



Food, Energy, Water Nexus: Is More Attention Needed?

Trish Cozart
National Renewable Energy Laboratory



55

Channel Partners

25

Portfolio Companies

20

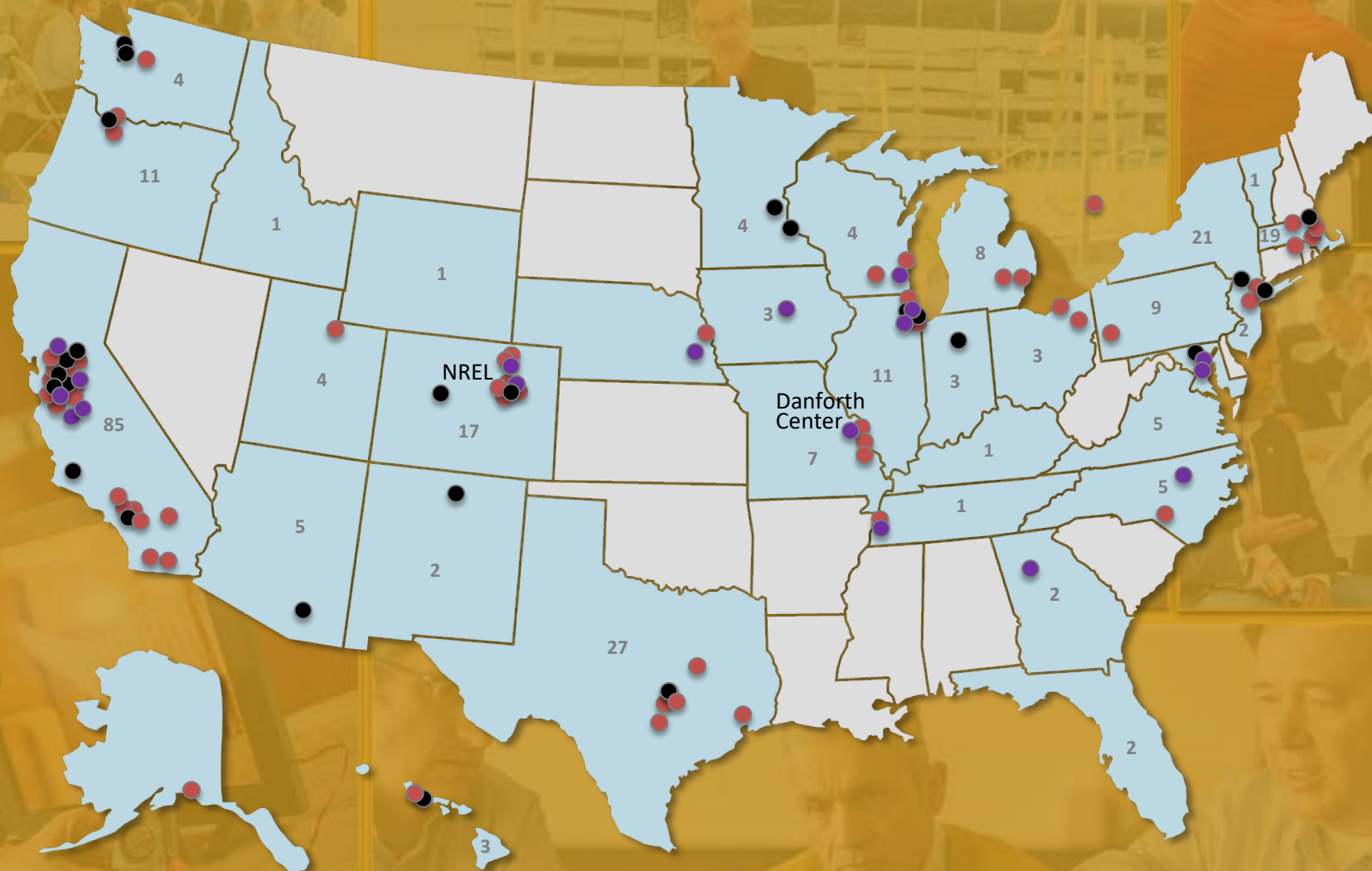
External Advisory
Board Members

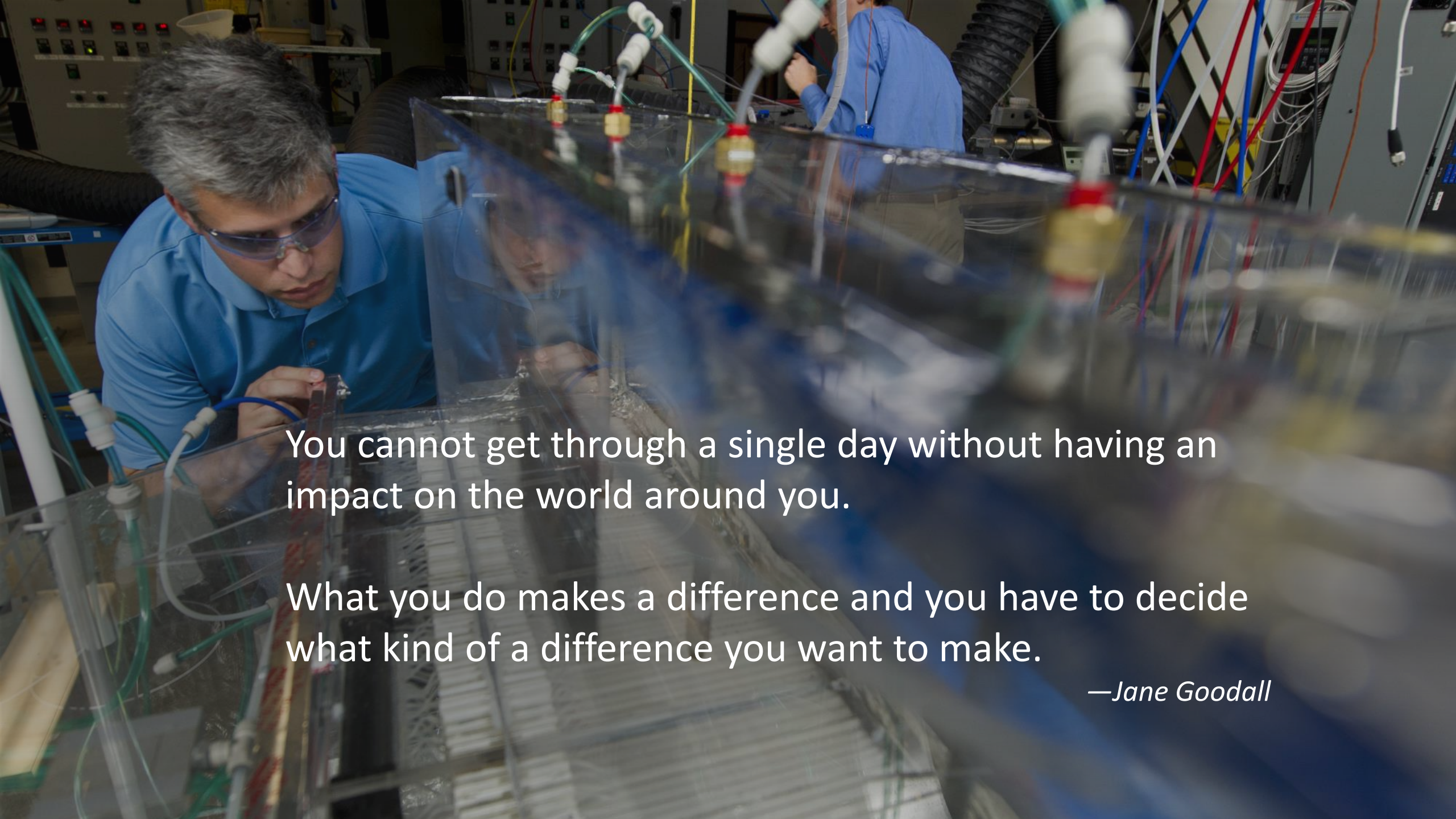


IN² Coverage

277

of Applications
(Rounds 1-5)




A man with grey hair, wearing a blue polo shirt and safety glasses, is focused on working with a complex scientific apparatus. The apparatus consists of a large, clear acrylic enclosure filled with various components, including numerous tubes (some green, some clear), valves, and electrical wiring. In the background, another person in a blue shirt is partially visible, also working on the equipment. The setting appears to be a laboratory or a technical workshop.

You cannot get through a single day without having an impact on the world around you.

What you do makes a difference and you have to decide what kind of a difference you want to make.

—Jane Goodall

A photograph of a laboratory setting. In the foreground, a female scientist with dark hair and glasses, wearing a white lab coat and blue gloves, is working with a complex piece of equipment featuring many white tubes. To her left is a large, white, vertical cylindrical device. In the background, another person in a white lab coat is working at a different lab bench. The lab benches are cluttered with various scientific equipment, including pipettes, containers, and a laptop. The text "Under Invested. High Impact." is overlaid in the center of the image.

Under Invested.
High Impact.

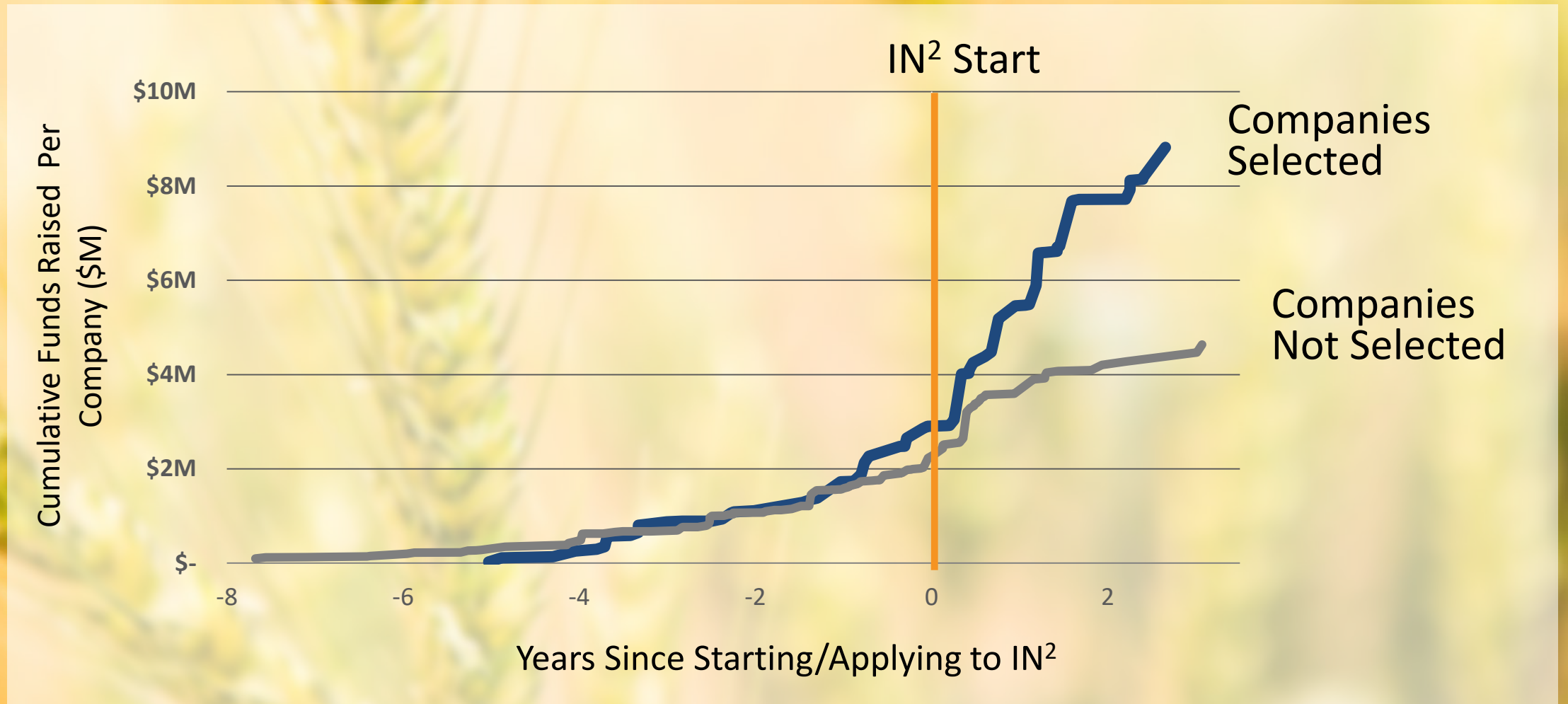


Energy

Emissions

Water

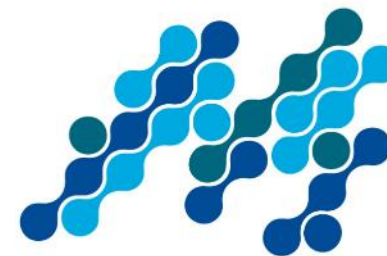
Rate of Investment in IN² Companies vs Applicants



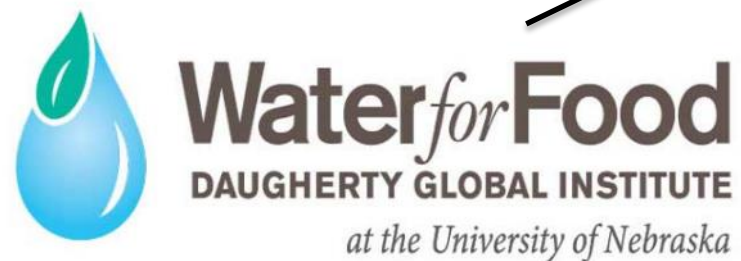
- 
- A person wearing a light blue shirt and dark pants is standing in a field of tall green rice plants. They are holding a black smartphone in their right hand, looking at the screen. The background is a bright, slightly overexposed sky. The rice plants are in the foreground and middle ground, with some showing signs of being harvested or damaged.
1. Water Conservation
 2. Food System Inefficiencies
 3. Sustainable Production through Digitization

Colorado
State
University

UC DAVIS



THE WATER COUNCIL



Water Conservation

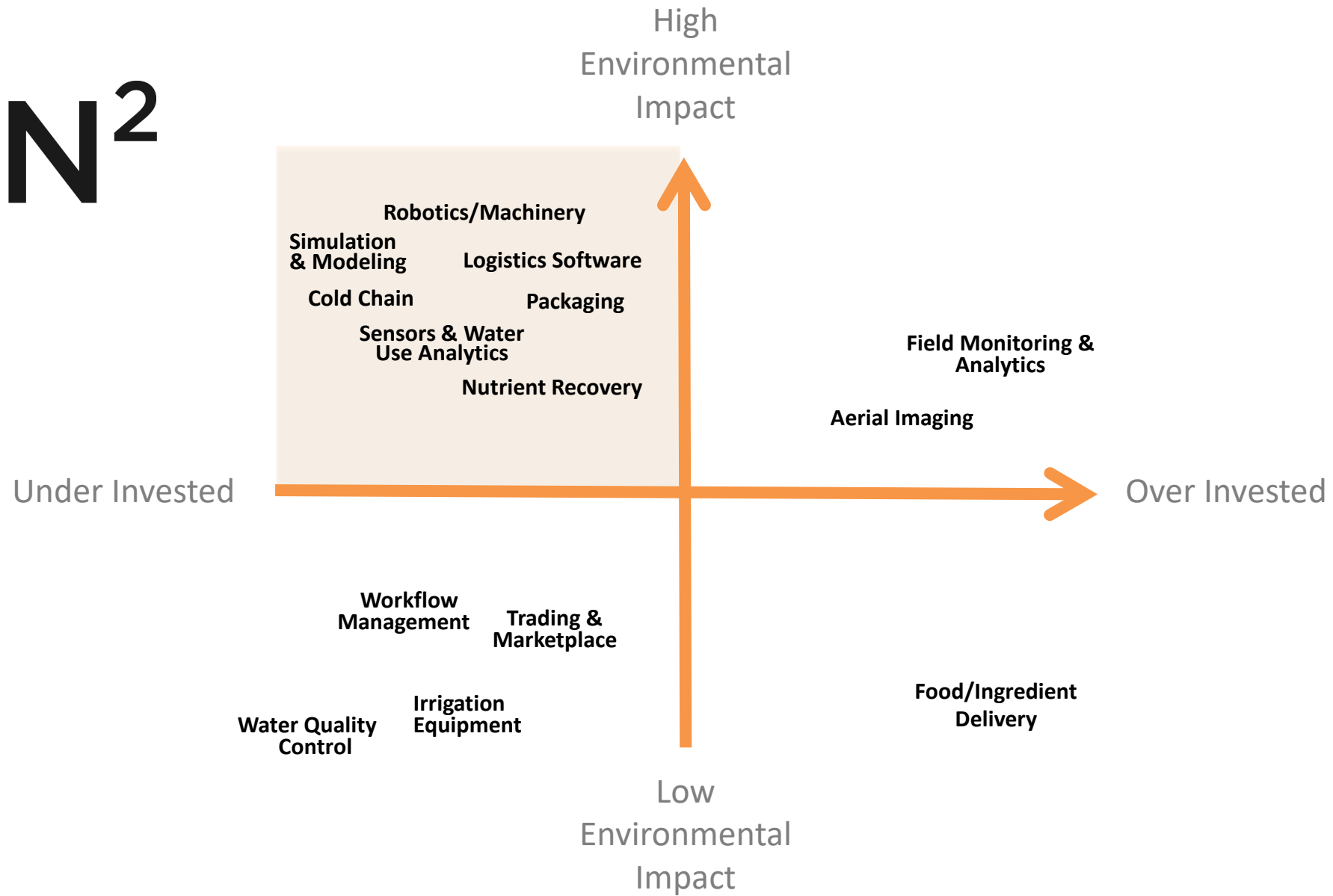
Segment	Total \$ Amount	Deal Volume	Energy Reduction	GHG Reduction	Water Conservation
Wireless Control	\$3.3M	3	High	Medium	Medium
Irrigation Equipment	\$10.3M	6	Medium	Low	Medium
Water Quality Control	\$12.9M	3	Low	Low	High
Sensors & Water Use Analytics	\$23.2M	6	Medium	Medium	High
Predictive Maintenance	\$46.3M	7	High	Medium	Medium
Nutrient Recovery	\$64.7M	4	Medium	High	High
Smart/Automated Irrigation System	\$65.4M	16	Medium	Medium	High
Aerial Imaging	\$204.4M	21	High	Medium	High

Food System Inefficiencies

Segment	Total \$ Amount	Deal Volume	Energy Reduction	GHG Reduction	Water Conservation
Restaurant Logistics	\$4.6M	2	Medium	Medium	Low
Direct to Customer	\$6.6M	6	Medium	High	Medium
Secondary Use	\$8.7M	2	Medium	Medium	Medium
Logistics Software (Traceability)	\$12.5M	8	High	High	Medium
Cold Chain Transportation	\$15.5M	5	High	High	Low
Logistics Hardware	\$134.9M	13	High	High	Low
Packaging	\$200.4M	21	High	High	Medium
Food/Ingredient Delivery	\$576.4M	20	Low	Low	Low

Sustainable Production through Digitization

Segment	Total \$ Amount	Deal Volume	Energy Reduction	GHG Reduction	Water Conservation
Simulation / Modeling	\$3.65M	5	High	High	High
Workflow Management	\$9.47M	8	Low	Low	Low
Trading & Marketplace	\$18.7M	7	Low	Low	Low
Weather & Climate	\$51.9M	8	Medium	Medium	Medium
Robotics / Machinery	\$72.8M	20	High	High	High
Field Monitoring & Analytics	\$112.4M	39	Medium	High	High
Farm Management Platform	\$144.9M	18	Medium	Medium	Medium
Farm Intelligence	\$195.4M	13	Low	Medium	Medium
Aerial Imaging & Analytics	\$736.1M	70	Medium	Medium	Medium



Yes.





IN2ecosystem.com

IN2@NREL.gov