Home Survival in Wildfire Prone Areas

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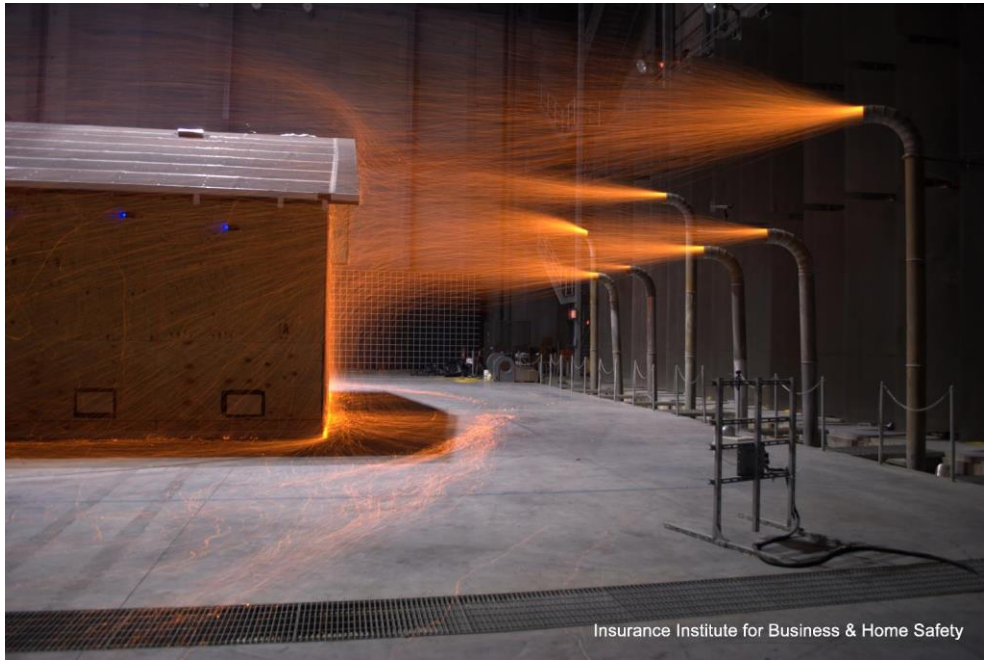
Agenda

- Vulnerabilities of buildings to wildfire
- Defensible space / vegetation management on the property
- Importance of maintenance (vegetative debris)
- Siding and Fencing
- Wrap up / Summarize

Wildfire Exposures: Embers



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Direct versus Indirect Ember Ignition

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Wildfire Exposures: Radiant Heat

Wildfire Exposures: Flame Contact

Home Survival: A Coupled Approach

- Vegetation and other combustibles on the property: Selection, Location and Maintenance
- Home: Construction materials and design features

Mitigation Strategies

Home-to-Home Spacing: Wide

- ✓ Creation and maintenance of defensible space
- ✓ Installation details & design features. Ember-resistant materials.

Wildland Fire-to-Home: Ember Ignition

Ember-resistant construction and details

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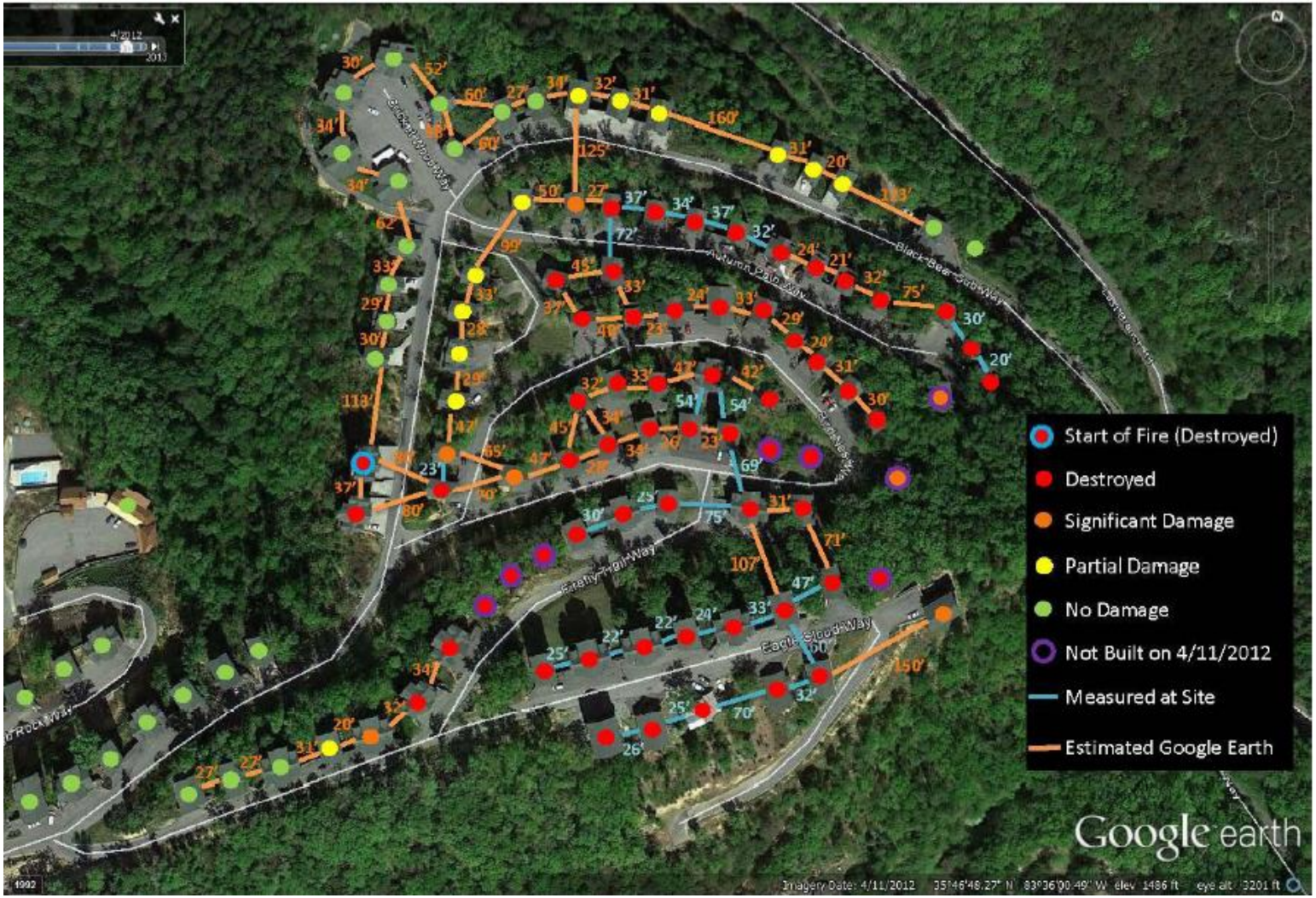
Home-to-Home Fire Spread

Fire & Ignition Resistance

- ✓ Effective Defensible Space
- ✓ Noncombustible & Ignition Resistant Materials
- ✓ Multi-pane / Tempered Glass windows



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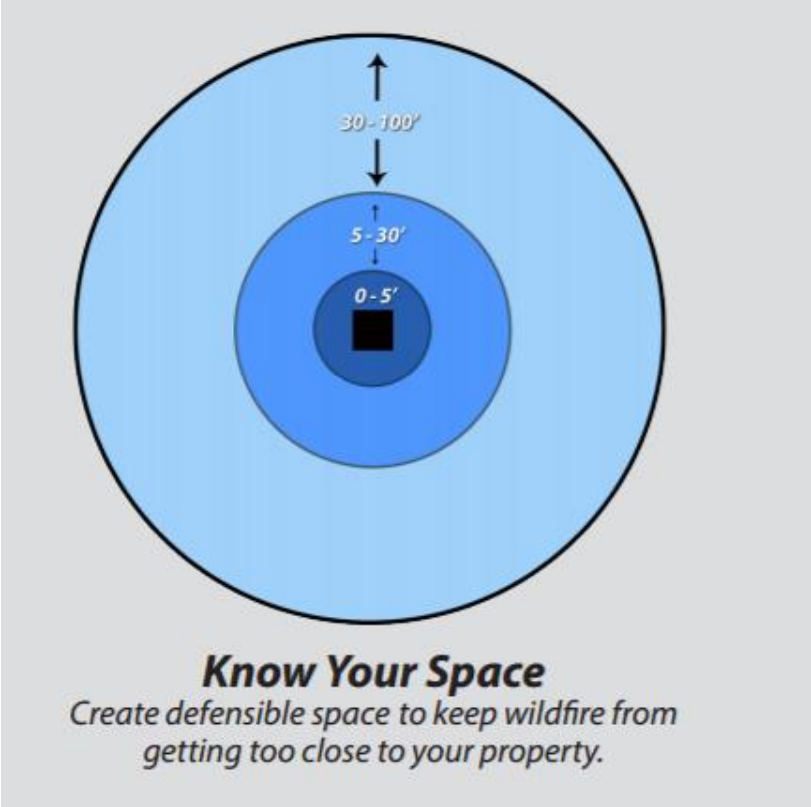
Defensible Space



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Exterior Walls – Near-Building

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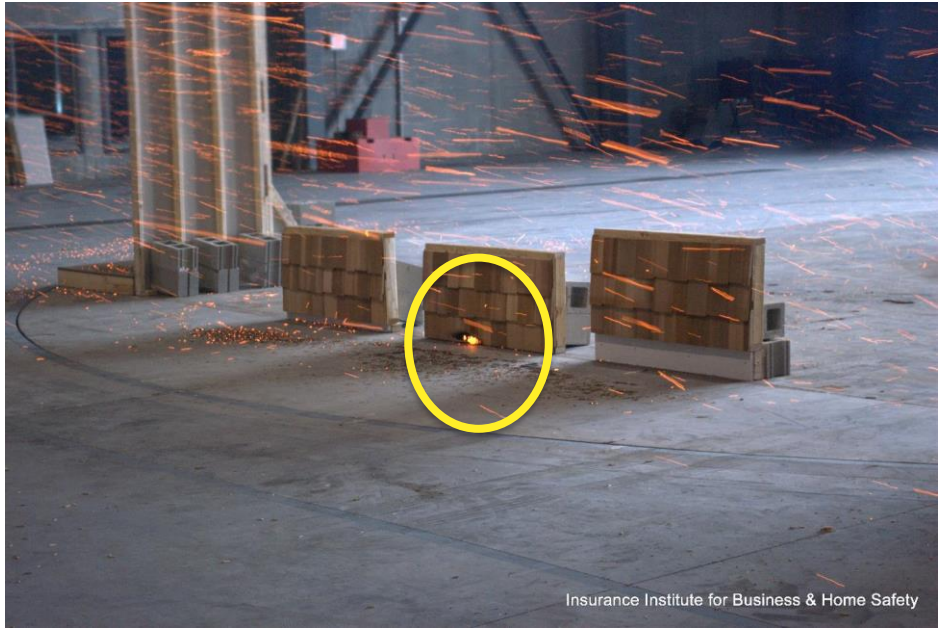
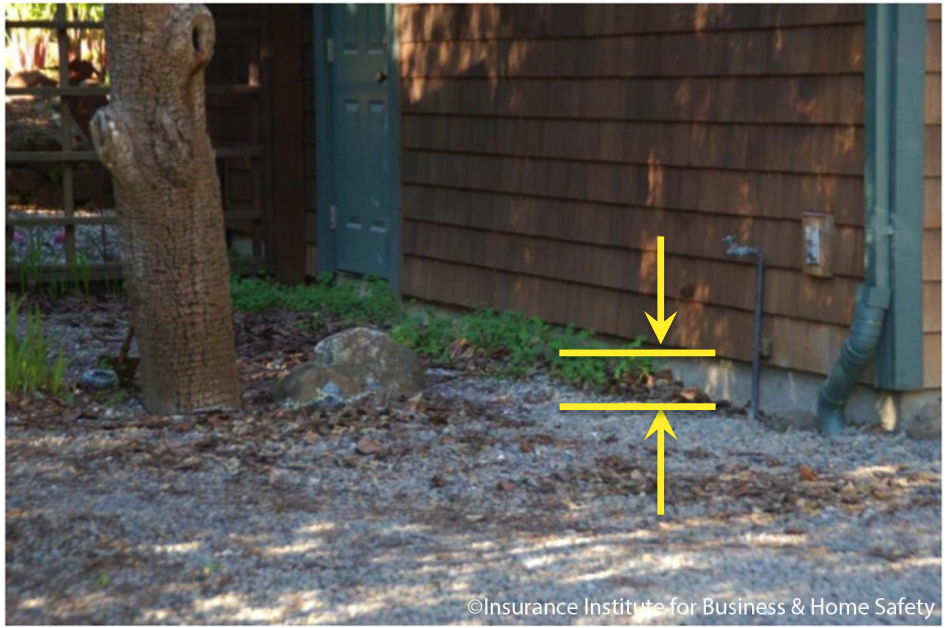
Defensible Space: Under-deck

Exterior Wall — Ground-to-Siding





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Maintenance – Examples where it can matter

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Roof Edge – Complex Roof

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Roof Edge - Gutter

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Roof - Skylights

Vents

Deck: Attachment Detail

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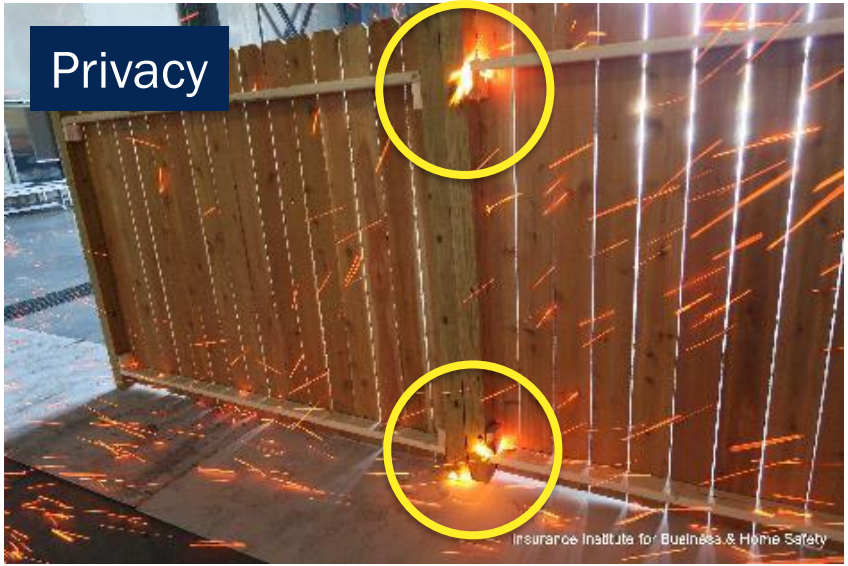
Fences & Fence Vulnerability

Fencing



No Mulch

Mulch

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Noncombustible Fence Section

Summary

- Exposures
  - Direct and Indirect
- Coupled Approach
  - Defensible Space
  - Materials & Design
- Wildland fire-to-home versus home-to-home

Thanks for your attention!

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www.disastersafety.org

ucanr.edu/sites/forestry/Wildfire

Transitioning to:
ucanr.edu/sites/fire