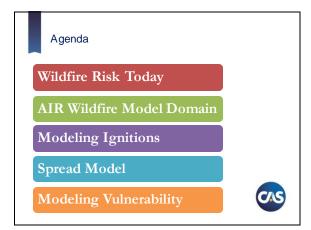
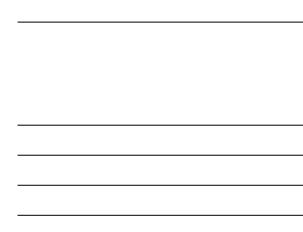
Managing Wildfire Risk in an Increasingly Complex Environment

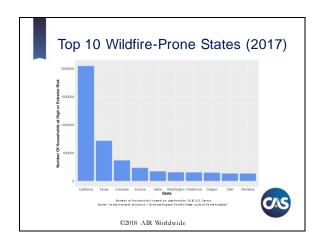
Tammy Viggato, CEEM Senior Scientist AIR Worldwide

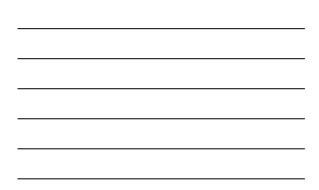




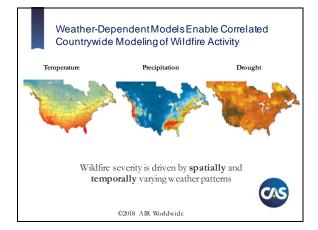




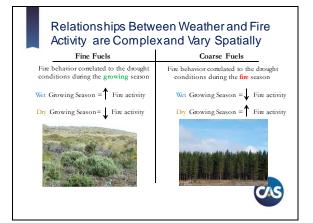


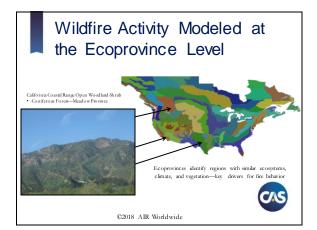




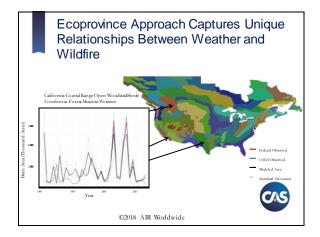














Understanding the "Perfect Storm" for a VUI Disaster Mildup of Fuel Management Market Market

The WUI is Critical to Understanding Wildfire Risk



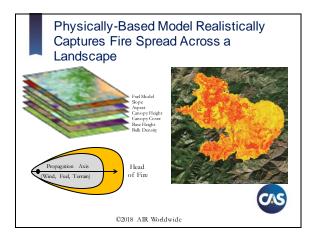


- · Development intersects with undeveloped lands
- Largest economic losses from wildfire will occur in the WUI

 One-third of U.S. households are located in the WUI
 - 4,000 acres of wildland are converted to WUI daily



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Wind Speed and Direction are the Primary Drivers of Loss

- Wind is the primary propagator of spread direction and wildfire intensity
- Fires with high wind speeds produce higher losses
- Wind speed, fuel, and topography are considered when determining the final intensity



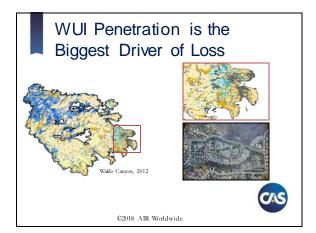
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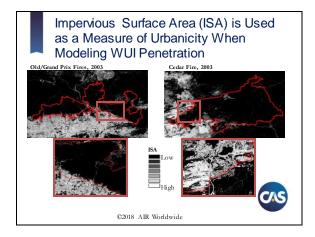
Spread Model Explicitly Accounts for All the Ways Fire Can Spread

- Surface SpreadSurface-to-Canopy Transition
- Canopy SpreadFire Branding/Spotting

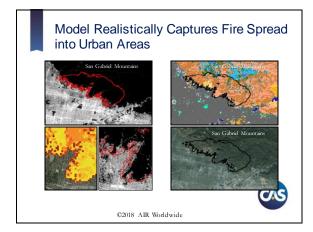




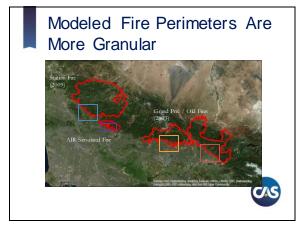


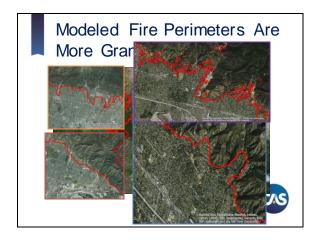






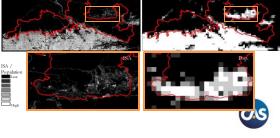


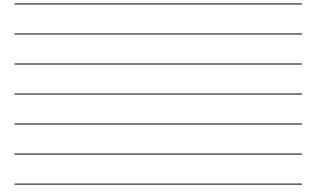




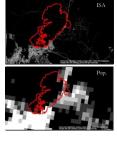


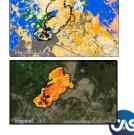






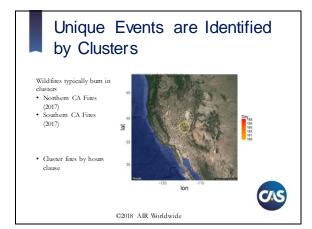
Model Accounts for Areas Where Fire Suppression Is Likely to Occur



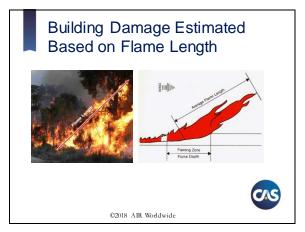


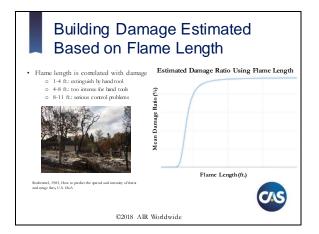
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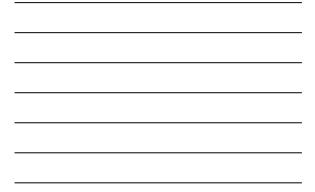








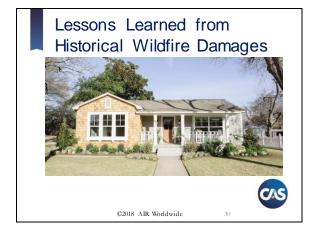


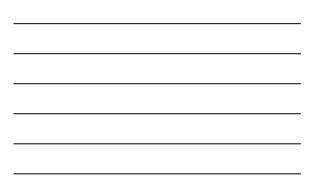


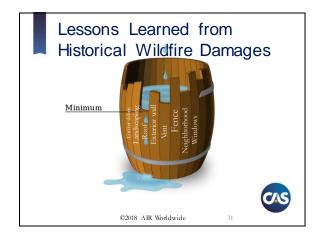




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