



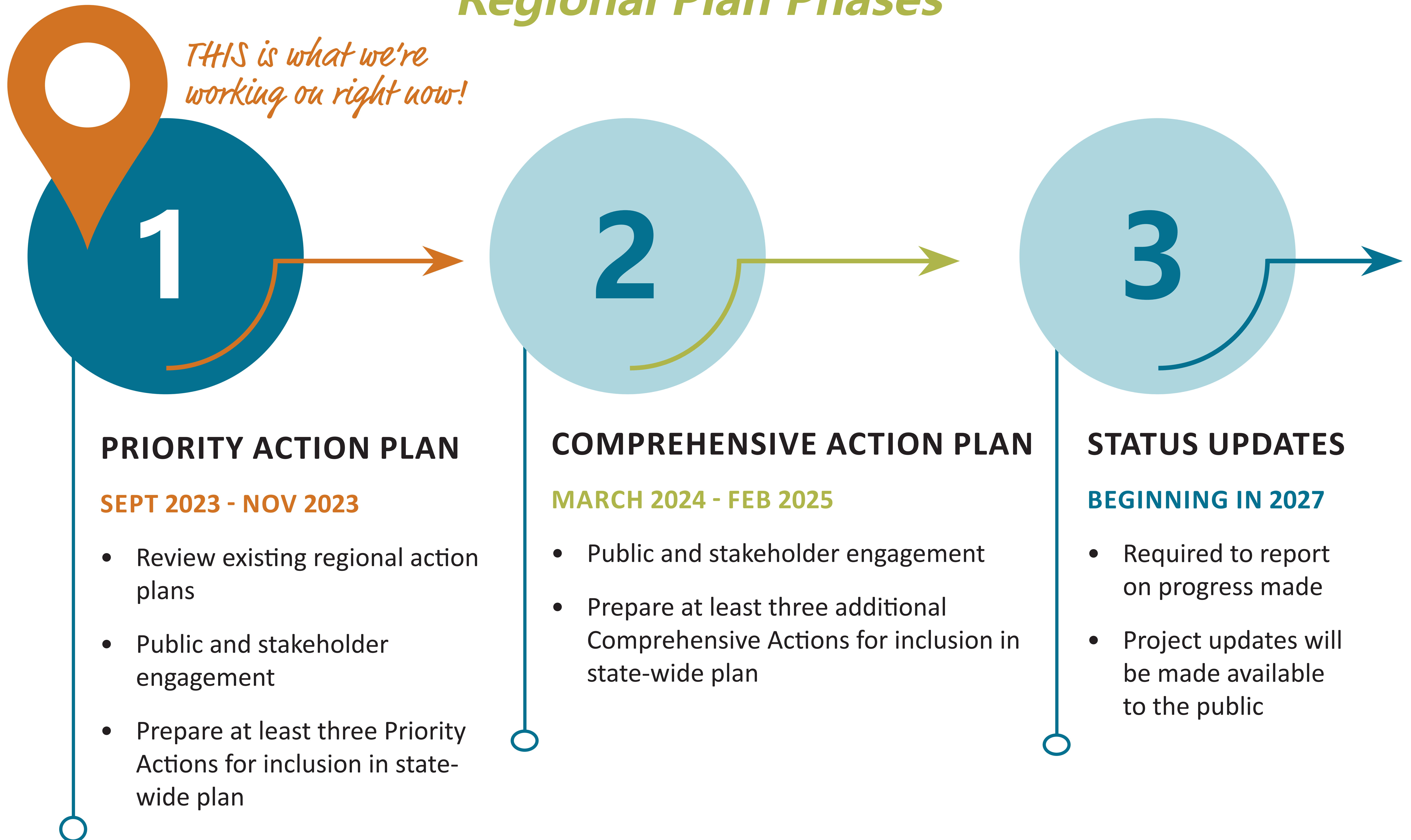
NWARPC Energy & Environment Innovation Plan

WELCOME!

Please sign in

Northwest Arkansas Regional Planning Commission (NWARPC)

Regional Plan Phases



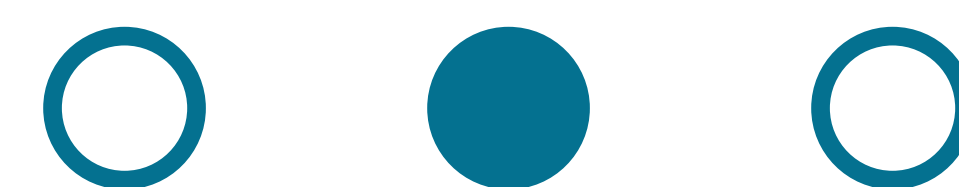
What is this all about?

U.S. Environmental Protection Agency's (EPA) Climate Pollution Reduction Grant (CPRG)



Arkansas Department of Energy and Environment

- Awarded \$3 million planning grant from EPA to create an Arkansas Energy and Environment Innovation Plan
- Plan will make state and local governments eligible for future CPRG Implementation Grants



PURPOSE OF THE PLANNING GRANT

To ensure targeted investment in energy infrastructure and technologies that **reduce pollutants, create high-quality jobs, and spur economic growth** in your region and across the state.

OUR ASK OF YOU

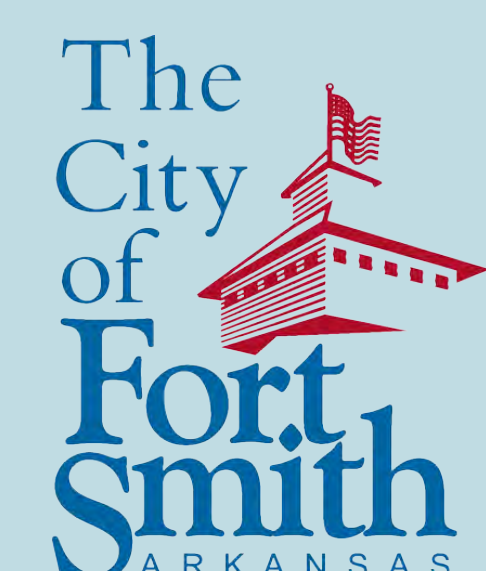
Take the survey so we can understand what kinds of **pollutant reduction incentive programs or specific projects** you would like us to include both in the state and region-specific plans.

You'll learn more about the survey questions on the following posters.

THIS is what we need your help with!

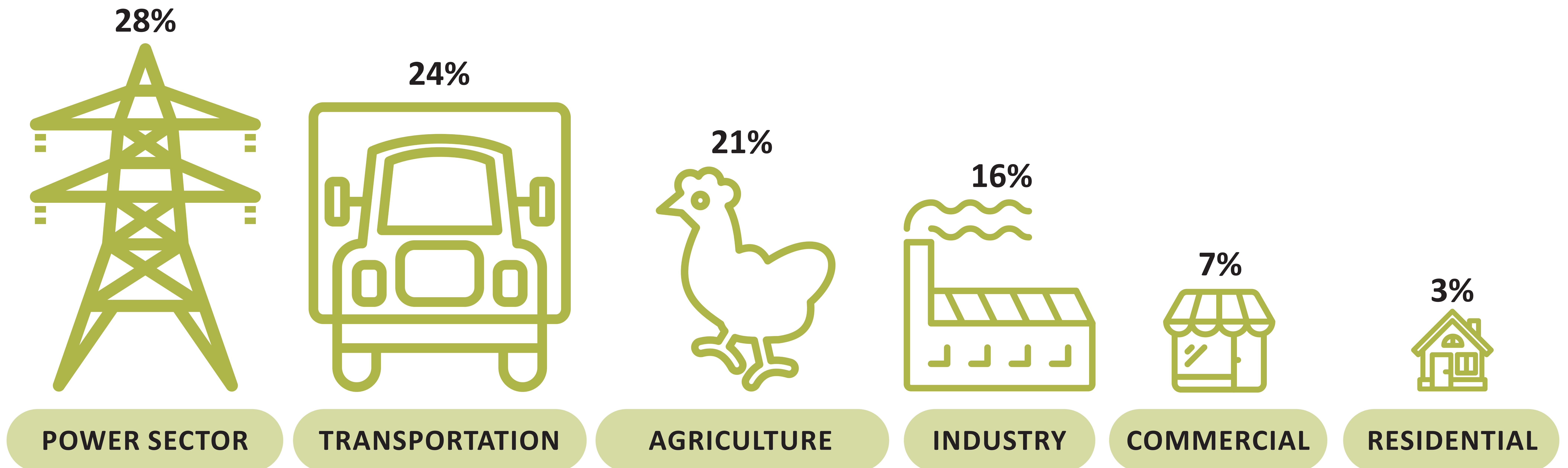
Northwest Arkansas Regional Planning Commission

- Awarded funding for an NWA regional plan to be included in state-wide plan
- Partners: Arkansas Dept. of Energy & Environment, Metroplan, NWA Regional Planning Commission, and the City of Fort Smith



DID YOU KNOW?

- The power sector is currently the largest contributor to greenhouse gas emissions in Arkansas
- Carbon dioxide makes up 70% of Arkansas greenhouse gas emissions followed by methane (19%), nitrous oxides (10%), and fluorinated gases (3%)



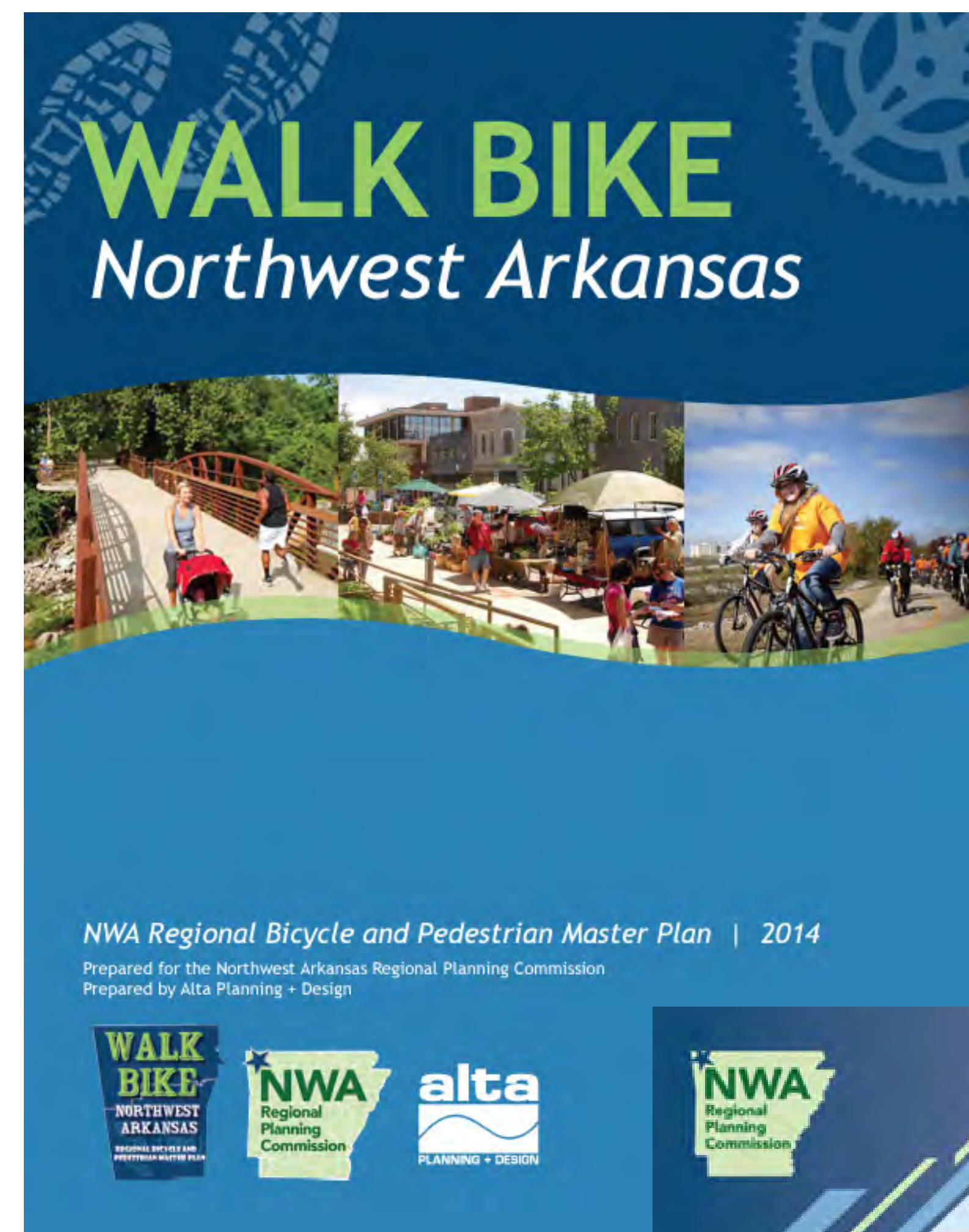
Arkansas Greenhouse Gas Emissions (CO₂e), 2020 obtained from U.S. EPA's Inventory of U.S. Greenhouse Gas Emissions and Sinks by State: 1990 - 2020

DID YOU KNOW?

The Northwest Arkansas Regional Planning Commission has been working on pollutant reduction efforts for a long time. *Here are some examples of other projects they've worked on.*



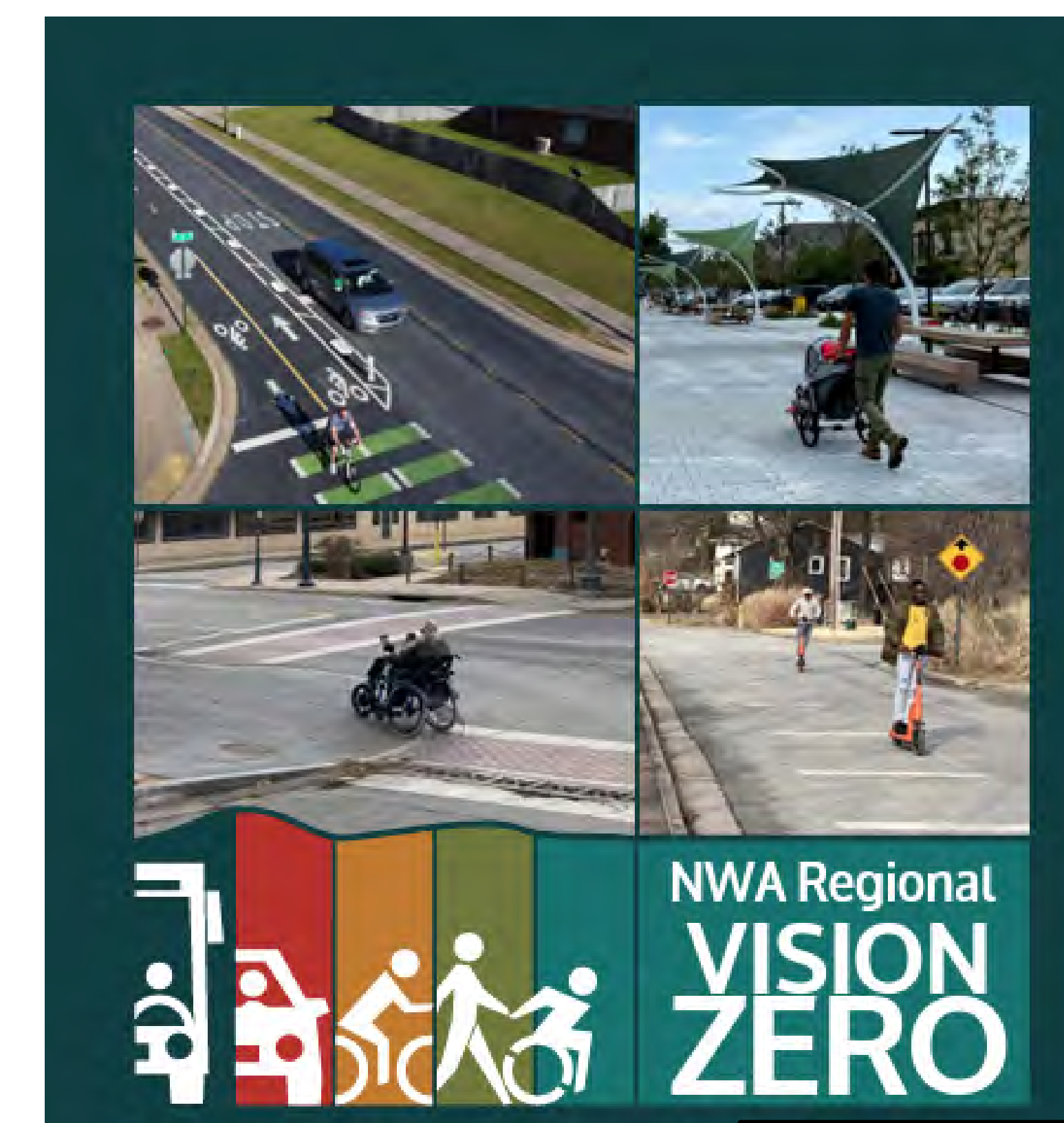
NWA BICYCLE AND PEDESTRIAN MASTER PLAN



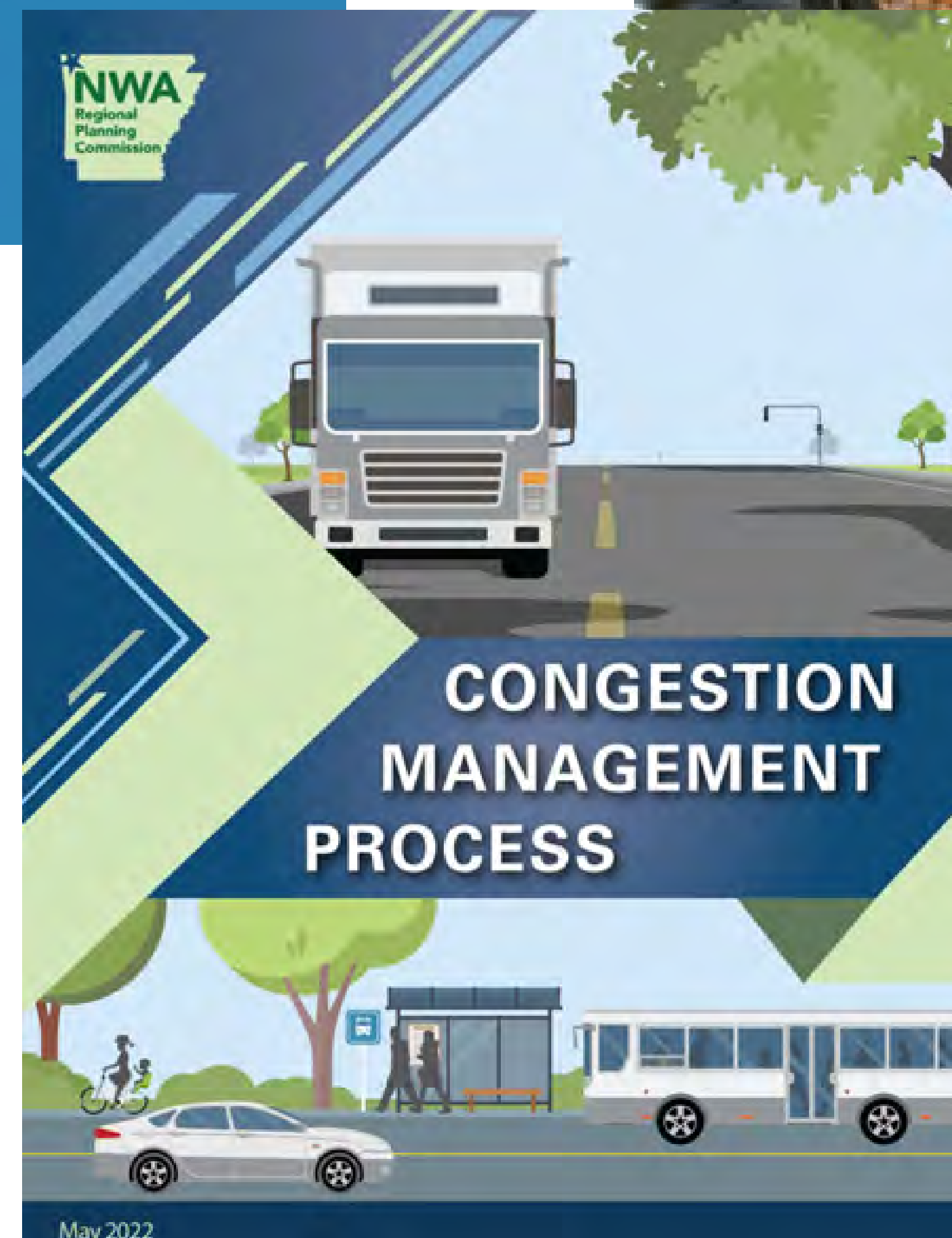
NWA OPEN SPACE PLAN



NWA VISION ZERO PLAN



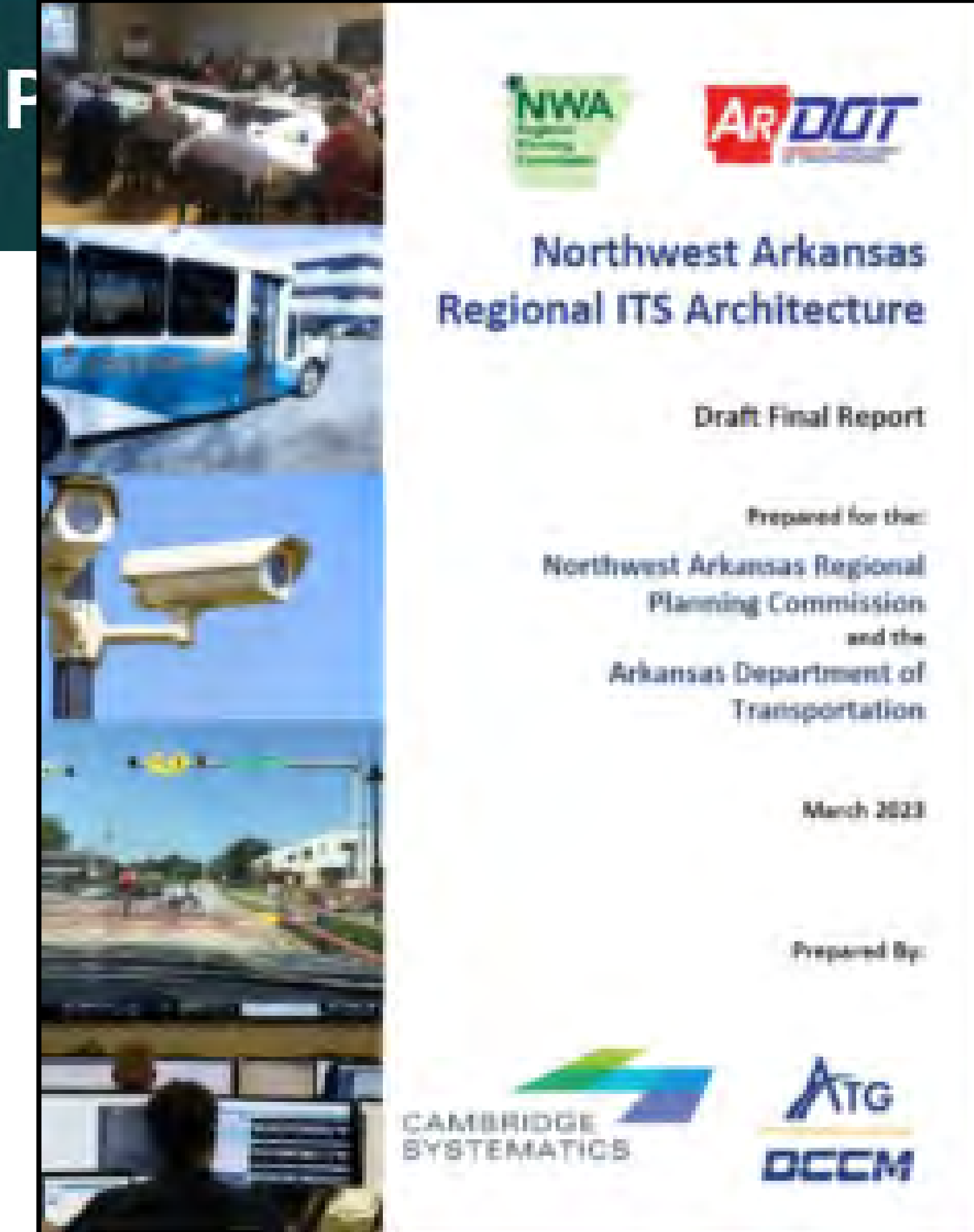
CONNECT NWA



CONGESTION MANAGEMENT PROCESS



NWA TRANSPORTATION SYSTEMS MANAGEMENT AND OPERATIONS



NWA INTELLIGENT TRANSPORTATION SYSTEM

It's time to take the survey!

Take the survey by scanning the QR code below or pulling up the website listed below and pressing the "Take the Survey" button.

ENGLISH / SPANISH



MARSHALLESE



You can answer each question by following along with the upcoming posters.

nwarpc.org/energy-environment-innovation-plan

Reliable Low and Zero-Emissions Energy

Reducing emissions from energy production.



SMALL-SCALE SOLAR

Example: Incentives for solar panels at individual residences and small businesses



MEDIUM-SCALE SOLAR

Example: Incentives and enabling policies for neighborhood/community-scale solar projects and solar panels at large businesses



LARGE-SCALE SOLAR

Example: Incentives for utility-scale solar energy production to supply the power grid



AGRICULTURE AND SOLAR FIELD DEMONSTRATIONS

Example: Incentives for demonstrations that use crop and grazing land for both agriculture and solar energy generation



LOW-GREENHOUSE GAS HYDROGEN

Example: Incentives for hydrogen-combustion capable turbines, pipeline infrastructure, hydrogen fueling stations, and facilities that produce hydrogen using renewables or carbon capture



ELECTRIC GRID UPGRADES NEEDED FOR LOW AND ZERO-EMISSIONS GENERATION SOURCES

Example: Assistance with electric grid interconnection costs for low and zero emissions power generation sources, such as renewables, nuclear, and hydrogen



BATTERY STORAGE

Example: Incentives for batteries to store electricity from renewable energy

Efficiency and Waste Minimization

Making the best use of our resources. Avoiding waste. Doing more with the same amount of (or less) energy and pollution.



MATERIALS MANAGEMENT & RECYCLING

Example: Incentives to demonstrate new processes that use or reuse materials more productively and sustainably over their entire life cycles



TRANSPORTATION CHOICE

Example: Incentives for transportation infrastructure (roads, transit routes, sidewalks, paths, and trails) that help people more easily choose or transition between options such as walking, biking, transit, and micromobility (e-bikes, e-scooters)



CONNECTED COMMUNITIES

Example: Local policies and incentives that encourage more compact, walkable, and transit-oriented development



COMPLETE & GREEN STREETS

Example: Build/retrofit streets to enable safe use and support mobility of all users and to reduce stormwater runoff, improve water quality, and mitigate urban heat island effects



INTELLIGENT TRANSPORTATION SYSTEMS (ITS) & TRAFFIC MANAGEMENT CENTERS (TMCS)

Example: Incorporate technology (cameras, sensors) into traffic monitoring to reduce emissions by improving driving, parking, delivery, and traffic signal efficiency



AGRICULTURAL WASTE

Example: Incentives to treat or capture pollution in manure



LANDFILL AND DIGESTER GAS CAPTURE & REUSE

Example: Incentives for equipment needed to capture methane from landfills or farm digesters (big tanks that hold livestock waste) for use in electricity production, heating, and powering heavy-duty vehicles and equipment



COMPOSTING

Example: Grants to pilot community-wide compost pickup programs



ENERGY EFFICIENCY

Example: Incentives for projects that reduce the energy consumed by equipment, appliances, and technologies

Electrification

Running more things on electricity where it makes sense.

As the electricity sector reduces its emissions through installation and operation of low and zero-emission generation, other sectors can reduce their emissions by switching from traditional fuels to electricity.



PERSONAL ELECTRIC VEHICLES (EVS)

Example: Incentives to reduce upfront barriers to personal electric vehicle ownership (which can include battery, plug-in hybrid, and hydrogen fuel cell vehicles)



ELECTRIC FLEETS AND EQUIPMENT

Example: Incentives for replacement or retrofit of current bus, truck, train, barge, agricultural, and port equipment with all-electric or fuel cell equivalents



ELECTRIC VEHICLE SUPPORTING INFRASTRUCTURE

Example: Incentives for electric vehicle charging equipment and electrical upgrades necessary to install charging equipment



ELECTRIC APPLIANCES

Example: Incentives to retrofit existing residential and commercial buildings with all-electric appliances (e.g., replacement of gas furnaces with highly efficient electric heat pumps)



ZERO-ENERGY BUILDINGS

Example: Incentives for the construction of buildings that are air-tight, well insulated, and energy efficient

Workforce and Technical Assistance

Getting people ready to work new jobs in renewable energy and sustainability.



WORKFORCE DEVELOPMENT

Example: Incentives to technical colleges or similar institutions to create or expand renewable energy, energy efficiency, and electric vehicles technician training programs



TECHNICAL ASSISTANCE

Example: Provide information and training to public and private organizations to implement Energy & Environment Innovation measures (e.g., train water/wastewater engineers about greenhouse gas-reducing equipment and practices)

Sequestration

Capturing pollutants out of the air or before they are emitted.



CARBON CAPTURE & SEQUESTRATION (CCS)

Example: Incentives to install carbon capture equipment, for the development of carbon dioxide pipelines, and sequestration (storage) wells

Definitions

Carbon Capture - The trapping of carbon dioxide just after it has been emitted but before it can enter the atmosphere. The carbon dioxide is then compressed into a liquid and stored in tanks or distributed via pipelines to sequestration (storage) wells.

Carbon Sequestration - The long-term storage of captured carbon, often by being pumped into a storage well deep underground.

Note: CCS projects are often paired with large greenhouse gas (GHG)-emitting facilities such as energy, manufacturing, or fuel production facilities.



STREAMLINE PERMITTING FOR CARBON SEQUESTRATION WELLS

Example: Implement state-level permitting of sequestration wells to speed and streamline the permitting process



TREES & NATURAL AREAS - CONSERVATION, RESTORATION & EXPANSION

Example: Incentives to conserve natural lands and to plant trees and native plants along streets, highways, interstates, and between agricultural fields



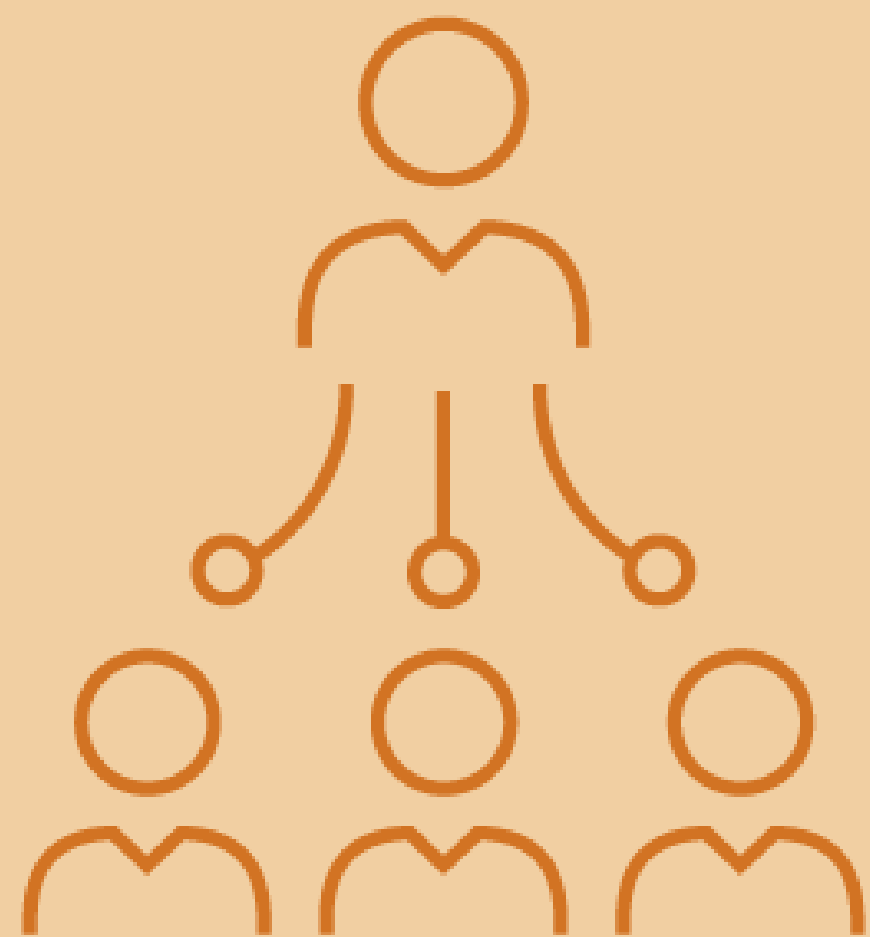
SUSTAINABLE FARMING METHODS

Example: Incentives for farmers and ranchers to implement and document sustainability best practices that reduce energy use, fertilizer use, and/or sequester carbon



THANK YOU!

Share our
Facebook
posts!



Take the
survey!



Have an
idea?



Watch
your email
for project
updates!

