

Structural Analysis of the Cooperation Network Among the Tourist Accommodation Actors in Santa Clara City, Cuba

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Abstract: Today's world is experiencing how the hospitality and travel industry takes off, tourism has become into the revitalizing activity of many emerging economies, and this is the reason for its constant evolution and complexity. The Accommodation Section as the operative base of the hospitality sector has started a development in a series of steps, at the same time that managing it turns even more difficult if the deepest characteristics aren't studied properly. In Cuba, specifically in Santa Clara City there are problems to carry out an efficient management of the tourist accommodations section, due to the lack of more complex studies showing important structural aspects regarding to the relationships between the accommodation actors. This circumstance leads, necessarily, to set in motion new analytical perspectives of tourist accommodation which go beyond the traditional ones. Taking into consideration the above expressed it is proposed a structural analysis of the relationship networks between the tourist accommodation actors in Santa Clara Municipality, taking as methodological foundation the procedure presented by Alvarez 2015, using quantitative and qualitative techniques, data processing will be made in The UCINET 6 Software for analyzing social networks, using also the Complete Networks Method. The results show difference in interests, low centrality measures, and low density that is why analytical fundamentals are proposed in order to improve the existent network.

Keywords: Tourism, Accommodation, Actors, Networks, Centrality Measures

1. Introduction

Network analysis is a thriving research area that has been incorporated into the study of tourism systems. In tourism, there are four remarkable actors, which have a great capacity to influence and shape the territory: the local community, the state sector, the private sector and the tourist, which are not part of the territory, formed as a destination, however, the symbolic appropriation power they exert in that space is very important [11]. The scientific literature has been insisting that the capacity of tourism development in a territory is directly related to the willingness of the actors to establish connections among themselves [3] being involved in a coordinated and joint way in the improvement of the conditions of the territory to assume the challenges derived from these processes [16]. At the same time, the cooperation encourages the private additional investment, as well

contributes to diminish the public deficits, delivers public resources for other purposes, and in general stimulates the economy as a whole [13].

Santa Clara is the capital of the Cuban province of Villa Clara. The locality is in 79,968 degrees of West Longitude and in 22.41 degrees of North Latitude. The economic-social characteristics of the locality have their bases in the industry. It also has a large production capacity installed with the existence of 3 industrial zones and 163 production facilities. It has a strong scientific and biotechnological center with five state-of-the-art facilities. It is the headquarter of large regional provincial services facilities in sectors such as Health Care, Culture and Education. Given its geographical location and the existing road and rail infrastructure, it guarantees optimal centrality and connectivity in relation to the country, province and municipality. The city of Santa Clara is a tourist complement of significant importance for the destination Cayos de Villa Clara located north of the

province due to the number of tourist attractions present in the municipality, mainly the historical-cultural and architectural providing a tourist offer of quality and consistent with the demands of today's world. The geographical location in the center of the country and the presence of the Abel Santamaria International Airport, give the municipality the possibility of easy national and international access.

The Tourist Offer of the territory includes various activities, such as accommodation, catering, leisure and recreation, transportation, and other tourism support services. In terms of tourist accommodation, there are to date 338 private homes operating in convertible currency (CUC), 98 more than on the same date in 2016; and four hotels, three of them operate under the brand named Cubanacán (Los Caneyes, Villa la Granjita and América) and one under the Islazul (Santa Clara Libre) chain. Note that particularly in this territory, as in others within the country, the private-individual offer of accommodation is higher than state offer in the number of rooms and growth trends, in this case the difference is 194 rooms. The number of rooms ascribed to this sector is 24000 according to official figures published in FITUR¹ 2018, which represents 35.2% of the existing rooms in Cuba. [14]

Note that visitors to the municipality organize their trip either individually or through travel agencies. Mainly the people, culture and heritage give the main travel reason for those who choose to visit Santa Clara. In this aspect, the worldwide influence of the figure of Ernesto 'Che' Guevara in the history of the nation is relevant.

The average stay does not show high numbers in the territory, since the tourism that develops is mostly transit, and is in the range of 1.6 and 1.8 days in hotels. Although it is remarkable average stay in private homes, which is about 2.4 days.

2. Methods

In general, the municipality presents a medium tourism potential, highlighting the tourist and anthropic indicators, especially the equipment and services available, as well as the receptivity and human qualities of the local population with the environmental and perception indicators being the most unfavorable. The implementation of the guidelines of the Economic and Social Policy of the Party and the Cuban Revolution, approved at the 6th Congress of the PCC, has allowed the increase of the housing fund with the development of new options for private-individual accommodation and diversification of the offer gastronomic. Despite local development initiatives, centralization and concentration remain to make specific decisions

In the consulted bibliography, you can find different authors who present their methodologies for the analysis of networks that present differences and similarities. One of the methodological approaches is based on the identification of

tourism stakeholders in a territory and from there to operate on the relationships established between them [16], another proposes a procedure where establishes 6 stages with their respective techniques in each of them [4] and also some authors use matrixes of analysis for the study of relationships [6]. The debate on the relevance of qualitative or quantitative approaches applied to networks is also present in tourism, as in other areas of study. Although there is an increasing number of investigations that include the analysis process in which the interested actors participate, there is still no methodological body of scientifically agreed analysis. Therefore, the procedure for the definition of integrated cooperation strategies among the actors of the tourist accommodation of a territory, provided by Alvarez, 2015[2, 3], is proposed. This proposal would facilitate as a result the necessary strategies to establish the relational structure oriented on the side of establishing the principles for the management of relations between actors of the tourist accommodation in Cuba. It consists of five (5) stages and twelve (12) tasks. Each stage includes objectives to be developed and the tasks define how to achieve the proposed objectives Stage four (4) aims to evaluate the current network of tourism cooperation between public and private actors of the tourist accommodation in the municipality of Santa Clara from the use of scientifically based procedures for the formation of cooperation networks. For the analysis of networks applied statistical tools and measurement of relational dynamics between said actors: Centrality measures and relationship dynamics of possible networks to conform.

3. Result and Discussion

Identification and characterization of the public and private-individual actors of the tourist accommodation in the territory.

The private-individual tourist accommodation sector consists of households with permission to offer existing tourist accommodation in the town (338 houses), with an average of 2.6 rooms, for 591 rooms for tourist exploitation.

The public actors of the tourist accommodation are all those hotels that are in the city, whose administration and direction is the responsibility of the state. Currently there are four hotels, operating under two hotel chains, which together has 359 rooms.

In order to capture all the information necessary to carry out this research, methods and techniques we use such as interviews, surveys, documentary review, among others. For the network analysis of the relationships, the following methods we use: Complete network methods and Snowball methods [9]. Relational data treatment program UCINET 6, which allows identify the structural characteristics of the actors' networks [1]. The statistical method indicated for the realization of the investigation was the convenience probabilistic sampling, due to that in the points established for the boarding (historical center of the city of Santa Clara), all the members of the research universe did not have the same probability of being interviewed. Select the historic

¹ FITUR 2018. International Tourism Fair, Cuba 2018

There is a low relational level; the links are very poor considering the number of actors we are working with. Making an estimate of the mean per interval, we have that:

1) $I m = \{ \bar{x} \pm K e \}$ Where \bar{x} is the mean of relations, K is the confidence percentile in this case for 95% and E is the error

$$2) E = \sigma / \sqrt{N} = 2.747.07 = 0.38$$

Substituting 2 in 1

$$I m = 3.42 \pm 1.96 \times 0.38 = 3.42 - 1.96 \times 0.38$$

$$I m = 4.16 \approx 5 = 2.68 \approx 2$$

Intervalo [2; 5]

This result shows a low level of network density since 95% of the actors will be connected on average with 2, 3, 4, or 5 actors of the network.

Another important and widely accepted indicator is the Bonacich Power Index; in this case, Bonacich proposes a modification of the traditional centrality approach. The graph of the network shows that the most powerful actors are precisely those who connect with others not connected with others. Bonacich's degree-based centrality and power approach is a natural extension of the idea of the Centrality degree. One simply takes into account the connections of your connections as well as your connections. The notion that power arises through connections with weak, as opposed to strong ones, is interesting and points to another way in which the position of the actors in the network structure gives them different potentialities.

It is considered necessary to expose some fundamentals that constitute basic premises to establish relations between public-private individual actors in a Cuban tourist municipality

- (a) Public-private approach that fosters the establishment of relationships based on the acceptance of individual private housing as a generator of wealth and added value for tourism in the current Cuba
- (b) Flexibilization of business policies carried out by the local government and involving the private housing sector through the search for relational alternatives to raise the average of these in the municipality
- (c) Periodic research issues affecting the sector by facilitating regular meetings between local government and individual private owners or their representatives, in order to exchange ideas and evaluate solutions to problems and acting proactively in the search for solutions
- (d) Approach of the main suppliers of raw materials in the municipality lessors for materialization houses a wholesale market that satisfies the demand for individual private sector and encourage the signing of contracts between public and private-individual entities that provide tourist accommodation service
- (e) Orientation of the advertising efforts of the city as a product that integrates not only public facilities but also private infrastructure that also contributes to good city tourism with the improvement of the

organizational communication of public companies, so that they also include within their to the private individual sector of the tourist accommodation

4. Conclusions

In the municipality of Santa Clara are characterized and identify private-individual public actors and organizations that interact in the activity of tourist accommodation in the town.

The evaluation from the quantitative point of view made it possible to evaluate the relations between both sectors of the tourist accommodation as scarce, disorganized and multicentric in a scenario of coexistence where the local government lacks mechanisms that regulate the relations between these sectors.

The analysis of the networks of actors of the existing housing in the municipality showed low values in the indicators of centrality, density and centralization, while the isolated position of the local government in it is evident from the lack of autonomy to manage tourism at the local level.

The analytical foundations will allow a possible modification of network into optimal network, which would mean that the local government would take center stage in the management of accommodation in the municipality of Santa Clara, bringing the structure of the network to the star graph ideal, gaining leadership, organization and more efficiency in the accommodation sector.

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