Geothermal is the way FORWARD

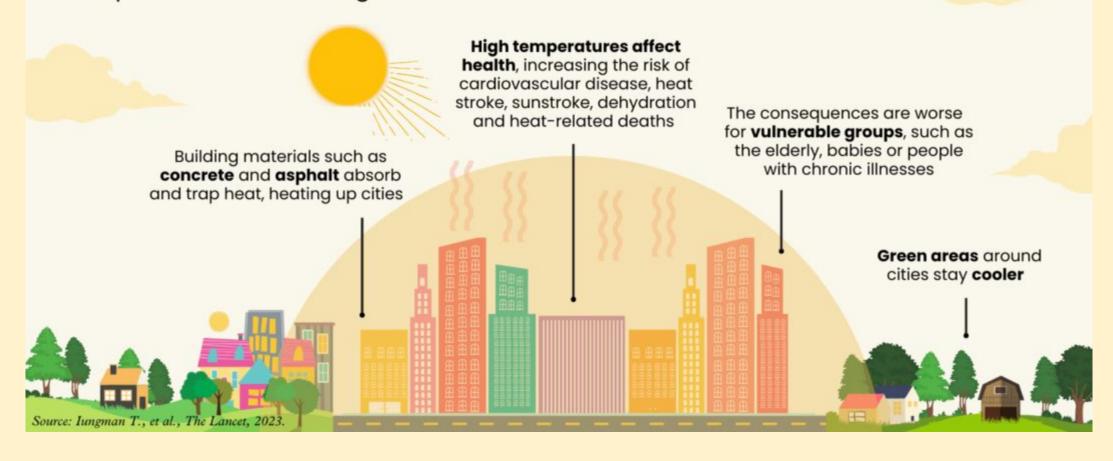
Arya Sheth, Raveena Stephen, Aneesh Guda, and Dexter Noggle

Friday July 28th, 2023



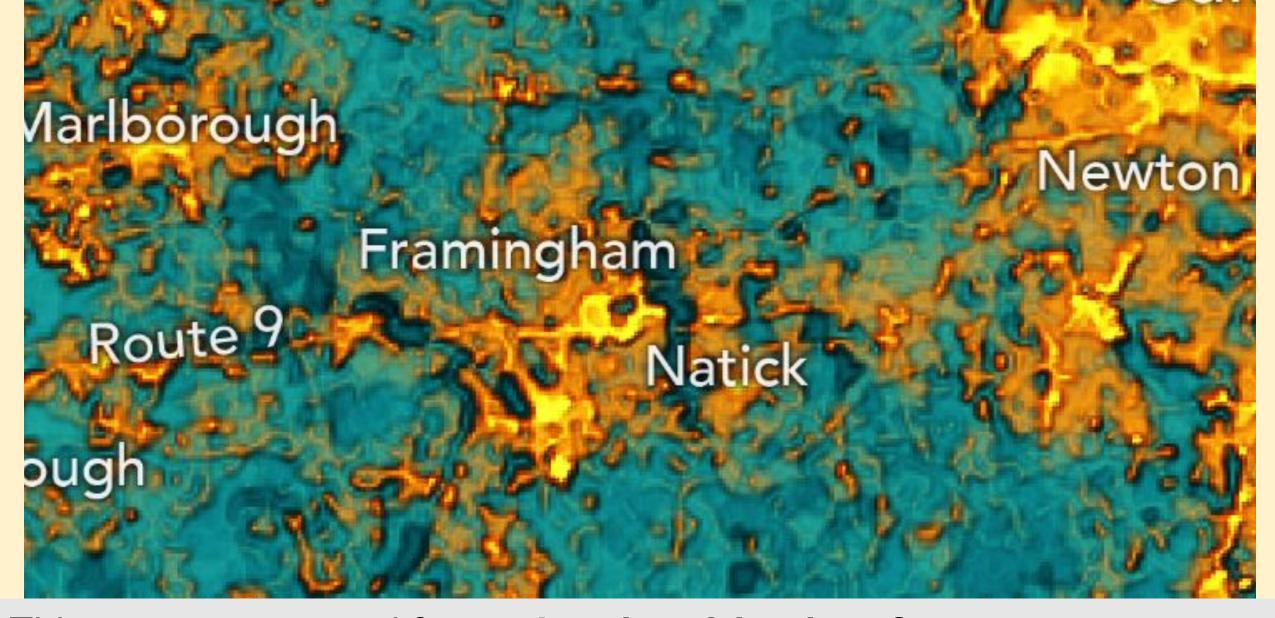
The urban heat island effect

Refers to the **increase in temperature** in **urban environments** compared to surrounding areas.

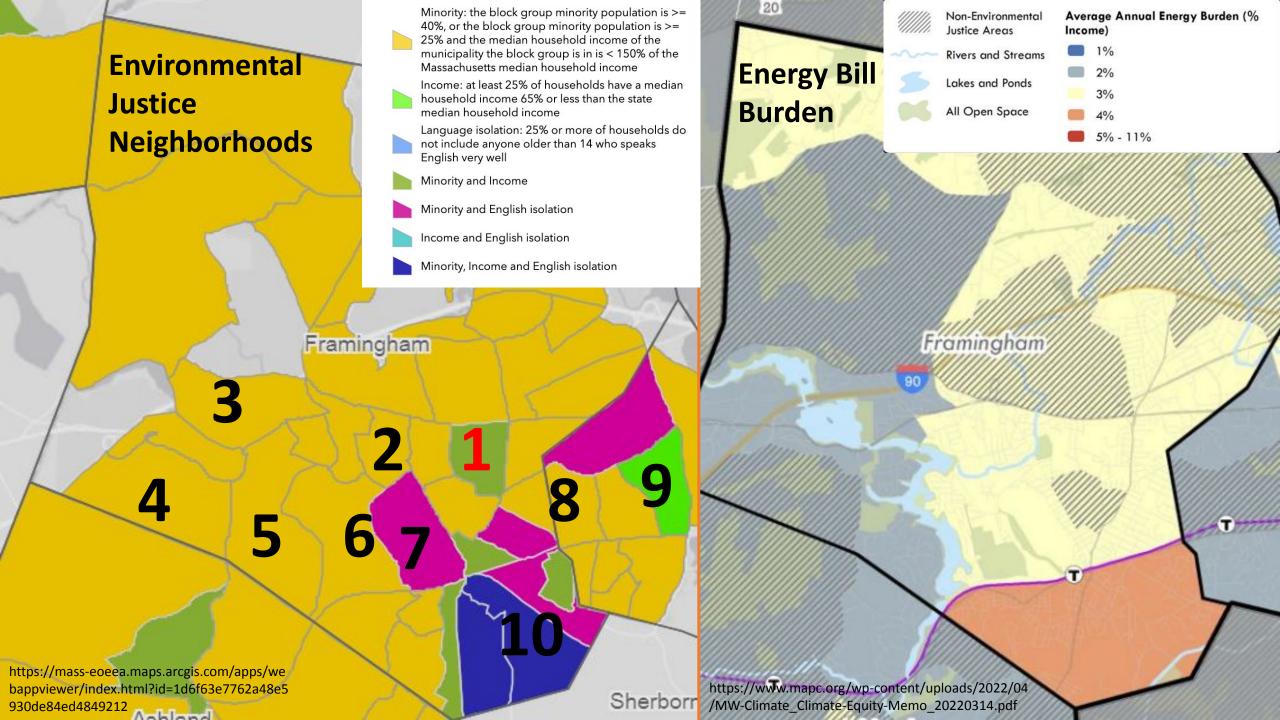


A map of urban heat islands in Eastern Massachusetts. Brighter colors represent relatively hotter summer conditions.



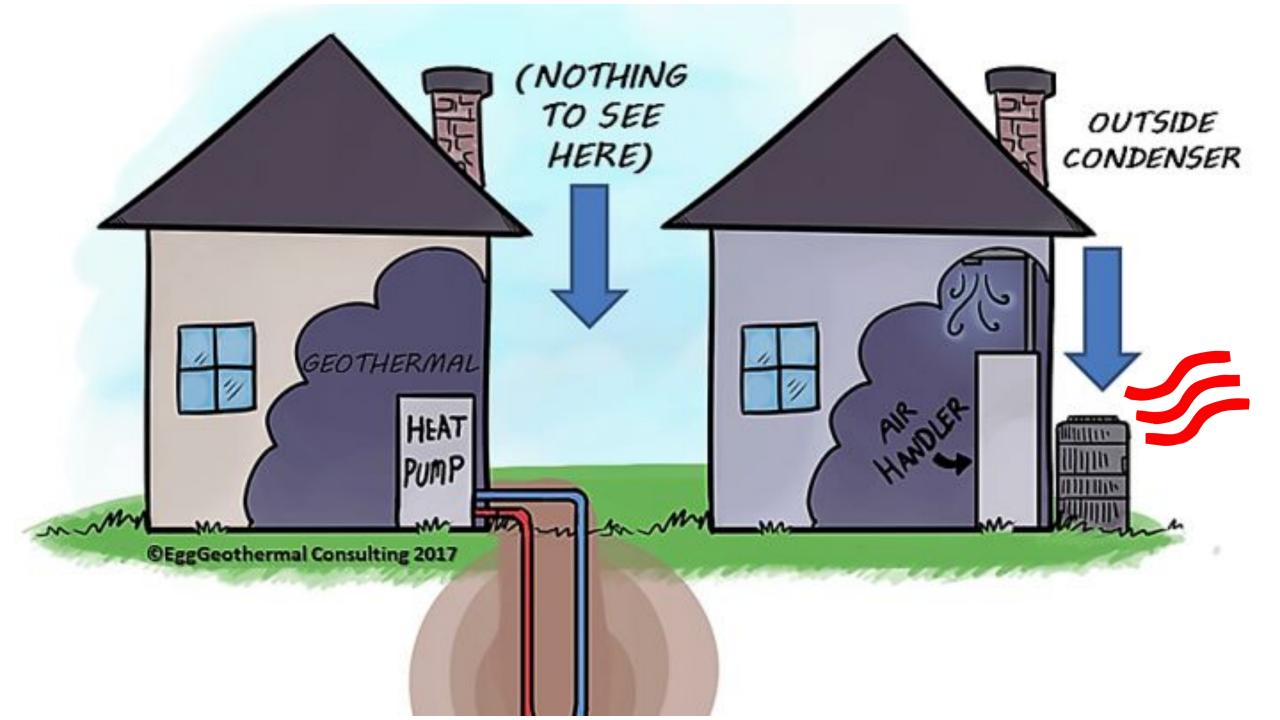


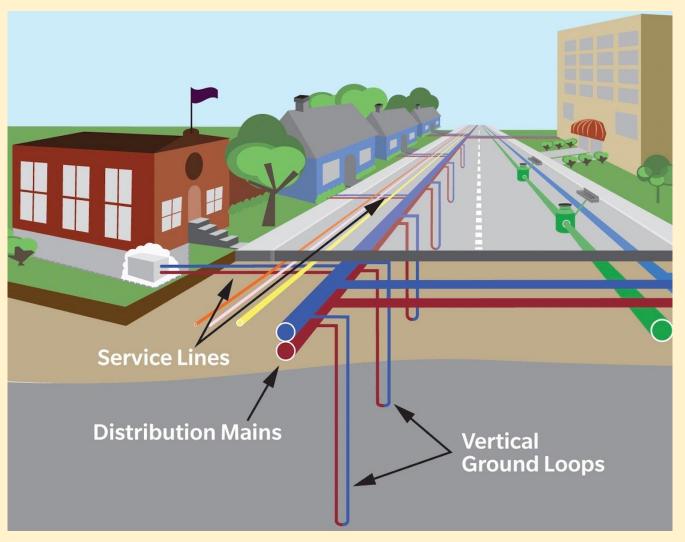
This map was created from a Landsat 8 land surface temperature composite of the summers 2018-19.



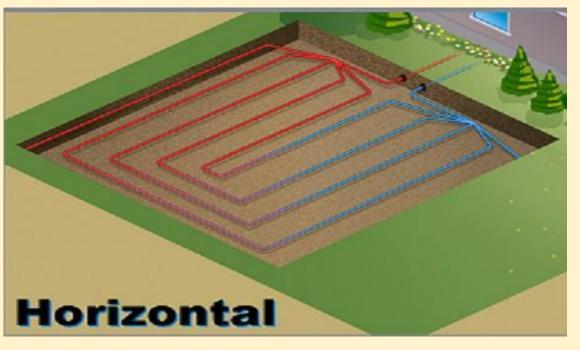


Ever stood next to one of these?

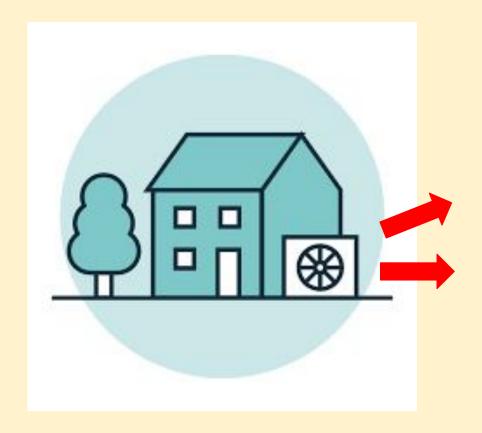


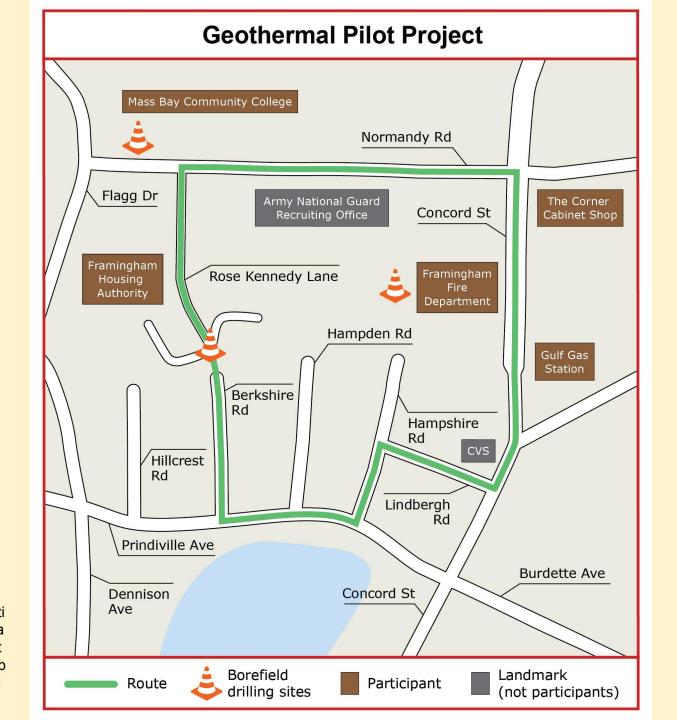












https://www.eversource.com/content/residential/about/transmission-distribution/projects/massachusetts-projects/geothermal-pilot-project#:~:text=The%20route%20is%20a%20neighborhood,the%20outcome%20of%20the%20pilot.

Acknowledgements

We would like to thank Framingham State University and the Christa McAuliffe Center for Integrated Science Learning for sharing space, staff, and resources.

We are grateful to the PETM program funders, including the MA STEM Pipeline Fund/Massachusetts Executive Office of Education, MassHire Metro South / West Workforce Board, MassHire Central Workforce Board, Blackstone Valley Education Foundation, YouthWorks - Commonwealth Corporation, the Institute of Museum and Library Services, the Sudbury Foundation, Main Street Group Foundation, and Framingham Cultural Council, Marlborough Cultural Council, and Milford Cultural Council, local agencies which are supported by the Mass Cultural Council, a state agency.

Finally, we would like to thank those individuals who contributed their time and expertise, including Michael Barros-Smith, Angie Alberto Escobar, Erin Creel, Brian Herr, Amy Johnston, Barry Keppard, Kat Kobylt, Shawn Luz, Alexa Mogck, Jerusha Nelson-Peterman, Jim Newman, Cara Pina, Sasha Shyduroff, Charlie Sisitsky, and Larry Stoodt.