



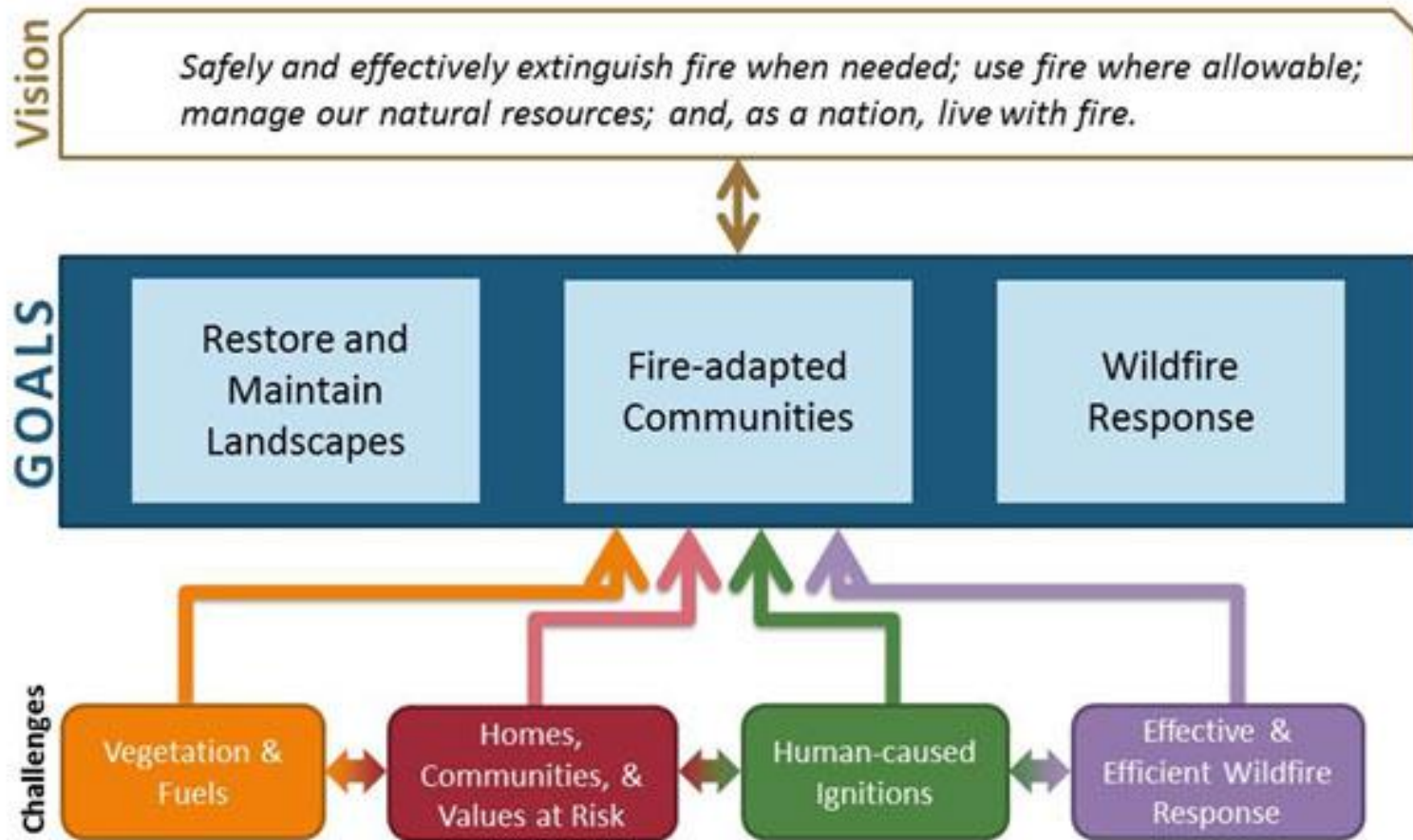
Introduction: The National Cohesive Strategy and the purpose of the workshop series

National Cohesive Wildland Fire Management Strategy
Science Analysis Report: Application to the Southeast Region
January, 2014

The National Cohesive Strategy (Three Goals)

- **Restore and maintain landscapes:** Landscapes across all jurisdictions are resilient to fire-related disturbances in accordance with management objectives.
- **Fire-adapted communities:** Human populations and infrastructure can withstand a wildfire without loss of life and property.
- **Wildfire response:** All jurisdictions participate in making and implementing safe, effective, efficient risk-based wildfire management decisions.

Vision, Goals, Challenges



Report and Resources

- Overview and Background: <http://forestsandrangelands.gov>
- National Cohesive Wildland Fire Management Strategy and Risk Analysis Report (National Strategy)
- Southeast RSC

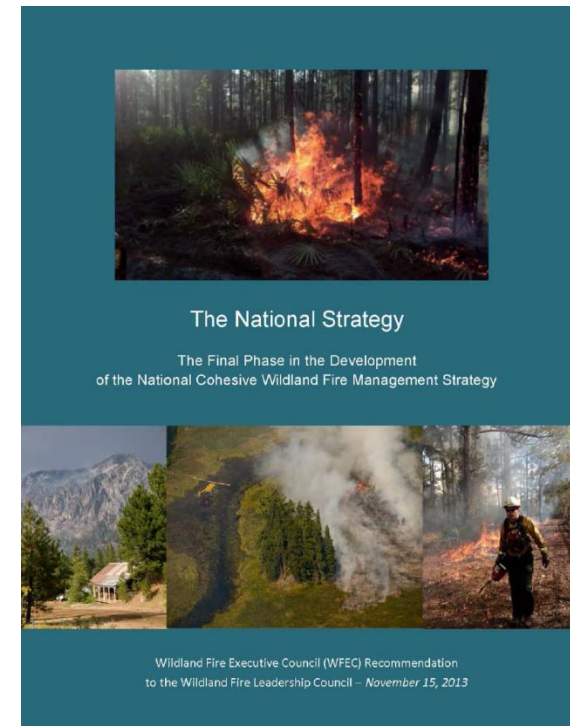


The screenshot shows the homepage of the Forests and Rangelands website. At the top, there is a banner image of horses in a field with the text "Forests and Rangelands" overlaid. Below the banner is a navigation bar with "Home: Ateev: Regional Strategy Committees: Southeast" and "About Forests & Rangelands".

The main content area is titled "Southeast Regional Strategy Committee". It features a search bar on the left and a central article titled "Final Southeast Regional Action Plan". The article text reads: "The Southeast Regional Action Plan details the goals, desired outcomes, investment options, outcome measures, and priority implementation actions for the Southeast Cohesive Strategy Region. These actions, identified by the Southeast Regional Strategy Committee (RSC), will help guide all the partners in wildland fire management in the Southeast Region to make progress in achieving the overarching national goals: Restore and Maintain Landscapes, Fire Adapted Communities, and Wildfire Response." Below the text is a link to the "Southeast Regional Action Plan, April 2013 (PDF, 1.5 MB)".

On the right side, there is a "Regional Strategy Subcommittees" section with links for RSC Home, Northeast, Southeast (with sub-links for Overview, Reports, Success Stories, Members, and Contact Us), and West. Below this is a "Southeast Highlights" section with a link to the "NEW Draft National Cohesive Wildland Fire Management Strategy and Risk Analysis Phase III Report". At the bottom right, there is a "Follow Us" section with a link to "Follow us on Twitter".

The left sidebar contains a "Search" box, a "Forests & Rangelands Home" link, and three main categories: "Wildland Fire" (with links to Wildland Fire Leadership Council, Wildland Fire Executive Council, Cohesive Strategy, Wildland Fire Information and Technology (WFIT), Success Stories, Resources, and Related Links), and "Forest Management" (with links to Forest Operations Catalog, Stewardship Contracting Tools, and Woody Biomass Utilization).



The image shows the cover of the "The National Strategy" report. The top half features a photograph of a forest fire at night with the title "The National Strategy" and subtitle "The Final Phase in the Development of the National Cohesive Wildland Fire Management Strategy". The bottom half features a collage of three images: a mountain landscape, a forest fire, and a firefighter. Below the collage, it reads "Wildland Fire Executive Council (WFEC) Recommendation to the Wildland Fire Leadership Council – November 15, 2013".

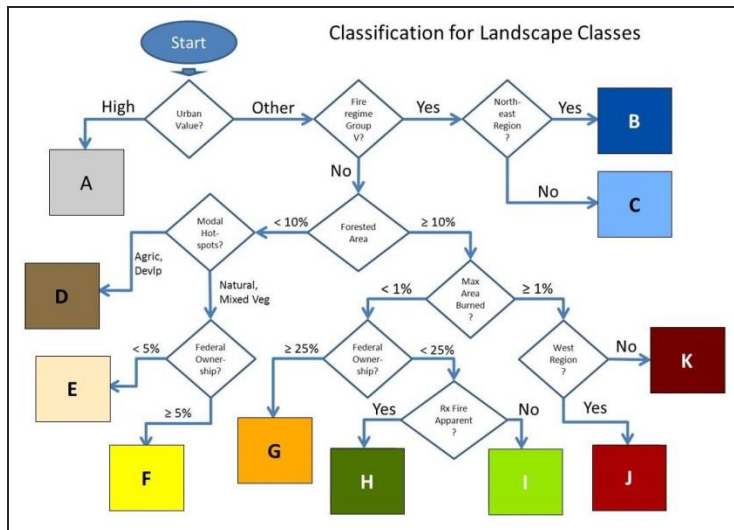
The National Science and Analysis Team (NSAT)

Phase III Contributors

- Led by Danny C. Lee (USDA Forest Service) and Thomas M. Quigley (METI Corporation)
- Included over 60 individuals from various agencies, organizations and universities.

The National Analysis

- Structured scientific analysis
- Included over 100 different data sources to thoroughly examine wildland fire issues across the Nation
- Interactions with Regional Strategy Committees (RSCs)
- Allowed science-based insights and recommendations from a national perspective.



National Goals	National Challenges	Management Options*
Restore and Maintain Landscapes	Vegetation and Fuels	Prescribed Fire: Expand or maintain in areas of current use Prescribed Fire: Expand into areas of limited current use Prescribed Fire: Utilize on a limited basis
		Manage wildfires for resource objectives: In forested systems Manage wildfires for resource objectives: In non-forested systems Manage wildfires for resource objectives: In areas where increased awareness of community risk is necessary. Non-fire Treatments: Supported by forest products industry Non-fire Fuels Treatments: In non-forest areas Non-fire Fuels Treatment: In areas with limited economic markets
Fire-adapted Communities	Homes, Communities, & Values At Risk	Fuels Treatments as a precursor to prescribed fire or managed wildfire. Focus on home defensive actions Focus on combination of home and community actions
		Adjust building and construction codes, municipal areas Adjust building and construction codes, non-municipal areas
Respond to Wildfires	Human-caused Ignitions	Reduce accidental human-caused ignitions Reduce human-caused incendiary ignitions (e.g., arson)
	Effective and Efficient Wildfire Response	Prepare for large, long-duration wildfires Protect structures and target landscape fuels Protect structures and target prevention of ignitions

The Southeast Workshop Series

To provide an **overview of the analytical methods and tools** used in the National Analysis and an introduction to **interacting with the information**

Workshop 1: Broad overview of process, data and methods

- Provide transparency in the data and science products
- Explore data in the Southeast using different methods
- Learn about tools and methods for regional application

Workshop 2: Regional application of data and tools

- Using tools to use products from National Analysis with regional knowledge and datasets
- Focus on questions related to issues in the Southeast

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Workshop 1

What it is

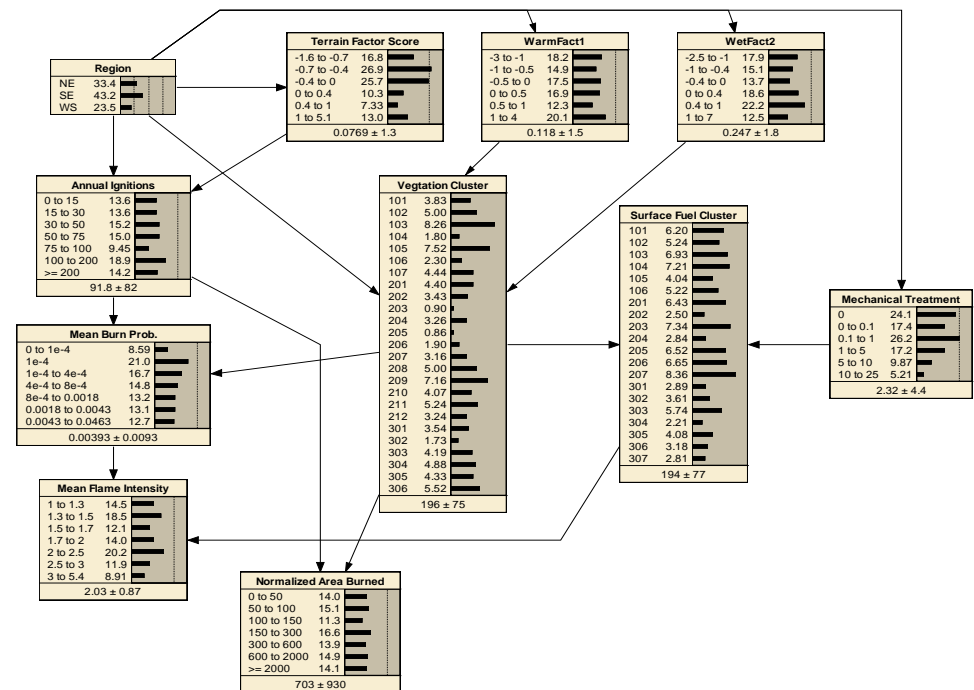
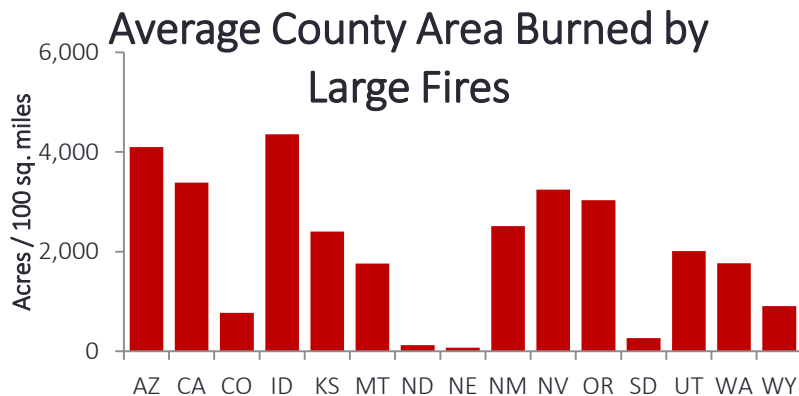
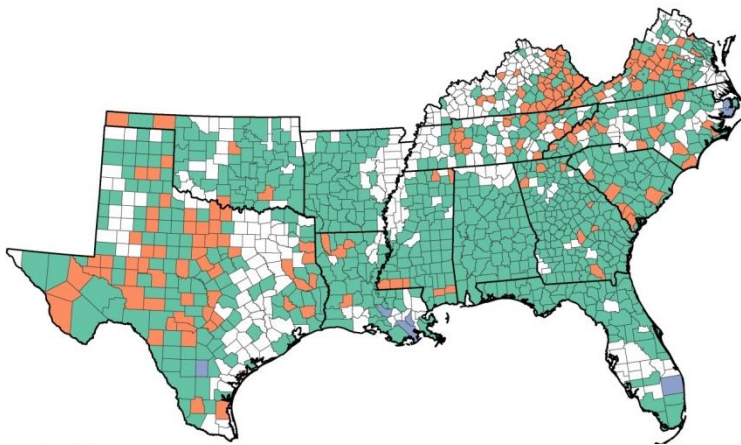
- Broad overview and big picture
- Exposure to *some* of the data used in science analysis
- Some hands-on experience

What it isn't

- In-depth class on statistical methods (Bayesian Statistics, cluster analysis, etc.).
- Detailed training on every dataset used in analysis

Exploring Relationships

Exploring data may inform a current understanding or reveal new relationships or interactions



Addressing Questions in the Southeast

- After an introduction to the methods and tools we will focus on more specific questions related to issues in the Southeast
- Using information and tools from the National Analysis to address concerns within Regional, State, and Local agencies
- Incorporating other regional or organizational information, expertise, and data

Agenda

- Today:
 - The National Science Analysis
 - Preparing Data for Analysis
 - Application of Products
 - Basics of Belief Nets
- Tomorrow:
 - Exercise #1: Pivot Tables
 - Exercise #2: Naïve Networks
 - Exercise #3: Bayes Networks
 - Wrap-up