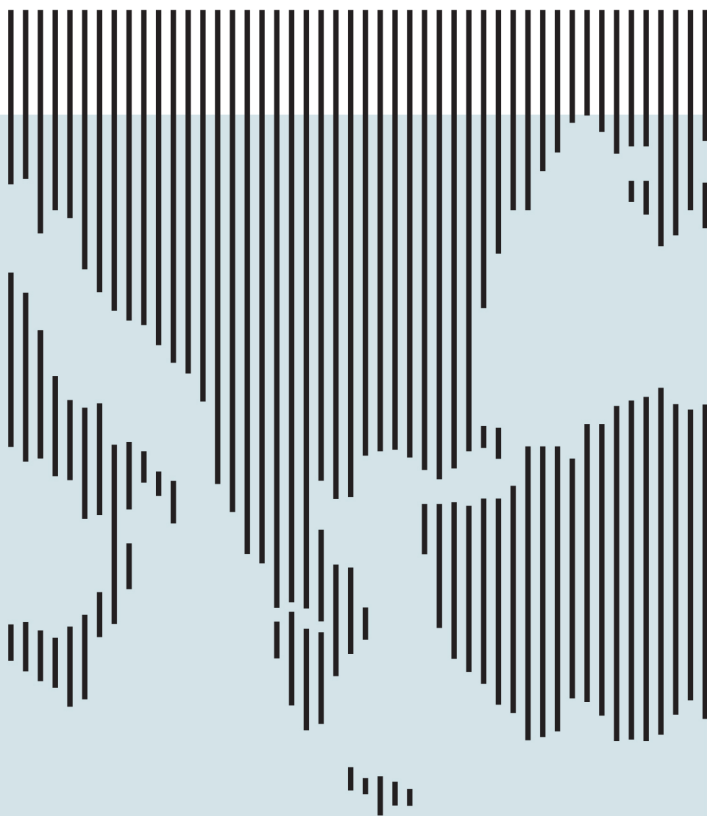


INTERNATIONAL CONFERENCE  
**DECODING BALKAN**



**CONFERENCE PROCEEDINGS**



Министарство просвете,  
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4<sup>th</sup> BAB INTERNATIONAL CONFERENCE

# **DECODING BALKAN: ARCHITECTURE, URBANISM, PLANNING**

Belgrade, 14-16<sup>th</sup> of November 2019.

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## A WORD FROM EDITOR

Decoding Balkan presents a process of recreating Balkan identity based on previous traditions and future intentions towards desirable images. It is also the main topic of International conference which will be held from 15-17<sup>th</sup> of November 2019, venue Faculty of Architecture in Belgrade, gathering academics, professionals and practitioners in the fields of Architecture, Urbanism, Technology, Design, Geo-informatics. This year the special focus is on using contemporary instruments and tools in the process of sending messages in between Balkan differences focusing on enabling understanding and common space for creating new Balkan identity.

Therefore, it explores past, present and future codes of building, designing, urban regulation, morphology, urban planning, used instruments and tools towards new paradigm of green: more transparent, efficient, ecologically friendly societies urbanism, architecture and design. Ecology is one of the main issue of global society, so the focus is on using contemporary tools in the fields to meet global standards and traditional diversity exploring / decoding the past and present traditions to code them into coherent future actions among Balkan and the region.

Special topics of the conference are:

01\_ARCHITECTURAL PRACTICES IN CODING NEW IDENTITY

02\_PARTICIPATORY ACTION IN PLANNING, DESIGN, MULTICULTURAL SOCIETY — INSTRUMENTS AND TOOLS FOR CODING AND DECODING COMMUNICATION

03\_URBAN DESIGN STRATEGIES FOR TERRITORIAL DEVELOPMENT — CODING STANDARDS, PROCESSES AND TRANSFORMATIONS

04\_GEOGRAPHIC INFORMATION SYSTEM — GIS FOR URBAN PLANNING AND URBAN DESIGN — CODING PHYSICAL SPACE INTO VIRTUAL ONE

dr Tatjana Mrdenović  
editor



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## **TROGIR, THE HISTORIC CITY OF MEMORY AND INNOVATION. SURVEY, CONSERVATION AND VALORIZATION THROUGH THE PROJECT.**

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### **Abstract**

The paper presents the joint research project developed by DIDA - Department of Architecture of the University of Florence, CNR (National Research Council) Italy and GRADST - Faculty of Civil Engineering, Architecture and Geodesy of Split on the enhancement of the Historic City of Trogir in Croatia, a UNESCO World Heritage site. The intervention includes the analysis of the urban historical fabric and the study of the Kamerlengo Castle, the Tower of S. Marco and the sports facilities, which are included among these historical monuments. The case study highlights the current issues of conservation and enhancement of urban landscape, which combines transformation processes with renovation and re-functionalization actions aimed at a sustainable development, the transfer of knowledge, the passing on living culture and the economic development. These actions involve the integration between the research and documentation phases with the adoption of territorial cultural policies.

*.Key words: Digital documentation, UNESCO world heritage sites, Historic City of Trogir.*

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## I. INTRODUCTION

The research started with a first experience developed thanks to international cooperation between the DIDA - Department of Architecture of the University of Florence, CNR (National Research Council) and GRADST - Faculty of Civil Engineering, Architecture and Geodesy of Split. The case study concerns the analysis of an area within the Historic City of Trogir, a tourist city spread over two central Dalmatian islands, about 30 km west of Split, in the northwestern part of the Baia dei Castelli and UNESCO world heritage sites. The scientific project, through the operational contribution of the critical digital survey, will be the instrument to understand, interpret and disseminate the territorial, urban and architectural heritage. The aim is to study and implement protocols and tools for the analysis of morphological, urban, architectural, technological and structural features of the settlement, in order to recovery and enhance the cultural heritage of Trogir. In particular, the survey campaigns deepen the case studies of Kamerlengo Tower, the area of the sports facility, the fortress and the tower of San Marco.

## 2. STATE OF ART

Trogir is a Romanesque-Gothic city considered one of the best-preserved cities in Central Europe. The center is located in an island built like a fortress in the middle of the sea. On one side the road that connects it to Split and the Dalmatian hinterland, on the other the sea and the island of Ciovo.

Like any World Heritage site, Trogir has to face with an ever-increasing influx of tourists, which complicates its management and preservation policies. The research project provides actions aimed at reconstruct the evolution and prospects of the urban settlement of Trogir. The Kamerlengo Castle is a fortress built by the Republic of Venice in order to defend the city from the attacks of the Ottoman Empire. It was built in the mid-15th century as an expansion of the Veriga Tower, which was built in the late 14th century. It is currently used as a venue for cultural shows during the summer months. It was originally the seat of the Kamerlengo, the administrative officer of the Republic of Venice. The city walls connected the Kamerlengo castle and the tower of San Marco, where today stands the sports facility dedicated to football



Figure 1: Trogir

### 3. TROGIR: GOALS AND STRATEGIES FOR THE FUTURE CITY

Given the historical, cultural and social value of the area of intervention, the research project, through the synergy of the various institutions involved and the multidisciplinary nature of the planned actions, aims to:

- Define the physical-morphological features of the site and the development of the historical and contemporary settlement;
- Investigate the dynamics of the old and new urban fabric that characterize Trogir;
- Define hypothesis for their classification, with particular reference to both buildings and public and open spaces;
- Develop a demographic and distribution analysis of urban functions and their change over time;
- Develop an analysis of urban impacts, with reference to other examples of UNESCO World Heritage site;
- Design a project that can access the various work programs of the European Commission.

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#### 4. KNOWLEDGE AS A METHOD OF CONSERVATION AND VALORISATION

The historic world heritage cities have great tourist appeal due to their strong representativeness and their multifaceted multiplicity of meanings. Moreover, their uniqueness and authenticity make them places of strong identity, in communion with the surrounding environment and the landscape. The beauty of these places has produced a commodification of the culture, giving rise to a social complexity within cities, marked by the ever-increasing mass tourism flows. This obvious criticality has generated new problems related to the need to connect tourism development and safeguarding architectural and environmental heritage.

The need is to limit the exclusively economic role assumed by cities, through cultural awareness and recognition of the urban heritage of a historical and aesthetic memory. The knowledge of the monuments and their conservation, as non-reproducible goods and resources, today becomes fundamental. The new forms of investigation and detailed

documentation aimed at the modeling and virtual use of architecture become a basic tool for the preservation of symbolic values and for the preservation of the identity of the place.

Digital urban reconstruction, achievable through three-dimensional survey campaigns and post processing of the point clouds from laser scanners, configures a useful instrument for the panning of future transformations and strategies. The creation of a digital database allows defining 3D models as containers of multimedia information capable of directing designers and technicians in the control and targeted intervention on architectures. The new frontiers of interaction between space and virtual space widen the limits of knowledge, making the users actors and builders of reality both visible and "invisible", defining the knowledge base for the development of the city of the future.

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## 5. CONCLUSIONS

The management of UNESCO sites is a delicate and complex subject due to the multiple social cultural dynamics. They are places where the interests of numerous actors converge, from major investors to inhabitants. In order to define a conservation, development and protection project, it is necessary to start by a process of understanding, interpretation of meanings and values, to establish the priorities and shared objectives to be developed. The inter-disciplinary research, structured according to the methodological process of knowing, evaluating and proposing, tries to reach a critical picture of the Trogir center, and in particular, of the area analyzed in detail, following Italian and European best practices to give balance and sustainability to the project. The research conducted will provide an effective support to identify and record future changes and be able to anticipate, stimulate and direct the management of the important monumental heritage of the entire city.

The analysis aims at develop management tool in which can converge many of the problems related with preservation and enhancement of cultural heritage. These tools are also useful for coherent planning and for a consideration of the performance measurement perspective. Furthermore, the research action will be not only a theoretical support, but also a practical tool for managing this complexity, through the development of a design proposal in a critical area, which contribute to define a protocol of intervention for further analysis and coherent planning. The study becomes a valid strategic tool through which coordinates this complexity of actions / subjects / interests of a City Management Plan.

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