

Architectures of Circulation

Urban infrastructures of global commodity production

The production and distribution of all sorts of goods is increasingly organized within global networks. Complex infrastructural arrangements connect dispersed logistics areas and production locations within cities and urban hinterlands worldwide, enabling the circulation of commodities and the exploitation of spatial difference from the urban to the planetary scale. These infrastructure systems have massive impacts on urbanization processes and the urban form by creating splintered landscapes of connectivity, altering or reinforcing patterns of socio-spatial inequality.

This seminar explores the spatiality and architecture of physical infrastructures enabling commodity flows, their operating modes, local and translocal urban impacts. It offers an introduction to key theoretical debates on infrastructures of connectivity and urbanization through a series of readings in architecture and urban studies, political economy, human geography and anthropology, covering different geographical contexts in the Global South and North. Students will also develop individual case studies on specific infrastructure buildings/spaces, commodity circuits and their (trans-)local interplay with urban development in small group research and mapping projects.

Through the engagement with the case studies and scholarly literature rooted in different strands of critical theory the seminar aims to build a sensitivity regarding the socio-economic relations and power structures embodied in the built infrastructures of commodity production and circulation. The seminar will be conducted with close links to the research projects “Transnational Production Spaces” (2016-2019) and “Infrastructures of Global Production” (forthcoming) at the Habitat Unit.

Participants may choose to develop

- a case study as a group project with regular interim presentations and a case study report (6 ECTS)
- individual term papers and present key readings (3 ECTS)

Seminar
SoSe 2019

Monday 2-4 pm

Room A 505

First meeting Monday April 8, 2019

Registration on a list

3/6 ECTS

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Room A065

Office hours: Tuesday 2-3pm and on
appointment

Habitat Unit

Syllabus

April 8 1. Infrastructure and Urban Commodity Flows

Common readings

Carse, A. (2017). Keyword: Infrastructure. How a humble French engineering term shaped the modern world. In P. Harvey, C. B. Jensen, & A. Morita (Eds.), *Infrastructures and Social Complexity. A companion* (pp. 27–39). London; New York: Routledge.

Lyster, C. (2016). Storage Flows: Logistics as Urban Choreography. *Harvard Design Magazine*, 43. Retrieved from <http://www.harvarddesignmagazine.org/issues/43/storage-flows-logistics-as-urban-choreography>

Spohler, H. (2015, September 18). The dead zones of hypercapitalism – in pictures. *The Guardian*. Retrieved from <https://www.theguardian.com/artanddesign/gallery/2015/sep/18/dead-zones-of-hypercapitalism-in-pictures>

Further reading suggestions

These texts will be picked up for discussion and presentations in the final seminar sessions in July, but reading some them in the course of term will be helpful for developing your arguments.

Chattopadhyay, S. (2012). *Unlearning the City: Infrastructure in a New Optical Field*. Minneapolis: University of Minnesota Press

Easterling, K. (2012). Zone: The Spatial Softwares of Extrastatecraft. *Places Journal*.

Graham, S., & Thrift, N. (2007). Out of Order: Understanding Repair and Maintenance. *Theory, Culture & Society*, 24(3), 1–25.

Larkin, B. (2013). The Politics and Poetics of Infrastructure. *Annual Review of Anthropology*, 42(1), 327–343.

Leigh Star, S. (1999). The Ethnography of Infrastructure. *American Behavioral Scientist*, 43(3), 377–391.

Silver, J. (2014). Incremental Infrastructures: Material improvisation and social collaboration across post-colonial Accra. *Urban Geography*, 35(6), 788–804.

Simone, A. (2014). Relational infrastructure in postcolonial urban worlds. In S. Graham, & C. McFarlane (Eds.), *Infrastructural lives: Urban infrastructure in context* (pp. 17–38). London: Routledge.

April 29 2. Commodity Chains

Common readings

Crawford, K., & Joler, V. (2018). The Amazon Echo as an anatomical map of human labor, data and planetary resources. Retrieved from SHARE Lab website: <https://anatomyof.ai/>

Kleibert, J. M., & Horner, R. (2018). Geographies of Global Production Networks. In R. Kloosterman, V. Mamadouh, & P. Terhorst (Eds.), *Handbook on Geographies of Globalization* (pp. 222–234). Cheltenham: Edward Elgar.

Tsing, A. (2016). What Is Emerging? Supply Chains and the Remaking of Asia. *The Professional Geographer*, 68(2), 330–337.

Further reading suggestions

Bair, J., & Werner, M. (2011). The Place of Disarticulations: Global Commodity Production in La Laguna, Mexico. *Environment and Planning A*, 43(5), 998–1015.

Hesse, M. (2010). Cities, material flows and the geography of spatial interaction: urban places in the system of chains. *Global Networks*, 10(1), 75–91.

Kleibert, J. M. (2015). Islands of globalisation: Offshore Services and the Changing Spatial Divisions of Labour. *Environment and Planning A*, 47(4), 884–902.

Werner, M. (2018). Geographies of Production I: Global Production and Uneven Development. *Progress in Human Geography*, 1–11.

May 6 3. Uneven Development: Infrastructures and Urbanization

Common readings

Brenner, N. (2016). The Hinterland Urbanised? *Architectural Design*, 86(4), 118–127.

Graham, S. (2001). FlowCity: Networked Mobilities and the Contemporary Metropolis. *DisP - The Planning Review*, 37(144), 4–11.

Harvey, D. (2001). Globalization and the “Spatial Fix”. *Geographische Revue*, (2), 23–30.

Further reading suggestions

Brenner, N., & Schmid, C. (2015). Towards a New Epistemology of the Urban? *City*, 19(2–3), 151–182.

Christophers, B. (2009). Uneven Development. In R. Kitchin & N. Thrift (Eds.), *International Encyclopedia of Human Geography* (pp. 12–17). Chichester: John Wiley & Sons Ltd.

May 13 4. (Post)Colonial Infrastructures

Common readings

Scotto, G. (2018). Colonial and Postcolonial Logistics. *Footprint*, 69–86.

Further reading suggestions

Davis, C. B., Wilburn, K. E., & Robinson, R. E. (Eds.). (1991). *Railway Imperialism*. New York: Praeger.

Diogo, M. P., & van Laak, D. (2016). *Europeans Globalizing - Mapping, Exploiting, Exchanging*. London: Palgrave.

G, E. (2018). The New Silk Road and Logistical Geopolitics. *Society & Space*. Retrieved from <http://society-and-space.org/2018/03/27/the-new-silk-road-and-logistical-geopolitics/>

Headrick, D. (1981). *The Tools of Empire. Technology and European Imperialism in the Nineteenth Century*. Oxford: Oxford University Press.

Monson, J. (2009). *Africa's Freedom Railway: How a Chinese Development Project Changed Lives and Livelihoods in Tanzania*. Indianapolis: Indiana University Press.

Velikov, K., & Thün, G. (2017). The Production of Territory. In I. Ruby & A. Ruby (Eds.), *Infrastructure Space* (pp. 34–36). Berlin: Ruby Press.

May 20 5. Logistics Revolution: Moving Materials and Infrastructures

Common readings

Chua, C. (2016). The Container: Stacking, Packing, and Moving the World. *The Funambulist Magazine* (6), S. 40-45.

Martin, C. (2017). Why Ship Air? Packaging design, mobilities and the materiality of void fillers. In J. Spinney, S. Reimer, & P. Pinch (Eds.), *Mobilising Design* (pp. 89–102). New York: Taylor & Francis.

Further reading suggestions

Chua, C., Danyluk, M., Cowen, D., & Khalili, L. (2018). Introduction: Turbulent Circulation: Building a Critical Engagement with Logistics. *Environment and Planning D*, 36(4), 617–629.

Cowen, D. (2014). The Revolution in Logistics. America's Last Dark Continent. In *The Deadly Life of Logistics* (pp. 23–52). Minneapolis: University of Minnesota Press. 23-52.

Cronon, W. (2010). Nature's Metropolis. Chicago and the Great West. In G. Bridge & S. Watson (Eds.), *The Blackwell City Reader* (pp. 17–31). Chichester: John Wiley & Sons Ltd.

Heins, M. (2015). Globalizing the Nation-State: The Shipping Container and American Infrastructure. *Mobilities*, 10(3), 345–362.

May 27 6. Landscapes and Logistics

Common reading

Waldheim, C., & Berger, A. (2008). Logistics Landscape. *Landscape Journal*, 27(2), 219–246.

Further reading suggestions

Couling, N. (2017). The Urbanization of the Ocean: Extractive Geometries in the Barents Sea. In I. Ruby & A. Ruby (Eds.), *Infrastructure Space* (pp. 238–248). Berlin: Ruby Press.

Hein, C. (2018). Oil Spaces: The Global Petroleumscape in the Rotterdam/The Hague Area. *Journal of Urban History*, 44(5), 887–929.

Topalovic, M., Knüsel, M., & Jäggi, M. (2013). *Architecture of Territory - Hinterland: Singapore, Johor, Riau*. Retrieved from <http://topalovic.arch.ethz.ch/materials/hinterland/>

Ziadah, R. (2018). Constructing a Logistics Space: Perspectives from the Gulf Cooperation Council. *Environment and Planning D*, 36(4), 666–682.

June 3 7. Cities: Circulation and Chokepoints

Common readings

Carse, E. A., Cons, J., & Middleton, T. (Eds.). (2018). *limn Number Ten Chokepoints*. Retrieved from <https://limn.it/issues/chokepoints/> Read one article of your choice from this issue of limn

Cowen, D. (2014). Logistics Cities: The 'Urban Heart' of Empire. In *The deadly life of logistics : mapping the violence of global trade*. Minneapolis, Minnesota: University of Minnesota Press.163–195. Focus on pages 180-195

Further reading suggestions

Gregson, N., Crang, M., & Antonopoulos, C. N. (2017). Holding together logistical worlds: Friction, seams and circulation in the emerging 'global warehouse'. *Environment and Planning D*, 35(3), 381–398.

Rodgers, D. (2012). Haussmannization in the tropics: Abject urbanism and infrastructural violence in Nicaragua. *Ethnography*, 13(4), 413–438.

Swyngedouw, E. (2006). Circulations and metabolisms: (Hybrid) Natures and (Cyborg) cities. *Science as Culture*, 15(2), 105–121.

Vormann, B. (2015). Infrastructures of the Global: Adding a Third Dimension to Urban Sustainability Discourses. *European Journal of American Studies*, 10(3).

June 17 8. Architecture and Logistics

Common reading

LeCavalier, J. (2016). Buildings. A moving system in motion. In *The Rule of Logistics: Walmart and the Architecture of Fulfillment*. Minneapolis: University of Minnesota Press. 63–105.

Further reading suggestions

Arch+ 205: Servicearchitekturen (2012) Includes several case studies and a timeline on Servicearchitekturen: Logistik. Produktion, Distribution und Konsum, p. 17.

Cidell, J. (2015). Distribution Centers as Distributed Places: Mobility, infrastructure and truck traffic. In T. Birtchnell, S. Savitzky, & J. Urry (Eds.), *Cargomobilities: Moving materials in a global age* (pp. 17–33). London et al.: Routledge.

Lyster, C. (2016). Architecture: Smart Landscape Dumb Building Ground Rules. In *Learning from Logistics: How Networks Change our Cities* (pp. 149–175). Basel, Berlin: Birkhäuser.

Twilley, N. (2012). The Coldscape. *Cabinet*, 47. Retrieved from <http://cabinetmagazine.org/issues/47/twilley.php>

Wall, A. (2005). *Victor Gruen: from urban shop to new city*. Barcelona: Actar.

June 26 9. Planning and Governing (Global) Infrastructures

Common reading

Kanai, J. M., & Schindler, S. (2019). Peri-urban promises of connectivity: Linking project-led polycentrism to the infrastructure scramble. *Environment and Planning A*, 51(2), 302–322.

Further reading suggestions

Harris, A. (2013). Concrete geographies: Assembling global Mumbai through transport infrastructure. *City*, 17(3), 343–360.

Lin, W. (2018). Transport provision and the practice of mobilities production. *Progress in Human Geography*, 42(1), 92–111.

Torrance, M. (2009). Reconceptualizing urban governance through a new paradigm for urban infrastructure networks. *Journal of Economic Geography*, 9(6), 805–822.

Wiig, A., & Silver, J. (2019). Turbulent presents, precarious futures: urbanization and the deployment of global infrastructure. *Regional Studies*, 1–12.

July 1 & July 8 10. & 11. Positions on Infrastructures

Selected readings from:

Chattopadhyay, S. (2012). *Unlearning the City: Infrastructure in a New Optical Field*. Minneapolis: University of Minnesota Press

Easterling, K. (2012). Zone: The Spatial Softwares of Extrastatecraft. *Places Journal*.

Graham, S., & Thrift, N. (2007). Out of Order: Understanding Repair and Maintenance. *Theory, Culture & Society*, 24(3), 1–25.

Larkin, B. (2013). The Politics and Poetics of Infrastructure. *Annual Review of Anthropology*, 42(1), 327–343.

Leigh Star, S. (1999). The Ethnography of Infrastructure. *American Behavioral Scientist*, 43(3), 377–391.

Silver, J. (2014). Incremental Infrastructures: Material improvisation and social collaboration across post-colonial Accra. *Urban Geography*, 35(6), 788–804.

Simone, A. (2014). Relational infrastructure in postcolonial urban worlds. In S. Graham, & C. McFarlane (Eds.), *Infrastructural lives: Urban infrastructure in context* (pp. 17-38). London: Routledge.

Guidelines for Case Studies (6 ECTS)

Case studies are being developed as group projects (3-5 participants per group). It might be helpful if groups include participants with different backgrounds and competencies in research, drawing and writing.

The final output of case studies consists of five A3 posters and a case study report (2500 words plus references for text, maps and drawings). We aim to produce a booklet with final reports for download/print.

In developing case studies, seminar participants are invited to address a double research question:

How do specific buildings/built forms function as physical infrastructures enabling the production and circulation of specific commodities? In which ways do these architectures and commodity circuits interact with urbanization processes?

The starting point for designing your research project is a commodity type.

Five scales of investigation are to be considered as a basic structure around which to build your case study:

Product
Production Network
Infrastructure Network
Architecture
Urban

At least on one scale of investigation, the project should identify what links the case study to Berlin.

Developing a precise focus on concrete research objects for each scale is a crucial part of the research design.

Each scale requires different approaches of mapping or architectural drawing to visualize research findings and arguments.

These visualizations are to be developed on a sequence of five A3 posters during the term, for regular interim presentations on different stages or scales of research.

A template (IDML) for the five A3 posters is provided on the seminar cloud as a working document for the case studies. (Also for the final poster presentation and case study reports, some layout guidelines will be provided.)

Phase 1	Developing your research design
April 15	First flashlight: Working title and visual exploration. For each scale investigation, select 1-3 images. (3-5 min presentation of all group projects with 5 posters)
April 29	Define your case study. For each scale of investigation, select concrete research objects. Identify relevant sources of information and research literature. (3-5 min presentation of all group projects with 5 posters)
May 6	Cartography Input by Anke Hagemann
By May 10	Submit abstracts (300 words), structure outline and 5 key references for case study reports.
May 13	Develop your research hypothesis. Present sketches (hand or digital) for each scale of investigation. (3-5 min presentations of all group projects with 5 posters)
Phase 2	Case study analysis step by step Short presentations by all group focusing on one scale of investigation (with 5 posters)
May 20	Products
May 27	Production Networks
June 3	Infrastructure Networks
June 17	Architecture
June 24	Urban Context, Urbanization Process
July 1	Reserve
July 8	Final Poster Presentations (with guests) Submission of Case Study Reports

Guidelines for Term Papers (3 ECTS)

Seminar participants may choose to write an individual term paper (2500-4000 words excluding references) and to present a key text in the seminar (5-10 minutes), in order to get 3 ECTS (in addition to regular active participation in weekly discussion sessions).

Starting point for the term paper should be a commodity type.

As an orientation for developing the term paper, you could address a similar double research question as group case studies:

How do specific buildings/built forms function as physical infrastructures enabling the production and circulation of specific commodities? In which ways do these architectures and commodity circuits interact with urbanization processes?

Individually chosen topics for research or theoretical reflection are also welcome, but need to be discussed in advance with the seminar coordinators.

In the paper you are expected to relate reading from the course to the topic you have chosen. We encourage you to include photographs or other graphical elements into the paper that support your arguments.

In all cases, clearly identify the sources for the information and arguments you present (Author Year: Page). A list of all references you have used or quoted must be added at the end of the paper (not included in the word count).

A layout template for the term paper will be provided. We aim to produce a booklet with final reports for download/print.

By May 10 Submit abstracts (300 words), structure outline and 5 key references.

Please get in touch with seminar coordinators for scheduling an individual appointment to discuss and confirm your abstract.

July 8 Submission of Term Paper

Case Study Topics

Commodity Types for Case Studies

- Fashion (clothes, shoes)
- Gasoline, Oil
- Cement
- Fresh Fruit, Flowers
- Meat, Livestock
- Christmas Decorations (or other plastic items)

Further Options for Term Papers

- Bottled Water
- Coal
- Coffee
- Consumer Electronics
- Delivered Meals
- Furniture (self-assembly)
- Grains
- Milk, Dairy Products
- Parcel Shipping
- Streaming Services
- Wood and By-Products (paper, pulp)
- ...

	Topic	Common Readings	Presentations
April 8	Introductory session		
April 15	1. Infrastructure and Urban Commodity Flows	Lyster 2016, Carse 2017, Spohler 2015	Working title and visual exploration
April 22	Public holiday, no class		
April 29	2. Commodity Chains	Kleibert/Horner 2018, Tsing 2016, Crawford/Joler 2018	Case study and sources
May 6	3. Uneven Development: Infrastructures and Urbanization Input by Anke Hagemann: Cartographic representation of space and methods of visualization	Brenner 2016, Harvey 2001, Graham 2001	
May 10	Submission of abstracts for study reports and term papers		
May 13	4. (Post)Colonial Infrastructures	Scotto 2018	Research hypothesis and sketches
May 20	5. Logistics Revolution	Chua 2016, Martin 2016	Products
May 27	6. Landscapes and Logistics	Waldheim/ Berger 2008	Production networks
June 3	7. Cities: Circulation and Chokepoints Guest: Michael Zinganel Evening lecture by Michael Zinganel. Stop and Go. Nodes of transition and transformation	Cowen 2014, Carse et al 2018 (one article of your choice)	Infrastructure networks
June 4	Field trip to logistics park and factory outlet center in Wustermark and railyard in Elstal, 9:00-15:00, with bikes		
June 10	Public holiday, no class		
June 17	8. Architectures and Logistics	LeCavalier 2016	Architectures
June 24	9. Planning and Governing (Global) Infrastructures	Kanai/Schindler 2018	Urban contexts and urbanization processes
July 1	10. Positions on Infrastructures I	Selected readings from Simone 2015, Star 1999, Larkin 2013, Silver 2014, Easterling 2012, Chattopadhyay 2012, Graham/ Thrift 2007	Reserve
July 8	11. Positions on Infrastructures II Submission of case study reports and term papers		Final poster presentation

Additional Resources

Mapping examples

- Couling, N., Blanchard, A., & Gugger, H. (2012). *Barens Lessons: Teaching and Research in Architecture*. Zürich: Park Books.
- Crawford, K., & Joler, V. (2018). *The Amazon Echo as an anatomical map of human labor, data and planetary resources*. Retrieved from SHARE Lab website: <https://anatomyof.ai/>
- Derviş, P., & Öner, M. (Eds.). (2009). *Mapping Istanbul*. Istanbul: Garanti Gallery.
- Design Earth (Rania Ghosn, El Hadi Jazairy). *After Oil; Hassi Messaoud Oil Urbanism; Georama of Trash* and other projects. Retrieved from Design Earth website: <http://design-earth.org/projects/>
- Kuroda, J., & Kaijima, M. (2001). *Made in Tokyo: Guide Book*. Tokyo: Kajima Institute.
- Misselwitz, P., & Rieniets, T. (Eds.). (2006). *City of Collision. Jerusalem and the Principles of Conflict Urbanism*. Basel u.a.: Birkhäuser.
- Kollektiv Orangotango+ (2018). *This is not an atlas: a global collection of counter-cartographies*. Bielefeld: transcript.
- Oswalt, P., & Rieniets, T. (2006). *Atlas of Shrinking Cities. Atlas der schrumpfenden Städte* (Bilingual). Ostfildern: Hatje Cantz.
- Arch+ 206/207: *Politische Empirie. Globalisierung Verstädterung Wohnverhältnisse*. (2012).
- Scheppe, W. et al. (2009). *Migropolis: Venice. Atlas of a global situation*. Ostfildern: Hatje Cantz.
- Simpson, D. (2015). *Young-Old. Urban Utopias of an Aging Society*. Zürich: Lars Müller.
- Topalovic, M., Knüsel, M., & Jäggi, M. (2013). *Architecture of territory - Hinterland: Singapore, Johor, Riau*. Retrieved from <http://topalovic.arch.ethz.ch/materials/hinterland/>
- Velikov, K., & Thün, G. (2017). Territorial Infrastructures. In I. Ruby & A. Ruby (Eds.), *Infrastructure Space* (pp. 194–208). Berlin: Ruby Press.
- WBVA? (2017). *Who Builds Your Architecture? A critical field guide*. Retrieved from <http://whobuilds.org/who-builds-your-architecture-a-critical-field-guide/>

Academic writing and reading

- Edwards, Paul N. (n.d.). How to read a book. Retrieved 1 April 2019, from How to read a book website: <http://pne.people.si.umich.edu/PDF/howtoread.pdf>
- Nilsen, A. G. (2018). The "ABC" of Academic Writing in the Social Sciences. Retrieved 1 April 2019, from https://www.academia.edu/37259319/THE_ABC_OF_ACADEMIC_WRITING_IN_THE_SOCIAL_SCIENCES
- Graff, G., & Birkenstein, C. (2018). 'They say/I say': the moves that matter in academic writing (Fourth edition). New York; London: W. W. Norton & Company.

Theme issues and collected volumes on infrastructure and logistics

- ARCH+ 230: *Projekt Bauhaus 2: Architekturen der Globalisierung*. (2017).
- ARCH+ 205: *Servicearchitekturen*. (2012).
- Cabinet, issue 47, *Logistics*. (2012).
- Derive, no. 63, *Korridore der Mobilität – Knoten, Akteure, Netzwerke*. (2016).
- Footprint, 12(2), *The Architecture of Logistics*. (2018).
- Harvard Design Magazine, no. 43: *Shelf Life*. (2016).
- limn Number Ten *Chokepoints*. (2018). <https://limn.it/issues/chokepoints/>
- Alimahomed-Wilson, J., & Ness, I. (Eds.). (2018). *Choke Points: Logistics Workers Disrupting the Global Supply Chain*. London: Pluto Press.
- Anand, N., Gupta, A., & Appel, H. (Eds.). (2018). *The promise of infrastructure*. Durham: Duke University Press.
- Birtchnell, T., Savitzky, S., & Urry, J. (Eds.). (2015). *Cargomobilities: moving materials in a global age*. New York: Routledge.
- Bolchover, J., Lin, J., & Lange, C. (Eds.) (2016): *Designing the Rural. A Global Countryside in Flux*. Special Issue of *Architectural Design*, 86(4).
- Chua, C., Danyluk, M., Cowen, D., & Khalili, L. (Eds.) (2018). *Turbulent Circulation: Building a Critical Engagement with Logistics*. Special Issue of *Environment and Planning D*, 36(4).
- Cidell, J., & Prytherch, D. (2015). *Transport, Mobility, and the Production of Urban Space*. New York: Routledge.
- Flitner, M., Lossau, J., & Müller, A.-L. (Eds.). (2017). *Infrastrukturen der Stadt*. Wiesbaden: Springer VS, Springer Fachmedien Wiesbaden.
- Graham, S. (Ed.) (2010). *Disrupted Cities: When Infrastructure Fails* (1st ed.). New York: Routledge.
- Graham, S., & McFarlane, C. (Eds.). (2015). *Infrastructural lives: urban infrastructure in context*. New York: Routledge.
- Hall, P. V., & Hesse, M. (2012). *Cities, Regions and Flows*. New York: Routledge.
- Neilson, B., & Rossiter, E. (Eds.) (2014). *Logistical Worlds: Infrastructure, Software, Labour*, no. 1.
- Neilson, B., & Rossiter, E. (Eds.) (2017). *Logistical Worlds: Infrastructure, Software, Labour*, no. 2: Kolkata.
- Neilson, B., Rossiter, B., & Samaddar, R. (Eds.) (2018). *Logistical Asia: the labour of making a world region*. New York: Springer.
- Ruby, I., & Ruby, A. (Eds.). (2017). *Infrastructure Space*. Berlin: Ruby Press.
- Stoll, K., & Lloyd, S. (Eds.). (2010). *Infrastructure as Architecture: designing composite networks*. Berlin: Jovis.
- Tavengwa, Tau, & Newhouse, Léonie (Eds.). (2017). *The Corridor. How the East African Corridor Spanning the Indian Ocean from Somalia to South Africa is Being Radically Re-Shaped*. Retrieved from http://www.mmg.mpg.de/fileadmin/user_upload/documents/CORRIDORS.pdf

Selection of books and articles on infrastructure and logistics

- Addie, J.-P. D. (2016). Theorising suburban infrastructure: a framework for critical and comparative analysis. *Transactions of the Institute of British Geographers*, 41(3), 273–285.
- Amin, A. (2014). Lively Infrastructure. *Theory, Culture & Society*, 31(7–8), 137–161.
- Amin, A., & Thrift, N. (2016). *Seeing Like a City*. Cambridge & Malden: Polity Press.
- Angelo, H., & Hentschel, C. (2015). Interactions with infrastructure as windows into social worlds: A method for critical urban studies: Introduction. *City*, 19(2–3), 306–312.
- Arboleda, M. (2016). Spaces of Extraction, Metropolitan Explosions: Planetary Urbanization and the Commodity Boom in Latin America. *International Journal of Urban and Regional Research*, 40(1), 96–112.
- Boucsein, B., Christiaanse, K., Kasioumi, E., & Salewski, C. (2017). *Noise landscape: a spatial exploration of airports and cities*. Rotterdam: nai010 publishers.
- Carse, A., & Lewis, J. A. (2017). Toward a political ecology of infrastructure standards: Or, how to think about ships, waterways, sediment, and communities together. *Environment and Planning A*, 49(1), 9–28.
- Cronon, W. (1991). *Nature's metropolis: Chicago and the Great West* (2. ed.). New York: W.W. Norton & Company.

- Easterling, K. (2005). *Enduring Innocence: Global Architecture and Its Political Masquerades*. Cambridge, MA: MIT Press.
- Easterling, K. (2014). *Extrastatecraft: The Power of Infrastructure Space*. New York: Verso.
- Danyluk, M. (2018). Capital's logistical fix: Accumulation, globalization, and the survival of capitalism. *Environment and Planning D*, 36(4), 630–47
- Danyluk, M. (2019). Fungible Space: Competition and Volatility in the Global Logistics Network. *International Journal of Urban and Regional Research*, 43(1), 94–111.
- Gordillo, G. (2014). *Rubble: the afterlife of destruction*. Durham: Duke University Press.
- Graham, S., & Marvin, S. (2001). *Splintering urbanism: networked infrastructures, technological mobilities and the urban condition*. New York: Routledge.
- Gutelius, B. (2015). Disarticulating distribution: Labor segmentation and subcontracting in global logistics. *Geoforum*, 60, 53–61.
- Harvey, P., & Knox, H. (2015). *Roads: An Anthropology of Infrastructure and Expertise*. In *Expertise: Cultures and Technologies of Knowledge*. Ithaca, NY: Cornell University Press.
- Hesse, M. (2008). *The city as a terminal: the urban context of logistics and freight transport*. New York: Routledge.
- Humphreys Bebbington, D., Verdum, R., Gamboa, C., & Bebbington, A. J. (2018). The Infrastructure-Extractives-Resource Governance Complex in the Pan-Amazon: Roll Backs and Contestations. *European Review of Latin American and Caribbean Studies | Revista Europea de Estudios Latinoamericanos y Del Caribe*, 0(106), 183 – 208.
- Klose, A. (2015). *The Container Principle: How a Box Changes the Way We Think*. Cambridge: MIT Press
- Laak, D. van 1961-. (2018). *Alles im Fluss : die Lebensadern unserer Gesellschaft – Geschichte und Zukunft der Infrastruktur*. Frankfurt am Main: S. Fischer.
- LeCavalier, J. (2016). *The Rule of Logistics: Walmart and the Architecture of Fulfillment*. Minneapolis: University of Minnesota Press
- Levinson, M. (2016). *The Box. How the Shipping Container Made the World Smaller and the World Economy Bigger*. Princeton: Princeton University Press.
- Linder, M. (1994). *Projecting capitalism: a history of the internationalization of the construction industry*. Westport: Greenwood Press.
- Lyster, C. (2016). *Learning from Logistics: How Networks Change our Cities*. Basel, Berlin: Birkhäuser.
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Podcasts on Infrastructure and Logistics

Cargoland

Cargoland is a podcast mini-series about the technological changes that transform the waterfronts of the ports of Los Angeles and Long Beach and about the effects these changes have on the dockworkers and their livelihoods.

Containers

Containers is an 8-part radio documentary about how global trade has transformed the economy and everyday lives.

Cultures of Energy, Episode 84, Ashley Carse

Ashley Carse talks about infrastructures and his research on the Panama Canal.

The Dissonance of Things, Episode 6: Logistics – Violence, Empire and Resistance

Charmaine Chua, Laleh Khalili and Deborah Cowen discuss the increasing ubiquity and prominence of logistics as a mode for organizing social and spatial life.