



The Case for Resilience: Defined Pathways for Achievement

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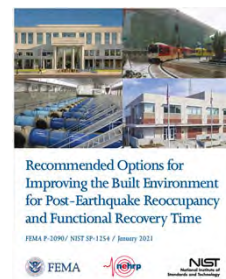
Concrete Innovations Webinar, 14 May 2025



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Overview

- Adopt and enforce latest codes and standards
- Bring new & emerging concepts into codes and standards
- Sustainable and fire resilient built environment (SAFR-BE)
- After events, build back better



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■ Pathways for Achievement

- Adopt and enforce latest codes and standards



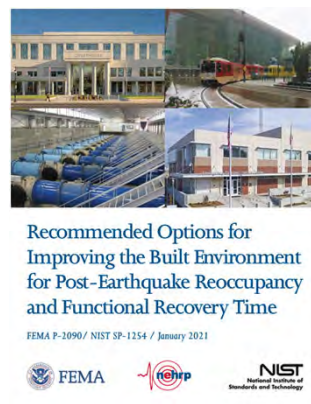
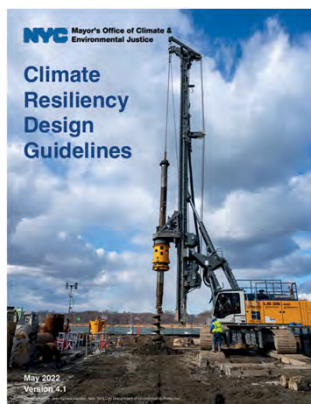
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■ Pathways for Achievement

- Bring new & emerging concepts into codes and standards

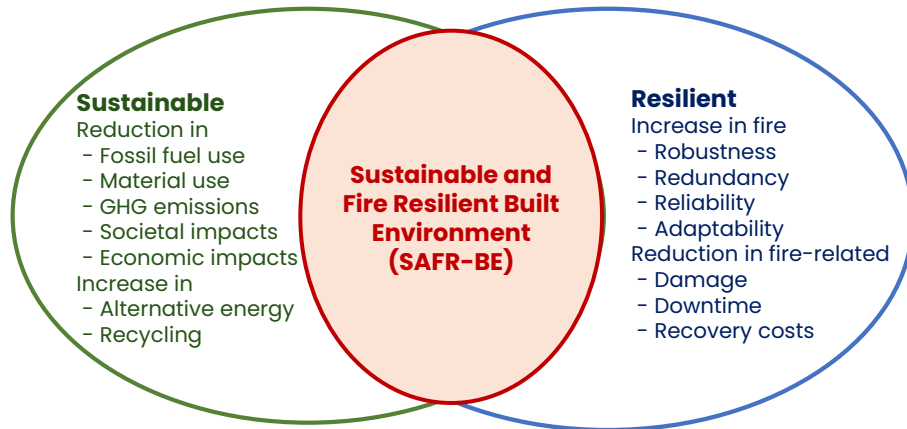


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Meacham, B. and McNamee, M. (2020). *Fire Safety Challenges of Green Buildings – 2020 Update*. FPRF. Quincy, MA

Meacham, B.J. and McNamee, M. "Chapter 18 – Sustainable and Fire Resilient Built Environment (SAFR-BE)," in Meacham and McNamee, Eds., *Handbook of Fire and the Environment: Impacts and Mitigation*, Springer, 2022, https://link.springer.com/chapter/10.1007/978-3-030-94356-1_13.



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• SAFR-BE



Aftermath of Delanco, NJ, Warehouse Fire (Courtesy of New Jersey State Fire Marshal Office)



Fire in Timber Frame Apartment Building Under Construction (Source: Captain John Bonadio, Waltham Fire Department, as published at <https://www.enr.com/articles/42484-what-local-officials-want-to-do-about-wood-frame-building-fires-in-massachusetts>), Courtesy of Waltham, Massachusetts Fire Department)



Grenfell Tower Fire (Natalie Oxford, 2017)

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- SAFR-BE



Deadly 2023 Lahaina wildfire ruled 'accidental,' caused by downed power line : Big Island Now



Estimated cost of fire damage balloons to more than \$250 billion - Los Angeles Times

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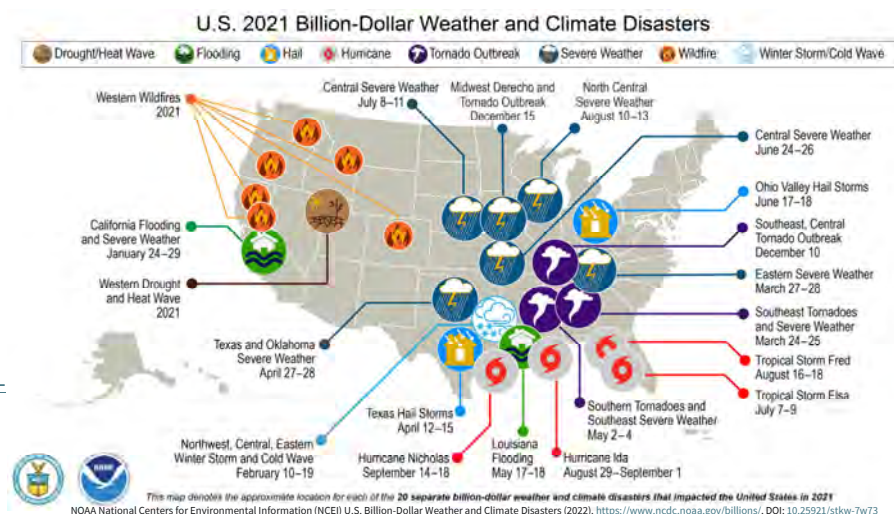
- SAFR-BE

2023 Lahaina fire

- Gov. Josh Green "The estimated cost of the overall recovery will ultimately exceed \$12 billion" (Aug 2024)

2025 LA fires

- [Estimated cost of fire damage balloons to more than \\$250 billion - Los Angeles Times](#) (Jan 2025)



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Pathways for Achievement

- After events, build back better



Feds award \$212 million to help California recover from 2017 wildfires - The Press Democrat



LA fires in maps: Where are they and how bad is the damage?

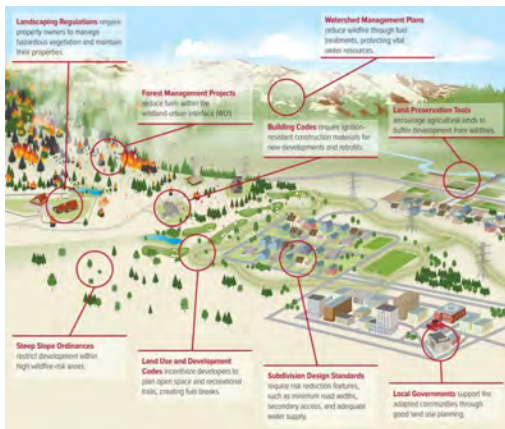
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Pathways for Achievement

- After events, build back better

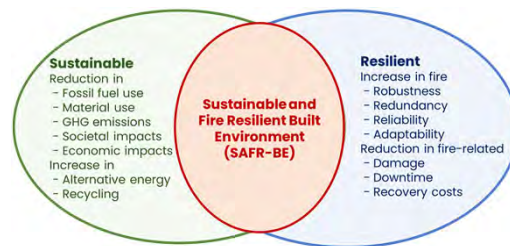


Building wildfire resilience in the West

INNOVATIONS



Cellular lightweight concrete (CLC) | RISE



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Thank you!

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