

MANAGING MEGA-CITY TRANSPORTATION PLANNING SYSTEMS: CASES OF NEW YORK AND SHANGHAI

Xueming CHEN

Virginia Commonwealth University
 xchen2@vcu.edu

Abstract

This paper conducts a comparative analysis on the megacity transportation planning systems between New York and Shanghai. This case study examines the seven lessons learned from New York's public transportation development: building political partnership; ensuring economical reasonableness; optimizing transit project development process; ensuring multimodal connection; integrating land use and transportation; achieving sustainable development; and synchronizing transit system expansion with travel demand increase. Based on this empirical study, the paper makes preliminary recommendations on how to apply these seven lessons to Shanghai.

Keywords: New York; Shanghai; Public Transportation; Subway; Lessons.

REFERENCES

- Amekudzi, A.A., Thomas-Mobley, L. and Ross, C.L. (2007). *Transportation Planning and Infrastructure Delivery in Major Cities and Megacities*. Transportation Research Record 1997, pp. 17–23.
- Boarnet, M. and Crane, R. (2001). *Travel by Design: The Influence of Urban Form on Travel*. New York, NY: Oxford University Press.
- Calthorpe, P. (1993). *The American Metropolis: Ecology, Community, and the American Dream*. Princeton, NJ: Princeton Architectural Press.
- Carbonell, A. and Yaro, R.D. (2005). American Spatial Development and the New Megalopolis. *Land Lines* 17(2), pp. 1–4.
- Castells, M. (1996). *The Rise of Network Society*. Oxford, UK: Blackwell.
- Cervero, R. (1991). Congestion Relief: the Land Use Alternative. *Journal of Planning Education and Research* 10, pp. 119-29.
- City of New York. (2007). *PlaNYC: A Greener, Greater New York*. New York, NY: City of New York.
- Freemark, Y. (2010). *Shanghai's Metro, Now World's Longest*, Continues to Grow Quickly as China Invests in Rapid Transit. Retrieved May, 29, 2010 from <http://www.thetransportpolitic.com/2010/04/15/shanghai-metro-now-worlds-longest-continues-to-grow-quickly-as-china-invests-in-rapid-transit>
- Gelinas, N. (2007). *NY's Sick Transit*. Retrieved May, 29, 2010 from <http://www.manhattan-institute.org/html/miarticle.htm?id=3947>
- Giuliano, G. (1995). *The Weakening Transportation-Land Use Connection*. Access 6, pp. 3-11.

- Giuliano, G. (2004). *Land Use Impacts of Transportation Investments: Highway and Transit*. In *The Geography of Urban Transportation*, Susan Hanson and Genevieve Giuliano (eds.). New York, NY: The Guilford Press.
- Gottmann, J. (1961). *Megalopolis: The Urbanized Northeastern Seaboard of the United States*. New York, NY: Twentieth Century Fund.
- Lang, R.E. and Dhavale, D. (2005). Beyond Megalopolis: Exploring America's New "Megapolitan" Geography. *Metropolitan Institute Census Report* 5(1), pp. 1-36.
- Levy, J.M. (2003). *Contemporary Urban Planning*. Upper Saddle River, NJ: Prentice Hall.
- New York Metropolitan Transportation Council. (2010). *2035 Regional Transportation Plan: A Shared Vision for a Shared Future*. New York, NY: New York Metropolitan Transportation Council.
- Paul, B. (2010). How 'Transit-Oriented Development' Will Put More New Yorkers in Cars. Retrieved May, 29, 2010 from <http://www.gothamgazette.com/article/transportation/20100421/16/3247>
- Pendakur, V.S. (1993). Urban Transportation in China: Trends and Issues. *Transportation Research Record* 1372, pp. 3-10.
- Regional Plan Association. (2007). *Northeast Megaregion 2050: A Common Future*. New York, NY: Regional Plan Association.
- Ross, C.L. (ed.) (2009). *Megaregions: Planning for Global Competitiveness*. Washington, D.C.: Island Press.
- Shanghai Comprehensive Urban Transportation Planning Institute. (1992). *Comprehensive Transportation Planning of Shanghai Municipality*. Shanghai, China: Shanghai Comprehensive Urban Transportation Planning Institute.
- Shanghai Municipal Government. (2002). *White Paper of Shanghai Urban Transportation*. Shanghai, China: Shanghai People's Press.
- Shen, Q. (1997). Urban Transportation in Shanghai, China: Problems and Planning Implications. *International Journal of Urban and Regional Research* 21 (4), pp. 589 - 606.
- Short, J.R. (2007). *Liquid City: Megalopolis and the Contemporary Northeast*. Washington, D.C.: Resources for the Future.
- Taylor, P.J. and Lang, R.E. (2005). *U.S. Cities in the World City Network*. Washington, D.C.: The Brookings Institution, Metropolitan Policy Program.
- Taylor, P.J., Catalano, G. and Walker, D.R.F. (2002). Measurement of the World City Network. *Urban Studies* 39(13), pp. 2367-2376.
- University of Pennsylvania. (2005). *Reinventing Megalopolis: The Northeast Megaregion*. Philadelphia, PA: University of Pennsylvania.
- Yang, J. (2009). *Spatial Planning in Asia: Planning and Developing Megacities and Megaregions*. In *Megaregions: Planning for Global Competitiveness*, ed. Catherine L. Ross. Washington, Covelon, London: Island Press.