of the castle to the Tripoli Castle cultural function

**Name of building:** Tripoli Castle **Actual name of building :** Assaraya Alhamra Museum

**Location :** Tripoli, Libya



Fig.4: An example of adaptive reuse of the castle to the Tripoli Castle cultural function

## Assessing Historical and Architectural Space of Castle of Walled-City Famagusta and Public Response Survey

### Historical Background of Castle in Famagusta

The historic castle was built in 14<sup>th</sup> century during the period and Lusignan built by the Venetians in 1496 .This study was to determine the castle, which stands in the walled city of Famagusta Othello Castle and is selected from the walled city of Famagusta , because this place is the World Heritage List of UNESCO ,and this place reflects the historical past and cultural heritage of Cyprus . Protection of the port through the centuries 12<sup>th</sup> and 13<sup>th</sup> . Othello Castle is the most ancient part of the immunization of Famagusta . It has always been the most important military base since the ages and Lusignan until 1924 .(1-2-3)

### Assessing Architectural of Space

Castle built by the Venetians , which consists of four bastions and curtain wall surrounding the inner core of the Middle Ages , which was organized in different levels . Basement floors are carved directly into the rock , along with a trench ,and up to about 10 meters below the ground level of the stronghold .

Rooms on the east side of the castle on the ground floor , there are also relics of the castle are spread on the ground inside the rooms and outside , as well as walls , floors and roofs including devastating and destruction , and corridors and halls of trades that are stored decayed so bad.

leak in the water , scattering debris from the decorative elements fully permeate large areas inside the staircase which leads to the construction of the second storey on the east side of the courtyard and the arcade in the courtyard of the North in the loss of a wall of stone and very wide , and this was in the front part of the castle , and

although he was not the restoration and maintenance work . Destroyed the west side of the yard . And the spread of the architecture pieces , and sculptures and the coach on the ribs .(1-2-3)

**Historical analysis of the Othello tower Castle**

**Building name:** Othello Castle **Addresses**The north east of the Latin Quarter 2

**Current function :** No function **Construction period :** Built in about:1496 .12th century

**Architectural style :** Lusignan , Venetian **Building material :** Hewn sand stone

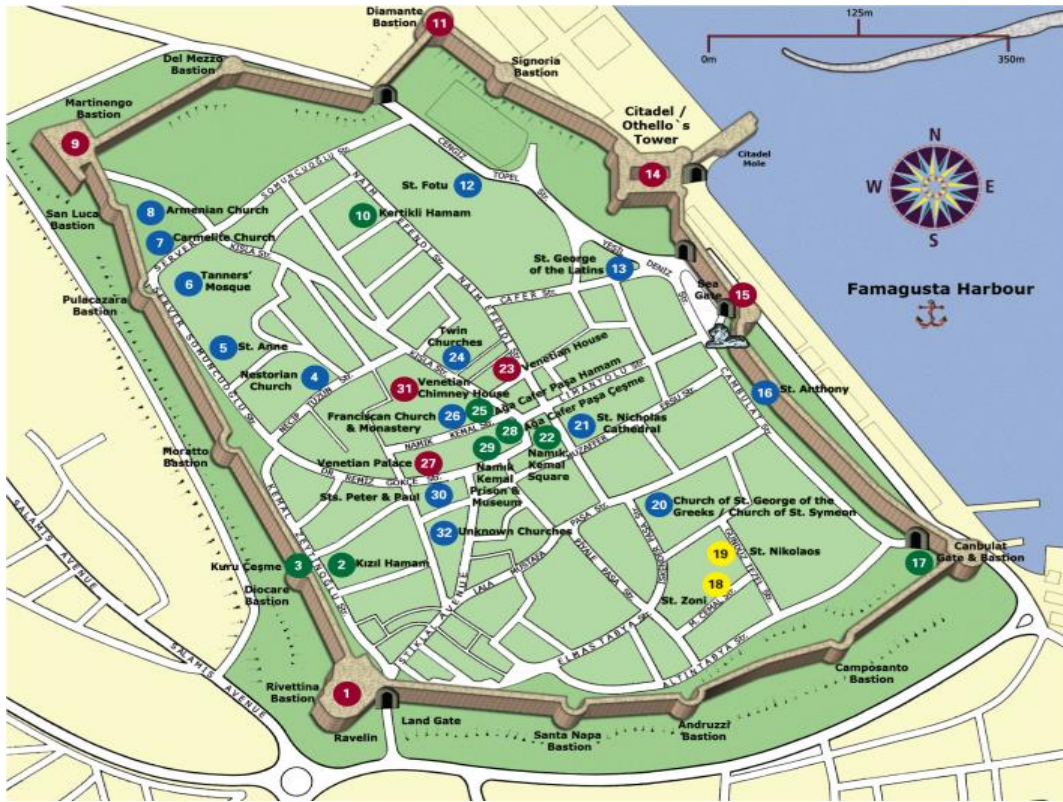


Fig.5: Historical analysis of the Othello tower Castle



## Architecture space of the Othello Castle

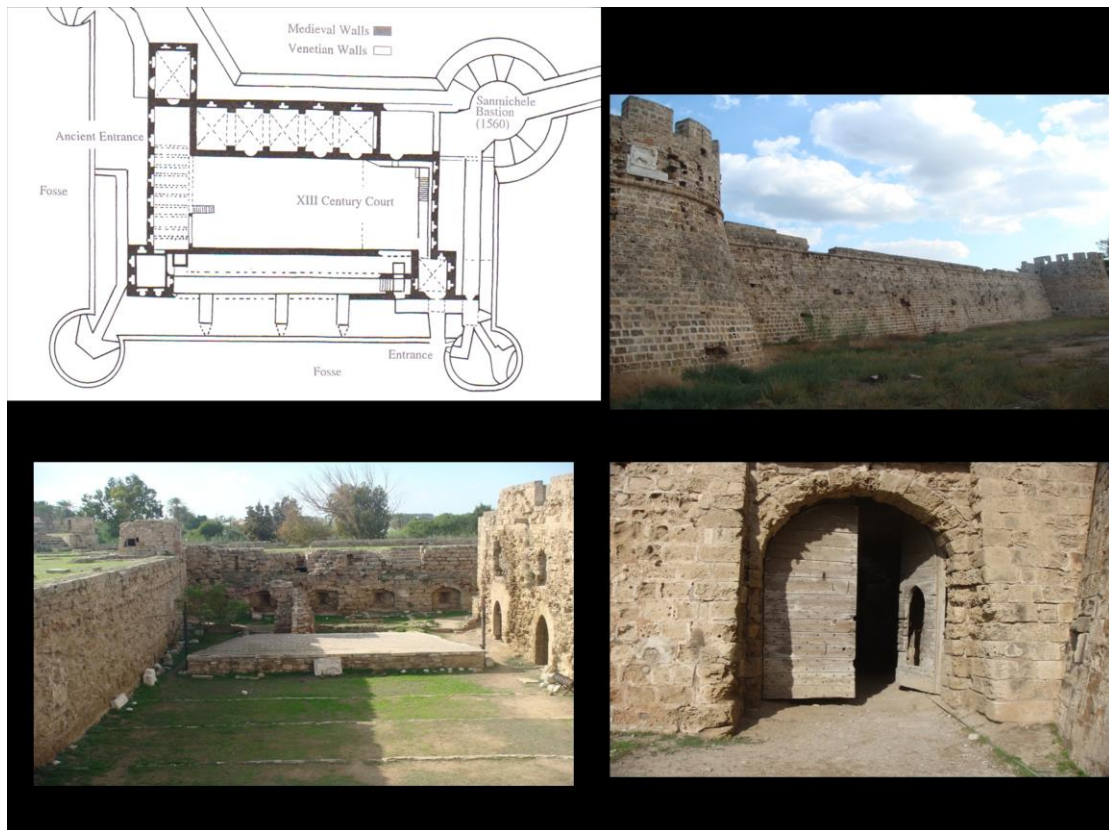


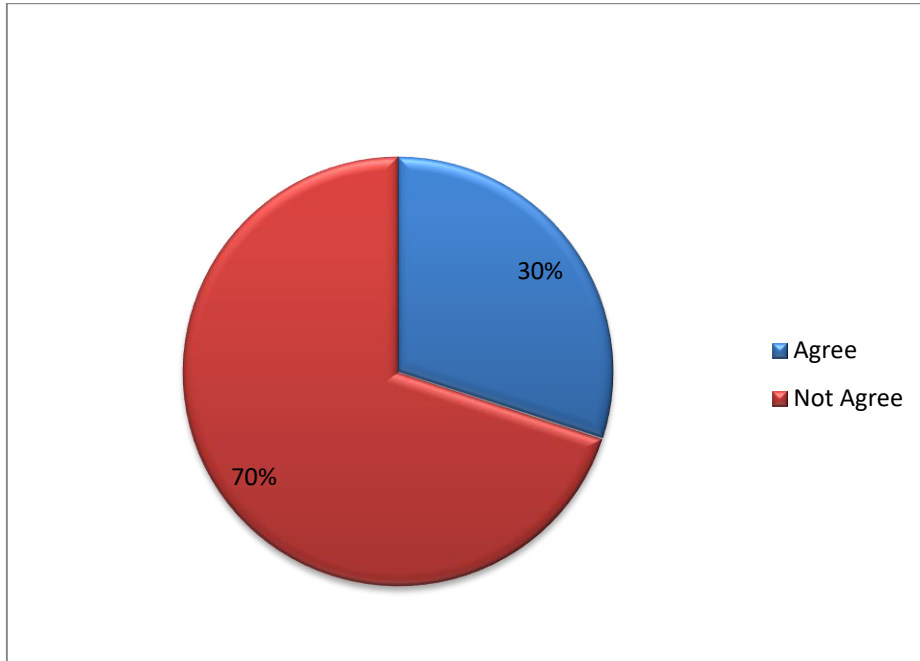
Fig.6: Architecture space of the Othello Castle

### Public Response Survey

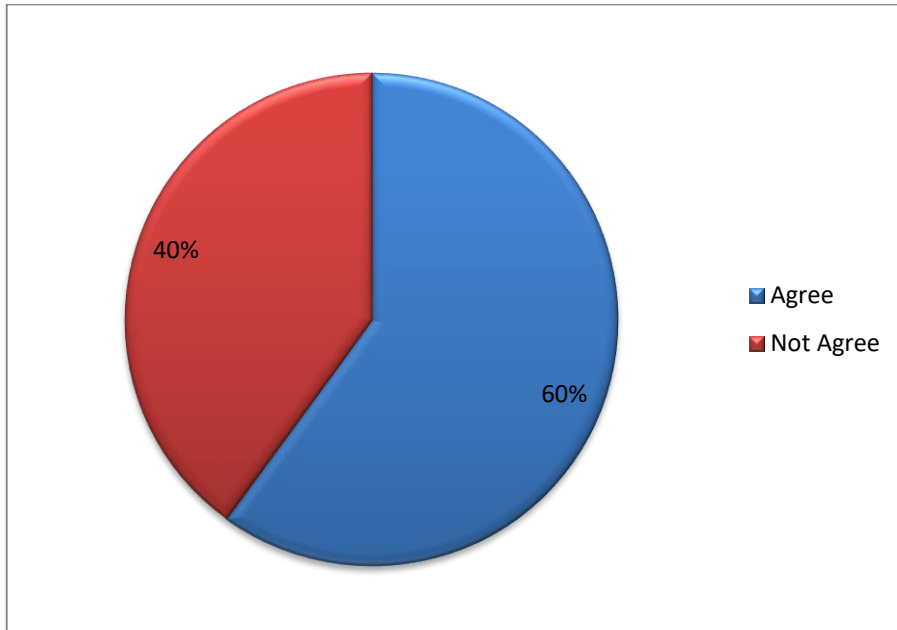
And will include such evaluation public response ,which is done to the castle to propose new functions in the recommendations . The survey was conducted with both tourists and residents . This study is an attempt to determine the course of re-assessment of the chances of the castle historic walled city of Famagusta is one of the important components in this subject is the ideas of the people who live in this city , as well as people who come to visit this historic area . But to determine the restart capabilities of the castle , we have to look at the ideas of both communities . International tourists are generally the people and the vast majority of the residents of the Turkish Cypriot .

The survey system consists of the opinions of surveyors which are measured through a numerical 20 residents and 20 guest surveyors . The method used in this study is the semantic rating scale contains of two questions within the survey and some information about the answerers . The first question aims to find out information about the ideas of people about the re-functioning as a tourist shrine of the castle and the second question aims to clarify the preference of the surveyors among different functions for the castle . There were some differences between the views of the residential and tourist residents of first choice for tourists to choose the most of the residents , and tourists would prefer to be a tourist shrine Castle.

The first response of the residents

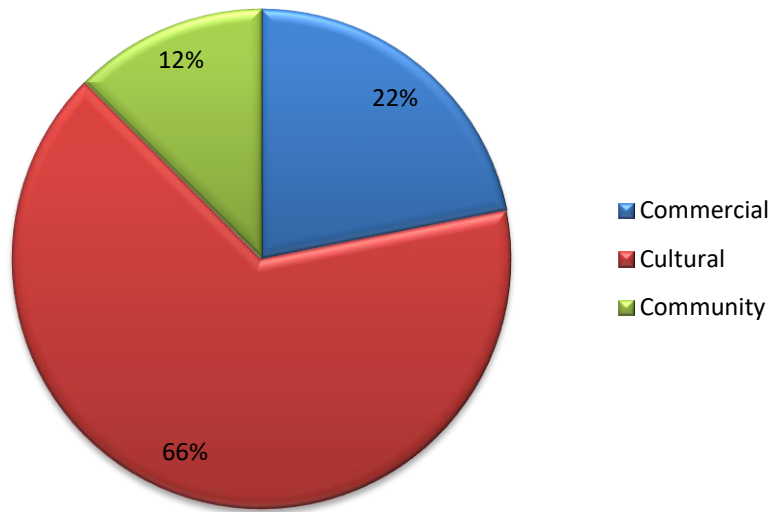


The first response for tourists

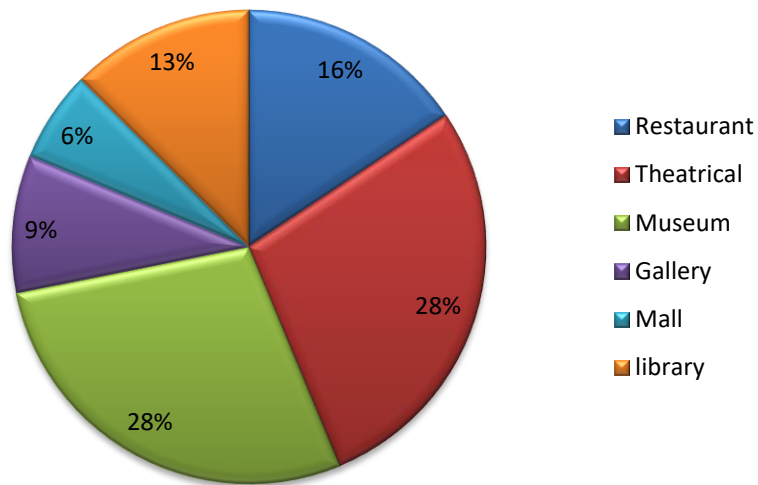


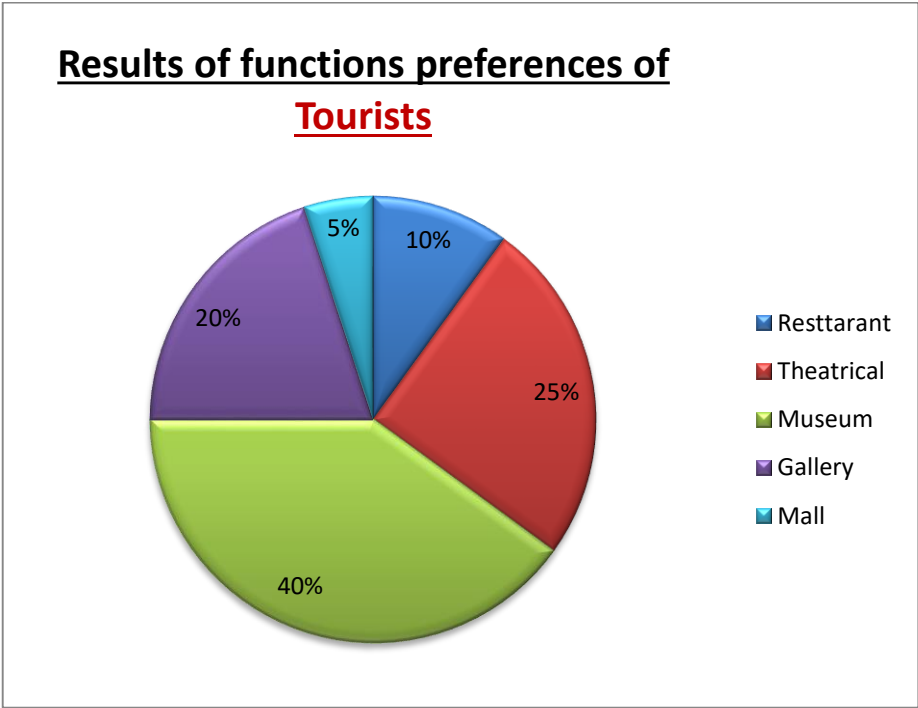
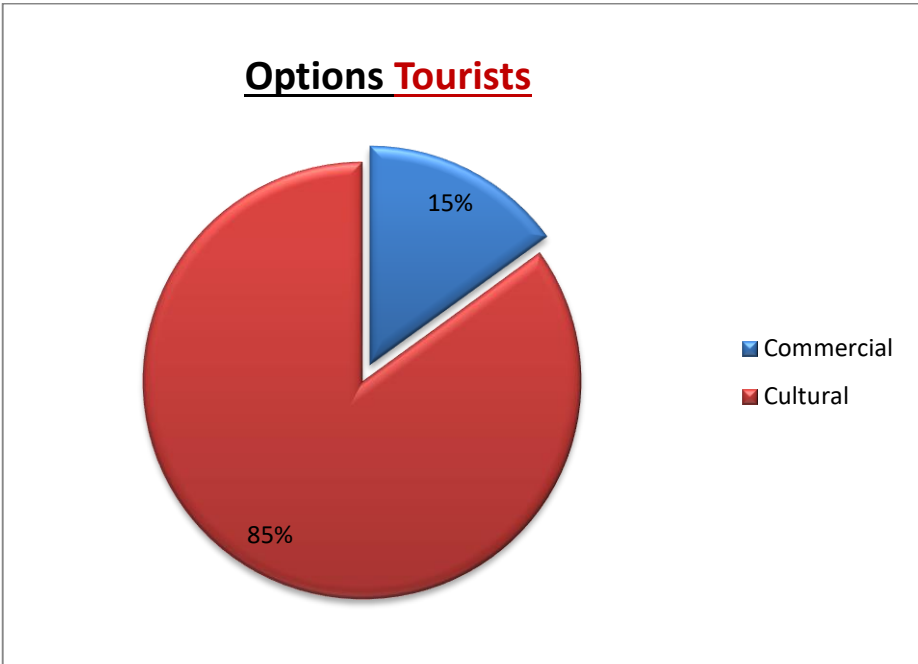


### Options Residents



### Results of functions preferences of Residents





**CONCLUSION**

This study aims to assess the possibility of re-function opportunities in Othello castle historic walled city of Famagusta . Are selected appropriate to his new functions to the castle . And these functions are determined through analysis of the potential of the historic and architectural space of the castle , which was held with each of the study residents of the city walls and tourists to determine people thoughts on the progress of castle . After historical and architectural views , and public , and suggests the most appropriate proposals for the new function of the castle .

This castle includes many of the values , and historic values historic , aesthetic and architecture . Historic building should maintain the unique cultural character of the future , and in this sense , this construction must be alive with the community . Functions that will be proposed for this historic building with the relevant characteristics of the architecture and public functions, therefore . Cultural functions that will be recommended for this of the castle is a museum or theater . The functions of commercial that would be recommended is the restaurant or mall.

In a public opinion poll analyzes show that residents and tourists and parallel to each other , the cultural

functions are appropriate for this castle because it was their second choice preference function cultural museum or theater .

Proposed new function must be in accordance with the values of maintaining the contemporary and the possibility of architecture of this castle have been destroyed and only the qualities of origin of this castle during the process of re-operation and a part from this ,and functionality that will be recommended for these building is expected to be acceptable for people who will use these historic building .

The location of this castle in the walled city, lead us to propose these functions that would be the most appropriate for this building , and also there is in the castle inner courtyard was in the lead has been the work of a play of Shakespeare , and to piece the choices residents and tourists indicate the function of theater .

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