

Kris Reynolds - American Farmland Trust

NATURAL CLIMATE SOLUTIONS: A WIN-WIN SOLUTION FOR OUR ENVIRONMENT AND OUR ECONOMY



SAVING THE LAND THAT SUSTAINS US



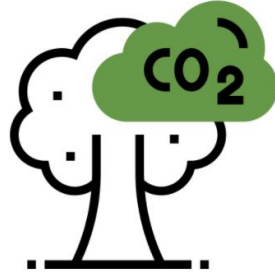
- Protecting farm and ranch land
- Promoting sound farming practices
- Keeping farmers on the land



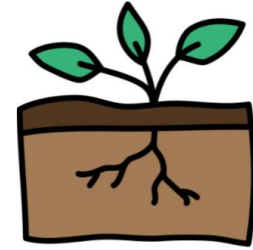
The Role of Soils



We have lost more than half of the organic carbon originally stored in U.S. soils



The soil organic carbon pool is up to 4X the amount of carbon stored in the vegetation on land



Rebuilding soil health is crucial to sustain agriculture

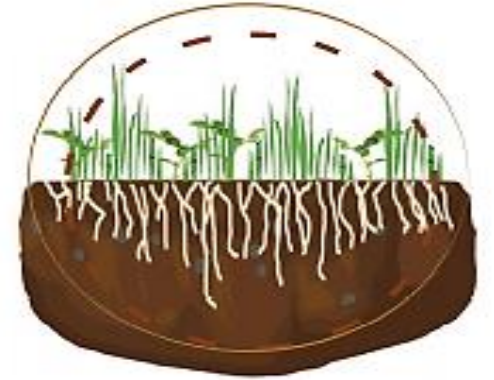
Co-benefits of Cover Crops & No-till



SOIL TEMPERATURE AND
MOISTURE REGULATION



WINTER AND EARLY SEASON
WEED SUPPRESSION



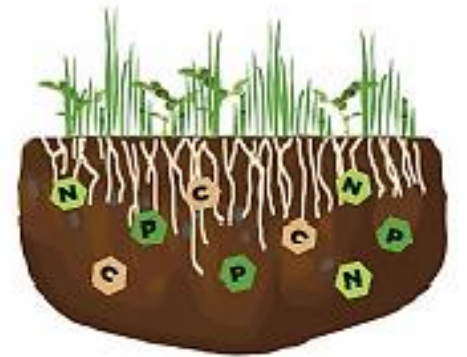
IMPROVED SOIL
STRUCTURE



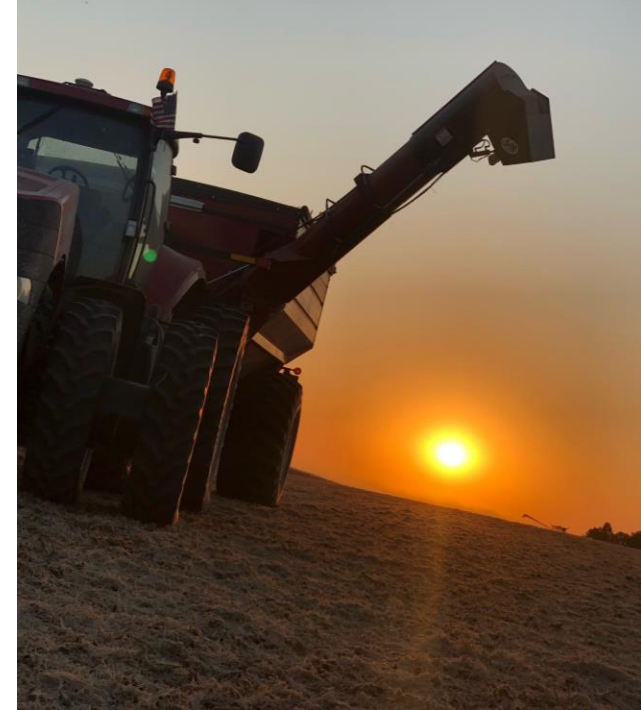
REDUCED SOIL LOSS FROM
WIND AND WATER



INCREASED DIVERSITY OF SOIL
BIOLOGICAL COMMUNITIES



NUTRIENT CAPTURE AND
AVAILABILITY



Cover Crops on
the Farm!

Soil Health Case Studies

PARTIAL BUDGET ANALYSIS

- Estimate the net economic benefits farmers have experienced from investing in soil health practices (e.g., no-till, strip-till, cover crops).

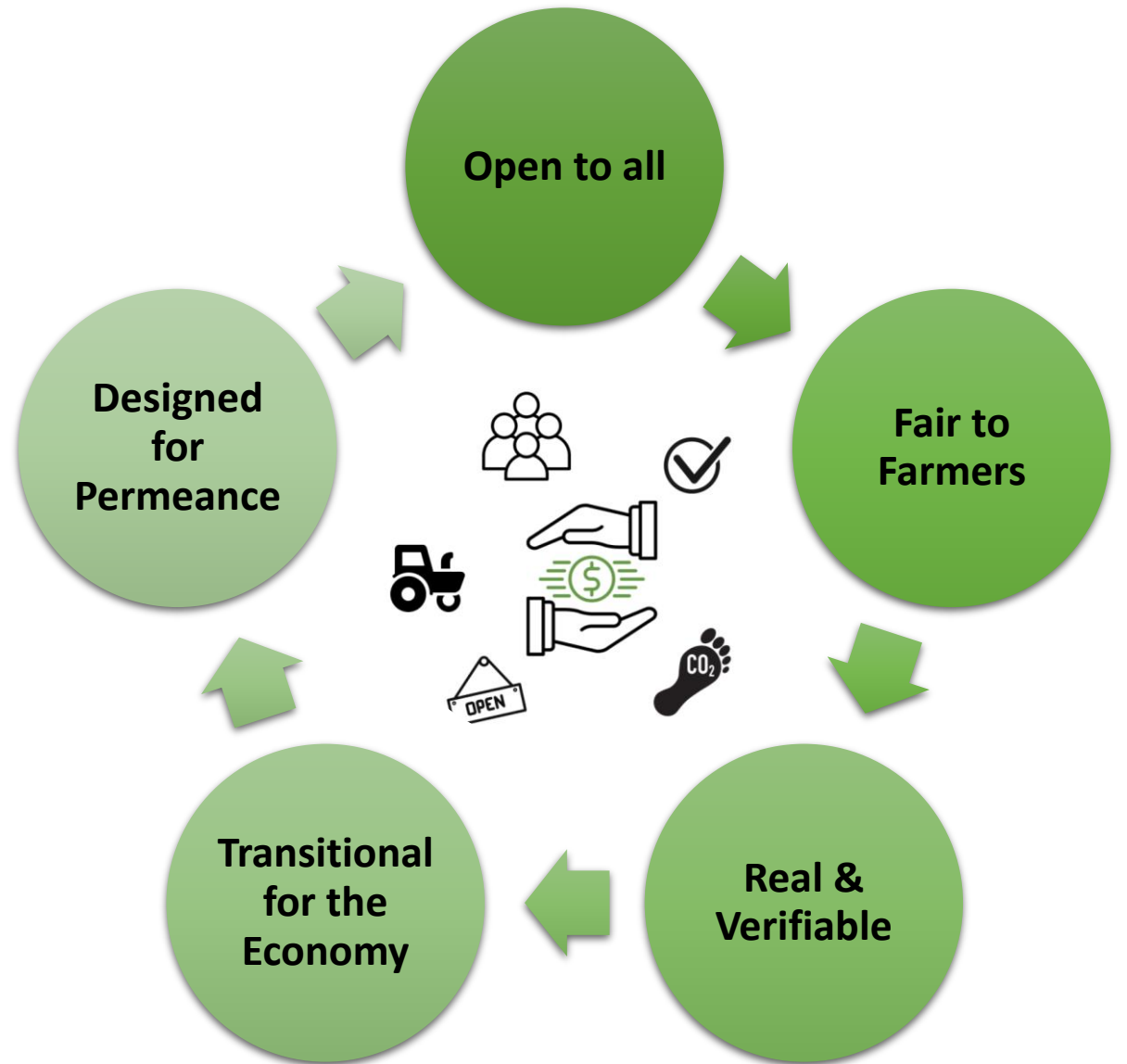
USDA'S NUTRIENT TRACKING TOOL & USDA'S COMET-FARM TOOL

- Quantify the water quality and climate benefits of these practices.

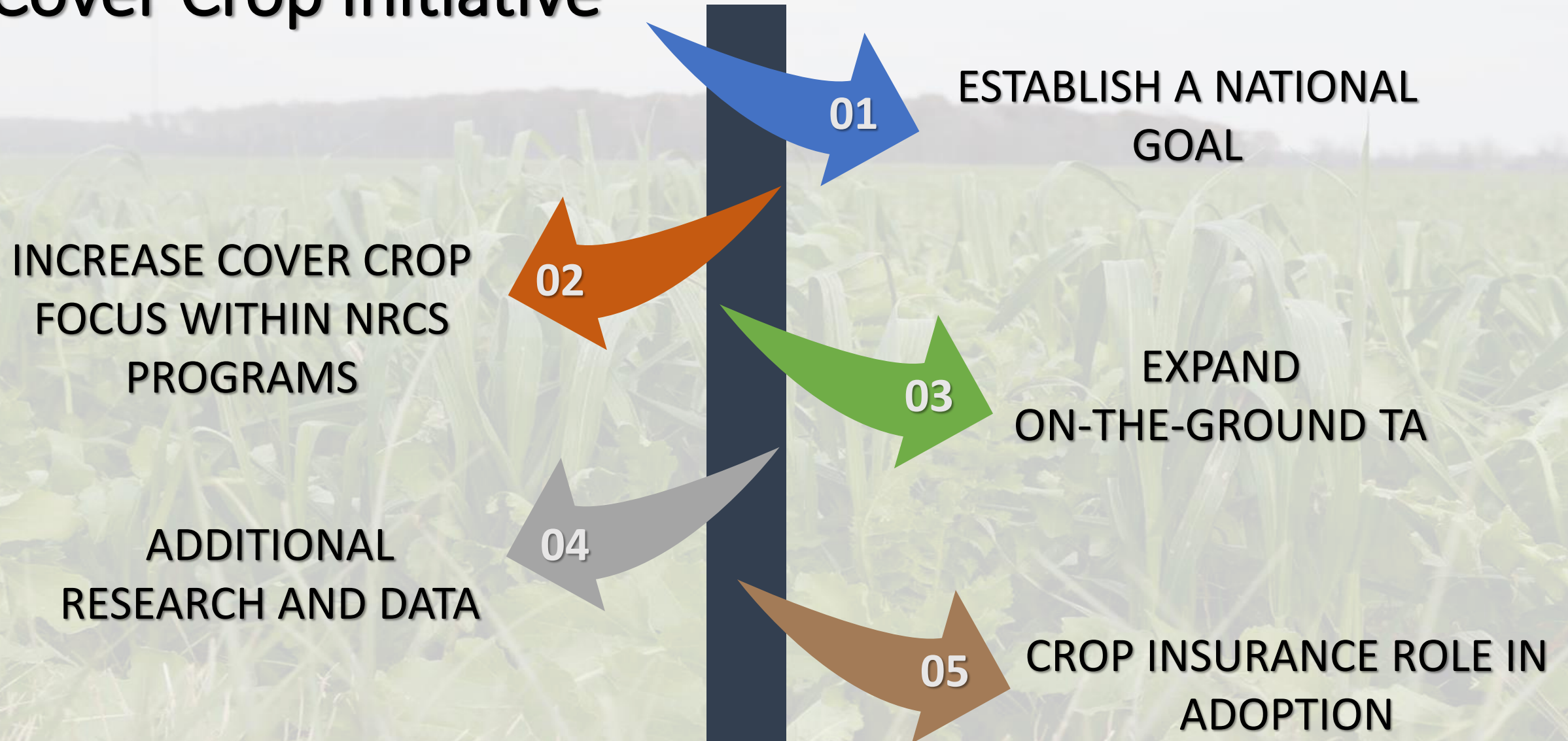


<https://farmland.org/soil-health-case-studies/>

Carbon Markets



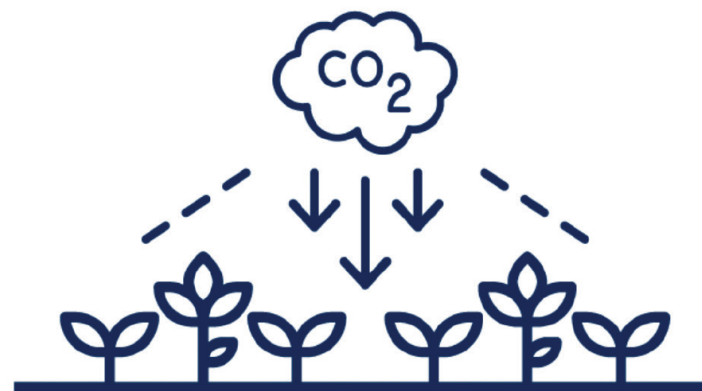
Cover Crop Initiative





Crop Insurance Premium Discount Program

Leveraging State, Federal and Private funding



IF COVER CROPS WERE PLANTED ON
25% OF ROWCROP ACRES IN
ILLINOIS, IT WOULD BE EQUAL TO

REMOVING 633,323

PASSENGER VEHICLES FROM THE
ROAD FOR A YEAR

*Innovative, efficient approach
to accelerating cover crops on
a big scale*

NUTRIENT, SEDIMENT, & GHG REDUCTIONS FROM THE 2021 FCSS PROGRAM

+167,000 lbs
OF NITRATE-N

Kept in the field

~15,000 lbs
OF
PHOSPHORUS

Kept in the field

3,612
TRUCKLOADS

*of sediment kept out of
waterways*

*The carbon dioxide
equivalent of removing*

5,359
PASSENGER
CARS FROM THE
ROAD



Farmland Protection as a Climate Tool

- ✓ **11 million acres lost** or threatened between 2001-2016
- ✓ Agriculture is **necessary for achieving** climate goals
- ✓ When farmland is developed, **we lose both**:
 - ✓ Existing carbon
 - ✓ Future sequestration potential
- ✓ Development **disproportionately impacts the nation's best land**, pushing production to marginal lands
- ✓ Low-density residential is associated with **higher emissions** than urban high-density

