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2023 Edition

Deployment



An IEEE Future Networks Technology Roadmap
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2 Introduction

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Table of Contents

1.	Introduction	1
1.1.	2023 Edition Update	1
2.	Working Group Vision.....	2
2.1.	Scope of Working Group Effort	3
2.1.1.1.	Cellular Network Regulatory Scenarios, by Country	4
2.2.	Linkages and Stakeholders	13
3.	Today's Landscape.....	17
3.1.	Current State of Technology and Research	17
3.2.	Drivers and Technology Targets.....	19
4.	Future State (2030).....	20
4.1.	Vision of Future Technology	20
5.	Needs, Challenges, Enablers, Potential Solutions	22
5.1.	Summary.....	22
5.2.	Education of Local Governments and Agencies.....	22
5.2.1.	Challenges.....	22
5.3.	Education of the Public.....	22
5.3.1.	Challenges.....	22
5.4.	Education of the Wireless Industry.....	23
5.4.1.	Challenges.....	23
5.5.	Education of the Semiconductor Industry.....	23
5.5.1.	Challenges.....	23
6.	Conclusions and Recommendations	24
6.1.	Summary of Conclusions.....	24
7.	Acronyms / Abbreviations	25

Tables

Table 1. Overall Needs	22
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Figures

Figure 1. Components of a Macro Cellular Site (Photo/Edits by David Witkowski)	15
Figure 2. Components of a Small Cellular Site (Photo/Edits by David Witkowski)	15

ABSTRACT

Wireless technologies have become a fundamental part of our daily life in the 21st century. They connect us to each other and to rich sources of information. They give us the ability to make efficient use of our time, allow us to have remote control over other technologies in our life, and make our lives better in innumerable ways. To function, our wireless devices need to connect to cellular sites that provide good coverage both outdoors and indoors. Thus, the success of any wireless network is predicated on successful deployment of equipment and systems. As the number of users grows and the amount of data transferred increases, the laws of physics and information theory require placement of wireless sites closer to populated areas – creating new challenges for carriers, site developers, and local governments. Wireless communications facilities cannot be deployed in a vacuum; communication across the product development chain and between private and public entities is critical to enabling practical solutions.

This chapter reviews public and private stakeholder perspectives to examine ways to ensure that all stakeholder perspectives are communicated and understood.

Key words:

Deployment, wireless communications facility, site, acquisition, carrier, municipal, local government, product management, marketing requirements, engineering requirements, regulatory, legislative, consensus, 4G, 5G, 6G, LTE, NR, permitting, leasing

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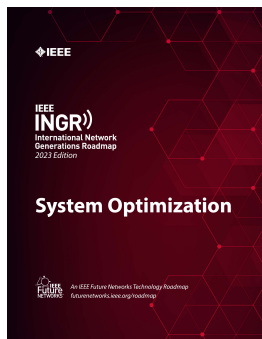
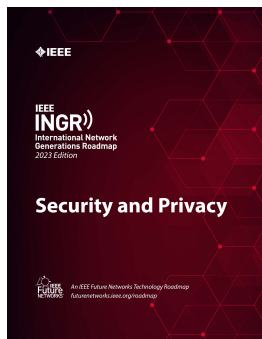
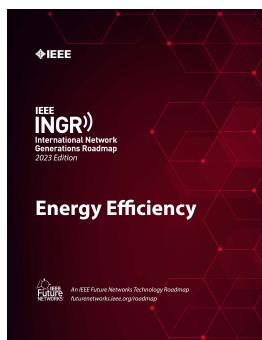
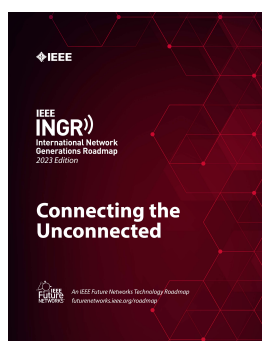
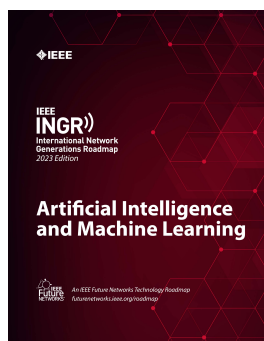
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