

# **Workshop Activities #1&2**



# Adaptation Planning in National Forests

- Often these tactics are things you may already be doing
  - Climate may shift the *way* you are doing those tactics
- Use climate change as a context for:
  - Identifying options
  - Evaluating tradeoffs
- Prioritize no-regrets tactics with high likelihood of success/impact
- Identify cross-resource opportunities that:
  - Accomplish objectives across a range of resources
  - Can be used to leverage funding, partnerships, etc.



# Worksheet #1 – Current Activities

Example of Current Management Goal or Objective	Example Management Activities	Potential Vulnerabilities
Meadow and riparian restoration	<ul style="list-style-type: none"><li>• Decommissioning road beds</li><li>• Removal of invasive species</li><li>• Limiting grazing impacts through fencing, off-channel habitat, rotation, etc.</li></ul>	<ul style="list-style-type: none"><li>↑ frequency and intensity of extreme precipitation and runoff</li><li>↑ demand on wet meadows for grazing due to changing seasonality of high quality rangeland</li><li>↑ sedimentation and runoff due to compaction of roadways and trails due to increased winter use</li><li>↓ snowpack and groundwater recharge</li></ul>



# Worksheet #1 - Current Activities

## Adaptation Strategy/Approach:

Restore floodplain function to enhance meadow and riparian integrity and resilience under climate change.

	<b>Specific Tactic (1)</b>	<b>Specific Tactic (2)</b>	<b>Specific Tactic (3)</b>
<b>Tactic Description</b>	Decommission abandoned road beds and trails	Control invasive species in flood-prone reaches and prevent establishment after disturbances	Re-examine grazing intensity and livestock densities in light of climate change and find new ways to fund & maintain improvements
<b>Implementation Timeframe</b>	Near	Near	Near to Mid
<b>Tactic Application</b>	Prioritize high flood and/or landslide risk areas, and/or where road/trail has substantial linear effects	Flood- or disturbance-prone areas; areas without significant invasive presence already	Currently degraded habitat areas; target key financial/ ecologically important investment areas
<b>Implementation Scale</b>	Project level	Program level	Program level



# Workshop Activity #1

**Objective: Identify how current management goals or activities can be modified to address potential vulnerabilities**

- Brainstorm current management goals or objectives for resource
- Brainstorm potential vulnerabilities
- Assign group members a current goal to work on
  - Group members fill out Worksheet #1 for that goal, **considering how to modify existing management activities to address potential vulnerabilities**
- Share Worksheet #1 ideas with group



# Worksheet #1

Example of Management Goal or Objective	Example Management Activities	Potential Vulnerabilities
Reduce forest fuel loading	<ul style="list-style-type: none"><li>• Thinning</li><li>• Prescribed fire</li><li>• Invasive species removal</li></ul>	<ul style="list-style-type: none"><li>↑ fire season length</li><li>↑ fire frequency and intensity</li><li>↑ sedimentation due to topography and increased soil erodibility (especially if fire followed by precip)</li></ul>



# Worksheet #1

## Adaptation Strategy/Approach:

Plan and prepare for more frequent and severe fire and greater area burned and increase resilience of forest systems through post-fire management

	<b>Specific Tactic (1)</b>	<b>Specific Tactic (2)</b>	<b>Specific Tactic (3)</b>
<b>Tactic Description</b>	Use prescribed fire on a larger scale & try to burn more acres more frequently to reduce fuel build-up and restore forest structure	Mechanical thinning to decrease stand density and allow fire to enter ecosystem without detrimental results	Prevent invasive plant establishment following disturbance by including invasive species prevention strategies in all projects
<b>Implementation Timeframe</b>	Near	Near	Near
<b>Tactic Application</b>	Inaccessible areas (e.g., due to topography); areas with >35% slope	Accessible areas (e.g., due to topography, non-dense forest dependent species); favor shade-intolerant species and/or representation of all successional stages	Post-fire areas
<b>Implementation Scale</b>	Project level	Project level	Project level



# Workshop Activity #2

## Objective: Identify potential future management activities to address vulnerabilities

- List potential future management activities for a resource
  - What are we not doing now but could consider doing to help address resource vulnerabilities?
    - **Facilitate transition** – e.g., plant species better suited to future conditions
    - **Engage coordination** – e.g., develop region-wide strategy to conserve fishless lakes for amphibians, some lakes for native fish species, and some lakes for non-native fish species
    - **Increase knowledge** – e.g., model future habitat changes to anticipate invasion hotspots and implement targeted monitoring plan to see when/if invasions occur
- Group fills out Worksheet #2 together