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Customizing Road Networks for Transportation Planning

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For the life-cycle cost analysis supporting a long-range transportation planning, the road networks with certain attributes play an important role in the quality of the transportation demand modeling. Make-Or-Buy decision has been a judgment made by project management whether to build a new road network or buy it from the commercial vendors. The decision process considers both qualitative and quantitative factors for implementing an efficient and effective project. This research part presents the comprehensive works for rebuilding the publicly available networks (as a part of make decision) to feed them into a transportation demand modeling and discusses about the lessons learned from the project. The discussion includes the network validation process to assure the quality of the networks.