

ONLINE COURSE

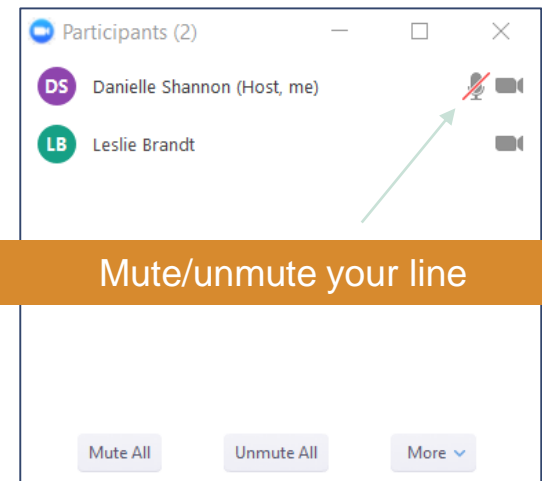
URBAN FORESTED WATERSHEDS ADAPTATION PLANNING AND PRACTICES

Session 1: Introduction to the Online Course and Adaptation Workbook

Tuesday, November 6, 2018 @ 11 am ET

Web session etiquette. Please:

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



Add A Chat Box

ONLINE COURSE

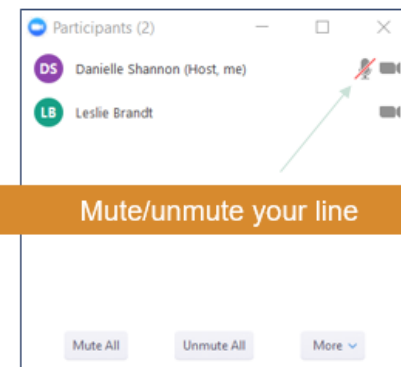
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What you should see:

ONLINE COURSE

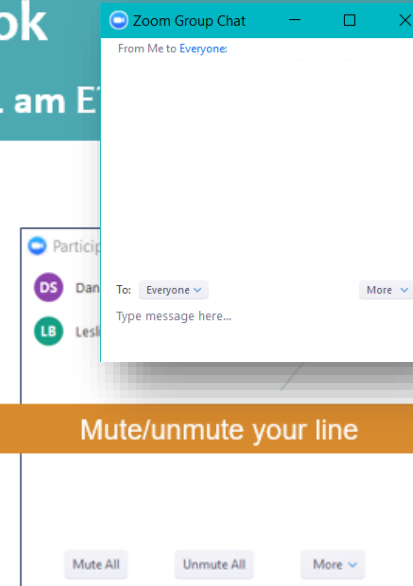
URBAN FORESTED WATERSHEDS ADAPTATION PLANNING AND PRACTICES

Session 1: Introduction to the Online Course and Adaptation Workbook

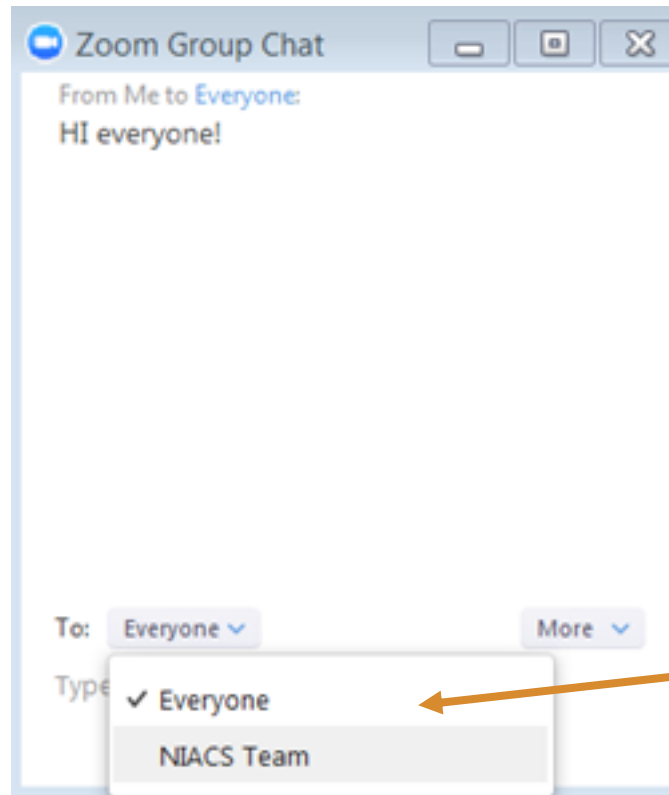
Tuesday, November 6, 2018 @ 11 am E

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Sending Chats



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

Welcome!



Leslie Brandt

lbrandt@fs.fed.us

Climate Change Specialist
Northern Institute of Applied Climate
Science

US Forest Service

www.forestadaptation.org



United States Department of Agriculture
Northern Forests Climate Hub



Danielle Shannon

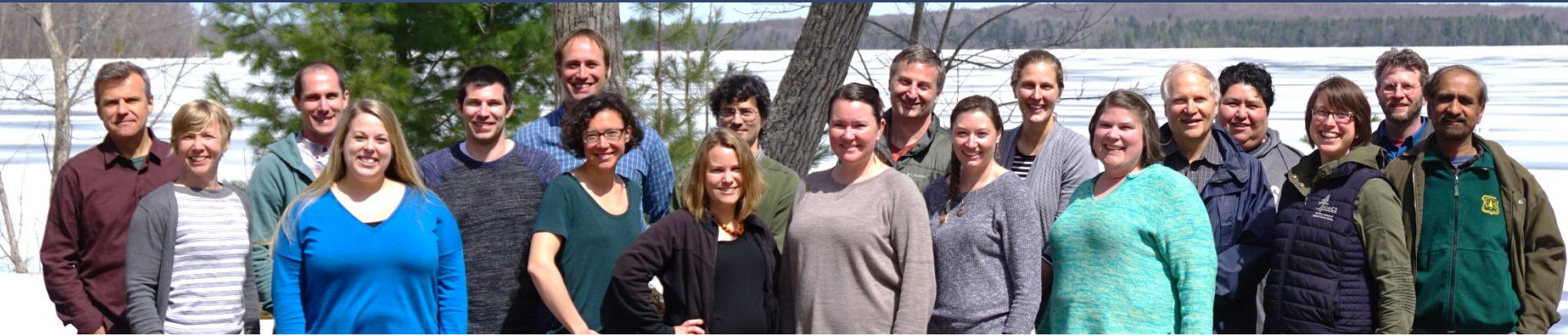
dshannon@mtu.edu

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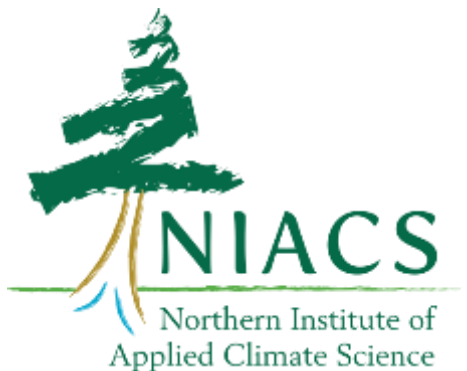
Northern Institute of Applied Climate Science



Climate
Carbon

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

Regional multi-institutional partnership among:



www.nrs.fs.fed.us/niacs/



Michigan
Technological
University

ncasi



THE
TRUST
FOR
PUBLIC
LAND



UNIVERSITY OF MINNESOTA



AMERICAN FORESTS



The
UNIVERSITY
of VERMONT

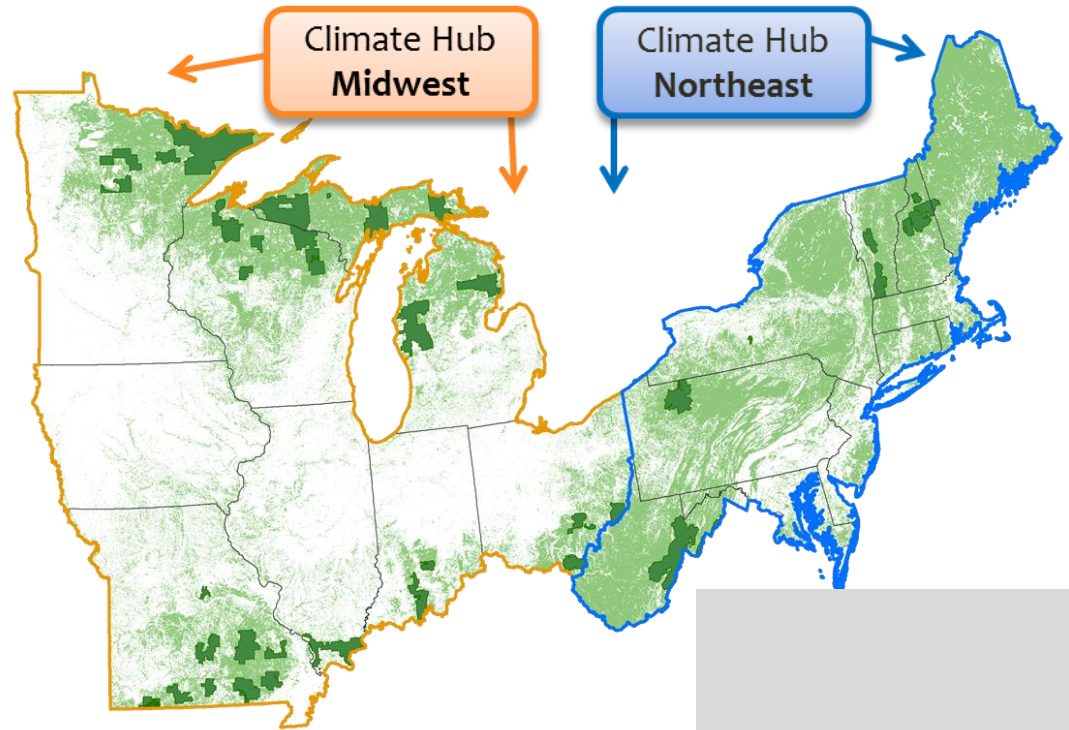
USDA Northern Forests Climate Hub

- “Specialty Hub” - forestry
- Support 2 Regional Hubs



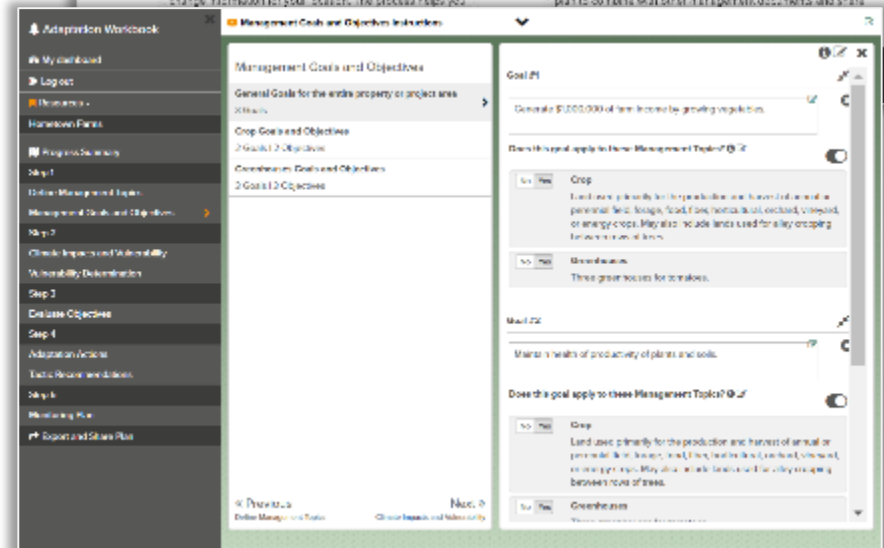
Northern Forests Climate Hub
U.S. DEPARTMENT OF AGRICULTURE

- 20 states in NE/MW
 - 42% forested
 - 41% of US population
 - >70% privately owned
- Climate Services
 - Assessment
 - Practical resources
 - Technical assistance
- Operated by NIACS



Today's Agenda

- Welcome, introductions & overview
- Step 1 introduction & assignment
- Adaptation Workbook walkthrough
- Example from last year: special guest Danielle Fox, Columbia, MO
- 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 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 CEUs for classes you attend.



Course Expectations

- Complete all homework by Noon Monday before the next class*
- If you know you'll be busy later on, work ahead!

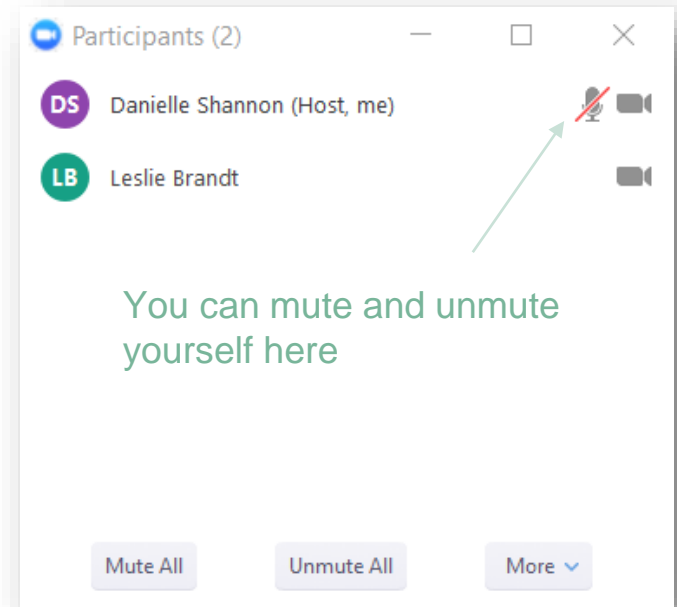
The screenshot displays the 'Adaptation Workbook' interface. On the left is a dark sidebar with a navigation menu including: 'My dashboard', 'Log out', 'Resources', 'Chicago project', 'Progress Summary', 'Step 1', 'Define Management Topics', 'Management Goals and Objectives', 'Homework 1' (highlighted), 'Step 2', 'Climate Impacts and Vulnerability', 'Vulnerability Determination', 'Homework 2', 'Step 3', 'Evaluate Objectives', 'Homework 3', 'Step 4', 'Adaptation Actions', and 'Tactic Recommendations'. The main content area is titled 'Homework 1' and contains the following sections:

- Homework 1**
- What is your project, and what are the management goals and objectives for your project area? (Summarize in a short paragraph)**
A text input field with the same prompt below it.
- Rate your pre-course level of knowledge or familiarity with climate adaptation, by how strongly you agree/disagree with the following statements:**
A table with five rows of statements and five columns of radio buttons. The columns are labeled 'Low' and 'High' at the top.
- The topic(s) I'm most interested in learning from this online training is (are)...**
A text input field with the same prompt below it.
- The reason(s) I signed up for this training to incorporate climate change adaptation into my management planning is (are)...**
A text input field with the same prompt below it.
- 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.**
A text input field with the same prompt below it.
- Navigation: '<< Previous' and 'Next >>' with 'Climate Impacts and Vulnerability' below 'Next >>'.

*Note: Our first class assignment is due Friday, November 9 because of Veterans' Day

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

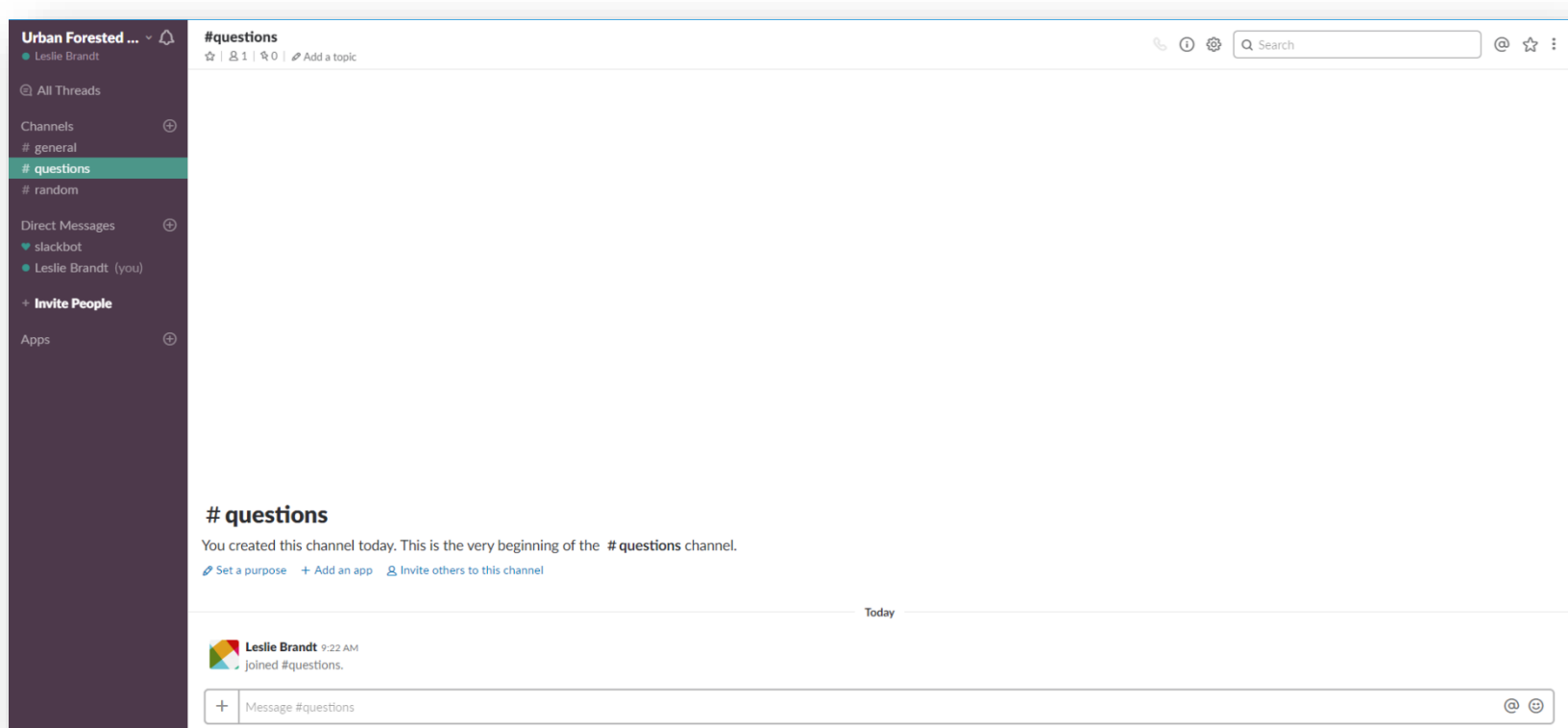


Course Expectations

- Collaborate with your classmates
- Share your ideas and struggles



https://urbanwaterfapp.slack.com



QUESTIONS?

Adaptation is the adjustment of systems in response to climate change.



Adaptation actions are designed to specifically address climate change impacts & vulnerabilities in order to meet goals/objectives

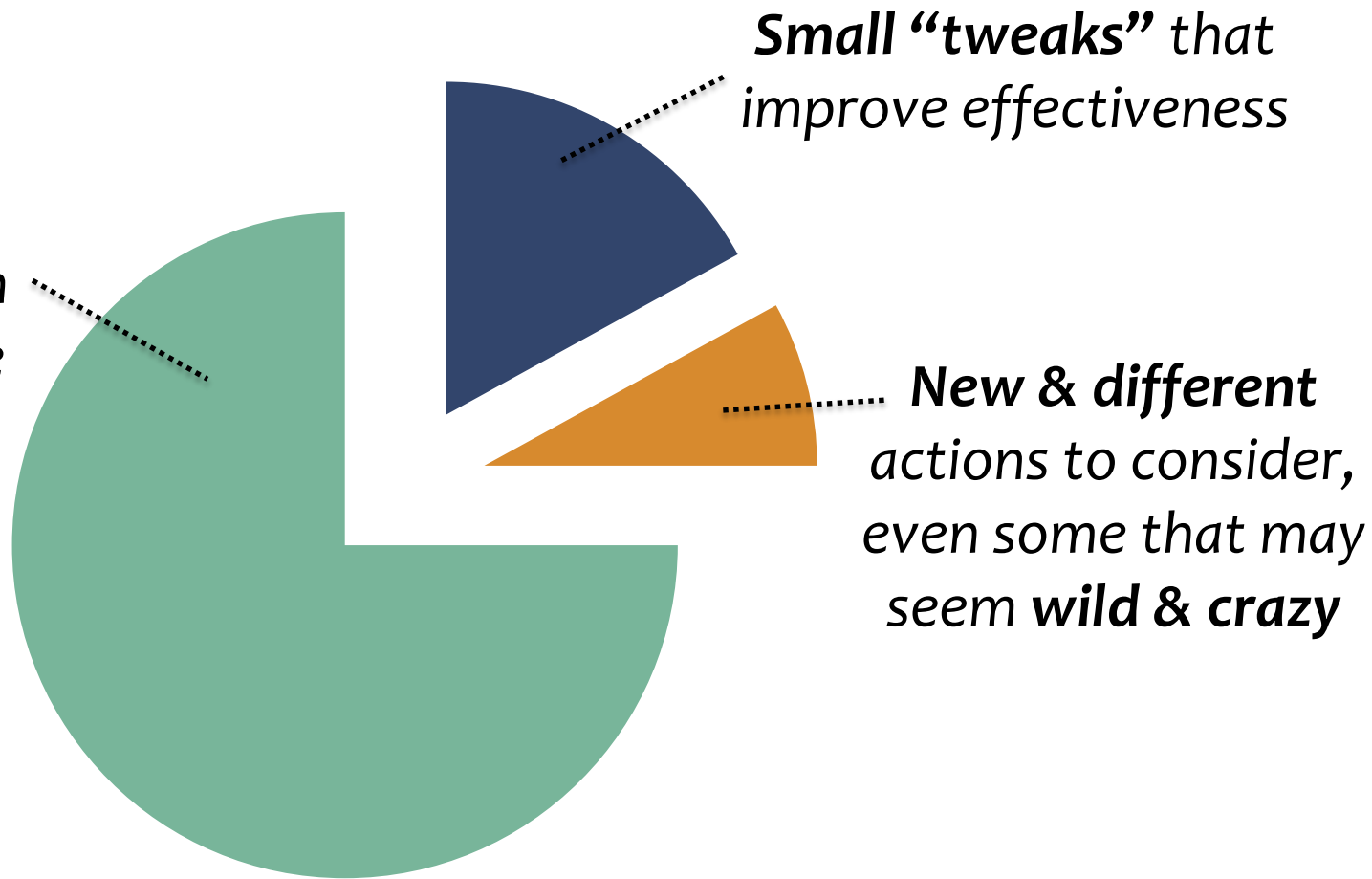
Adaptation is the adjustment of systems in response to climate change.



Ecosystem-based adaptation activities build on sustainable management, conservation, and restoration.

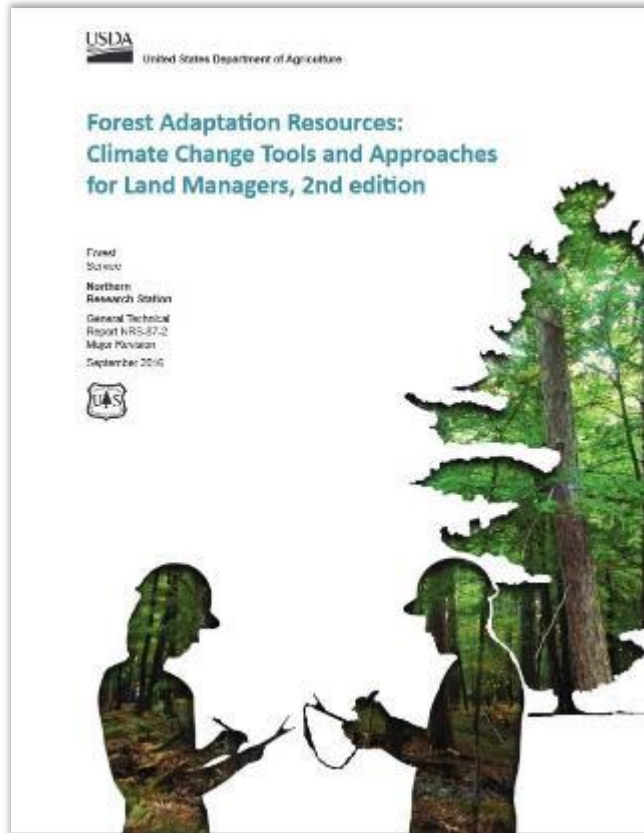
Adaptation Actions Can Be...

Same actions—
climate change
just makes them
that much more
important



**individual results will vary*

Forest Adaptation Resources



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

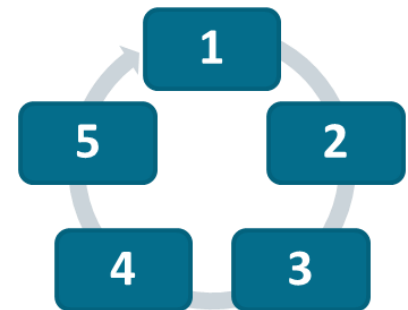
Strategies & Approaches

Menu of adaptation actions



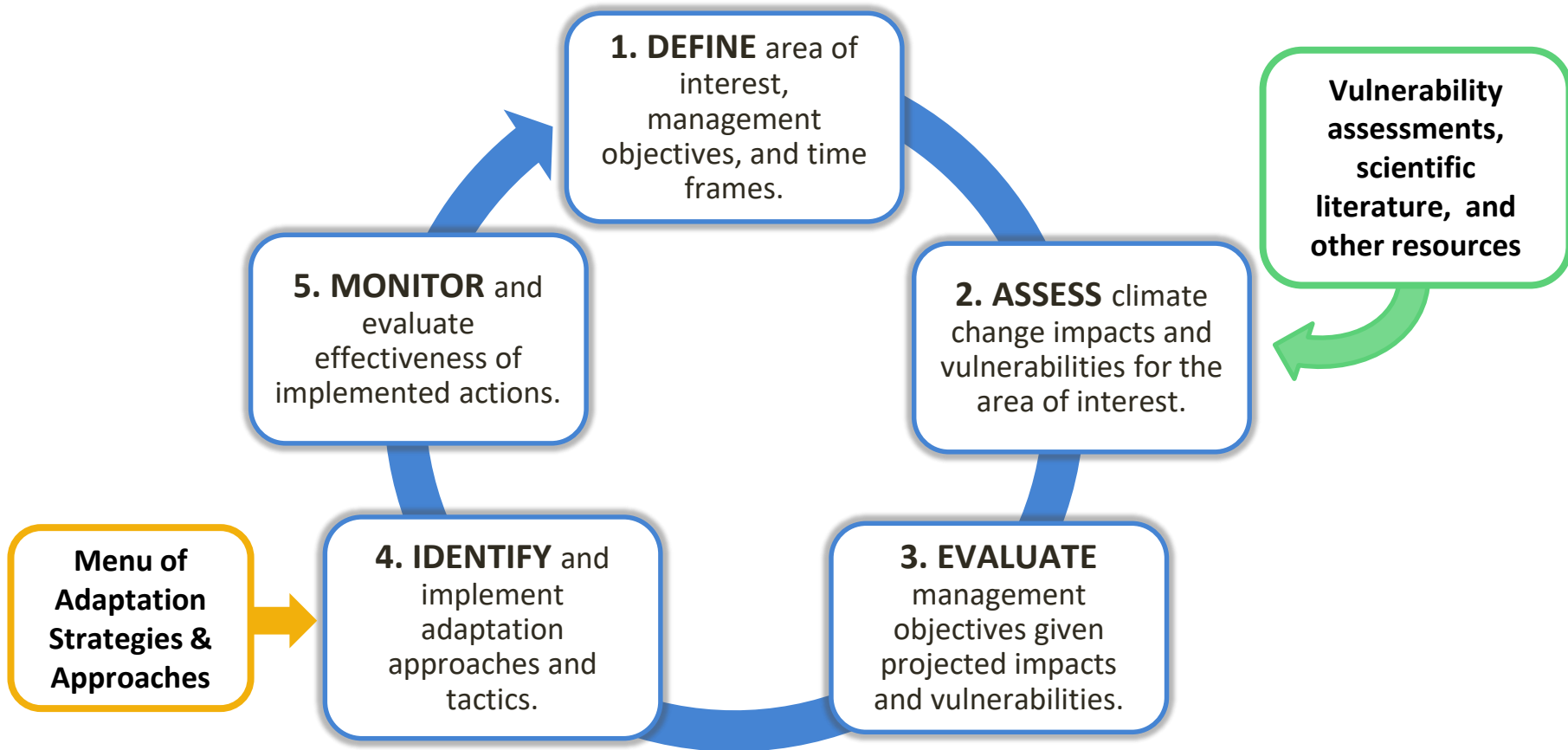
Adaptation Workbook

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



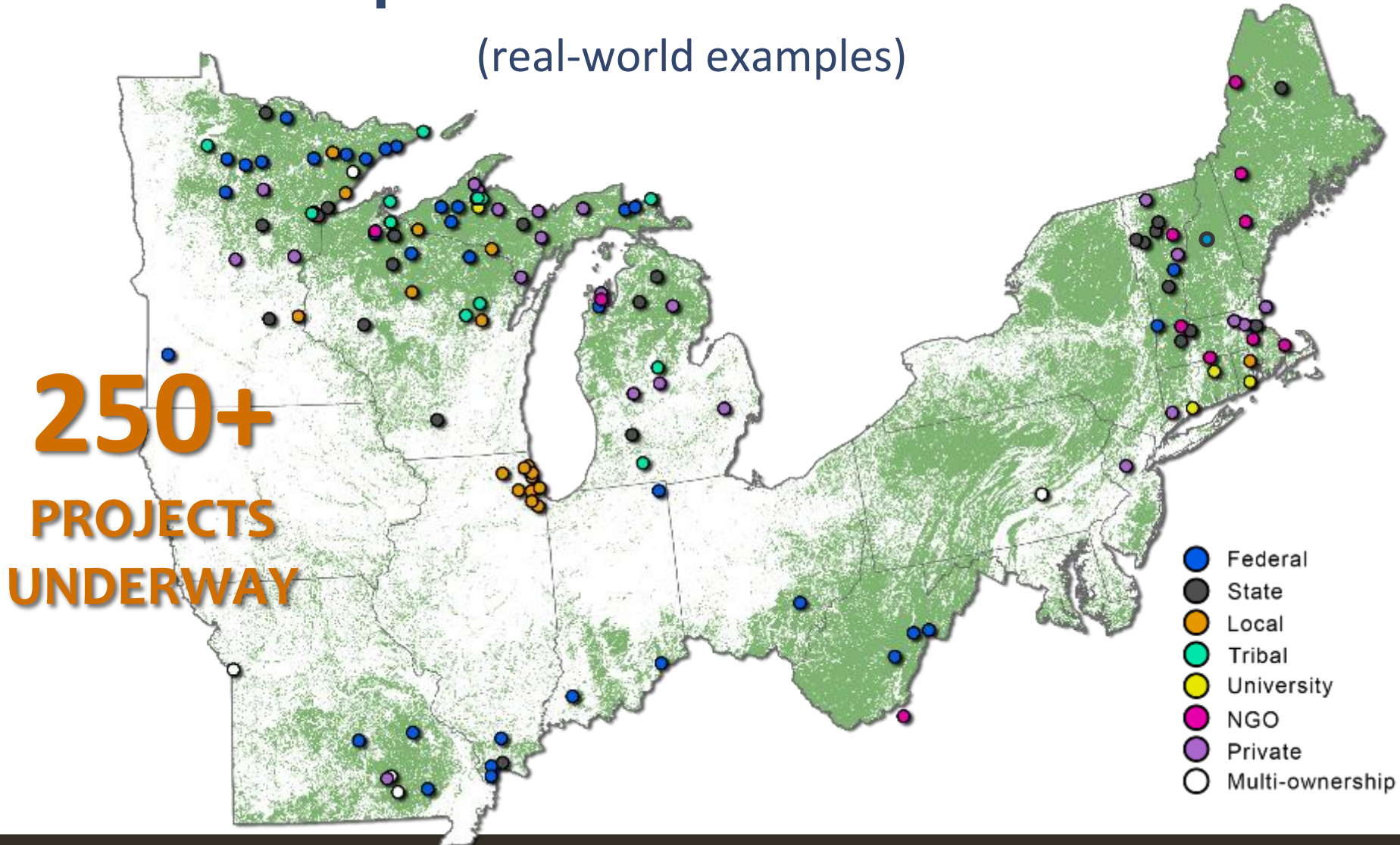
Adaptation Workbook

Provides “structured flexibility”



Adaptation Demonstrations

(real-world examples)



www.forestadaptation.org/demos

Forestadaptation.org/demos

Climate Change Response Framework

Home Our Approach Projects Demos Products Partners Resources Contact

Map Satellite

● Start-Up ● Planning ● Action ● Evaluation

Central Appalachians

Central Hardwoods

Mid-Atlantic

New England

Village of Northbrook: Northbrook Public Lands

The Village of Northbrook, Illinois, is working to prepare the forested parts of their community for climate change. Their projected outcomes include a resilient urban forest that adapts to the changing climate, new and thriving tree and plant species that will enhance and diversify the urban forest, new plants that restore and maintain pollinator populations, and more diverse plantings to increase property values, improve quality of life, and provide lower cooling bills in the summer

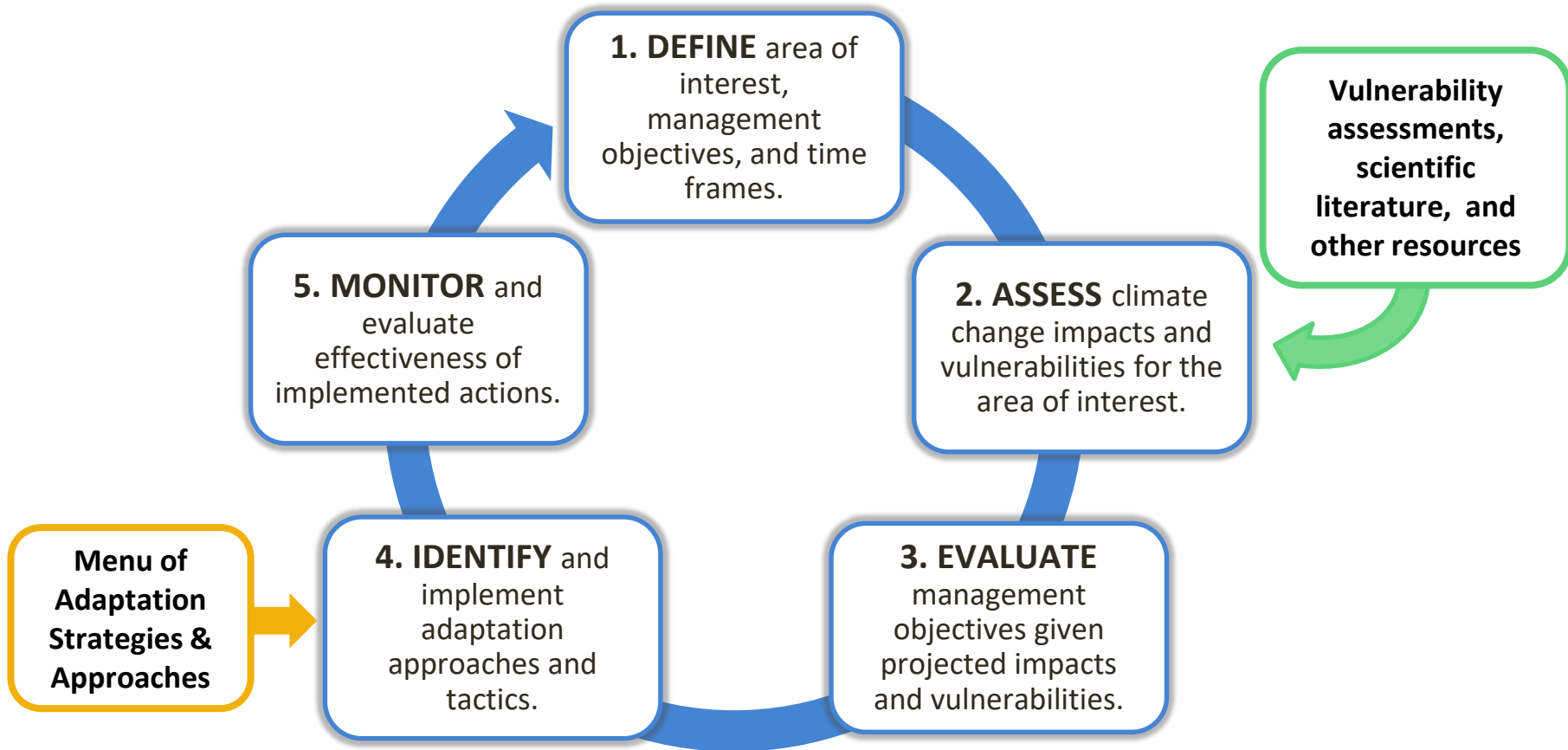
[Read more](#)

Map data ©2018 Google, INEGI Terms of Use

Search on the map by location or filter by keyword

Adaptation Workbook

Provides “structured flexibility”



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



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

Too big

- Metro area project, multiple ownerships, multi-county, natural and developed sites combined. Multiple forest types

Sizes that can work:

- A restoration project in a riparian area
- A street tree master plan (citywide or neighborhood)
- A new urban development
- A few (1-4) forest types within a park
- A demonstration garden

Too small

- A private backyard

Step 1.1: Define management topics.

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

- **Pre-defined Land Uses**
 - Based on the same definitions used in i-tree
- **Custom Land Uses or Management Topic**
 - Land use type not shown
 - Management topic: e.g., “Ash removal and replacement” or “Gravel bed nursery project” or “Stormwater management project.”

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 land use/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.



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.



Peer-reviewed

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



Take it with you

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

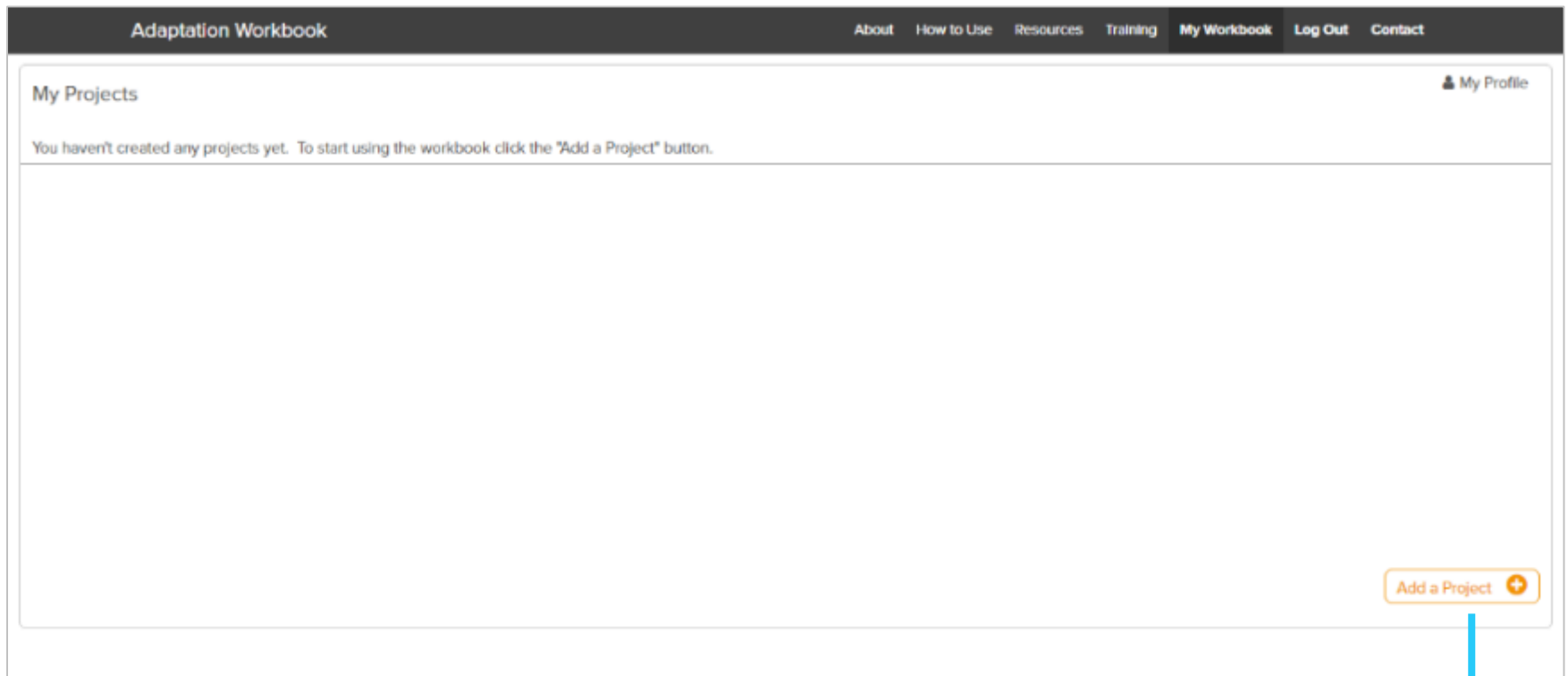


Northern Institute of Applied Climate Science

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

Project Dashboard:



Be sure to select: **“A Project for ‘Forest Adaptation Planning and Practices – Fall 2018 Urban)’”**

A project for "Forest Adaptation Planning and Practices - Fall2018 (Urban)"

A standard project

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, you can click and hold to drag the marker to a new location.

Map Satellite

United States

zoom

Details

Name

Description

Acres

Size

Ownership

Project Type Forest Urban Agriculture

Cancel OK

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

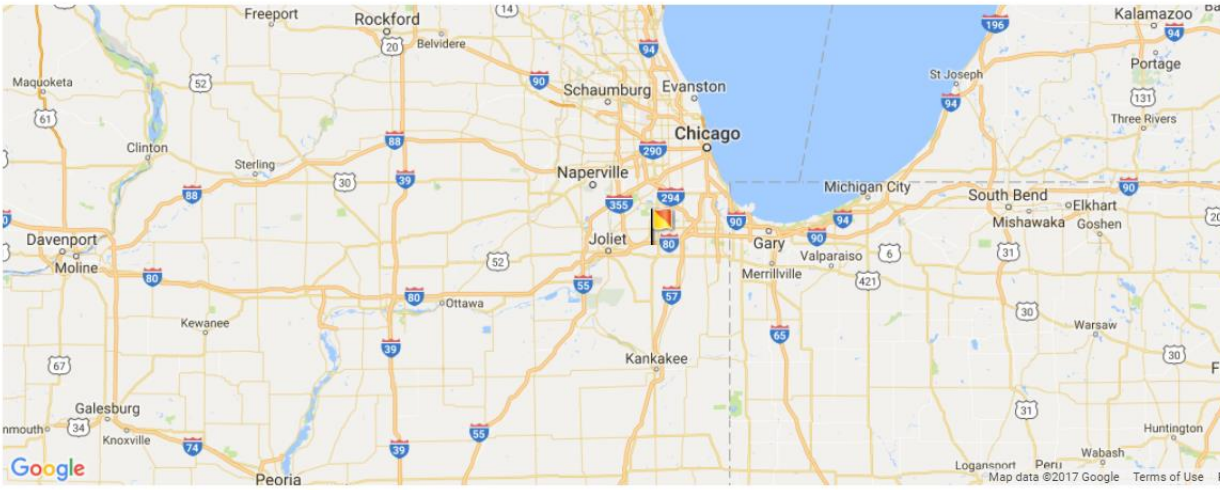
Project Dashboard:

My Projects My Profile

- Chicago project**
Created September 27, 2017 | Last edited September 27, 2017
- Nursery selection**
Created February 13, 2017 | Last edited February 13, 2017
- boundary waters generic**
Created December 2, 2014 | Last edited November 28, 2016
- chicago project**
Created October 6, 2016 | Last edited October 6, 2016

[Add a Project](#)

Chicago project



Map showing the Chicago project location. The map displays the Chicago metropolitan area and surrounding regions, including cities like Schaumburg, Evanston, Naperville, Joliet, and Gary. The project location is marked with a red flag icon near Chicago.

[Go to Workbook](#) [Edit project details](#) [View course materials](#) [Delete this project](#)

Ownership: **Federal** Acres: 2 Size: 2
demo

[Start Workbook](#)

Welcome screen

Welcome to the Adaptation Workbook

Welcome to the Urban Forestry 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 of how the overall process will come together. More than 100 adaptation demonstration projects are featured on the [Climate Change Response Framework website](#). Below are some examples that were developed specifically for urban areas:

- [City of Cambridge, MA: Cambridge Urban Forest Adaptation](#)
- [Natural Areas Conservancy and New York City Department of Parks and Recreation: Encouraging Robust Urban Forests Through Restoration with Climate Change-Adapted Species Palettes](#)
- [Hennepin County: Gravel Bed Nursery and Planting Program](#)
- [Village of Riverside, IL : Reforestation Project](#)

Don't show this again.

Get Started

Next »

Define Management Topics

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

Progress Summary:

The screenshot displays a web-based adaptation workbook interface. On the left is a dark sidebar with navigation options: Adaptation Workbook, My dashboard, Log out, Resources, Chicago project, Progress Summary (highlighted), 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, and Homework 4.

The main content area is titled "Progress Summary instructions" and "Course Agenda and Notes". It features a "Progress summary for Chicago project" section with five steps, each with a red warning triangle icon and a right-pointing arrow:

- 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 12 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

At the bottom of the progress summary is a "Next »" button with the text "Define Management Topics" below it.

On the right side, there is a "Course agenda and notes" panel. A blue arrow points from a blue-bordered box containing the text "Course agenda and notes" to the top of this panel. The panel includes sections for "Define Management Topics" (0 Management Topics), "Management Goals and Objectives" (0 Goals), and "Management Topic".

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

Progress Summary:

The screenshot displays the 'Adaptation Workbook' interface. On the left is a dark sidebar with navigation items: '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', and 'Homework 4'. The main content area is titled 'Progress Summary instructions' and 'Course Agenda and Notes'. It shows a 'Progress summary for Chicago project' with five steps:

- 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 12 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)

On the right, there are three task panels:

- Define Management Topics:** 0 Management Topics
- Management Goals and Objectives:** 0 Goals
- Management Topic:** (empty)

At the bottom right, there is a 'Next »' button with the text 'Define Management Topics' below it. A blue box with the text 'Go to step 1.' and a blue arrow points from the box to the 'Step 1' menu item in the sidebar.

Step 1.1: Define management topics.

The screenshot shows the 'Adaptation Workbook' interface. On the left is a dark sidebar with navigation options: 'Adaptation Workbook', 'My dashboard', 'Log out', 'Resources', 'Chicago project', 'Progress Summary', 'Step 1' (highlighted), 'Define Management Topics' (with a right 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', 'Adaptation Actions', 'Tactic Recommendations', and 'Homework 4'.

The main content area is titled 'Step 1.1: Define your land uses or management topics'. It contains the following text:
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 land use categories 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 land use types for you, because you're working on an urban forestry project. You can keep or remove any of these pre-defined categories.
If there are different management topics that are important to your goals, **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 "Ash removal and replacement" or "Gravel bed nursery project" or "Stormwater management project."

Below the text is a link: [Define Management Topics Resources](#) (with an 'in' icon).

At the bottom of the main content area is a list of land use categories, each with an information icon and a plus sign to its right:
Cemetery
Golf course
Agriculture
Vacant
Institutional
Utility
Water/ Wetland
Transportation
Other

Below the list is a text input field: 'Add a custom Land Use or Management Topic' with a plus icon and a pencil icon.

At the bottom of the main content area are navigation links: '<< Previous' (with 'Progress Summary' below it) and 'Next >>' (with 'Management Goals and Objectives' below it).

On the right side of the main content area, there is a video player titled 'Adaptation Workbook 1 1 fi...' with a play button and the text 'Adaptation Workbook' and 'adaptationworkbook.org'. Below the video player is a legend box with three items:
- Information icon: Hover to learn more about a particular item
- Arrow icon: Expand/collapse a section
- Comment icon: Click to add a comment or specific information about this land use in your project area

A blue arrow points from the legend box to the plus sign next to the 'Other' category in the list.

Step 1.1: Define management topics.

Step 1 course materials

- 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

Define Management Topics instructions

Step 1 Course Materials

The first class session will be on **November 7 from 11:00 am-11:45am Eastern/10:00-10:45 Central**. Before then, please:

- Select an urban forestry or urban natural area management project to use for the training.
- Assemble relevant materials and information regarding 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 **Sunday, November 19th at 12:00am Central**:

- Step 1 of the Adaptation Workbook
- Homework section following Step 1
- Record your intro on Flipgrid: <https://flipgrid.com/8f2b6d>
- (Optional) review regional climate impacts to prepare for Step 2 by watching a [recorded presentation](#) or reading a climate report for your specific geographic area:
 - Regional forest ecosystem vulnerability assessments [here](#).
 - The [Chicago Wilderness Assessment](#) covers the Chicago region and parts of Northwestern Indiana
 - The [Central Hardwoods Assessment](#) covers southern Missouri, Illinois, and Indiana
 - The [Central Appalachians Assessment](#) covers Eastern Ohio, West Virginia, and parts of Maryland
 - Here are some links to other location-specific information:
 - [New York City Panel on Climate Change 2015 Report](#)
 - [Climate change in Minnesota: 23 signs](#)
 - NOAA State Climate Summaries:
 - [Missouri](#)
 - [Minnesota](#)
 - [Michigan](#)
 - [Illinois](#)
 - [Indiana](#)
 - [Ohio](#)
 - [New York](#)
 - Additional information on tree species vulnerability and shifts in heat and hardiness zones are here:
 - [Missouri](#)
 - [Minnesota](#)
 - [Michigan](#)
 - [Indiana](#)
 - [Ohio](#)
 - [New York](#)

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

Step 1.1: Define management topics.

Describe how your project is organized:

- Land use: street trees, park, residential
- Management topics: stormwater management, ash replacement

Land use types are pre-loaded for your convenience.

Or, you can create your own land uses or management topics, for example, different areas within a park or neighborhoods in a city


The screenshot shows a web application interface for defining management topics. On the left is a dark sidebar with a navigation menu including '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', and 'Homework 4'. The main content area is titled 'Define Management Topics instructions' and 'Step 1 Course Materials'. It features a section 'Define Land Uses or Management Topics' with a list of 'Suggested Land Uses' including Street trees, Residential, Multi-family residential, Commercial/Industrial, Park, Cemetery, Golf course, Agriculture, Vacant, Institutional, Utility, Water/ Wetland, Transportation, and Other. Each item has a plus icon to its right. Below the list is a text input field with the placeholder 'Add a custom Land Use or Management Topic'. At the bottom, there are 'Previous' and 'Next' navigation buttons. On the right side of the interface, there is a large empty box labeled 'My property or project area'.

Step 1.1: Define management topics.


Describe how your project is organized:


- Land use: street trees, park, residential
- Management topics: stormwater management, ash replacement

Add a custom **Land use 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 shows a software interface for defining management goals and objectives. On the left is a dark sidebar with a navigation menu. The main content area is titled "Management Goals and Objectives" and contains a list of goal categories. A blue box labeled "Property-wide goals" has an arrow pointing to the "General Goals for the entire property or project area" row. Another blue box labeled "Goals for specific land uses or management topics" has an arrow pointing to the "Park Goals and Objectives" and "riparian buffer Goals and Objectives" rows. The interface includes a sidebar, a main content area with a list of goal categories, and navigation buttons at the bottom.

Property-wide goals

Goals for specific land uses or management topics

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

Management Goals and Objectives instructions

Step 1 Course Materials

Management Goals and Objectives

General Goals for the entire property or project area
0 Goals

Park Goals and Objectives
0 Goals | 0 Objectives

riparian buffer Goals and Objectives
0 Goals | 0 Objectives

Add Another Goal

« Previous
Define Management Topics

Next »
Homework 1

Step 1.2: Define management goals & objectives.

The screenshot shows a web application interface for defining management goals and objectives. On the left is a dark sidebar with a navigation menu. The main content area is titled "Management Goals and Objectives" and contains a hierarchical list of goal categories and their associated counts. Three callout boxes with blue borders and arrows point to specific parts of the interface:

- Property-wide goals:** Points to the "General Goals for the entire property or project area" section, which lists "2 Goals".
- Objectives & Time Frames for Goals:** Points to the detailed view of "Goal #1", "Increase species diversity". It shows an "Objective" field with the text "Have no more than 20 percent of a family, 10 percent of a genus and 5 percent of a species" and a "Time Frame" field set to "15 years".
- Goals for specific land uses or management topics:** Points to the "riparian buffer Goals and Objectives" section, which lists "2 Goals | 0 Objectives".

The interface also includes a "Management Goals and Objectives instructions" header, a "Step 1 Course Materials" section, and a "Management Goals and Objectives" section with a right arrow. At the bottom, there are navigation buttons: "« Previous" and "Homework 1".

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

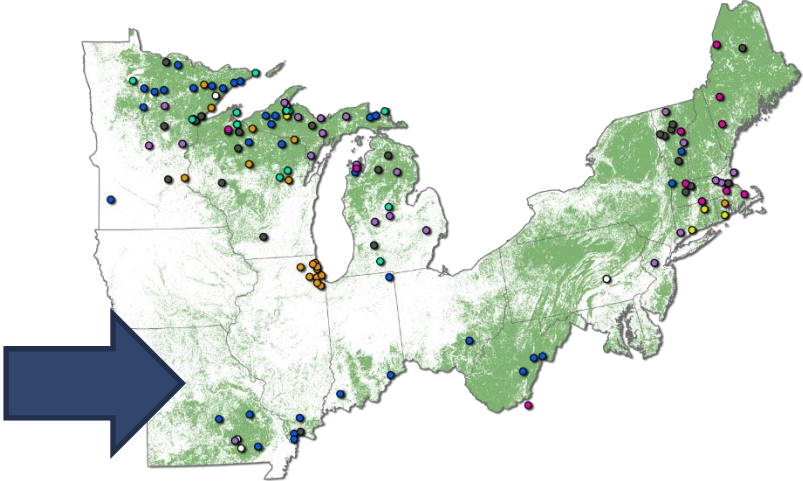
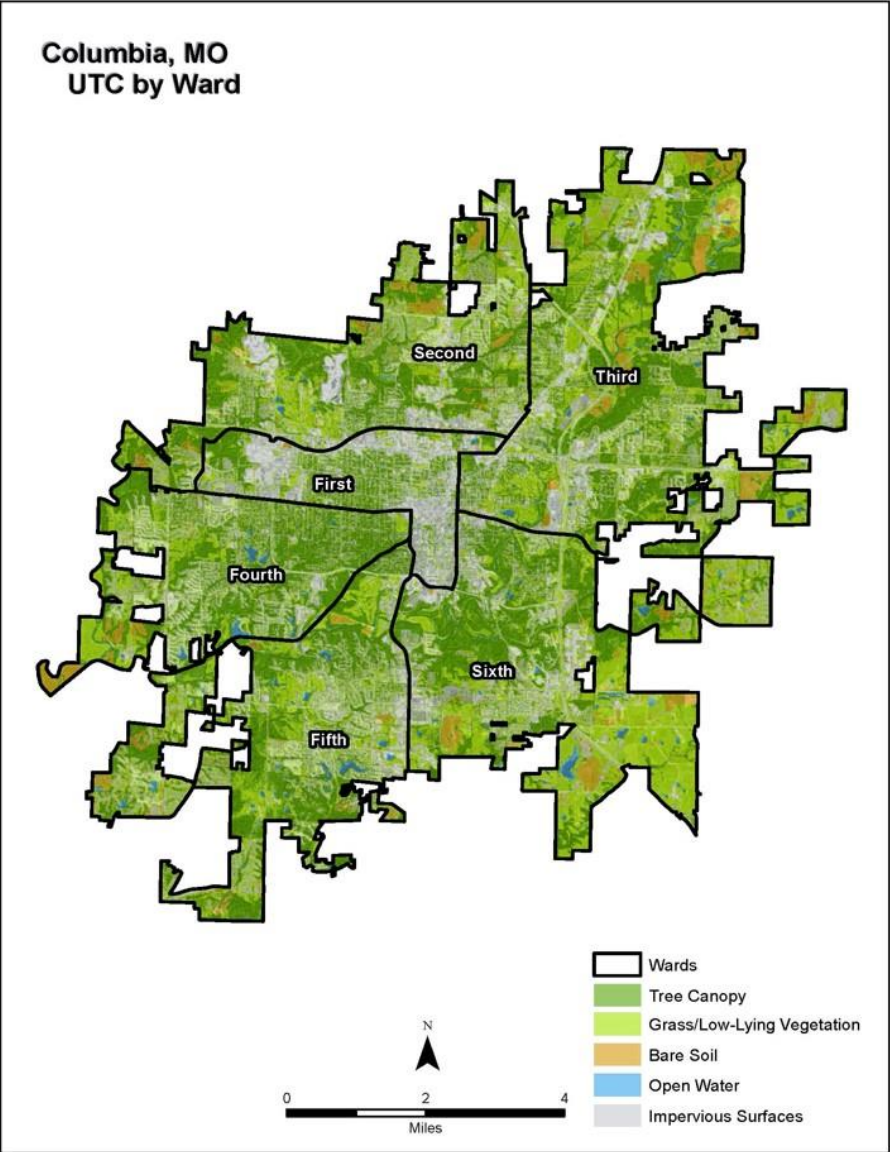
Next »

Climate Impacts and Vulnerability

QUESTIONS?

**WELCOME DANIELLE, FOX, CITY OF
COLUMBIA, MO**

Example: City of Columbia, MO



Discussion: Project Ideas

Do you have an idea for a project?

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



Getting to Know You

Between now and the next course, go to:

<https://flipgrid.com/cdc8cd>, Password: NIACS2018

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.

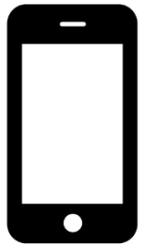


Using Flipgrid (3 options)



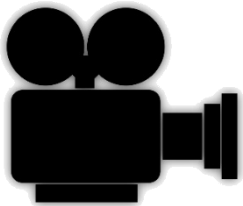
Internet browser+webcam (no downloads required)

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, November 13

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

Assignment for next time:

Complete by THIS FRIDAY:

- Record your intro on Flipgrid:
 - <https://flipgrid.com/cdc8cd>
 - Password: NIACS2018
- Complete Step 1 of the Adaptation Workbook
- Complete the Homework section following Step 1
- Be prepared to introduce your project in 3 minutes or less

Optional: CEUs –
email Leslie your SAF or ISA member number

QUESTIONS?