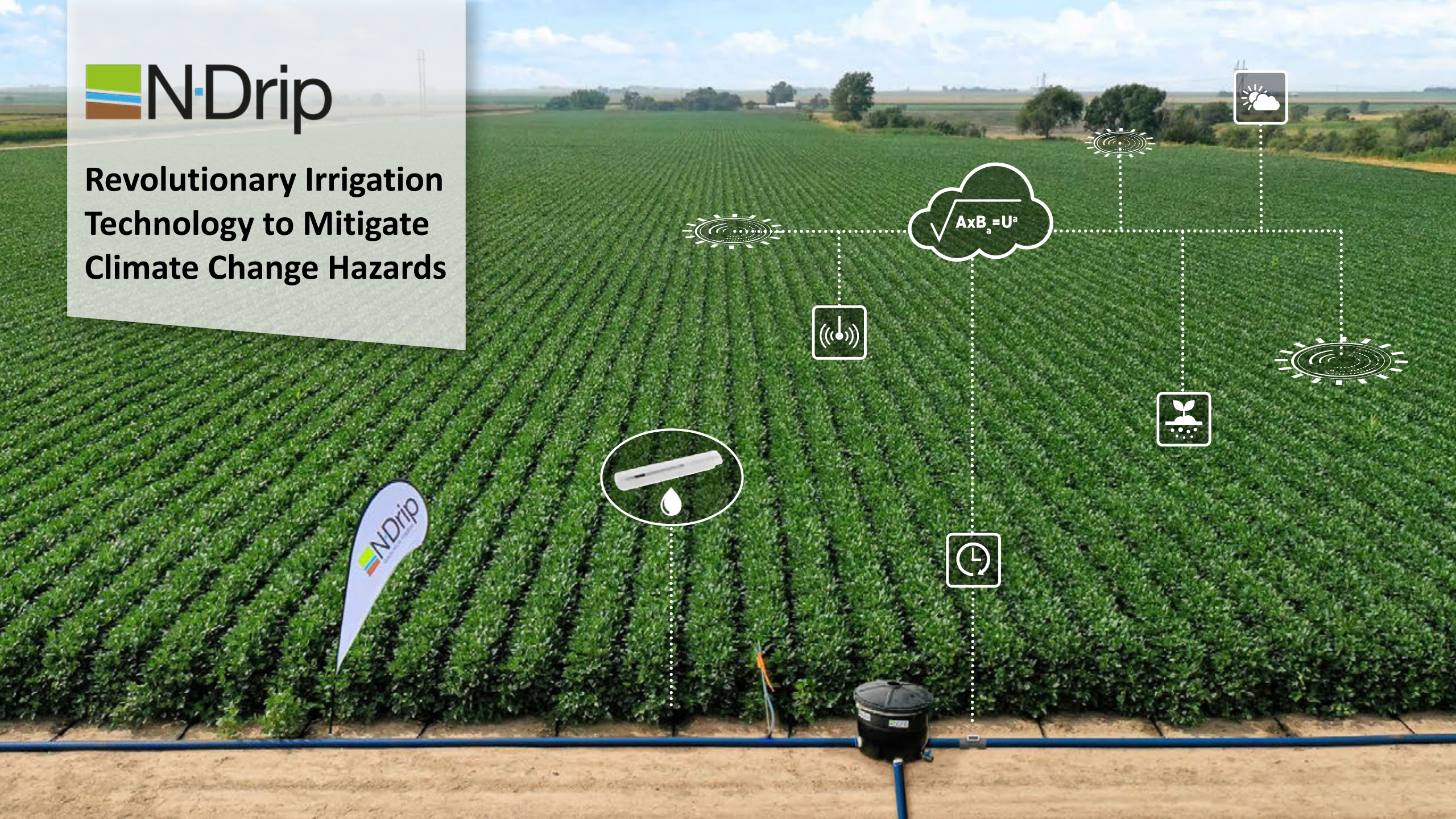
N-Drip

Revolutionary Irrigation Technology to Mitigate Climate Change Hazards



70%

of annual water withdrawals goes to **Agriculture**

85%

of global irrigation is carried out by wasteful **flood**

Sustainable farming is a global necessity

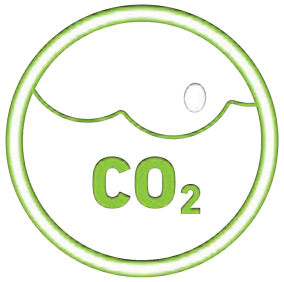
Source: Aquastat FAO, World bank

Flood Irrigation is No Longer Sustainable

Water Waste

Lower Yield

Fertilizer Overuse



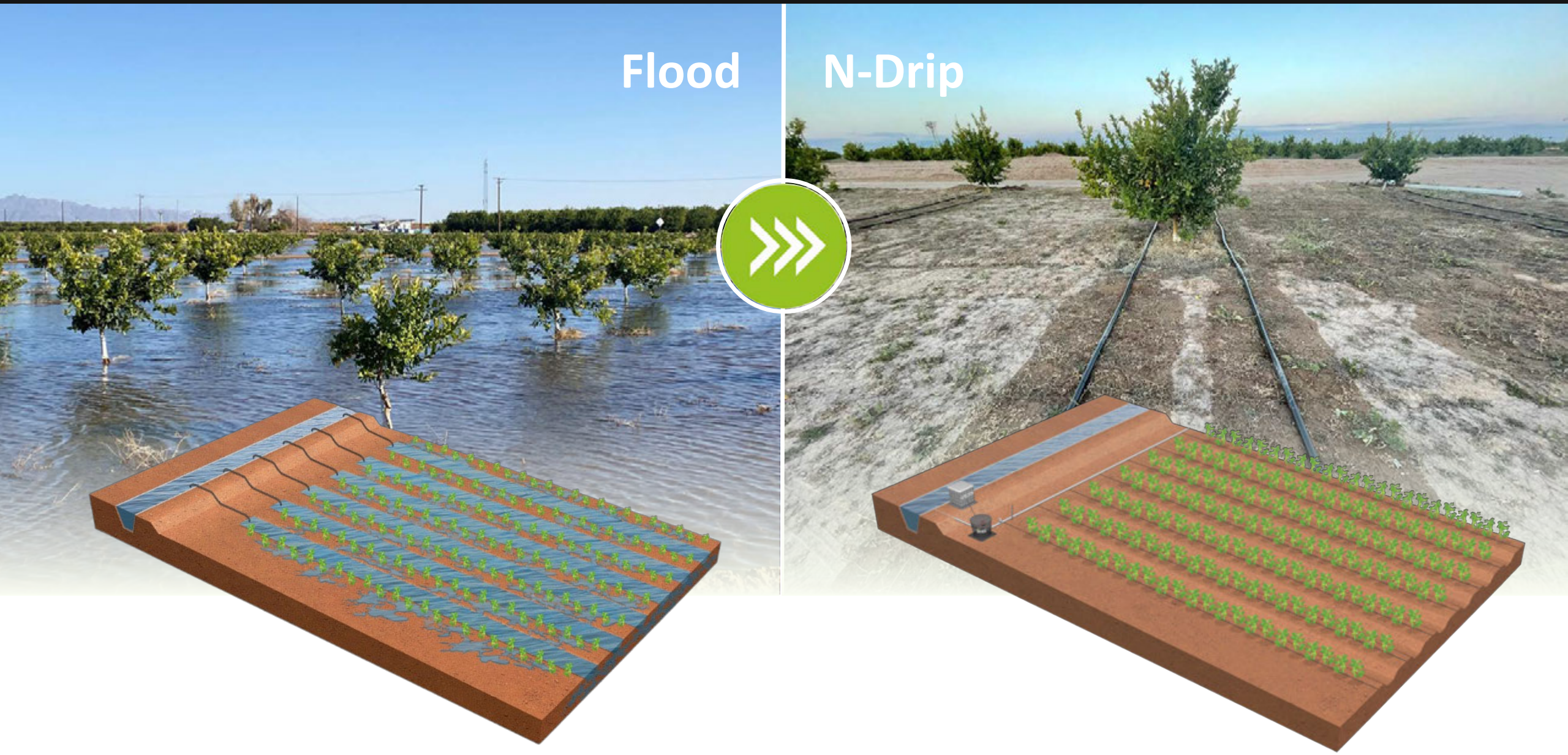
Greenhouse Gases

Soil Erosion

Methane

Hard Labor

N-Drip Transforms Flood to Gravity-Powered Micro-Irrigation



Citrus in Yuma, Arizona - Before and after the transition from flood to N-Drip

N-Drip – The only sustainable solution to save significant amount of water

- ☑ Uses existing flood infrastructure
- ☑ Efficiently irrigate based on gravity power alone
- ☑ Operates with natural water without expensive filtration

Resource efficiency
Up to 70%
Water saving

Higher food security
Up to 45%
Yield increase

Reduce CO_2 footprint
Up to 71%
CO_2 reduction

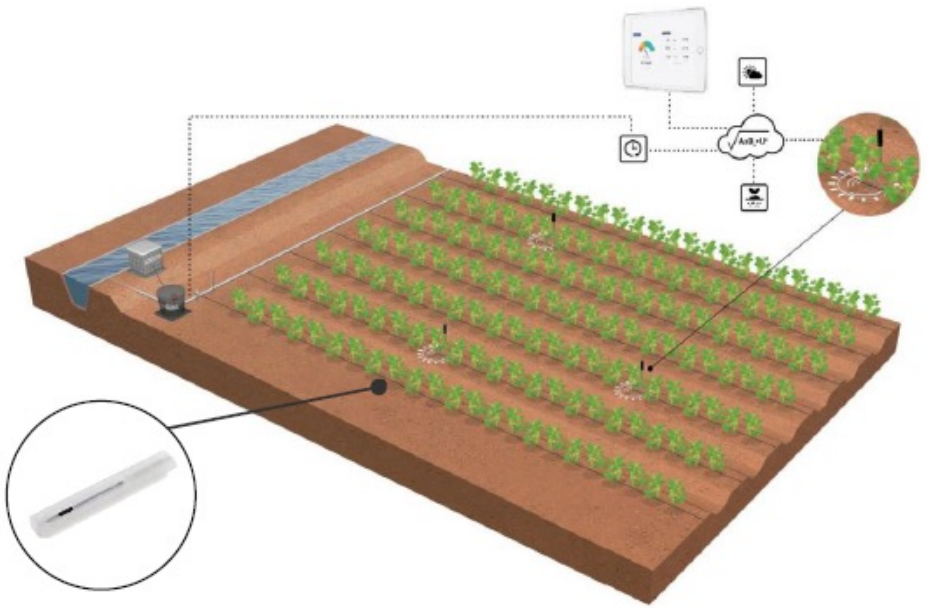
Soil conservation
Up to 50%
Fertilizer usage reduction

Precise irrigation powered by gravity alone, backed by reliable data

N-Drip gravity powered irrigation

☑ Existing infrastructure ☑ No pumps ☑ No filters

- ✓ **Patented gravity-based technology** / no external energy required
- ✓ **Saves water use** and manages water flow
- ✓ **Reduces CO_2 and methane emissions** relative to flood irrigation
- ✓ **Maximizes yield potential**
- ✓ **Reduces fertilizer use**
- ✓ **Protects soil fertility** and **reduces land depletion**
- ✓ **Composed of 100% recyclable materials**



N-Drip Connect

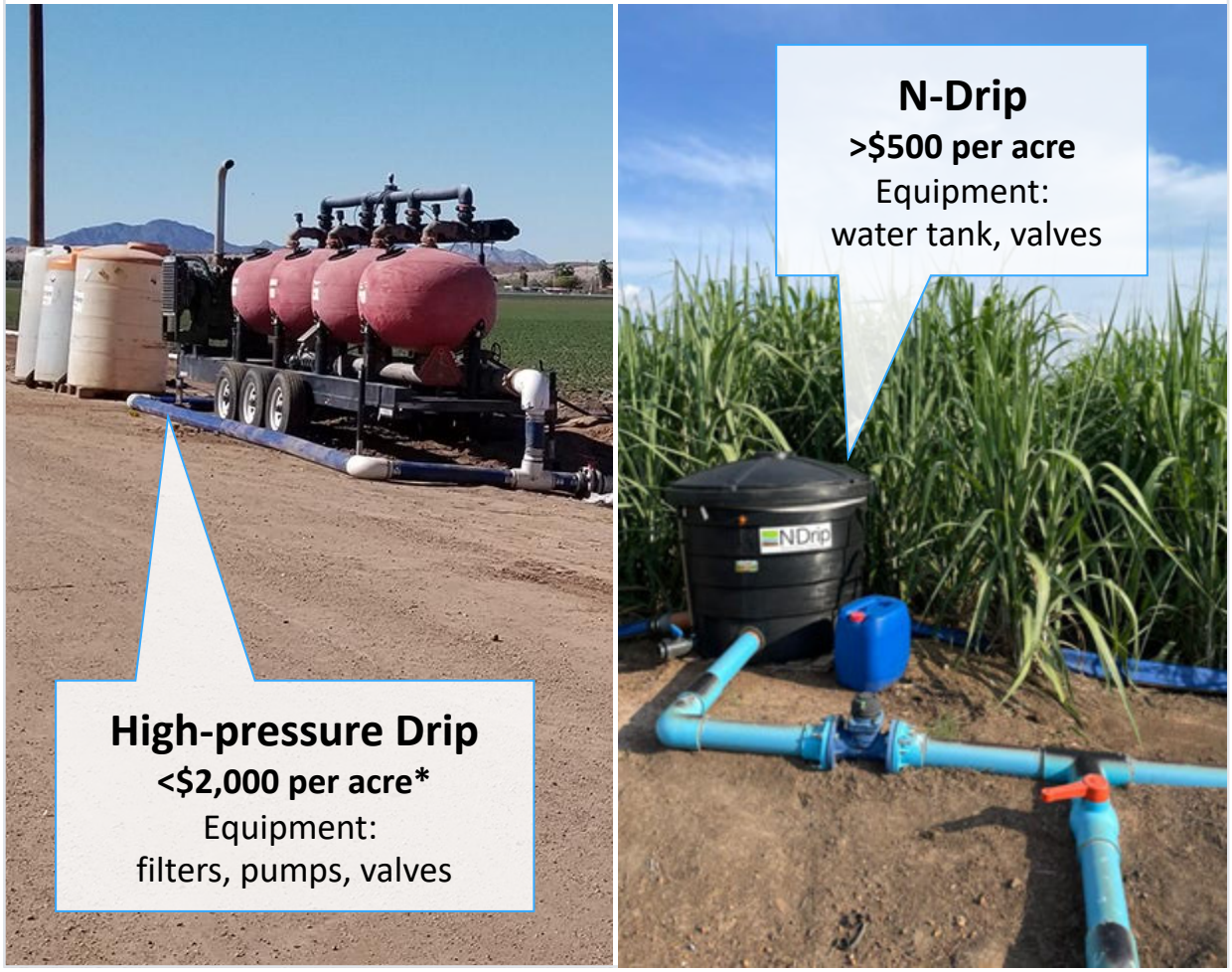
☑ Monitor ☑ Act ☑ Optimize

- ✓ **Game-changing sensor and data analytics technology** – more accurate and reliable
- ✓ Offers **crop and soil-specific** irrigation and fertilization recommendations
- ✓ **Simple, easy-to-use application**
- ✓ **Full service** supported by teams of agronomist

Combined solution of efficient irrigation and agronomic decision support system to achieve optimal value for growers while directly contributing to UN SDGs

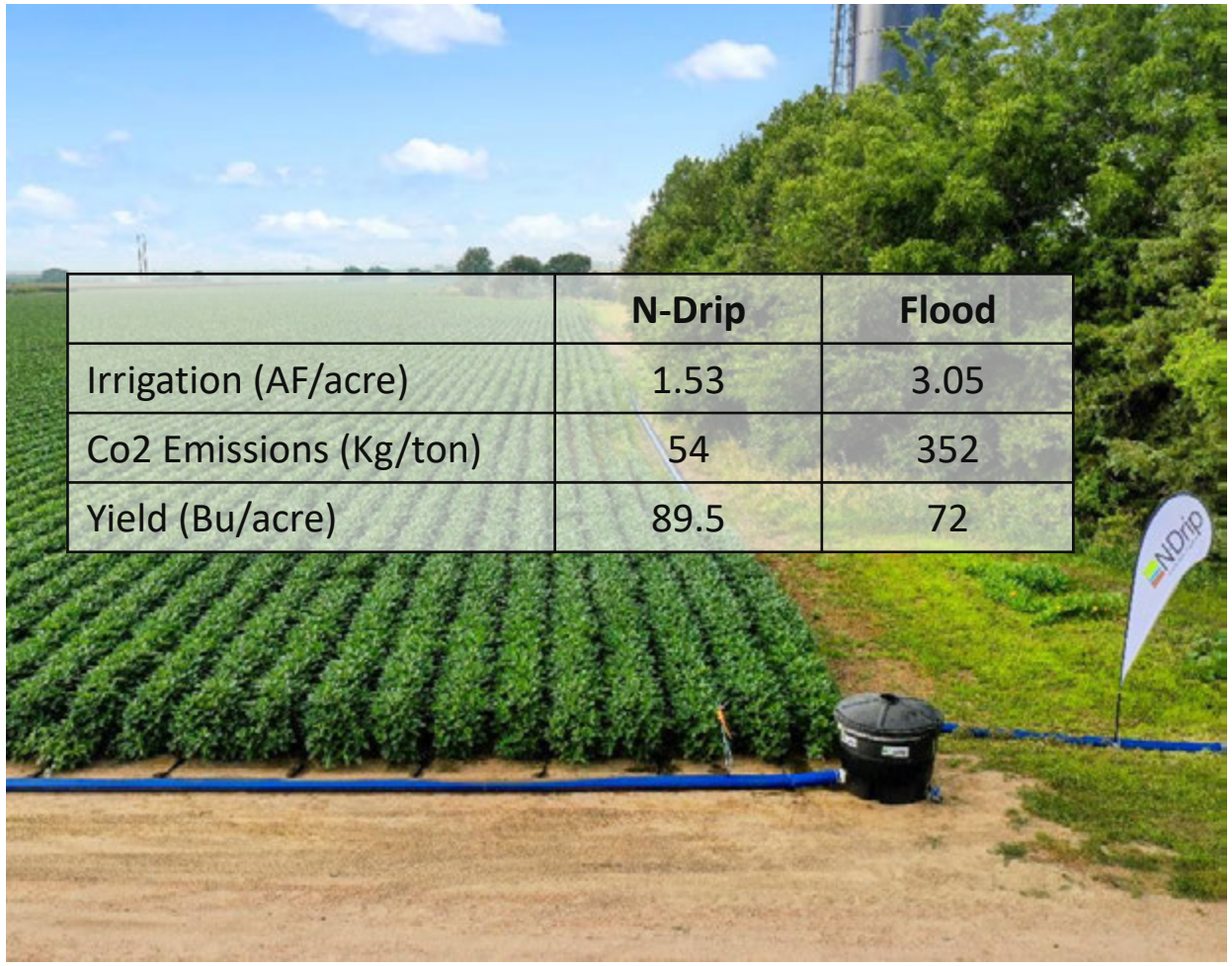
A Picture is Worth 1,000 Words…

Simple and affordable infrastructure vs. pressurized drip



*Not including cost of energy

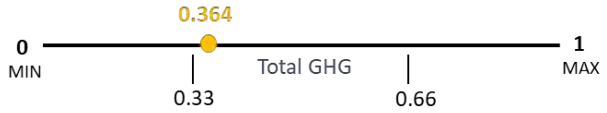
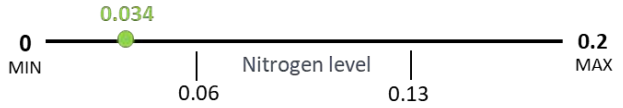
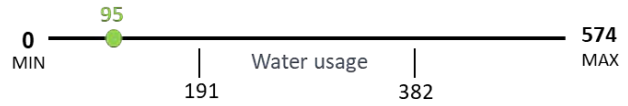
Higher yield vs. flood, using 50% less water



	N-Drip	Flood
Irrigation (AF/acre)	1.53	3.05
Co2 Emissions (Kg/ton)	54	352
Yield (Bu/acre)	89.5	72

Environmental ID - Generated by N-Drip Connect

Case study: Reducing the carbon footprint in Potato

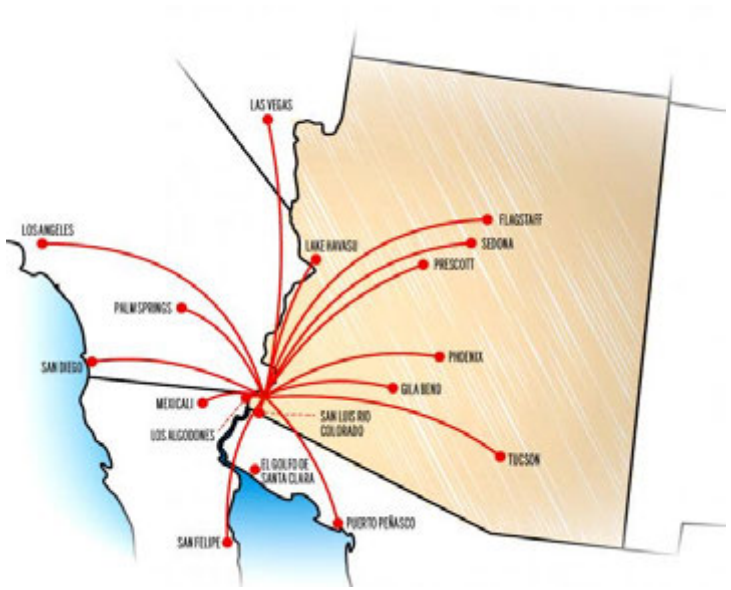
	Units	Kg potato	Per acre	
Emissions	Kg CO_2 eq	0.364	872	 0.5 is the global average based on research published by *Poore & Nemecek (2018) - Reducing food's environmental impacts through producers and consumers*
	Kg N_2O	0.34	1.3	 0.1 is the global average based on research published *Arezoo Taghizadeh-Toos et.al. (2019) - Regulation of N_2O emissions from acid organic soil drained for agriculture*
Water Footprint	Liter	95	2,280,000	 287 is the global average based on research made by *Institution of Mechanical Engineers published by The Guardian (2013) - How much water is needed to produce food and how much do we waste?*
Nitrogen Input	Kg N	0.005	108	 0.005 is the global average based on research published by *Magdalena Pierer et.al. (2014) - The nitrogen footprint of food products and general consumption patterns in Austria*
Nitrogen Leaching	Kg N	<0.001	0.2	 0.005 represent the actual amount of Nitrogen input in soil

Arizona is Home For N-Drip in North America

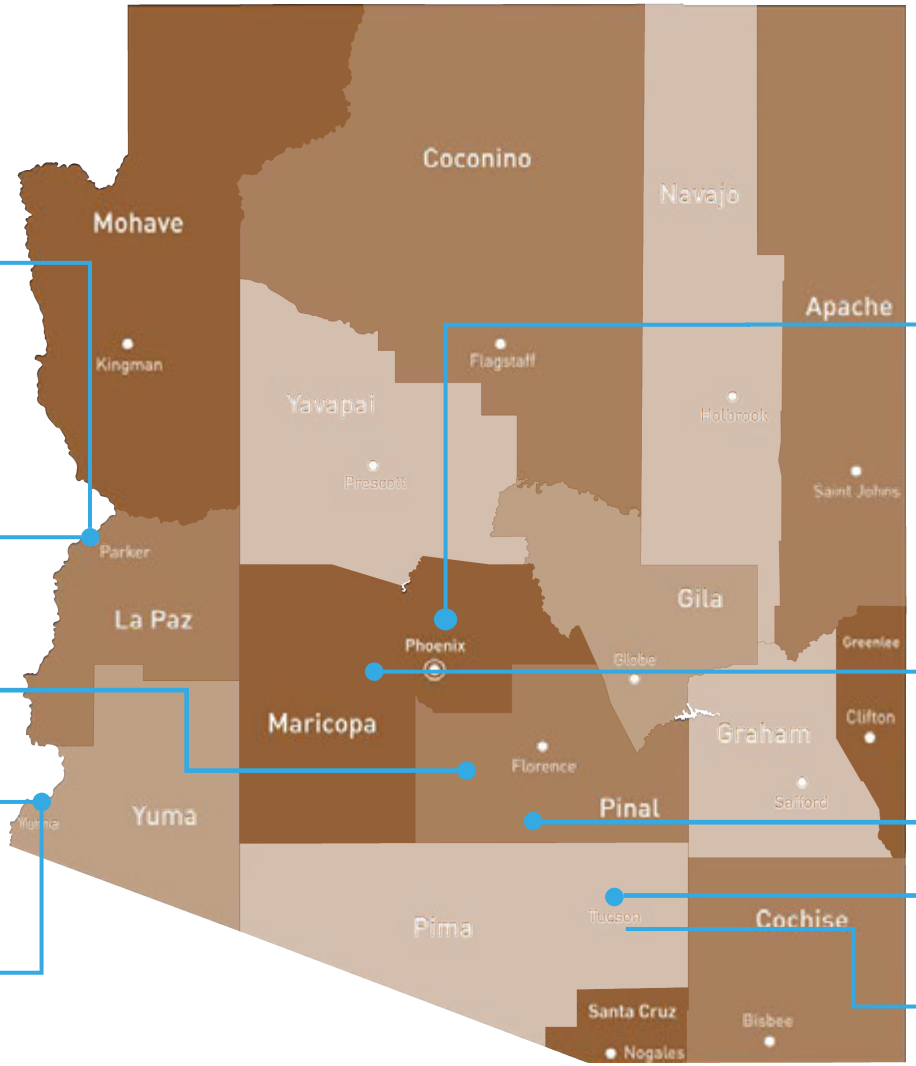
CAP
CENTRAL ARIZONA PROJECT

GREAT SEAL OF THE COLORADO RIVER INDIAN TRIBES

ARIZONA
COMMERCE AUTHORITY



N-Drip in Arizona



CRIT Team

Parker | 3500 acres

Casa Grande | 500 acres

Yuma | 5000 acres

Yuma Team

Head office

Buckeye | 500 acres

Eloy | 500 acres

Tucson | 100 acres

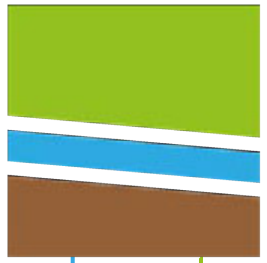
Central Arizona Team

Arizona - Installations & Results

- Over 1,500 acres installed

- Alfalfa fields showing 49% water savings more than 3 acre-feet per acre

Business Models Responsive to Market Opportunity



Emerging Water Shortage Driver*

1. Water savings sales:
   - Water savings solutions to water utilities
   - Offsetting water savings
   - Public grants-based sales

Sustainable Supply Chain Driver

1. Strategic partnership with PEPSICO
2. Partnership with Consumer Products Goods corporates (CPGs)
3. Harnessing impact-oriented financial institutions

- Irrigation distributors
- Direct sales to growers

* Current focus is on Southwest US

Thank You!
Come N-Drip with Us!