

FOREST ADAPTATION PLANNING AND PRACTICES

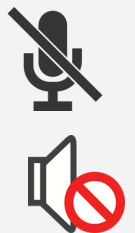
~ ONLINE COURSE ~

Session 1: Introduction to the Online Course and Adaptation Workbook

Tuesday, January 22, 2019

Web session etiquette:

- Mute your phone/microphone unless you are speaking to the group.
- If using the phone, turn off your computer speakers to avoid feedback and terrible noises.



Add A Chat Box



The screenshot shows a Zoom meeting interface. At the top, a toolbar contains icons for Mute, Start Video, Manage Participants, New Share, Pause Share, Annotate, and a 'More' button (three dots). A red arrow points to the 'More' button. Below the toolbar, a green bar displays 'ID: 431-480-470' and a timer '00:02:40'. A red 'Stop Share' button is visible. The background is a landscape image with the text 'PLANNING AND PRACTICES ~ ONLINE COURSE ~'. A blue banner at the bottom reads 'Session 1: Introduction to the Online Course and Adaptation Workbook' and 'Tuesday, January 22, 2019'. A dropdown menu is open from the 'More' button, with a red arrow pointing to the 'Chat' option. The menu items are: Chat (Alt+H), Breakout Rooms, Invite (Alt+I), Record on this Computer (Alt+R), Record to the Cloud (Alt+C), Disable participants annotation, Share computer sound, Optimize Share for Full-screen Video Clip, and End Meeting (Alt+Q).

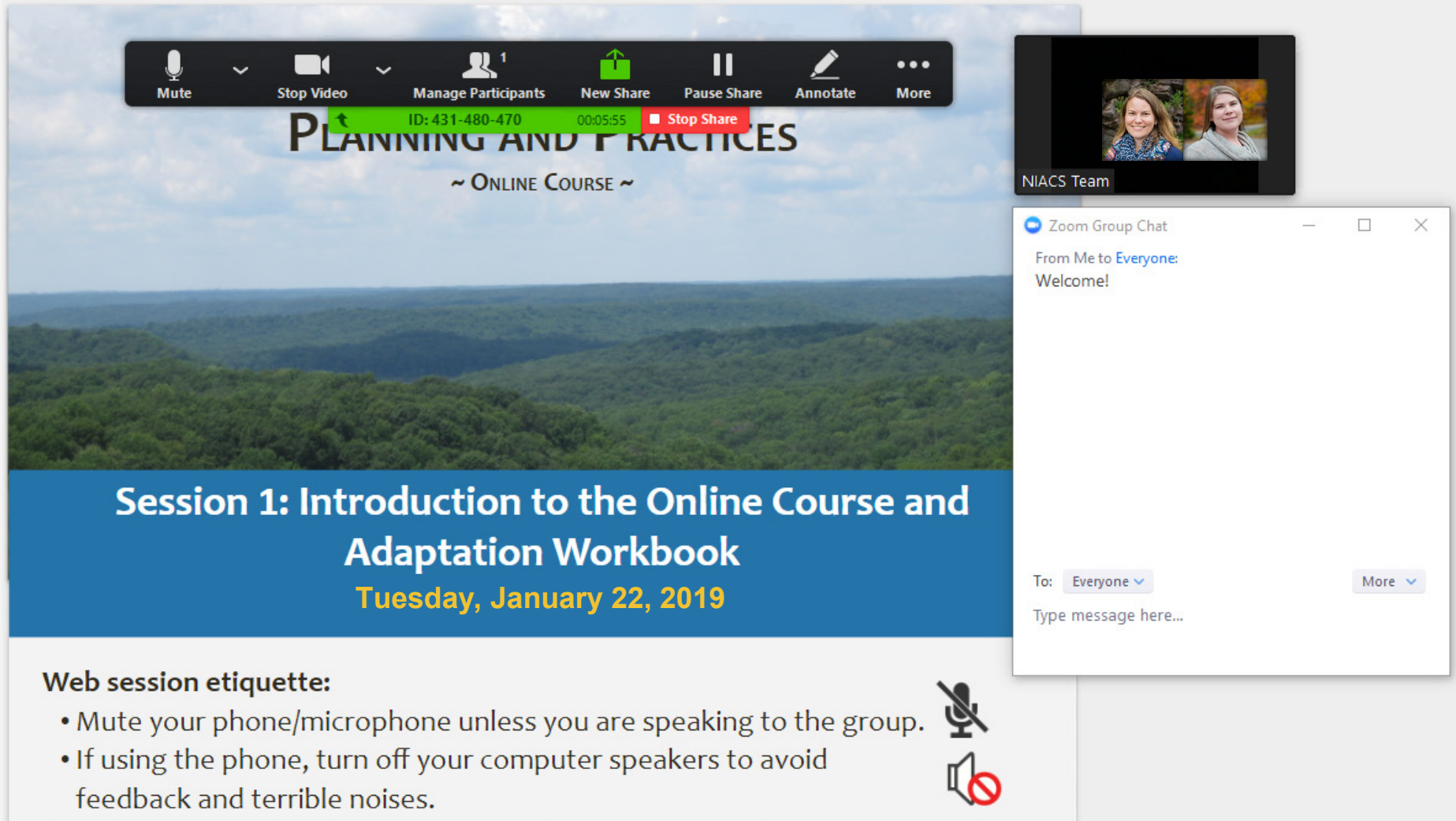
Session 1: Introduction to the Online Course and Adaptation Workbook
Tuesday, January 22, 2019

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What you should see:

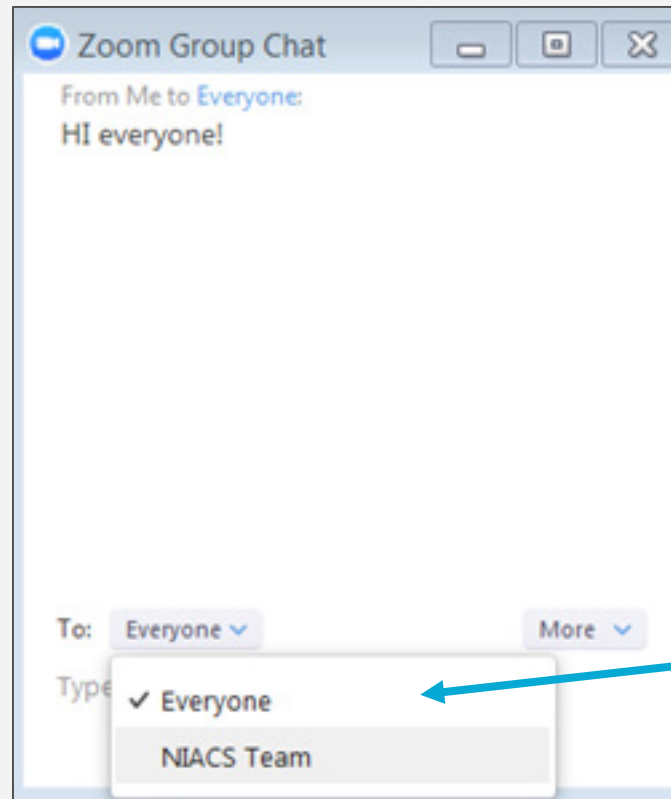


The screenshot displays a Zoom meeting interface. The main video area shows a lush green forest under a blue sky. Overlaid on the top of the video is a black toolbar with icons for Mute, Stop Video, Manage Participants, New Share, Pause Share, Annotate, and More. Below the toolbar, a green bar displays the meeting ID 'ID: 431-480-470' and a timer '00:05:55'. A red 'Stop Share' button is visible. The text 'PLANNING AND PRACTICES' is centered over the video, with '~ ONLINE COURSE ~' below it. A blue banner at the bottom of the video area contains the text 'Session 1: Introduction to the Online Course and Adaptation Workbook' and 'Tuesday, January 22, 2019'. On the right side, there is a small video window showing two participants, labeled 'NIACS Team'. Below that is a 'Zoom Group Chat' window with a message from 'Me' to 'Everyone' saying 'Welcome!'. The chat window has a 'To:' dropdown set to 'Everyone' and a 'More' dropdown. At the bottom left, there is a section titled 'Web session etiquette:' with two bullet points: 'Mute your phone/microphone unless you are speaking to the group.' and 'If using the phone, turn off your computer speakers to avoid feedback and terrible noises.' To the right of the text are icons for a muted microphone and a speaker with a red prohibition sign.

Web session etiquette:

- Mute your phone/microphone unless you are speaking to the group.
- If using the phone, turn off your computer speakers to avoid feedback and terrible noises.

Sending Chats



Try it: send a chat to "Everyone" by typing your Name and organization

Northern Institute of Applied Climate Science



Climate

Carbon

Provides **practical** information, resources, &
technical assistance related to forests and climate
change

Regional multi-institutional partnership among:



Michigan
Technological
University



The
UNIVERSITY
of VERMONT



ncasi

www.nrs.fs.fed.us/niacs

Welcome!



Danielle Shannon

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United States Department of Agriculture
Northern Forests Climate Hub



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Northern Institute of Applied Climate Science

US Forest Service

www.forestadaptation.org



Welcome!

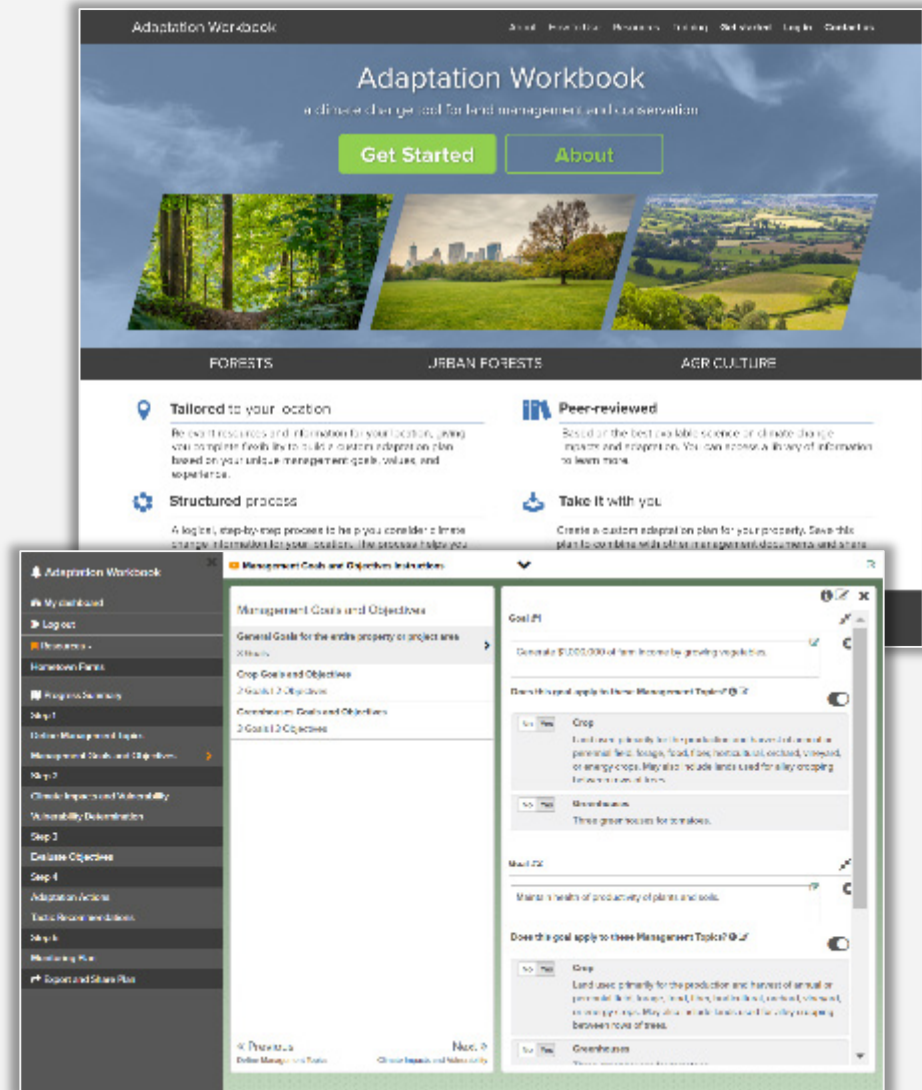
Introduce yourselves!

- Name
- Organization
- Location



Today's Agenda

- Welcome, introductions & overview
- Step 1 introduction & assignment
- Adaptation Workbook tour/demonstration
- Discussion: Share your project ideas



Course Objectives

Integrate climate change considerations into real-world projects for forest management and conservation

- Identify local climate change impacts, challenges, and opportunities
- Develop specific actions to adapt to changing conditions
- Create your own “climate-informed” projects
- Better communicate with stakeholders
- Plus: Access post-training support from NIACS staff during project planning and implementation

Course Expectations

- Attend all 7 lecture sessions and all 6 discussion sessions
 - Let us know as soon as possible if you must miss a course
 - Try to have at least one person from your project at each session
 - You will only receive CFEs for classes you attend.



JANUARY

Session 1: Lecture
Session 2: Discussion, Lecture



FEBRUARY

Session 3: Discussion, Lecture
Session 4: Discussion, Lecture
Session 5: Discussion, Lecture
Session 6: Discussion, Lecture



MARCH

Session 7: Discussion, Lecture
PLUS Additional assistance to
complete and share projects
as requested

Course Expectations

- Complete all homework by the deadline: **Sunday** night before the next class
 - If you know you'll be busy later on, work ahead!

The screenshot displays the 'Adaptation Workbook' interface. On the left is a dark sidebar with a navigation menu. The main content area is titled 'Homework 1' and contains several sections for user input and a rating scale.

Adaptation Workbook

- My dashboard
- Log out
- Resources +
- Chicago project
- Progress Summary
- Step 1
 - Define Management Topics
 - Management Goals and Objectives
 - Homework 1**
- Step 2
 - Climate Impacts and Vulnerability
 - Vulnerability Determination
- Homework 2
- Step 3
 - Evaluate Objectives
- Homework 3
- Step 4
 - Adaptation Actions
 - Tactic Recommendations

Homework 1

What is your project, and what are the management goals and objectives for your project area? (Summarize in a short paragraph)

What is your project, and what are the management goals and objectives for your project area? (Summarize in a short paragraph)

Rate your pre-course level of knowledge or familiarity with climate adaptation, by how strongly you agree/disagree with the following statements:

	Low				High
I understand the potential local impacts of climate change on the lands that I manage.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can explain how climate change may affect my ability to achieve management objectives.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can identify viable climate change adaptation strategies that can be applied to my local area.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can translate broad adaptation strategies to actionable adaptation tactics in my local area.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can identify monitoring metrics to assess the effectiveness of my management tactics.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

The topic(s) I'm most interested in learning from this online training is (are)...

The topic(s) I'm most interested in learning from this online training is (are)...

The reason(s) I signed up for this training to incorporate climate change adaptation into my management planning is (are)...

The reason(s) I signed up for this training to incorporate climate change adaptation into my management planning is (are)...

Introduce yourself in a short video. Go to <https://flipgrid.com/8f2b6d> or use the code 8f2b6d in a flipgrid phone app. Note when you completed this task here.

Introduce yourself in a short video. Go to <https://flipgrid.com/8f2b6d> or use the code 8f2b6d in a flipgrid phone app. Note when you completed this task here.

« Previous
Management Goals and Objectives

Next »
Climate Impacts and Vulnerability

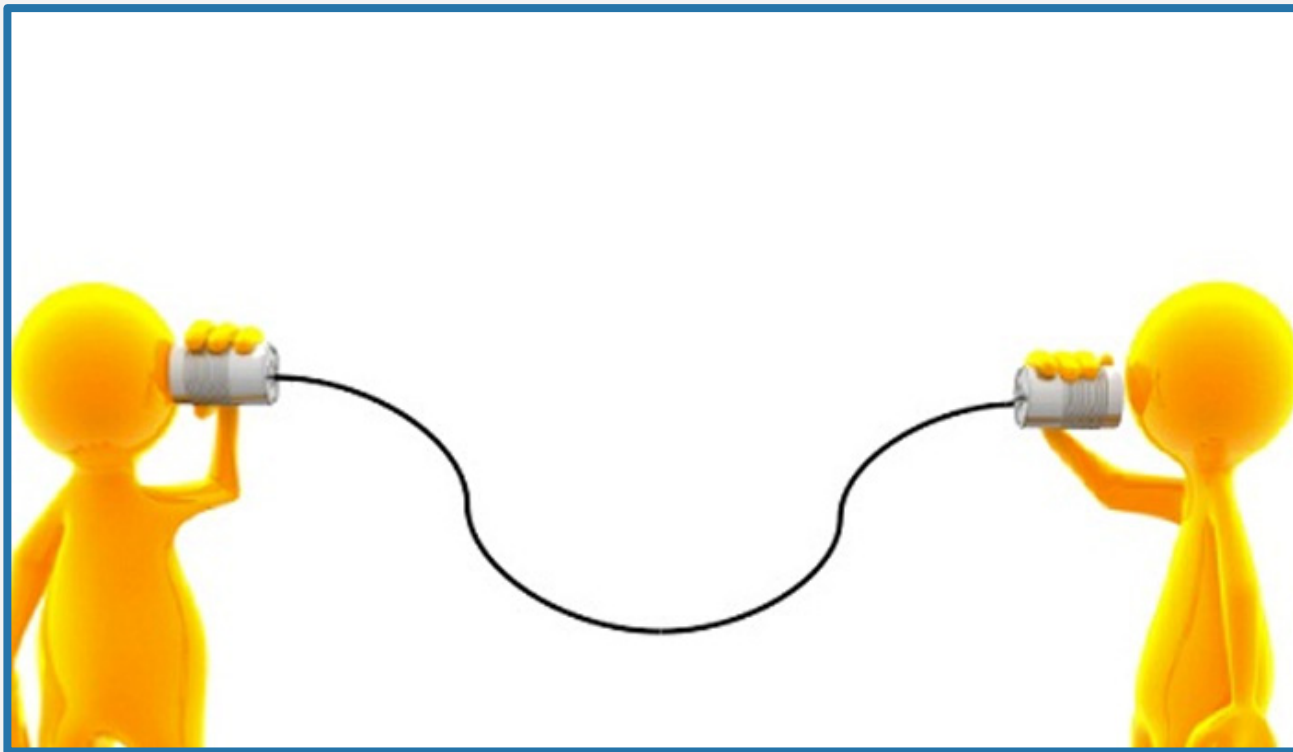
Course Expectations

- Be fully engaged in the course
 - close your email
 - mute your cell phone
 - shut your door or put up a sign that says “I’m in class” at your cube



Course Expectations

- Collaborate with your classmates
- Share your ideas and struggles

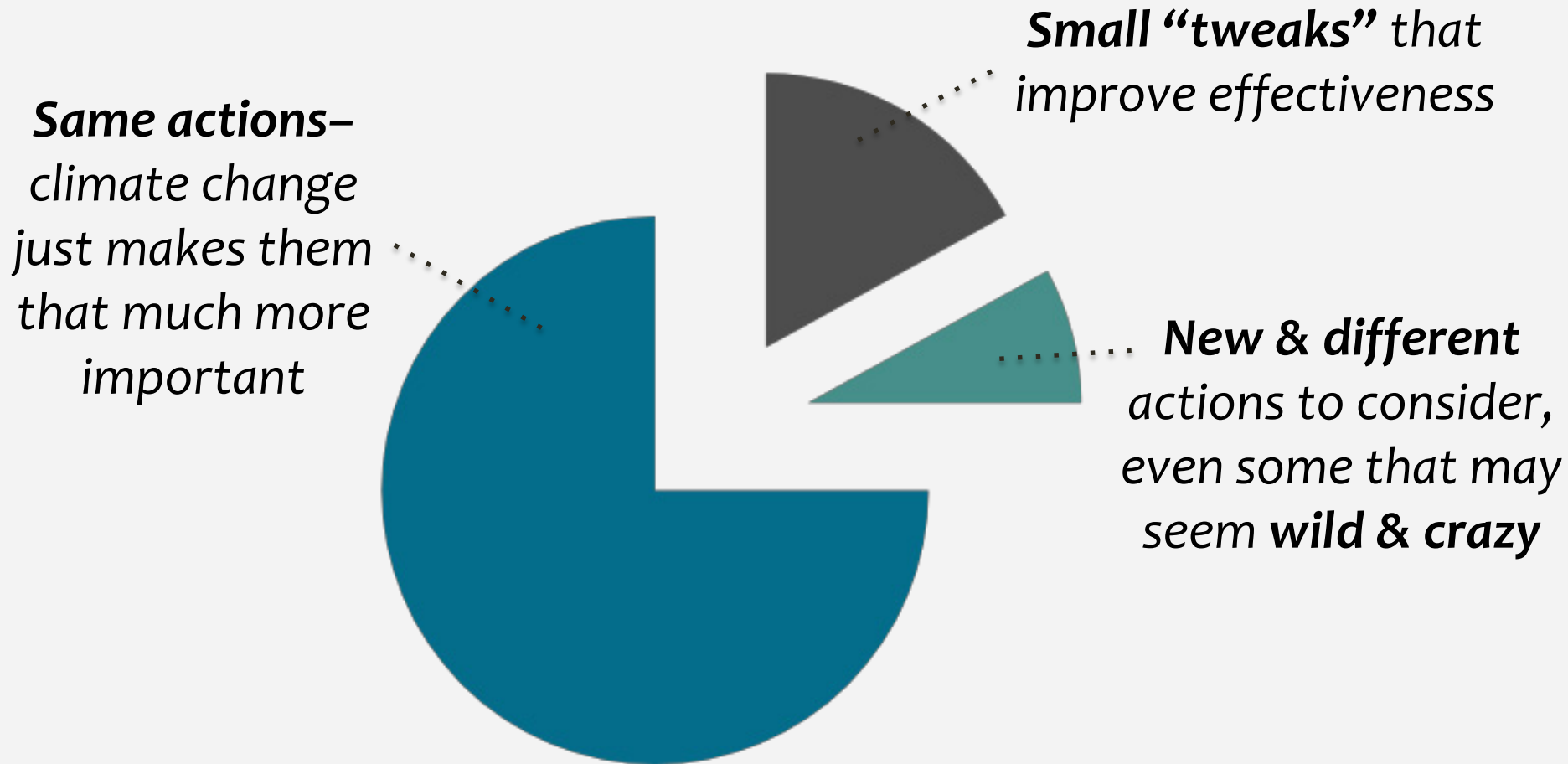


QUESTIONS?

Defining “Adaptation”

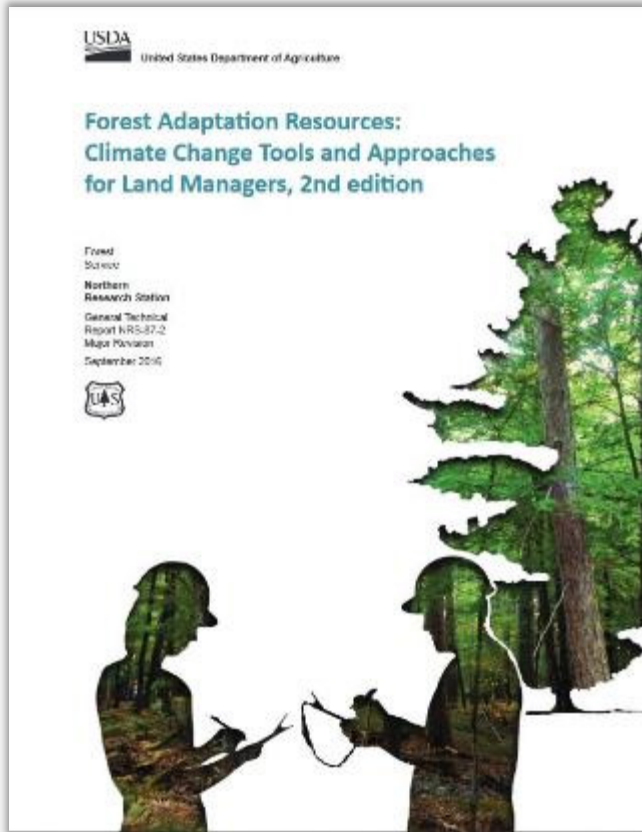
Adaptation actions are designed to specifically address climate change impacts and vulnerabilities in order to meet climate-informed goals and objectives.

Adaptation Actions Can Be...



**individual results will vary*

Forest Adaptation Resources



Swanston et al. 2016;
www.nrs.fs.fed.us/pubs/52760

Strategies & Approaches

Menu of adaptation actions

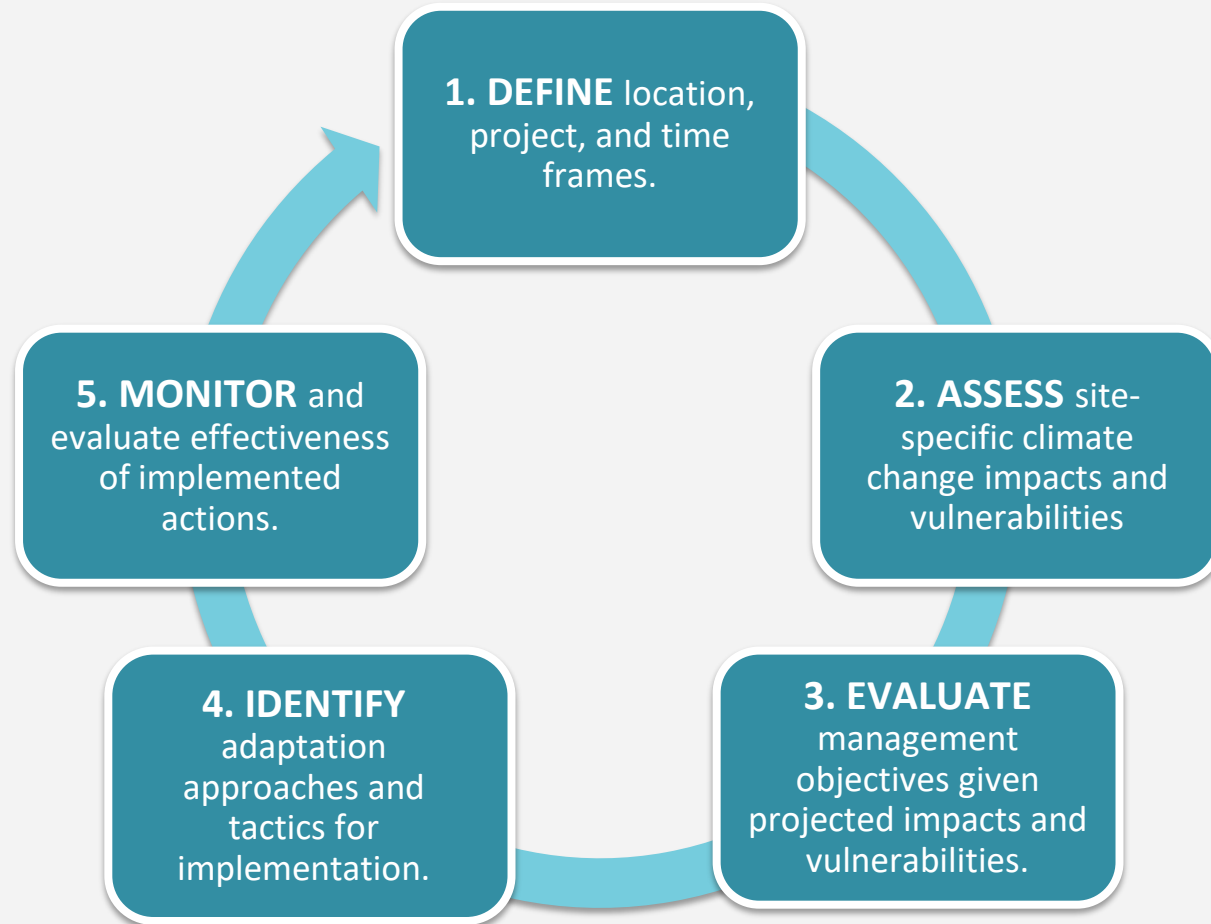


Adaptation Workbook

- Structured process to integrate climate change considerations into management
- Workbook approach

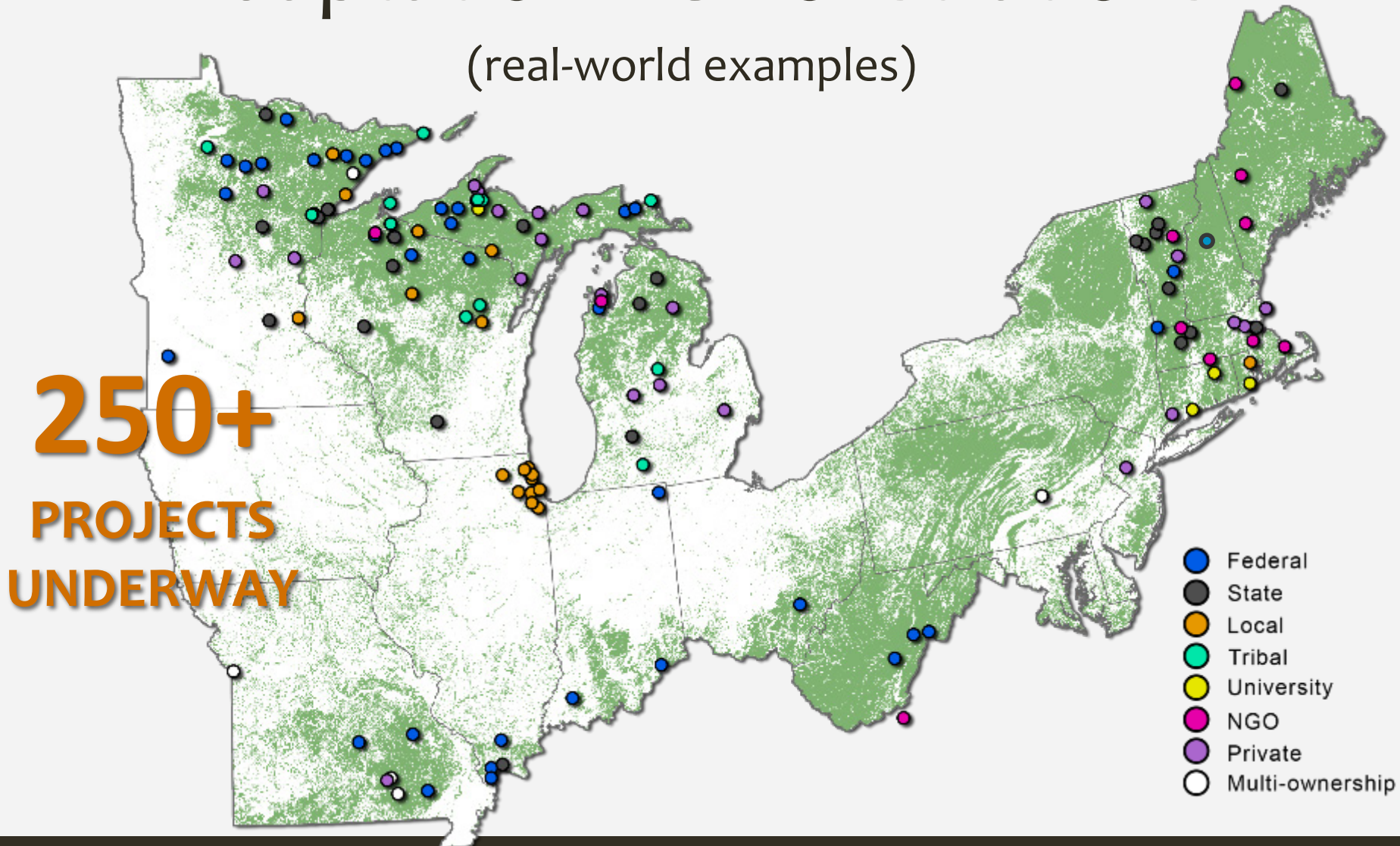


Adaptation Workbook Process



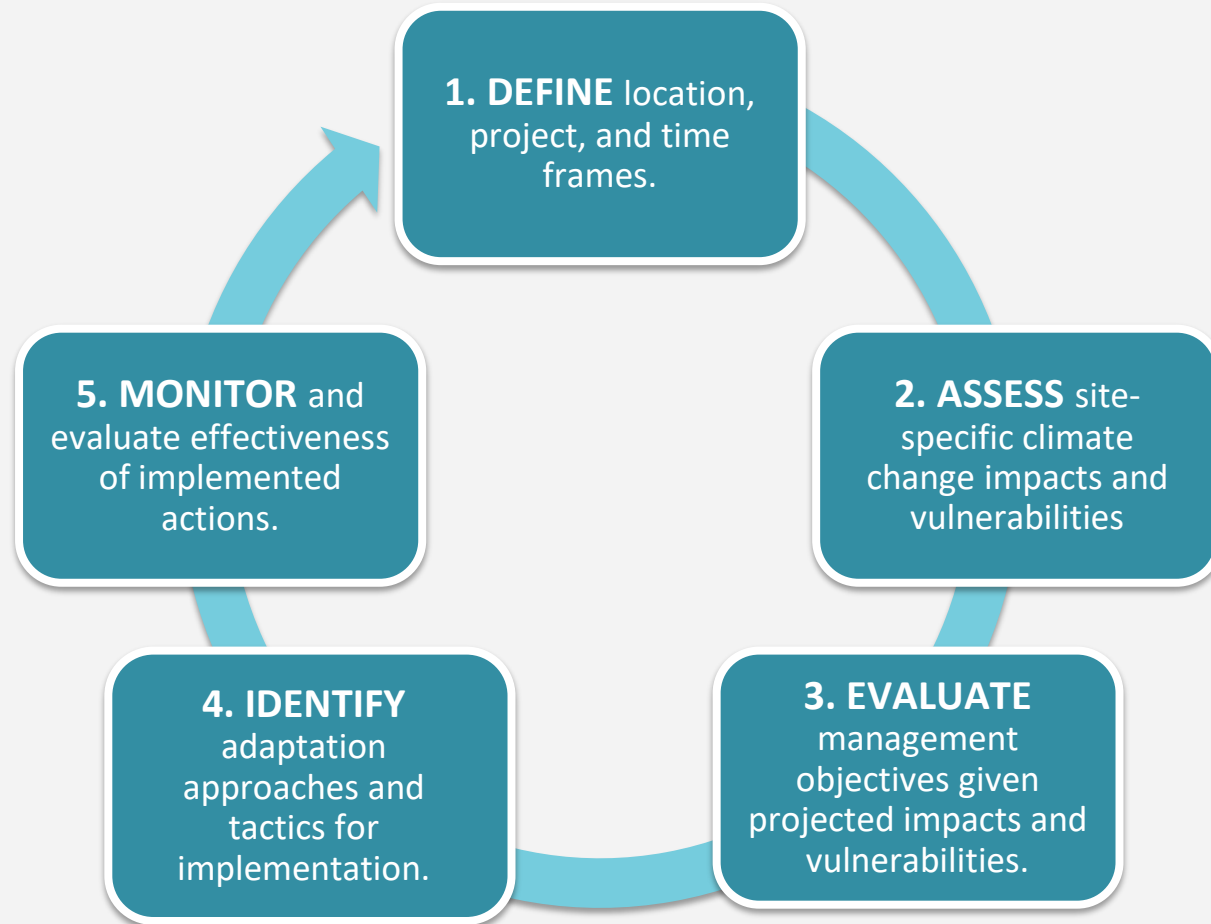
Adaptation Demonstrations

(real-world examples)



www.forestadaptation.org/demos

Adaptation Workbook Process



QUESTIONS?

Step 1: DEFINE location, project, and time frames.

Key Question:

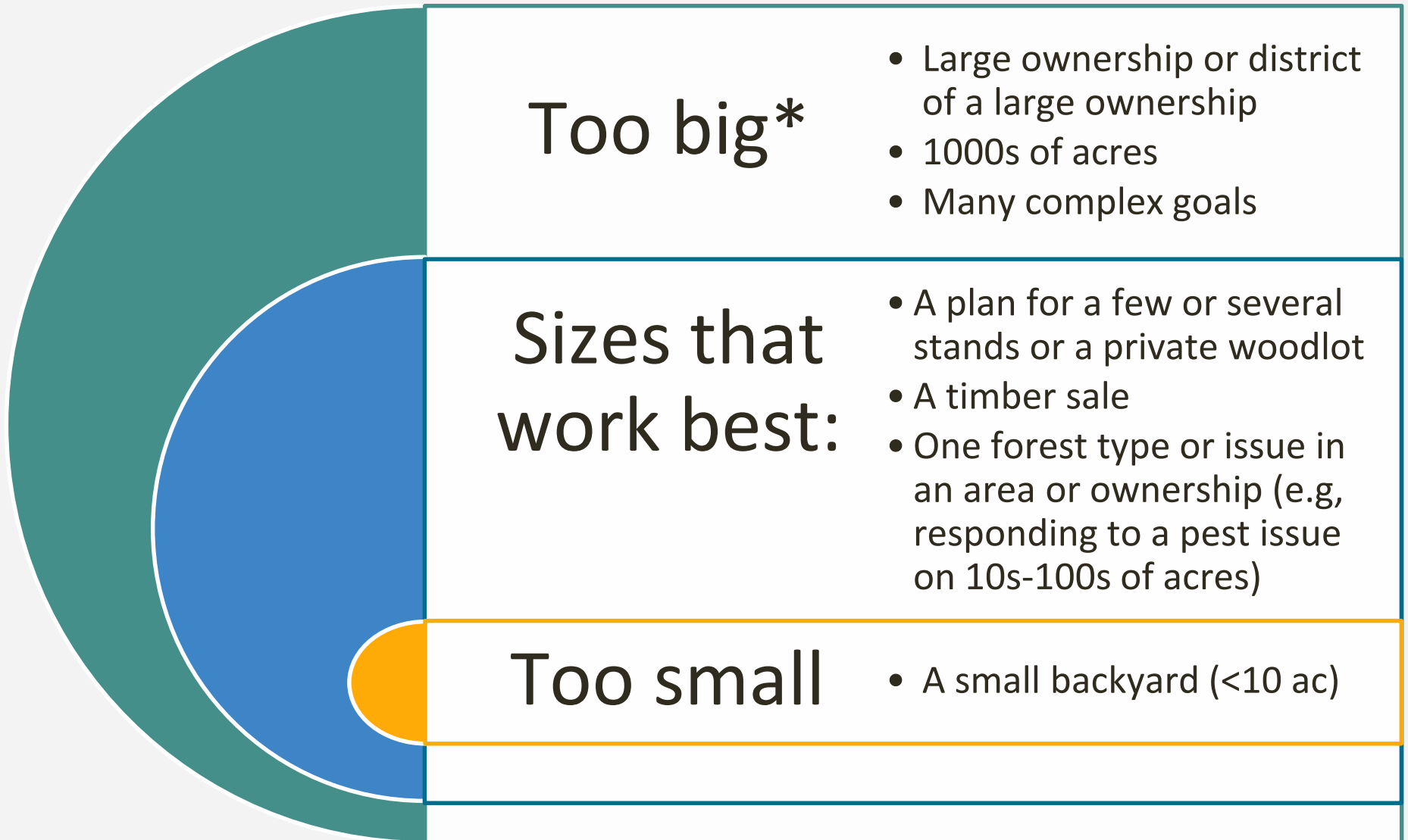
- Where are you working?
- What are your management goals and objectives for this area?

Step 1: DEFINE location, project, and time frames.

- Real-world project:
- A project that you're currently working on:
 - On your desk (and on your mind)
 - Something that will need additional consideration



Step 1: DEFINE location, project, and time frames.



*These projects are too big to complete within this time available within this course, but the Adaptation Workbook process can be applied at larger scales with more time and some additional assistance. Ask us for details...

Step 1.1: Define management topics.

Forest Type or Management Topic – Land uses or management topics that are relevant to your project area.

Pre-defined Forest Types

- Based on the same definitions used in the vulnerability assessment

Custom Forest Types or Management Topic

- Forest type not shown
- Management topic: e.g., “Wood turtle habitat” or “Areas affected by hemlock woolly adelgid” or “invasive species.”

Step 1.2: Define management goals & objectives.

Management Goal—broad, general statements, usually not quantifiable, that express a desired state or process to be achieved

- Have at least 1 goal for each forest type/management topic.

Step 1.2: Define management goals & objectives.

Management Objective—concise statements of measurable planned results that correspond to pre-established goals in achieving a desired outcome

- You can have multiple objectives for each goal or 1 objective for each goal
- Try to have at least 3 and no more than 12 objectives for your whole project.

Objectives Should be SMART

Specific

Measurable

Achievable

Relevant

Time bound

Step 1.2: Define management goals & objectives.

Example:

Management Goal	Management Objective	Time Frame
▪ Increase species diversity	▪ Have no more than 20 percent of a family, 10 percent of a genus and 5 percent of a species across all street trees	25 years
▪ Increase canopy cover	▪ Increase % canopy from 20% to 30%	20 years
▪ Reduce invasive species cover	▪ Reduce area covered by invasive buckthorn from 10% to no more than 5%	10 years
▪ Improve water quality	▪ Stabilizing 50 feet of eroding banks	5 years

Things to Keep in mind

- If possible, use goals/objectives you ALREADY have.
- These DO NOT need to be related to climate change (that comes later)
- Goals/objectives can be area-wide or specific to a particular topic or land use.
- The more specific your objectives are, the better.

QUESTIONS?

Workbook Tutorial

[Adaptation Workbook](#)[About](#)[How to Use](#)[LMS](#)[Resources](#)[Training](#)[My Workbook](#)[Log Out](#)[Contact](#)

Adaptation Workbook

a climate change tool for land management and conservation

[Use Workbook](#)[About](#)



FORESTS**URBAN FORESTS****AGRICULTURE**



Tailored to your location

Relevant resources and information for your location, giving you complete flexibility to build a custom adaptation plan based on your unique management goals, values, and experience.



Peer-reviewed

Based on the best available science on climate change impacts and adaptation. You can access a library of information to learn more.



Structured process

A logical, step-by-step process to help you consider climate change information for your location. The process helps you capture your thinking and align your goals to adaptation actions.



Take it with you

Create a custom adaptation plan. Save this plan to combine with other management documents and share with your colleagues.

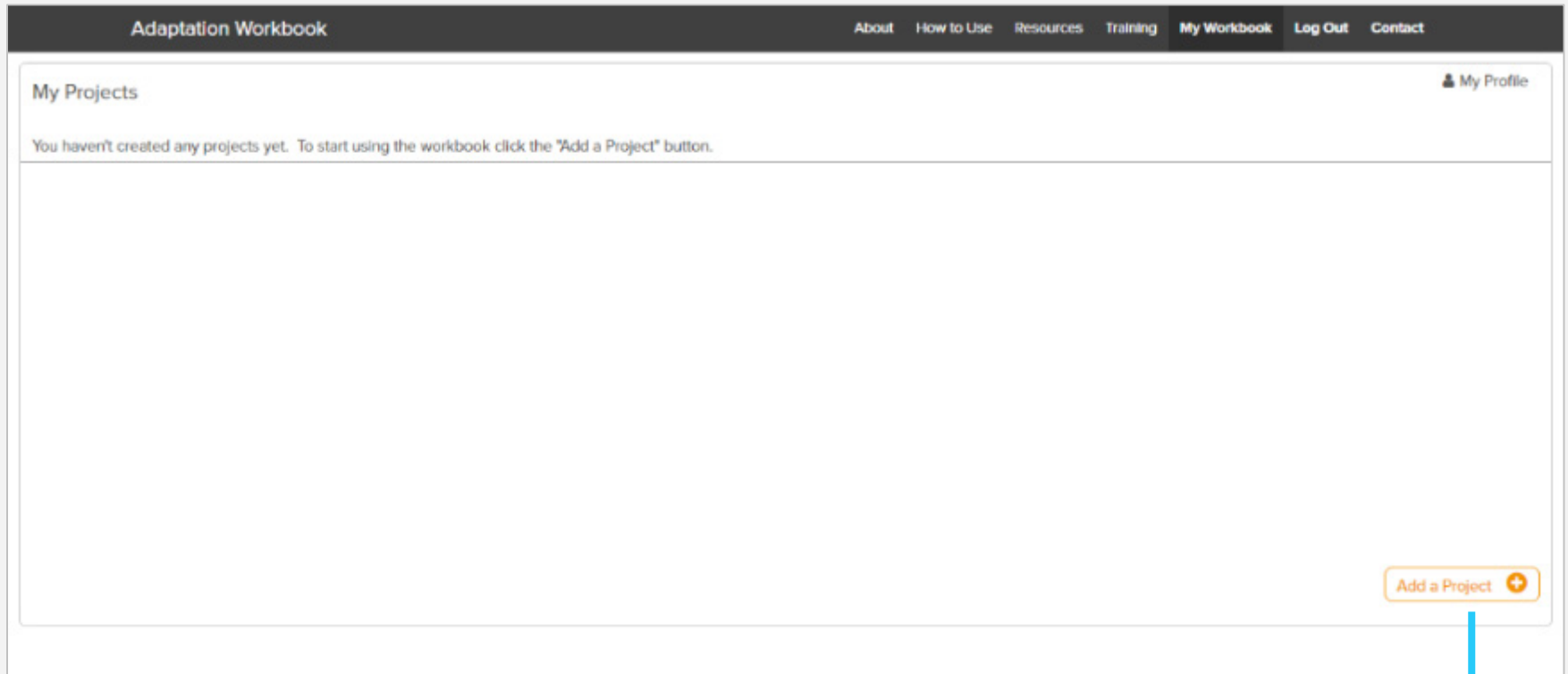


Northern Institute of Applied Climate Science

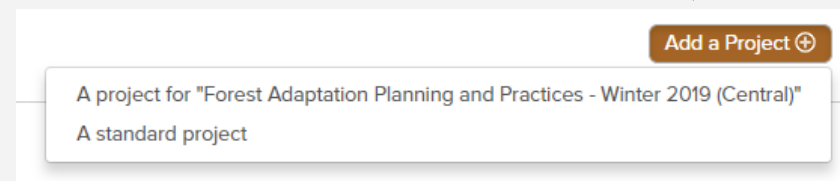
[Terms and Conditions](#) | [Privacy Policy](#) | [Contact](#)

Step 1: DEFINE location, project, and time frames.

Project Dashboard:



Be sure to select: **A Project for “Forest Adaptation Planning and Practices – Winter 2019 (Central)”**



Step 1: DEFINE location, project, and time frames.

Location:

- Click to drop a pin
- Click and hold to drag it into position

Location

Click on the map to drop a marker that indicates the center of your property or project area. After the marker is placed on the map, you can click and hold to drag the marker to a new location.

Map Satellite

United States

zoom

Details

Name Give your project a short, recognizable name.

Description Provide a short description of the project here. You can add details about whether you're using the Adaptation Workbook to consider only a portion of a single property, an entire property, a collection of properties, or a larger landscape. You also might want to note whether the property has an existing management plan, for example.

Acres How large is your project?

Size

Ownership

Project Type ☒ Forest ☐ Urban ☐ Agriculture

Cancel OK

Workbook Dashboard

Adaptation Workbook

AboutHow to UseResourcesTrainingMy WorkbookLog OutContact

My Projects

My Profile

Buffam Brook Community Forest

Created January 5, 2018 | Last edited January 5, 2018

Sugar Hills Demonstration Project

Created January 28, 2015 | Last edited September 7, 2017

Kucera Farm

Created January 4, 2017 | Last edited September 7, 2017

Adaptation Workbook Tutorial

Created January 26, 2017 | Last edited January 27, 2017

Menominee Oak Wilt Project

Created January 28, 2015 | Last edited January 25, 2017

Lambert Restoration Project

Created January 28, 2015 | Last edited November 30, 2016

Iowa


Created October 20, 2016 | Last edited October 20, 2016

Jerktail Mountain

Created January 28, 2015 | Last edited February 6,

Add a Project

Buffam Brook Community Forest



Go to Workbook

Edit project details

View course materials

Delete this project

Ownership: Municipal

Acres: 161

Kestrel Land Trust: Buffam Brook Community Forest The Town of Pelham Conservation Commission and Kestrel Land Trust are developing a forest stewardship plan for a new community forest, integrating climate change into forest management activities.

Start Workbook

Course Materials

Welcome screen

Welcome to the Adaptation Workbook

Welcome to the Forest Adaptation Planning and Practices online course!

This course is designed to help you consider climate change information and identify adaptation actions using your own real-world management or conservation project. This online Adaptation Workbook will help you step through a structured process for considering climate change impacts, challenges, and opportunities for your project area. We will use a combination of individual work time (using this Workbook) followed by online classroom sessions to provide you with information and resources for integrating climate change information into your work.

Example Adaptation Projects

As you complete this course, we also encourage you to spend a little time reviewing a few other adaptation projects to get a sense for how the overall process will come together. More than 100 adaptation demonstration projects are featured on the [Climate Change Response Framework website](#). Additionally, the following short videos highlight the outcomes from a few unique projects:

- [Climate-informed forest restoration in Florence County, WI](#)
- [Spruce grouse habitat on Chequamegon-Nicolet National Forest](#)
- [Responding to oak wilt on the Menominee Forest](#)

☐ Don't show this again.

Get Started

- [Climate-informed forest restoration in Florence County, WI](#)
- [Spruce grouse habitat on Chequamegon-Nicolet National Forest](#)
- [Responding to oak wilt on the Menominee Forest](#)

Need help?

Contact your instructors for assistance: [Maria Janowiak](#) (906-482-6303 x29) or [Todd Ontl](#) (906-482-6303 x24).

Alternatively, you can also consult the [Getting Started Guide](#).



Next »

Define Management Topics

Progress Summary Page

✦ Adaptation Workbook

🏠 My dashboard

🔑 Log out

📁 Resources ▾

Buffam Brook Community Forest

📖 Progress Summary >

Step 1

Define Management Topics

Management Goals and Objectives

Homework 1

Step 2

Climate Impacts and Vulnerability

Vulnerability Determination

Homework 2

Step 3

Evaluate Objectives

Homework 3

Step 4

Adaptation Actions

📄 Progress Summary instructions ▾

📅 Course agenda and notes

Class Sessions

Class sessions are held weekly on Fridays at 1:00-2:30pm Eastern using an online Adobe Connect meeting room.
URL: <https://usfs.adobeconnect.com/forestadaptation/>
Phone: 888-844-9904, access code: 6657648

- Session 1 (January 20) — Introduction to the Online Course and Adaptation Workbook — [Session 1 slides](#) now available!
- Session 2 (January 27) — Understanding and Evaluating Climate Change Vulnerabilities — [Session 2 slides](#) now available!
- Session 3 (February 3) — Evaluating Management Challenges and Opportunities — [Session 3 slides](#) now available!
- Session 4 (February 10) — Identifying Adaptation Strategies, Approaches and Tactics — [Session 4 slides](#) now available!
- Session 5 (February 17) — Monitoring and Evaluating Effectiveness
- Session 6 (February 24) — Telling your Adaptation Story, Part 1
- Session 7 (March 3) — Telling your Adaptation Story, Part 2

Course participants are expected to attend all class sessions. Contact an instructor if you have any potential conflicts.

Example Adaptation Projects

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⬆️ Click to collapse

Next »
Define Management Topics

Progress Summary Page

Adaptation Workbook

My dashboard

Log out

Resources ▾

Buffam Brook Community Forest

Progress Summary >

Step 1

Define Management Topics

Management Goals and Objectives

Homework 1

Step 2

Climate Impacts and Vulnerability

Vulnerability Determination

Homework 2

Step 3

Evaluate Objectives

Homework 3

Step 4


Adaptation Actions

Tactic Recommendations

Progress Summary instructions ▾

Course agenda and notes ▾ [Click to expand](#)


Progress summary for Buffam Brook Community Forest

Step 1. DEFINE areas of interest, management goals and objectives. 


0 Management Topics | 0 Goals

Step 2. ASSESS climate change impacts and vulnerabilities for the area of interest.


Identified 20 Potential Climate Impacts | Determined 0 of 0 vulnerabilities

Step 3. EVALUATE management objectives given projected impacts and vulnerabilities. 

0 of 0 objectives evaluated

Step 4. IDENTIFY adaptation approaches and tactics for implementation. 


0 tactics apply to 0 objectives


Step 5. MONITOR and evaluate effectiveness of implemented actions. 


0 of 0 objectives have monitoring variables


Next »

Define Management Topics

Define Management Topics 

 0 Management Topics

Management Goals and Objectives 

 0 Goals

Management Topic

Progress Summary Page

Left Panel

Minimize
left panel

Middle Panel

Right Panel

The screenshot displays the 'Progress Summary' page for the 'Buffam Brook Community Forest'. The interface is divided into three main sections: a left sidebar, a central content area, and a right sidebar.

Left Panel (Navigation Menu):

- Adaptation Workbook
- My dashboard
- Log out
- Resources ▾
- Buffam Brook Community Forest
- Progress Summary >
- Step 1
 - Define Management Topics
 - Management Goals and Objectives
 - Homework 1
- Step 2
 - Climate Impacts and Vulnerability
 - Vulnerability Determination
 - Homework 2
- Step 3
 - Evaluate Objectives
 - Homework 3
- Step 4
 - Adaptation Actions

Middle Panel (Main Content):

Progress Summary instructions (dropdown arrow)

Course agenda and notes (dropdown arrow)

Progress summary for Buffam Brook Community Forest

Step 1. DEFINE areas of interest, management goals and objectives. (Warning icon, Arrow icon)
0 Management Topics | 0 Goals

Step 2. ASSESS climate change impacts and vulnerabilities for the area of interest.
Identified 20 Potential Climate Impacts | Determined 0 of 0 vulnerabilities

Step 3. EVALUATE management objectives given projected impacts and vulnerabilities. (Warning icon)
0 of 0 objectives evaluated

Step 4. IDENTIFY adaptation approaches and tactics for implementation. (Warning icon)
0 tactics apply to 0 objectives

Step 5. MONITOR and evaluate effectiveness of implemented actions. (Warning icon)
0 of 0 objectives have monitoring variables

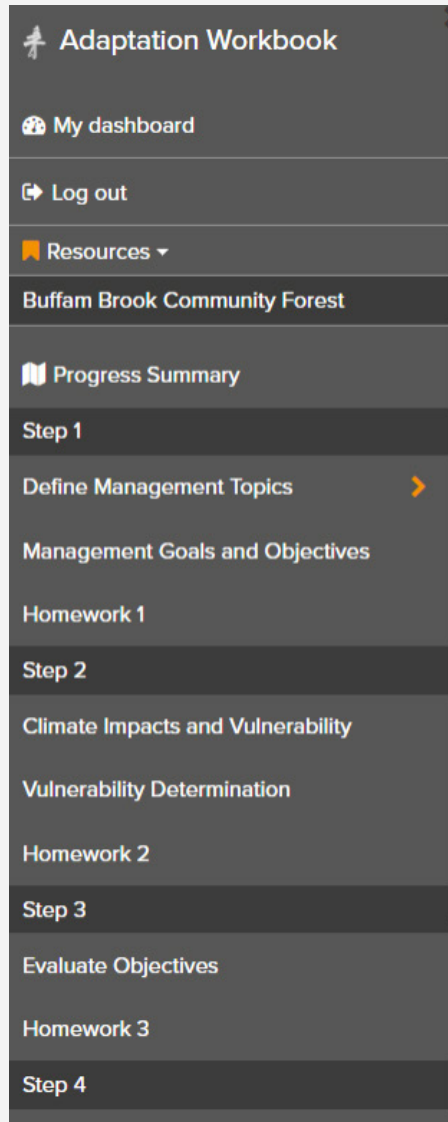
Go to step 1. (Annotation with arrow pointing to Step 1)

Next >> (Button)
Define Management Topics

Right Panel (Task List):

- Define Management Topics** (Close icon, Maximize icon)
(Warning icon) 0 Management Topics
- Management Goals and Objectives** (Maximize icon)
(Warning icon) 0 Goals
- Management Topic**

Step 1.1: Define management topics.



Adaptation Workbook

My dashboard

Log out

Resources ▾

Buffam Brook Community Forest

Progress Summary

Step 1

Define Management Topics >

Management Goals and Objectives

Homework 1

Step 2

Climate Impacts and Vulnerability

Vulnerability Determination

Homework 2

Step 3

Evaluate Objectives

Homework 3

Step 4

Step 1.1: Define your forest types or management topics

The Adaptation Workbook is designed to help you consider how climate change might influence your unique management goals and objectives. To help you organize your information, Step 1.1 asks you to create some general categories, such as forest types, ecosystems, or custom management topics. In Step 1.2, you will set specific goals and objectives for each category.

The Workbook may have suggested several possible forest types or ecosystems for you based your property location. You can keep or remove any of these pre-defined categories, depending on what vegetation occurs on your property.

If there are different management topics that are important to your goals, or if your property includes ecosystems, habitats, or other features that are not included in the pre-defined forest types, **you can create your own categories by selecting the "custom" option at the bottom of the page.** Create any categories you like, as long as they have distinct management goals and objectives you want to consider throughout the rest of the Workbook.

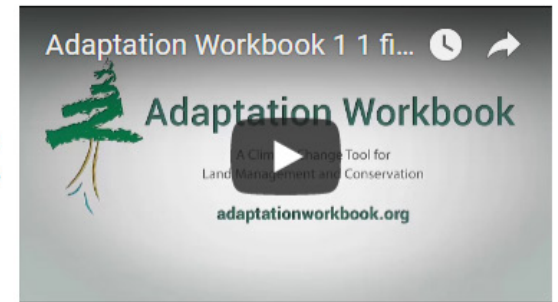
For example:

You might create categories like "White Spruce Plantations" or "Grouse Habitat Improvement" or "Pioneer Creek Riparian Area."



Define Management Topics Resources

- Hover to learn more about a particular item
- Expand/collapse a section
- Click to add a comment or specific information about your project area



« Previous

Next »

Step 1.1: Define management topics.

The screenshot displays the 'Adaptation Workbook' interface. On the left is a dark sidebar with navigation links: 'My dashboard', 'Log out', 'Resources', 'Buffam Brook Community Forest', 'Progress Summary', 'Step 1' (highlighted), 'Define Management Topics' (with an orange arrow), 'Management Goals and Objectives', 'Homework 1', 'Step 2', 'Climate Impacts and Vulnerability', 'Vulnerability Determination', 'Homework 2', 'Step 3', 'Evaluate Objectives', 'Homework 3', 'Step 4', and 'Adaptation Actions'. The main content area is titled 'Define Management Topics instructions' and contains a section for 'Step 1 Course Materials'. A blue arrow points from the text 'Step 1 course materials' to this section. The 'Step 1 Course Materials' section includes a paragraph about the first class session on January 20, a bulleted list of tasks (selecting a project, assembling materials, and perusing resources), a link to 'Review Session 1 slides', and a deadline for Session 2 preparation on Thursday, January 26. Below this is a link for technical issues. At the bottom, a 'Transition hardwood' section is partially visible with a button to 'Add a custom Forest Type or Management Topic'. Navigation buttons for 'Previous' and 'Next' are at the very bottom.

Adaptation Workbook

- My dashboard
- Log out
- Resources ▾
- Buffam Brook Community Forest
- Progress Summary
- Step 1**
- Define Management Topics ➤
- Management Goals and Objectives
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- Evaluate Objectives
- Homework 3
- Step 4
- Adaptation Actions

Define Management Topics instructions

Step 1 Course Materials

The first class session will be on **January 20 at 1:00-2:30 pm**. Before then, you may want to:

- Select a forest or natural resource management project to use for the training.
- Assemble relevant materials and information your project (maps, inventory information, fact sheets, management plans, easement documents, etc.) for use during the course.
- Peruse the [Forest Adaptation Resources, 2nd edition](#), in particular the **Introduction** (pgs. 1-9) and the **Adaptation Workbook** (Chapter 5, pgs. 74-89).

Review Session 1 slides

Prior to Session 2, complete the following by **Thursday, January 26 at 5:00 pm**:

- Step 1 of the Adaptation Workbook
- Homework section following Step 1
- Review regional climate impacts to prepare for Step 2 by watching a [recorded presentation](#) or reading the report [Changing Climate, Changing Forests](#).

If you encounter technical issues with the Workbook or have suggestions for improvements, send us an email using [this link](#).

Transition hardwood

Add a custom Forest Type or Management Topic

« Previous Next »

Progress Summary Management Goals and Objectives

Step 1.1: Define management topics.

Describe how your project is organized:

- Forest type: Northern hardwood, Pitch pine-Scrub oak
- Management topics: wildlife habitat, HWA response

The screenshot shows the 'Adaptation Workbook' interface. On the left is a dark sidebar with navigation links: 'Adaptation Workbook', 'My dashboard', 'Log out', 'Resources', 'Buffam Brook Community Forest', 'Progress Summary', 'Step 1' (highlighted), 'Define Management Topics' (with an orange arrow), 'Management Goals and Objectives', 'Homework 1', 'Step 2', 'Climate Impacts and Vulnerability', 'Vulnerability Determination', and 'Homework 2'. The main content area has a header with 'Define Management Topics instructions' and 'Step 1 Course Materials'. Below this is a section titled 'Define Forest Types or Management Topics' with a list of pre-loaded options: 'Northern hardwood', 'Central hardwood-pine', 'Lowland and riparian forest', 'Low-elevation spruce-fir', 'Lowland mixed conifer', 'Montane spruce-fir', 'Pitch pine-scrub oak', and 'Transition hardwood'. Each option has a plus icon to its right. At the bottom of this list is a button that says 'Add a custom Forest Type or Management Topic'. To the right of this list is a text input field labeled 'My property or project area'. Two blue arrows point to the interface: one points to the list of pre-loaded forest types with the text 'Forest types are pre-loaded for your convenience. These come with climate change information for use in later steps. Click “+” to use them.', and the other points to the 'Add a custom...' button with the text 'Or, you can create your own forest types or management topics'.

Adaptation Workbook

My dashboard

Log out

Resources

Buffam Brook Community Forest

Progress Summary

Step 1

Define Management Topics

Management Goals and Objectives

Homework 1

Step 2

Climate Impacts and Vulnerability

Vulnerability Determination

Homework 2

Define Management Topics instructions

Step 1 Course Materials

Define Forest Types or Management Topics

Forest Types or Management Topics in this region

- Northern hardwood
- Central hardwood-pine
- Lowland and riparian forest
- Low-elevation spruce-fir
- Lowland mixed conifer
- Montane spruce-fir
- Pitch pine-scrub oak
- Transition hardwood

Add a custom Forest Type or Management Topic

My property or project area

Forest types are pre-loaded for your convenience. These come with climate change information for use in later steps. Click “+” to use them.

Or, you can create your own forest types or management topics

Step 1.1: Define management topics.

Describe how your project is organized:

- Forest type: Northern hardwood, Pitch pine-Scrub oak
- Management topics: wildlife habitat, HWA response

Add a custom **Forest Type** or **Management Topic**

Custom Management Topic

Title

Describe your custom land-use category or management topic here. You can attach supporting documents or references using the Add a Link button below.

Add a link

Save

Step 1.2: Define management goals & objectives.

The screenshot displays the 'Adaptation Workbook' interface. The sidebar on the left contains the following navigation items: 'My dashboard', 'Log out', 'Resources', 'Buffam Brook Community Forest', 'Progress Summary', 'Step 1', 'Define Management Topics', 'Management Goals and Objectives' (highlighted with an orange arrow), 'Homework 1', 'Step 2', 'Climate Impacts and Vulnerability', 'Vulnerability Determination', 'Homework 2', 'Step 3', 'Evaluate Objectives', 'Homework 3', 'Step 4', and 'Adaptation Actions'.

The main content area is titled 'Management Goals and Objectives instructions' and 'Step 1 course materials'. It features a list of goal categories on the left and a large empty box on the right for adding goals.

- General Goals for the entire property or project area** (1 Goals) - Indicated by a blue arrow labeled 'General goals'.
- Transition hardwood Goals and Objectives** (1 Goals | 0 Objectives) - Indicated by a blue arrow labeled 'Goals for specific forest types or management topics'.
- Invasive species issues Goals and Objectives** (0 Goals | 0 Objectives) - Indicated by a blue arrow labeled 'Goals for specific forest types or management topics'.

The large empty box on the right has a button labeled 'Add Another Goal/Objective Set' with a plus icon. At the bottom of the main content area, there are navigation links: '« Previous Define Management' and 'Next » Homework 1'.

Step 1.2: Define management goals & objectives.

Adaptation Workbook

- My dashboard
- Log out
- Resources ▾
- Buffam Brook Community Forest
- Progress Summary
- Step 1
 - Define Management Topics
 - Management Goals and Objectives** >
 - Homework 1
- Step 2
 - Climate Impacts and Vulnerability
 - Vulnerability Determination
 - Homework 2
- Step 3
 - Evaluate Objectives
 - Homework 3
- Step 4
 - Adaptation Actions

Management Goals and Objectives instructions

Step 1 course materials

Management Goals and Objectives

- General Goals for the entire property or project area** > 1 Goals
- Transition hardwood Goals and Objectives** ⚠ 1 Goals | 0 Objectives
- Invasive species issues Goals and Objectives** ⚠ 0 Goals | 0 Objectives

Goal #1

Identify and pursue opportunities for a working forest providing a sustainable wood supply.

Does this goal apply to these Forest Types or Management Topics?

Transition hardwood

These forests are transitional between central hardwood and northern hardwood forests. Common species may include sugar maple, yellow birch, American beech, eastern hemlock, white pine, red maple, and red oak.

Invasive species issues

Property-wide consideration of invasive species issues.

Add Another Goal +

Property-wide goals can be applied to forest types or management topics

« Previous Define Management Next » Homework 1

Step 1.2: Define management goals & objectives.

Adaptation Workbook

- My dashboard
- Log out
- Resources ▾
- Buffam Brook Community Forest
- Progress Summary
- Step 1**
- Define Management Topics
- Management Goals and Objectives** >
- Homework 1
- Step 2**
- Climate Impacts and Vulnerability
- Vulnerability Determination
- Homework 2
- Step 3**
- Evaluate Objectives
- Homework 3
- Step 4**
- Adaptation Actions

Management Goals and Objectives instructions ▾

Step 1 course materials ▾

Management Goals and Objectives

General Goals for the entire property or project area
4 Goals

Transition hardwood Goals and Objectives >
4 Goals | 1 Objectives

Invasive species issues Goals and Objectives ⚠
1 Goals | 0 Objectives

Goal #1

Goal #2

Enhance wildlife habitat

Add objective → **Add Objective for this Goal** +

Goal #3

Create opportunities for forest-based experiential learning and forestry education for the community

Add Objective for this Goal +

Goal #4

Provide public access for recreational benefits such as hiking and cross-country skiing on designated trails, as well as hunting and fishing

Add Objective for this Goal +

Add more goals → **Add Another Goal/Objective Set** +

« Previous Define Management Next » Homework 1

Step 1.2: Define management goals & objectives.

The screenshot displays the 'Adaptation Workbook' interface. On the left is a sidebar with navigation links: 'Adaptation Workbook', 'My dashboard', 'Log out', 'Resources', 'Buffam Brook Community Forest', 'Progress Summary', 'Step 1', 'Define Management Topics', 'Management Goals and Objectives' (highlighted with an orange arrow), 'Homework 1', 'Step 2', 'Climate Impacts and Vulnerability', 'Vulnerability Determination', 'Homework 2', 'Step 3', 'Evaluate Objectives', 'Homework 3', 'Step 4', and 'Adaptation Actions'.

The main content area is titled 'Management Goals and Objectives instructions' and 'Step 1 course materials'. It features a list of goal categories:

- Management Goals and Objectives**: General Goals for the entire property or project area, 4 Goals
- Transition hardwood Goals and Objectives**: 4 Goals | 2 Objectives
- Invasive species issues Goals and Objectives**: 1 Goals | 0 Objectives (marked with a red warning triangle)

The 'Invasive species issues Goals and Objectives' section is expanded, showing a list of goals:

- Goal #2**: Enhance wildlife habitat. This goal is expanded to show its objectives:
 - Objective**: statements of measurable, planned results. There may be multiple objectives for a single goal. (This section is highlighted with a blue box)
 - Time Frame**: (indicated by a box labeled 'Time Fr')
- Goal #3**: Create opportunities for forest-based experiential learning and forestry education for the community. Below this goal is a button: 'Add Objective for this Goal'.
- Goal #4**: Provide public access for recreational benefits such as hiking and cross-country skiing on designated trails, as well as hunting and fishing. Below this goal is a button: 'Add Objective for this Goal'.

At the bottom of the main content area, there are navigation links: '« Previous Define Management' and 'Next » Homework 1'. A button at the bottom right says 'Add Another Goal/Objective Set'.

Homework 1

✦ Adaptation Workbook

🏠 My dashboard

🔑 Log out

📁 Resources ▾

📍 Chicago project

📖 Progress Summary

Step 1

Define Management Topics

Management Goals and Objectives

Homework 1

Step 2

Climate Impacts and Vulnerability

Vulnerability Determination

Homework 2

Step 3

Evaluate Objectives

Homework 3

Step 4

Adaptation Actions

Tactic Recommendations

Homework 4

Homework 1

What is your project, and what are the management goals and objectives for your project area? (Summarize in a short paragraph)

What is your project, and what are the management goals and objectives for your project area? (Summarize in a short paragraph)

Rate your pre-course level of knowledge or familiarity with climate adaptation, by how strongly you agree/disagree with the following statements:

	Low				High
I understand the potential local impacts of climate change on the lands that I manage.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can explain how climate change may affect my ability to achieve management objectives.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can identify viable climate change adaptation strategies that can be applied to my local area.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can translate broad adaptation strategies to actionable adaptation tactics in my local area.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can identify monitoring metrics to assess the effectiveness of my management tactics.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

The topic(s) I'm most interested in learning from this online training is (are)...

The topic(s) I'm most interested in learning from this online training is (are)...

The reason(s) I signed up for this training to incorporate climate change adaptation into my management planning is (are)...

The reason(s) I signed up for this training to incorporate climate change adaptation into my management planning is (are)...

Introduce yourself in a short video. Go to <https://flipgrid.com/8f2b6d> or use the code 8f2b6d in a flipgrid phone app. Note when you completed this task here.

Introduce yourself in a short video. Go to <https://flipgrid.com/8f2b6d> or use the code 8f2b6d in a flipgrid phone app. Note when you completed this task here.

« Previous

Management Goals and Objectives

Next »

Climate Impacts and Vulnerability

QUESTIONS?

Assignment for next time:

Complete by Sunday, January 27th

Record your intro on Flipgrid: <https://flipgrid.com/3df15679>

1. Complete Step 1 of the Adaptation Workbook
2. Complete the Homework section following Step 1
3. Be prepared to introduce your project in < 3 minutes in our next discussion

Optional: CFE credits – email Patricia your SAF and/or state forestry license number

Getting to Know You

Between now and the next course, go to:

<https://flipgrid.com/3df15679>

Password: **NIACS2019**

Introduce yourself – 1 min max!

- Name, Organization, Position
- What you hope to get out of this course
- Anything else about you that you'd like to share.

The logo for Flipgrid, featuring the word "FLIPGRID." in white, bold, sans-serif capital letters on a bright green rectangular background. The green rectangle is tilted slightly to the right and has a dark green shadow or reflection underneath it.

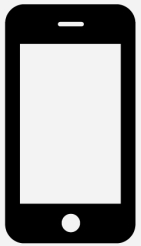
FLIPGRID.

Using Flipgrid (3 options)



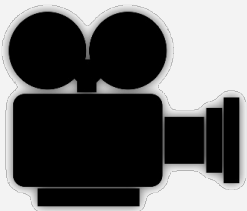
Internet browser+webcam (no downloads required)

Chrome and Firefox work best. Internet Explorer and Safari work with flash plug in.



On your phone.

Download flipgrid app for IOS or android



Record on any device as a an MP4, MOV, or WEBM video file and upload on the web.

Looking Ahead

NEXT CLASS: Tuesday, January 29th

- Come to the discussion session ready to talk about your project (1 person per project)
- Lecture section will introduce step 2

QUESTIONS?

Discussion: Project Ideas

Do you have an idea for a project?

- Location, size, and ownership
- Primary management goals & objectives

