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Technical, Legal, and Organizational Aspects of Implementing Investments under Elevated Transportation Routes in European Cities: A Case Study of Switzerland

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Abstract

This study investigates the technical, legal, and organizational considerations involved in implementing investments under elevated transportation routes in European cities, with a particular focus on a case study of Switzerland. Over a three-week research period, ten unique projects situated beneath elevated transportation routes were analyzed, incorporating field research, documentation studies, surveys, and legal consultations. The findings shed light on the effectiveness of various solutions in executing such projects, offering valuable insights for architectural and urban design disciplines. The research underscores the importance of addressing contemporary challenges associated with modernizing and expanding transportation infrastructure in urban areas. By emphasizing the design of centrally located elevated transportation routes, especially railways, the study advocates for the creation of more sustainable and integrated urban spaces. Key themes include sustainable urban development, transportation infrastructure, urban planning, legal frameworks, and spatial resources. The choice of Switzerland as a case study reflects its reputation for effectively integrating transportation infrastructure with the urban environment, providing inspiration for innovative infrastructure projects worldwide.

Keywords: elevated transportation routes, integration of transport routes, public space, sustainable development urban infrastructure, underspace