# $CO_2$ PIPELINES IN THE MIDWEST

LIQUID ENERGY PIPELINE ASSOCIATION

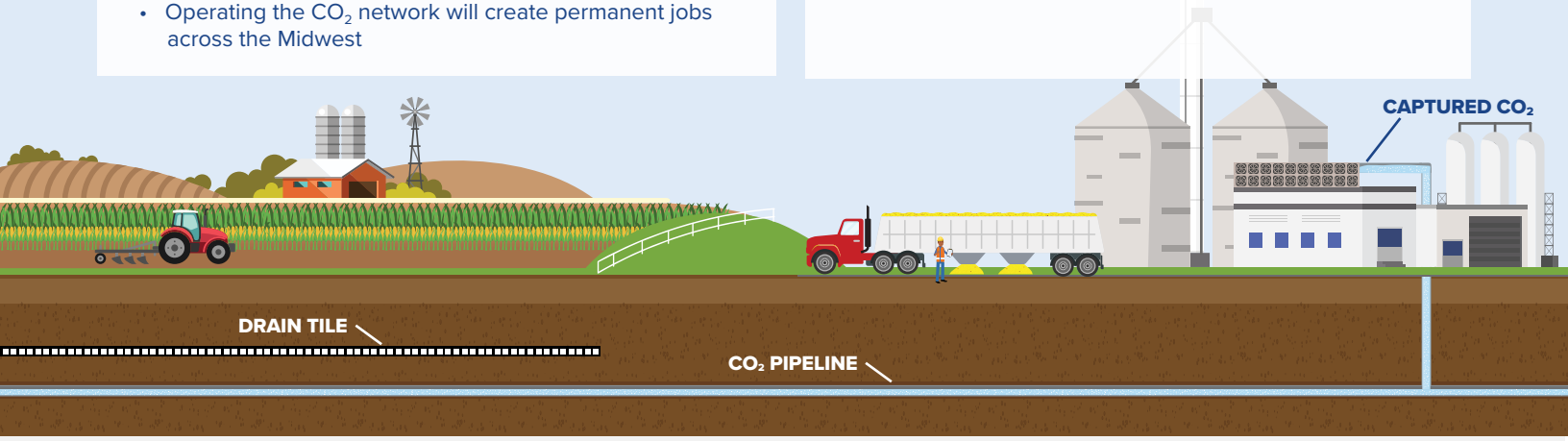
**Just like other sectors of the economy, the energy focus and transition on lowering carbon emissions brings new challenges for producers, but opportunity for opening new markets. $CO_2$ pipelines, along with capturing carbon emissions from ethanol and fertilizer facilities to be permanently stored underground, are poised to ensure the Midwestern ag economy stays vibrant for decades to come.**

## BENEFITING MIDWESTERN COMMUNITIES

- $CO_2$ pipelines will help corn growers and ethanol producers stay viable during the energy transition
- New markets for midwestern ethanol will come from the lower carbon ethanol made possible by $CO_2$ pipeline partnerships
- Fertilizer production and manufacturing in the Midwest will also benefit from $CO_2$ pipelines reducing their carbon emissions
- Landowners will receive payments for their easements even as those lands are returned to income producing farmland
- Operating the $CO_2$ network will create permanent jobs across the Midwest

## LAND USE COMPENSATION

- Paid in full prior to start of construction
- 5-yr yield loss compensation paid even if actual yield loss is less or ends sooner
- Based on identified crop types and percentage of land used for crops
- Accounts for CSR2 values for tillable acres and soil quality and productivity
- Reflects current and historical crop yields
- Benefits from work with each landowner and tenant to address unique farming and ranching operations




## DRAIN TILE MANAGEMENT

- Direct landowner discussions locate and identify drain tiles and systems
- Construction design routes $CO_2$ pipelines at least 1' below drain tiles
- Third party agricultural and county monitors oversee construction to ensure compliance with management plans
- Flexibility to use local contractors or compensate landowners if they prefer to restore tile system to previous condition

## CONSTRUCTION MITIGATION & RESTORATION

- Specialized restoration companies retained to develop and execute construction mitigation and restoration plans
- Construction impacts are temporary and lands are returned to pre-construction conditions or better
- Accounts for the unique conditions of regional landscapes and land use practices
- Soils are segregated, protected and decompacted upon replacement