HARVARD UNIVERSITY GRADUATE SCHOOL OF DESIGN

SES 5517
Urban Adaptation
2024-2025 Spring
Department of Urban Planning and Design

Meeting Times and Location

Day: M,W
Time: 9:00-10:30
Location: Gund 517

Schedule information is subject to change. Check the my.Harvard course catalog for the latest information. Please note: Thursday is represented with the letter H.

Contact Information

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Current Semester Office Hours

Course Description

In an era of accelerating climate disruption, the ways that people live in cities are changing in real time and urban governance must grapple with this emerging and transforming reality. While reducing emissions, or mitigation, remains as important as ever, adaptation, or finding ways for people and cities to live with climate impacts, is now imperative.

This course will cover major topics in urban adaptation broadly divided according to concepts, practices, and governance. Concepts will include cross-cutting issues such as equity and justice, limits to adaptation, and the adaptation/mitigation nexus. In this part, students will examine and debate the relative merits of incremental and transformational adaptation. To understand current best practices, students will delve into leading strategies for cities to adapt to major climate impacts including flooding, heat, drought, and wildfire. Governance will span scales from

community-led resilience to transnational city networks, with leading practitioners giving guest lectures to shed light on current challenges.

Ultimately, students will critique best practices and research and propose more transformative alternatives so they will be well-equipped to challenge and advance the leading edge of practice.

Learning Outcomes

After completing this course, students will be able to:

- Situate and justify their approach to undertaking adaptation
- Identify and analyze major concepts in urban adaptation and articulate how they apply in practice
- Analyze the contributions and interdependencies of various levels of urban climate governance from community to transnational
- Critically evaluate current adaptation practices for major risks: flooding, heat, drought, wildfires
- Build on existing adaptation practices to propose viable alternatives

Weekly Schedule and Topics

W	Date	Topic	Due
1	1/27	Class Intro + Imagining Adaptation Futures	Sign up for debate teams
	1/29	Imagining Adaptation Futures	
2	2/3	Incremental --> Transformational Adaptation	Sign up for Practices
	2/5	Incremental --> Transformational Adaptation	
3	2/10	Adaptation/Mitigation Nexus	
	2/12	Limits + Maladaptation	
4	*2/17*	*No Class - Presidents' Day*	
	2/19	**Debate: Incremental vs Transformational**	Debate Prep
5	2/24	Practices Presentation: Heat	Presentation Due
	2/26	Practices Presentation: Inland Flooding	
6	3/3	Practices Presentation: Wildfire	
	3/5	Practices Presentation: Drought	
7	3/10	Practices Presentation: Coastal Flooding	

	3/12	**Workshop: Cross-cutting practices**	
8	3/17	*No Class - Spring Recess*	
	3/19	*No Class - Spring Recess*	
9	3/24	Framing Governance	
	3/26	Municipal Governance	
10	3/31	*Guest Lecture - Delaney Morris*	
	4/2	Community-Led Governance	
11	4/7	*Guest Lecture - David Southgate*	
	4/9	Regional Governance	
12	4/14	Transnational Governance	
	4/16	*Guest Lecture - Laura Jay*	
13	4/21	**Final Presentations: Transformational Practices**	Final Presentation Due
	4/23	**Final Presentations: Transformational Practices**	
14	4/28	**Final Presentations: Transformational Practices**	
	5/5		Final Paper Due

Assignments

Participation (10%)

Students are expected to do the readings and actively participate in class.

Assignment 1. Debate: Incremental vs. Transformational Adaptation (Team, 15%)

One of the major debates over approaches to adaptation (and indeed any kind of change) is whether it should be incremental or transformational. While arguably there is a spectrum from incremental to transformational approaches, for the purposes of this exercise we will treat them as opposing sides. This debate will serve as the culmination of the first part of the class covering adaptation concepts. There will not be any direct assessment of whether you have done the reading in weeks 1-4, but the readings will lay the foundation for the successful formulation of debate arguments. You may also consult additional sources.

Students will be given the choice of teams, but if teams are too uneven, we will work together to rebalance them. Teams should be finalized by the end of the day Jan. 29th to allow adequate time to prepare.

Resolved: That cities should implement transformational interventions to adapt to climate change.

Pro Team: Transformational Adaptation

Con Team: Incremental Adaptation

The day of the debate, we will follow this schedule:

Final prep: 30 minutes

Debate Structure:

- Pro: Case for Transformational Adaptation, 5 mins.
- Rebuttal: 3 mins. [Con Team]
- Con: Case for Incremental Adaptation, 5 mins.
- Rebuttal: 3 mins. [Pro Team]
- Con questions Pro, 5 mins.
- Pro questions Con, 5 mins.
- *Prep for Closing, 10 mins.*
- Closing Statement, 3 mins. [Con Team]
- Closing Statement, 3 mins. [Pro Team]

Group Discussion and Reflection: remaining time

Assignment 2. Presentation: Getting to Know Adaptation Practices (Team, 25%)

In order to advance adaptation practice, it is essential to understand the current state of the field. You will have the opportunity to focus on a climate risk of your choosing and work with a team to describe, analyze, and critique current best practices. This survey will be a resource for the whole class in developing proposals for transformational adaptation.

The key risks to focus on include: coastal flooding, inland flooding, heat, drought, and wildfires

Teams will prepare **30 minute presentations** addressing the following issues:

- What is the risk? How should we understand why it matters, who and what it will impact? What are the cascading impacts?
- What are the conventional best practices for cities to adapt to this risk? (this may include a range of interventions: finance, policy, infrastructure, etc.)
    - What is the feasibility of these practices? (political, environmental, social)
    - What is the scale of response compared to the scale of the risk?

- What are the standard governance and decision-making practices involved?
    - What positions are involved (i.e. Chief Resilience Officer, Chief Heat Officer), especially at the municipal level?
    - Who are the stakeholders at the table?
- What are some examples of success and failure?
    - What are the challenges and/or opportunities for translating these practices between cities?
    - How do these adaptation practices interact with mitigation?
    - Are there maladaptations that have emerged as a result?

Assignment 3. Final Presentation: Transformational Practices (Team, 25%)

Current adaptation practice is limited in implementation and impact. This final assignment will be about pushing the boundaries of what adaptation can do. Working in teams, you will build on your knowledge of "best practices" from assignment two to propose much more far-reaching, radical, impactful adaptation practices. This experimentation will give you the tools to advocate for pushing the envelope when you enter practice. Teams can choose to focus on an individual risk or cross-cutting strategies.

Teams will prepare **15 minute presentations** covering the following:

- The limitations of current practice
- Emerging alternatives
- A bold proposal
- Barriers to implementation (legal, financial, political, cultural, etc.)
- Strategies for overcoming those barriers
- Plausible pilot projects

Assignment 4. Final Paper: Adaptation Governance (Individual, 25%)

Based on the bold proposal you developed with your team, write a short (1500 word) paper examining the governance challenges of implementing the proposal. Consider what level of government would take the lead in enabling the proposal to happen, how they would create the conditions for it to be implemented, and how they would work with other levels of government to facilitate it. The paper should cite a mix of academic and grey literature, with approximately 10

sources in APA style. You may choose to use AI in the process of conducting research and synthesizing material, but the final product should be in your own words.

Adaptation Practice Resources

C40 Knowledge Hub

Resilient Cities Network - Resilience Resource Center

Georgetown Climate Center Adaptation Clearinghouse

World Resources Institute Research

Global Center on Adaptation

ICLEI Resources

Stockholm Environment Institute (SEI) Publications

The International Institute for Sustainable Development (IISD)

America Adapts Podcast

Doughnut Economics Action Lab - Cities and Regions

City Water Resilience Approach

also see Files on Canvas - folders: General Adaptation Practice and Equity + Justice

Assessments

Grading

The GSD uses a pass/fail grading system that is different from most other schools at Harvard and elsewhere. In this class, you need 60% to pass. 60-74% is a Low Pass, 75-89% is a Pass, and 90% and above is a High Pass. The majority of students will receive a Pass, and up to 25% of students will receive a High Pass. At the midterm, if you're on track to receive a Low Pass or below, I will send you a letter and we'll meet to discuss how you can improve.

Late Assignments

The debate and two presentations will be produced in groups, so they will need to be on time. If you are unable to submit the final paper by the due date, please email me with an alternative proposed due date. Final grades are due May 14th, so all assignments will need to be submitted before then.

Attendance

I will not be regularly taking attendance and attendance does not directly affect your grade, however it will affect
your learning and participation which could affect your grade. I do not record or permit the recording or streaming of in-class sessions. You will primarily be learning from in-class discussions and exercises and this is not possible to
reproduce by watching a recording. Participating via zoom tends to be awkward and disruptive. If you have to
miss a class, you should discuss what you missed with a classmate.

Grading Rubrics

Asst. 1 Debate: Incremental vs Transformational Adaptation		
Preparation	Conversant in arguments from course readings on the topic	5
Applied analysis	Analyze, compare and extend arguments; respond to issues raised by the other team	5
Teamwork	Manage and coordinate preparation and debate responses	5

Asst. 2 Presentation: Getting to Know Adaptation Practices		
Topical knowledge	Demonstrates breadth of knowledge on the topic, provides comprehensive review	6
Critical analysis	Perceptive, relevant analysis of successes and failures	7
Coordination	Presentation is well-coordinated between presenters and makes effective use of verbal, written, and graphic content	3
Written Communication	Well-structured, logical, memorable, convincing	3
Graphic Communication	Clear, memorable, effective use of emphasis and hierarchy	3
Verbal Communication	Clear, concise, compelling	3

Asst. 3 Final Presentation: Transformational Practices		
Analysis	Communicates astute understanding of current limitations	5
Vision	Bold yet plausible proposal with strategies responsive to knowledge of current limitations	8

Coordination	Presentation is well-coordinated between presenters and makes effective use of verbal, written, and graphic content	3
Written Communication	Well-structured, logical, memorable, convincing	3
Graphic Communication	Clear, memorable, effective use of emphasis and hierarchy	3
Verbal Communication	Clear, concise, compelling	3

Asst. 4 Final Paper: Adaptation Governance		
Organization	Clearly structured, easy to follow, conveys clear arguments	6
Analysis	Articulates nuanced understanding of governance challenges and opportunities	6
Vision	Builds on cutting-edge practices to propose unconventional solutions	6
Writing Quality	Writing is clear, grammatical, direct, and compelling	4
Expertise	Draws from at least 10 robust sources (academic and practitioner), uses APA style	3

Readings

Books, articles, and reports are available through Library Reserves on Canvas. Other media are linked below.

Week 1
M 1/27 - Imagining Adaptation Futures

In Class:
Benjamin, R. (2024). Imagination: A Manifesto (A Norton Short). WW Norton & Company. [preface and excerpts - TBD]

Additional Resources:
Fraser, N., & Honneth, A. (2003). IV. Political Theoretical Issues: Institutionalizing Democratic Justice in Redistribution or recognition?: a political-philosophical exchange. verso. pp.70-87.

Ghosh, A. (2018). The great derangement: Climate change and the unthinkable. Penguin UK.

Klein, N. (2017). No is not enough: Resisting the new shock politics and winning the world we need. Haymarket Books.

Masco, J. (2017). The crisis in crisis. Current anthropology, 58(S15), S65-S76.

Moser, S. C. (2020). The work after “It's too late”(to prevent dangerous climate change). Wiley Interdisciplinary Reviews: Climate Change, 11(1), e606.

Whyte, K. (2020). Against crisis epistemology. In Routledge handbook of critical Indigenous studies (pp. 52-64). Routledge.

W 1/29 - Imagining Adaptation Futures - Equity/Justice

For Class:

Amorim-Maia, A. T., Anguelovski, I., Chu, E., & Connolly, J. (2022). Intersectional climate justice: A conceptual pathway for bridging adaptation planning, transformative action, and social equity. Urban Climate, 41, 101053.

Klinsky, S., & Mavrogianni, A. (2020). Climate justice and the built environment. Buildings and Cities, 1(1), 412-428.

Additional Resources:

Agyeman, J. (2008). Toward a ‘just’sustainability?. Continuum, 22(6), 751-756.

Agyeman, J., Schlosberg, D., Craven, L., & Matthews, C. (2016). Trends and directions in environmental justice: from inequity to everyday life, community, and just sustainabilities. Annual Review of Environment and Resources, 41(1), 321-340.

Cannon, C., Chu, E., Natekal, A., & Waaland, G. (2023). Translating and embedding equity-thinking into climate adaptation: An analysis of US cities. Regional Environmental Change, 23(1), 30.

Fang, Clara, Jessica Hench, Christa Daniels, and Abigail Abrash Walton. Centering Equity inClimate Resilience Planning and Action: A Practitioner’s Guide. Climate-Smart CommunitiesSeries, Vol. 3. Antioch University New England 2022.https://library.oarcloud.noaa.gov/noaa_documents.lib/OAR/CPO/Climate_Smart_Communities/Vol_03_CSC_CenteringEquity.pdf

Fiack, D., Cumberbatch, J., Sutherland, M., & Zerphey, N. (2021). Sustainable adaptation: Social equity and local climate adaptation planning in US cities. Cities, 115, 103235.

Fitzgerald, J. (2022). Transitioning from urban climate action to climate equity. Journal of the American Planning Association, 88(4), 508-523.

Mohnot, S., Bishop, J., & Sanchez, A. (2019). Making equity real in climate adaptation and community resilience policies and programs: A guidebook. The Greenlining Institute: Oakland,

CA, USA. http://greenlining.org/wp-content/uploads/2019/08/Making-Equity-Real-in-Climate-Adaption-and-Community-Resilience-Policies-and-Programs-A-Guidebook-1.pdf

Week 2

M 2/3 - Incremental --> Transformational Adaptation

For Class:

Klein, N. (2017). Ch.13 A Time to Leap: because small steps won't cut it. In No is not enough: Resisting the new shock politics and winning the world we need. Haymarket Books. pp.231-256.

Eriksen, S. H., Nightingale, A. J., & Eakin, H. (2015). Reframing adaptation: The political nature of climate change adaptation. Global environmental change, 35, 523-533.

Additional Resources:

Fraser, N., & Honneth, A. (2003). Redistribution or recognition?: a political-philosophical exchange. verso.

Kates, R. W., Travis, W. R., & Wilbanks, T. J. (2012). Transformational adaptation when incremental adaptations to climate change are insufficient. Proceedings of the National Academy of Sciences, 109(19), 7156-7161.

Palutikof, J. P., Barnett, J., Boulter, S. L., & Rissik, D. (2014). Adaptation as a field of research and practice: notes from the frontiers of adaptation. Applied Studies in Climate Adaptation, 6-19.

Wright, E. O. (2020). Envisioning real utopias. Verso Books.

W 2/5 - Incremental --> Transformational Adaptation

For Class:

Shi, L., & Moser, S. (2021). Transformative climate adaptation in the United States: Trends and prospects. Science, 372(6549), eabc8054.

Pelling, M., O'Brien, K., & Matyas, D. (2015). Adaptation and transformation. Climatic change, 133, 113-127.

Additional Resources:

Heikkinen, M., Ylä-Anttila, T., & Juhola, S. (2019). Incremental, reformistic or transformational:what kind of change do C40 cities advocate to deal with climate change?. Journal ofEnvironmental Policy & Planning, 21(1), 90-103.

Orlove, B. (2022). The concept of adaptation. Annual Review of Environment and Resources, 47(1), 535-581.

Pelling, M., Comelli, T., Cordova, M., Kalaycioğlu, S., Menoscal, J., Upadhyaya, R., & Garschagen, M. (2024). Normative future visioning for city resilience and development. Climate and Development, 16(4), 335-348.

Week 3

M 2/10 - Adaptation/Mitigation Nexus

For Class:

Boyd, D., Pathak, M., van Diemen, R., & Skea, J. (2022). Mitigation co-benefits of climate change adaptation: A case-study analysis of eight cities. Sustainable Cities and Society, 77, 103563.

Ürge-Vorsatz, D., Rosenzweig, C., Dawson, R. J., Sanchez Rodriguez, R., Bai, X., Barau, A. S., ... & Dhakal, S. (2018). Locking in positive climate responses in cities. Nature Climate Change, 8(3), 174-177.

Additional Resources:

Sharifi, A. (2022). Sustainability and resilience co-benefits and trade-offs of urban climate change adaptation and mitigation measures. In Handbook of climate change mitigation and adaptation (pp. 1369-1403). Cham: Springer International Publishing.

Solecki, W., Grimm, N., Marcotullio, P., Boone, C., Bruns, A., Lobo, J., ... & Aylett, A. (2019). Extreme events and climate adaptation-mitigation linkages: Understanding low-carbon transitions
in the era of global urbanization. Wiley Interdisciplinary Reviews: Climate Change, 10(6), e616.

W 2/12 - Limits and Maladaptation

For Class:

Juhola, S., Glaas, E., Linnér, B. O., & Neset, T. S. (2016). Redefining maladaptation. Environmental Science & Policy, 55, 135-140.

Schipper, E. L. F. (2020). Maladaptation: when adaptation to climate change goes very wrong. One Earth, 3(4), 409-414.

Additional Resources:

Atteridge, A., & Remling, E. (2018). Is adaptation reducing vulnerability or redistributing it?. WileyInterdisciplinary Reviews: Climate Change, 9(1), e500.

Barnett, J., & Palutikof, J. P. (2014). The limits to adaptation: a comparative analysis. Applied studies in climate adaptation, 231-240.

Juhola, S., & Malmström, A. (2025). The role of governance in limits to adaptation. Current Opinion in Environmental Sustainability, 72, 101492.

Adger, W. N., Dessai, S., Goulden, M., Hulme, M., Lorenzoni, I., Nelson, D. R., ... & Wreford, A. (2009). Are there social limits to adaptation to climate change?. Climatic change, 93, 335-354.

Reckien, D., Magnan, A. K., Singh, C., Lukas-Sithole, M., Orlove, B., Schipper, E. L. F., & Coughlan de Perez, E. (2023). Navigating the continuum between adaptation and maladaptation.

Nature Climate Change, 13(9), 907-918.

Week 4
M 2/17 - No Class, Presidents' Day

W 2/19
For Class:
Review Week 2 Readings (Incremental --> Transformational Adaptation) for Debate

Weeks 5-7 - Practices Presentations

Week 8 - No Class, Spring Recess

Week 9
M 3/24 - Framing Governance
For Class:
Fuhr, H., Hickmann, T., & Kern, K. (2018). The role of cities in multi-level climate governance: local climate policies and the 1.5 C target. Current opinion in environmental sustainability, 30, 1-6.

Allen, C., Malekpour, S., & Mintrom, M. (2023). Cross-scale, cross-level and multi-actor governance of transformations toward the sustainable development goals: A review of common challenges and solutions. Sustainable Development, 31(3), 1250-1267.

Additional Resources:
Guerdat, P., Masud, S., & Beauchamp, E. (2023). Reporting on progress in National Adaptation Plan processes: An analysis (NAP Global Network report). International Institute for Sustainable Development. https://napglobalnetwork.org/ resource/reporting-on-progress-in-nap-process/

Hannibal, B., Meerow, S., Woodruff, S. C., Roy, M., Gilbertson, P. G., & Matos, M. (2024). Who collaborates on urban resilience? An analysis of flood resilience planning networks in four coastal cities. Journal of Urban Affairs, 46(9), 1775-1792.

IWGIA (2023). Consolidating the rights of Indigenous Peoples in climate governance through the Local Communities and Indigenous Peoples Platform. https://www.iwgia.org/en/resources/publications/5309-consolidating-rights-indigenous-peoplesclimate-governance-local-communities-indigenous-peoples-platform.html

Newell, Pattberg, Schroeder, 2012, Multiactor Governance and the Environment [get citation]

Status of Tribes and Climate Change Working Group (STACCWG). (2021). Status of Tribes and Climate Change Report, Institute for Tribal Environmental Professionals, Northern Arizona University, Flagstaff, AZ. [Marks-Marino, D. (ed.)] http://nau.edu/stacc2021

Ulibarri, N., Ajibade, I., Galappaththi, E. K., Joe, E. T., Lesnikowski, A., Mach, K. J., ... & Global Adaptation Mapping Initiative Team. (2022). A global assessment of policy tools to support climate adaptation. Climate policy, 22(1), 77-96.

W 3/26 - Municipal Governance

For Class:

Diezmartínez, C. V., & Short Gianotti, A. G. (2024). Municipal finance shapes urban climate action and justice. Nature Climate Change, 14(3), 247-252.

Rosenzweig, C., & Solecki, W. (2018). Action pathways for transforming cities. Nature Climate Change, 8(9), 756-759.

Additional Resources:

Angelo, H., & Wachsmuth, D. (2020). Why does everyone think cities can save the planet?. Urban Studies, 57(11), 2201-2221.

Bulkeley, H., & Betsill, M. M. (2013). Revisiting the urban politics of climate change. Environmental politics, 22(1), 136-154.

Chu, E., Anguelovski, I., & Carmin, J. (2016). Inclusive approaches to urban climate adaptationplanning and implementation in the Global South. Climate Policy, 16(3), 372-392.

Hughes, S. (2020). Principles, drivers, and policy tools for just climate change adaptation inlegacy cities. Environmental Science & Policy, 111, 35-41.

ICLEI (2023). The Ambition Gap: From Intent to Implementation in Local Climate Action. https://icleiusa.org/wp-content/uploads/2023/01/The-Ambition-Gap-From-Intent-to-Implementation-in-Local-Climate-Action-.pdf

Solecki, W. D., & Rosenzweig, C. (2022). Climate change and US cities: urban systems, sectors, and prospects for action. Island Press.

Week 10

M 3/31 - Guest Lecture

Readings TBD

W 4/2 - Community-led Governance

For Class:

Attygalle, L. I. S. A. (2020). Understanding community-led approaches to community change. Tamarack Institute, Canada. https://www.tamarackcommunity.ca/hubfs/Resources/Publications/2020%20PAPER%20%7C%20Understanding%20Community-Led%20Approaches.pdf

Nath, S. (2024). Mobilising transformative community-based climate change adaptation. Urban Transformations, 6(1), 1.

Additional Resources:
City of Melbourne (2023). A Community-led Approach to Climate Justice: A case study incollaborative partnerships for climate ready and resilient communities.https://carbonneutralcities.org/wp-content/uploads/2023/08/A-Communtiy-Led-Approach-to-Climate-Justice.pdf

Cole, B. L., Rosario, I. D., Hendricks, A., & Eisenman, D. P. (2023). Advancing Health Equity inCommunity-Based Climate Action: From Concept to Practice. American Journal of Public Health,113(2), 185-193.

Fox, A., Ziervogel, G., & Scheba, S. (2023). Strengthening community-based adaptation for urban transformation: managing flood risk in informal settlements in Cape Town. Local Environment, 28(7), 837-851.

Gonzalez, R., James, T., & Ross, J. (2017). Community-Driven Climate Resilience Planning: A Framework. National Association of Climate Resilience Planners, 13.

Gonzalez, R. (2019). The spectrum of community engagement to ownership. Oakland, CA. https://movementstrategy.org/wp-content/uploads/2021/08/The-Spectrum-of-Community-Engagement-to-Ownership.pdf

Week 11
M 4/7 - Guest Lecture
Readings TBD

W 4/9 - Regional Governance

For Class:
Nickerson, C. (2020). Southeast Florida Regional Climate Change Compact: Coordinating Climate Change Response through New Government Structures. Public. Purp. J, 17, 69-75.

Shi, L. (2019). Promise and paradox of metropolitan regional climate adaptation. Environmental Science & Policy, 92, 262-274.

Additional Resources:
Birchall, S. J., Bonnett, N., & Kehler, S. (2023). The influence of governance structure on local resilience: Enabling and constraining factors for climate change adaptation in practice. Urban Climate, 47, 101348.

Marques, A. L., & Alvim, A. T. B. (2024). Metropolitan fringes as strategic areas for urban resilience and sustainable transitions: Insights from Barcelona Metropolitan Area. Cities, 150,

105018.

Nocentini, M. G. (2024). The governance of climate adaptation in metropolitan regions: A systematic review of emerging themes and issues. Urban Climate, 55, 101944.

Week 12
M 4/14 - Transnational Governance

For Class:
Acuto, M., & Rayner, S. (2016). City networks: breaking gridlocks or forging (new) lock-ins?. International Affairs, 92(5), 1147-1166.

Roberts, D., Douwes, J., Sutherland, C., & Sim, V. (2020). Durban's 100 Resilient Cities journey: governing resilience from within. Environment and Urbanization, 32(2), 547-568.

Additional Resources:

Acuto, M., Kosovac, A., Pejic, D., & Jones, T. L. (2023). The city as actor in UN frameworks: formalizing 'urban agency'in the international system?. Territory, Politics, Governance, 11(3), 519-536.

Cortes, S., van der Heijden, J., Boas, I., & Bush, S. (2022). Unpacking the heterogeneity of climate city networks. Cities, 121, 103512.

Fitzgibbons, J., & Mitchell, C. L. (2019). Just urban futures? Exploring equity in "100 Resilient Cities". World development, 122, 648-659.

Fünfgeld, H. (2015). Facilitating local climate change adaptation through transnational municipal networks. Current Opinion in Environmental Sustainability, 12, 67-73.

Montero, S. (2020). Leveraging Bogotá: Sustainable development, global philanthropy and the rise of urban solutionism. Urban studies, 57(11), 2263-2281.

Naef, P. (2022). Resistances in the "Resilient City": Rise and fall of a disputed concept in New Orleans and Medellin. Political Geography, 96, 102603.

W 4/16 - Guest Lecture
Readings TBD

Week 13-14 - Final Presentations

GSD Resources

Frances Loeb Library

Ask a Design Librarian	Research Consultations	Research Guides	Writing Services	Mapping & GIS

Digital Media Workshops (DMW)

Tutorials on a range of fundamental and emerging design technologies and techniques serve as a platform for interdisciplinary learning, sharing, and serendipity. All workshops are hybrid; recordings of past workshops are on Canvas.

GSD Fabrication Lab

The GSD FabLab is an extension of the classroom and studio environment, enabling learning and design through making with a variety of processes and materials. Online training is required of all users.

Academic Coaching

Sessions are available to any student interested in developing or improving learning strategies, time management, and organizational skills. Students can book a virtual or in-person appointment with Sara Morrison, M.S. CLC, by emailing sara_morrison@gsd.harvard.edu or using MS Bookings.

GSD Policies

GSD Student Handbook

The Student Handbook includes all student-facing policies concerning degree requirements, registration, enrollment, attendance, the GSD grading system, student finances, copyright, academic and personal conduct, and privacy.

Generative AI in Teaching and Learning at the GSD

This page provides policies, information, and guidance for courses regarding using generative AI in teaching and learning at the GSD. Note that all existing policies regarding the use and citation of references, including any aid received by human agents and non-human tools apply to the use of generative AI.

GSD Community Values, Rights, and Responsibilities

This statement explains the GSD's community values (excellence, respect, honesty, accountability) and the rights and responsibilities of GSD community members in upholding these values.

Disability Accommodations

Our goal is to remove barriers for students with disabilities related to inaccessible elements of instruction or design in this course. If reasonable accommodations are necessary to provide access, please contact accessibility@gsd.harvard.edu. Accommodations do not alter the fundamental requirements of the

course and are not retroactive. Students should request accommodations as early as possible since they may take time to implement.

Land Acknowledgement

Harvard University is located on the traditional and ancestral land of the Massachusett, the original inhabitants of what is now known as Boston and Cambridge. We pay respect to the people of the Massachusett Tribe, past and present, and honor the land itself which remains sacred to the Massachusett People. *Harvard University Native American Program*

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