

NEW UPDATED PORTUGUESE EDITION OF THE BOOK



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The new updated edition of the book *Jogo Geopolítico e Tecnologias de Comunicações 5G: Estados Unidos e China. Análise do Impacto no Brasil e os desafios, riscos e Oportunidades* (Geopolitical Play and 5G Communications Technologies: the United States and China. Analysis of the Impact in Brazil and the Challenges, Risks, and Opportunities), contains the latest developments on this topic on the global stage. 5G technology will be the new standard in the global telecommunications industry. 5G will shape the future of digital connectivity infrastructures and, thus, it will define the digital economy. Furthermore, 5G will enable machine-to-machine communications (IoT) networks. And there will be 6G technology supplementary to 5G. The technology is the result of intensive investments in product and service research and development. 5G is the target of the global technological leadership dispute between the United States and China. In this contest, China is ahead of the United States, with its national champion company, Huawei. The US government has adopted lawfare practices against Huawei, which has led to the company's exclusion from the US market for alleged national security reasons.

The US government has been pressuring allied countries to exclude Huawei from their telecommunications markets. Countries in the US-led intelligence alliance called Five Eyes, Canada, the UK, New Zealand, and Australia have banned Huawei equipment from their telecommunications network. Sweden has banned Huawei products due to the influence of the US government. Beyond economic issues, there are also intelligence and national defense matters behind 5G technology. Communications networks are the target of espionage and monitoring by the intelligence services of many countries. There are also issues related to competition between the software industry and the telecommunications industry. It is in this geopolitical and geoeconomic context that Brazil finds itself. Therefore, it is imperative for the country to adopt its 5G geostrategy to preserve its technological sovereignty and its telecommunication network infrastructure.

The fifth-generation (5G) technology communications networks will bring excellent opportunities in different sectors. There are opportunities in industry, in agribusiness with precision technologies, in medicine and health (telemedicine and precision medicine), education (tele-education), with virtual and augmented reality applications, ports, and airports, oil and gas, media, mining, banking, logistics and transport, public security, defense industry, among other segments. The future of Brazil's development and its international competitiveness depend on 5G technologies.

Brazil has sovereign geopolitical risks and challenges to face. Companies must prepare for this 5G scenario, as must Brazilian institutions.

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