InterSCity: Addressing Future Internet Research Challenges for Smart Cities

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Abstract—The Future Internet will integrate large-scale systems constructed from the composition of thousands of distributed services, while interacting directly with the physical world via sensors and actuators, which compose the Internet of Things. This Future Internet will enable the realization of the Smart Cities vision, in which the urban infrastructure will be used to its fullest extent to offer a better quality of life for its citizens. Key to the efficient and effective realization of Smart Cities is the scientific and technological research covering the multiple layers that make up the Internet. This paper discusses the research challenges and initiatives related to Future Internet and Smart Cities in the scope of the InterSCity project. The challenges and initiatives are organized in three fronts: (1) Networking and High-Performance Distributed Computing; (2) Software Engineering for the Future Internet; and (3) Analysis and Mathematical Modeling for the Future Internet and Smart Cities. InterSCity aims at developing an integrated open-source platform containing all the major building blocks for the development of robust, integrated, sophisticated applications for the smart cities of the future.

Index Terms—Smart Cities, Internet of Things, Future Internet, Big Data, Machine Learning, Mathematical Modeling.

I. INTRODUCTION

The term "Smart City" has gained traction in recent years; it has been used by researchers from multiple fields to refer to the use of modern approaches to use city resources in a more intelligent way. Some extrapolate the software context, focusing on social or business aspects. Regarding software systems, many authors define a Smart City as the integration of social, physical, and IT infrastructure to improve the quality of city services [1], [2]. Other authors focus on a set of Information and Communication Technology (ICT) tools used to create an integrated environment [2], [3], [4].

When evaluating the various definitions related to IT, integration is a frequently cited aspect and we consider the technologies associated with the Future Internet an essential aspect to guarantee such a integration. We are aligned with the vision that the city infrastructure must provide an integrated environment, facilitating the development, deployment, and operation of interoperable smart city applications from multiple domains. Based on that, in our view [5]:

"a Smart City is a city in which its social, business, and technological aspects are supported by Information and Communication Technologies to improve the experience of the citizen within the city. To achieve that, the city must provide public and private services that operate in an integrated, affordable, and sustainable way."

Despite the existence of multiple smart city initiatives in different countries around the world [1], [6], [7], [8], [9], those deployments are often based on custom systems that are neither interoperable, nor portable across cities, extensible, or cost-effective [10]. To resolve these limitations, the research community must address key challenges in the areas of Networking and High-Performance Distributed Computing, Software Engineering, Machine Learning, Data Analysis, and Mathematical Modeling, among others. These challenges involve highly-specialized knowledge, requiring a deep understanding of different areas, but they also require close cooperation among specialists from multiple fields working in a collaborative way.

InterSCity[1] is a multidisciplinary project aiming at addressing the key research challenges around smart cities from a software infrastructure point of view. Its goal is to develop an integrated open-source platform containing all major building blocks for the development of robust, integrated, sophisticated applications for the smart cities of the future. This paper aims at motivating researchers and graduate students to engage in innovative research on Smart Cities, helping to advance the state-of-the-art.

The paper is organized as follows. Section II discusses in more detail the objectives of the InterSCity project. Section III presents the research challenges that will need to be addressed to meet those objectives. Section IV presents our reference architecture for Smart City platforms, and Section V concludes the paper and considers the results that are expected from the InterSCity project.

II. REQUIREMENTS AND OBJECTIVES

To better define InterSCity's objectives, we conducted an extensive literature review on Smart City Platforms [5]. After analyzing 47 projects, we derived the requirements for Smart City Software Platforms, which are divided into functional and non-functional. The most relevant functional requirements are

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