The Role of Jordan Hijaz Railway Development in Community Support and Tourism / A Paradox through Urban Options

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Abstract
The study seeks to highlight the urban and architectural characteristics of Hejaz railway that were constructed during the Ottoman rule, especially the impacts of development of track through proposing investments along the track for a selected area. The research used the descriptive and analytical approaches, through reviewing and analyzing the urban and the activities of local people revealed an evolution of communities located along the railway and identify the pattern of urban. This research concludes as a result of a lack of supervision and awareness that the development of the railway will improve the social life by providing job opportunities and will enhance the economy sector through encouraging tourism. With various recommendations give an opportunity to get more contribution in the economic and touristic development, therefore, this will generally achieve More benefits for the country.

Index terms—jordan hejaz railway; urban design; tourist attraction; cultural awareness

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2 I. Background and Overview

Jordan has been home to some of humanity’s settlements and towns. Historically, the most significant of Alhijaz routes start at Damascus in Syria, and also it is a direct continuation of the ancient trade route connecting Arabia to the Levant [Petersen A, 2012]. At the end of the 19th century, and during several previous centuries, the main link between the Ottoman administration and the Hejaz residents were the gifts and the donations from the Sultan of the Caliph to religious figures, the sheiks of the tribes, and the population of sacred cities. ?? The construction of the railway had an impact on the areas that passed through, the societies, and the local people. These impacts represent in commercial and economic renaissance in many cities in Jordan from Mafrak Governorate in the north to the south; (2) the emergence of new urban communities across the Jordanian territory, especially around the locations of the main stations of the railway; and (3) strengthening the social links between the cities located alongside the railway, especially around the stations. Today, most of the railway stations are stand-alone, but a few of them are in the capital that are active places for the local community and touristic visits.
Most of them are well-preserved, and some have been exposed to bad attitudes on the campus of the railway from local communities.

It is, therefore, become necessary to shed light on the axis of urban and its impact on society and the architectural environment by indicating the influence of the development of the Hejaz railway on the existed development or urban communities.

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Moreover, this research describes and analysis urban characteristics: connectivity, visibility and views, and the activities that are available along the track, considering the aspects of development contribution, as shown in figure ??.

(Source: author, 2019) Fig. ??: Hejaz railway development contribution aspects UCL Depth map has the aim of further research. It performs 'isovist integration analysis; that is, to apply the same analysis to isovists that Axman and Peshhad previously utilized to axial lines and convex spaces.

All these three types of analysis are very similar: first a map is created of the spatial units, be they isovists, lines or polygons; then, a spatial network is generated from the components either by explicitly stating links or calculated from overlap or adjacency. (Markhede; Carranza, 2007).

4 II. Research Problem and Significance

Jordan Hijaz Railway is considered one of the heritage urban landmarks in Jordan. Its importance has declined as well as its active role in tourism development incorporation with the local community. The railway campus is attacked by residents due to a lack of interaction with the area and a lack of awareness of how to invest it.

There were many types of research about Jordan Hejaz railway stations without considering surroundings and its relation to the community.

The research highlights options for the development of the urban role of the railway in an attempt to improve its overall contribution. Also, the research helps to provide sufficient results, as it depends on using UCL Depth map software to optimize spatial layout efficiency.

5 III.

6 Research Issues and Objectives

The eventual objective of the research is to achieve the best development options for the Hijaz Railway in Jordan. However, to achieve that objective, several purposes have to be developed, therefore provide comprehensive final information. Then goals are around two aspects regarding Figure 1:

On the one hand, the role of railway development aims to reduce attacks from the local community on the campus of the railway and its visitors emerging from the lack of awareness of the cultural importance of this landmark and to transform the attitude of the community from its undesirable act to an active role attempting to change their behavior, in addition to the possibility of suggesting investments that provide job opportunities and activities in some selected points of the plan.

On the other hand, the development process aims to enhance the role of the railway and its link with its visitors, tourists, and local people, and their interdependence. And work to provide views in Junctions to enrich the experience through the journey. Also, it seeks the possibility of participation of the Hijaz Railway Corporation in one of the proposed development projects.

IV. Research Methodology

The research-based on descriptive and analytical approaches used to achieve the main objectives of this research. Further methods and tools were used, such as literature reviews related to the field of study, photographing, map reading, field visits, and visual observation. The study is not limited to the main stations of railway but also to an urban cluster located within the boundaries and surrounding, and it is based on selected study area extended from Em-Horan to Amman station. The research contributes to associating the gap in the relationship of the community with the railway in that there are negative attitudes, and there are no guidelines for investment.

The method used: 1. Surveying existing conditions and identifying the specifications and data for the study area by analyzing the main aspects influencing urban morphology and citizen life in Jordan. And defining obstacles and constraints resulting from misuse or misunderstanding by the local community. 2. Propose investment projects within the study area based on their role in society and the tourism aspect.

8 Analyzing the efficiency of investment projects on the role of railway development on people and the surrounding community. The analysis of visual and spatial network by using UCL Depth map software.
a) The analysis of the study area

The study area extends from Em-HeranAl qasr station to Amman station, as shown in figure ???. All aspects affecting the railway in its current state analysis are in terms of the land-use, the street network and its relationship with the railway and the landmarks that the user may overlook, as well as studying the obstacles to which the railroad is exposed, and that may need improvement.

The land use of surroundings reflects the activities available for the community and the way of interaction with a railway. The views are available for users as tourists or community through their journey or the residents’ regular use.

Figure ?? illustrates the land use of the study area selected to determine the best solutions for development. Another issue to consider is street network and hierarchy within a selected area regarding railway track to define intersections with activities available in intersections to provide positive solutions that motivate community role.

Visual aspects along the Hejaz railway track where users experienced is a key contributor to enhance their way of experience. The features distribute within the chosen area are illustrated in figure ?? to stimulate their importance according to the type of investment project proposed.

The topography and building distribution may consider valuable factors to be analyzed before any decision, which is also shown in Appendix A. The railway campus is under attack as a result of abuse by the local community. It includes a host of assaults, such as building construction, excavation, the presence of cemeteries, and the use of land for some vegetations. The research focuses on railway and street intersections as it detects the vehicle as an obstacle on the track and around it. Table ?? below illustrates some kinds of obstacles that are available along the chosen area.

b) Proposed options for development

Along the track of railway where there are some difficulties, proposed investment projects are supposed to implement for tourists and community.

The selected area was formed by how its different spaces are associated rather than the places designed in the design process or through experience.

Many solutions and proposed projects of investments that research study is based on analysis before selection and simulations using syntax analysis of UCL Depth map software to check validity and accuracy. Views, shops, exhibitions, and galleries are the kind of projects selected to use in some areas of urban place to indicate the impact on the existed development or the emergence of new urban activities that were not previously established.

Figure ?? illustrates the investment projects selected and its definite locations based on the analysis of selected zone and categorized into three categories to be invested by local people and used by both local and tourists.

The commercial shops as an investment project type are located on different points along the railway urban. Where the other two places are nominated regarding their constructive view to be a station for tourists and other locals to have a good experience through their journey. And gallery station is another function proposed for local people to showcase some of their hand-made and traditional works, which are considered a good option to provide job vacancies for locals and let them deal with the railway as a place relate to rather than they attack.
Figure 1: Fig. 1:

Figure 2: Fig. 3: Fig. 4:
Figure 3: (Fig. 5 : Fig. 6 : 2 :
Figure 4: Table 1

Figure 5:
1. Appendixes

[Daradkeh (1)] Hejaz Railway (Dialect of Challenges and Success) Historical Reading in the course of work.

Al-Bayan journal. al-Albayt University, S Daradkeh. 2011. (3rd issue. p 29. in Arabic)


(in Arabic)


(in Arabic)


[Markhede and Carranza (1)] Spatial Positioning Tool (SPOT), Henrick Markhede, Pablo Carranza. 2007. (Researchgate)


