

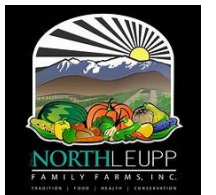
# A STAR SOLUTION TO SAFE DRINKING WATER CHALLENGES ON NATIVE AMERICAN RESERVATIONS

Jing Luo, PhD, PE

Vice President and Founder

Apex Applied Technology, Inc.

March 2024

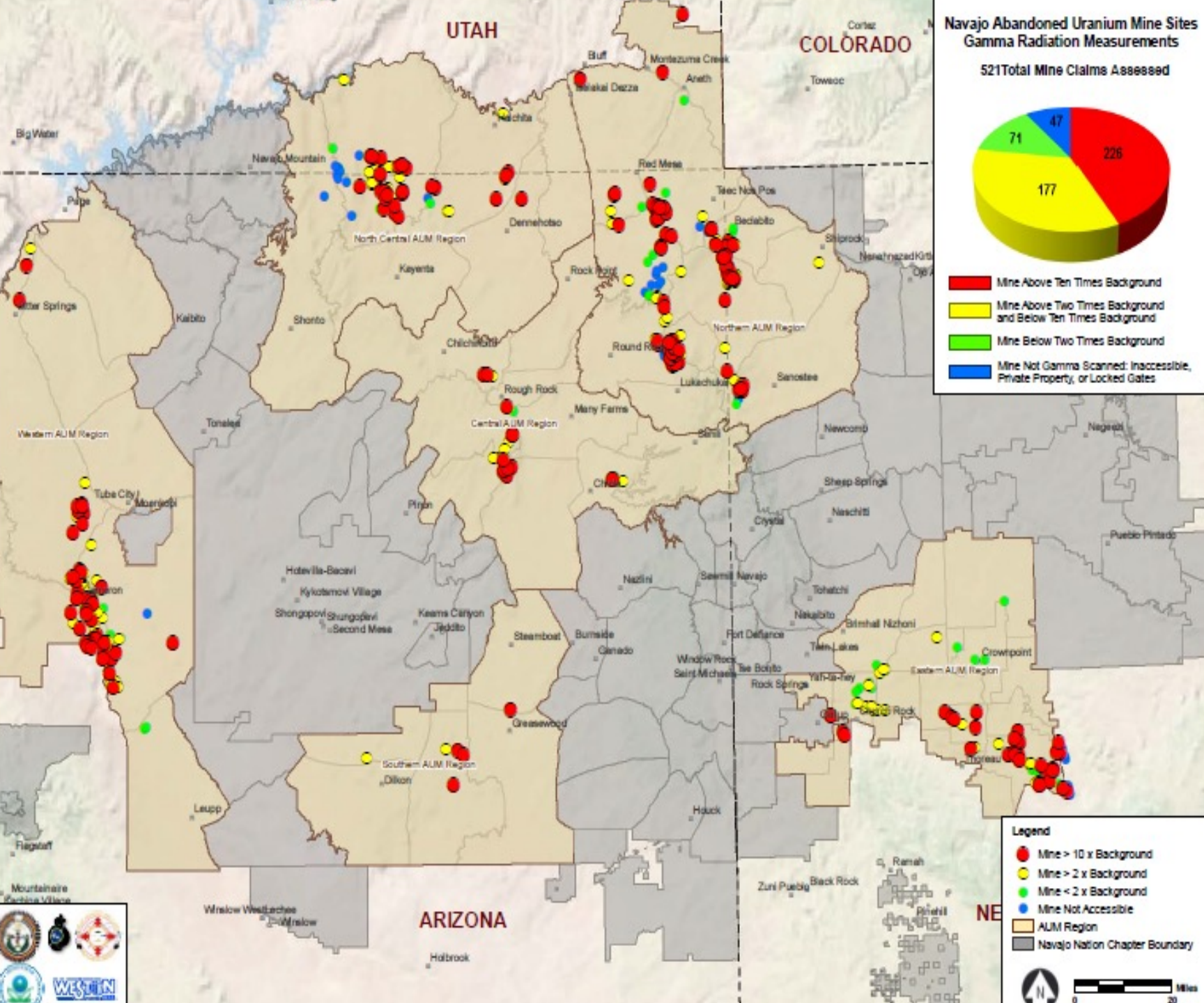






**Water is a Scarce Resource  
to Navajo People**



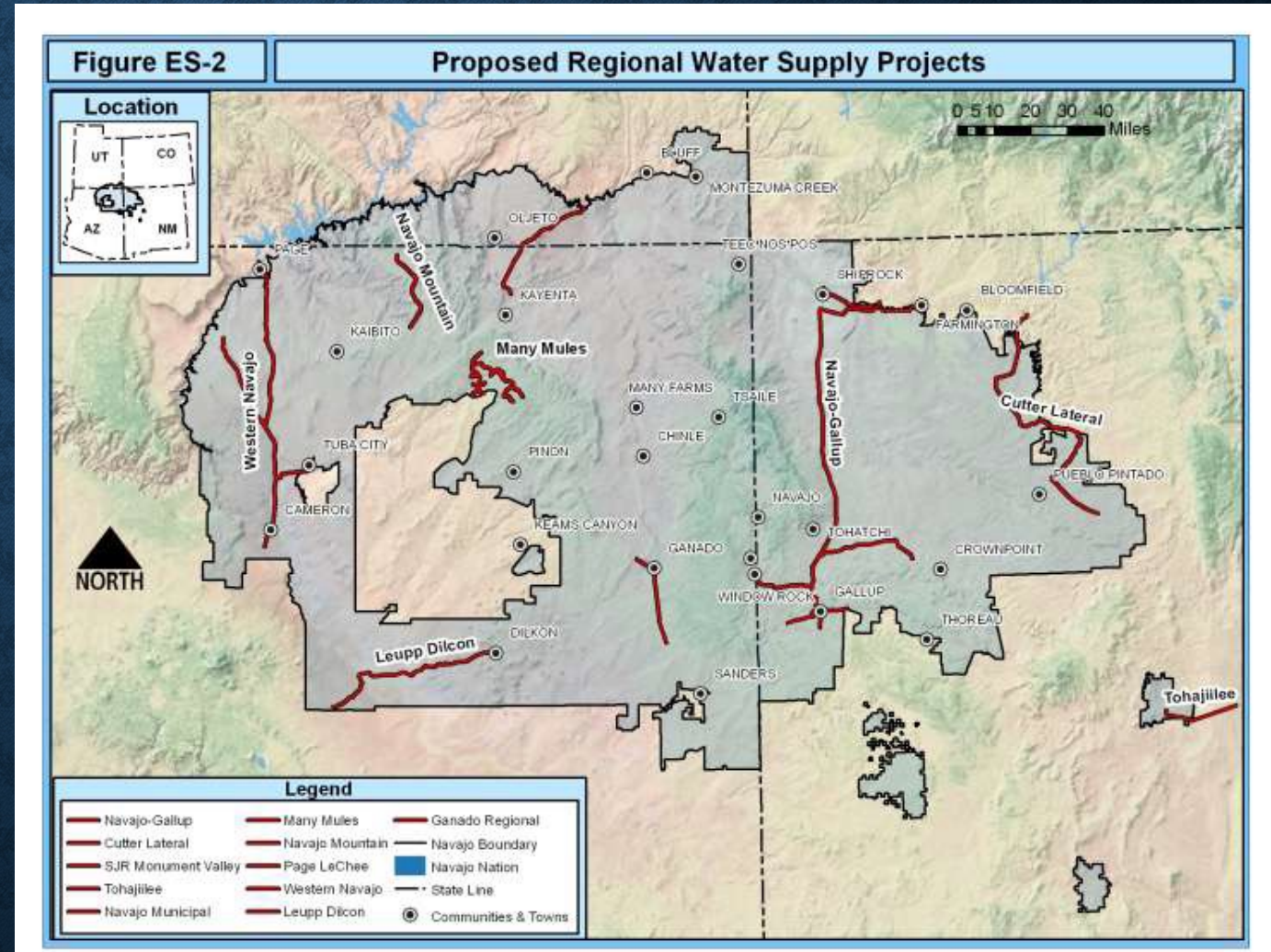


# Abandoned Uranium Mine Sites In Navajo Nation



# Centralized vs. Decentralized Solutions

- Farmington to Shiprock pipeline - \$56M
- Navajo Gallup Water Supply Project - \$865M
- Western Navajo Pipeline - \$515M
- C-Aquifer Ganado Groundwater Project - \$60M
- C-Aquifer Leupp to Dilcon Pipeline - \$110M.
- Halchita to Kayenta San Juan River Water Supply Project - \$151M





# First Public Charter School in U.S. is 100% on Renewable Energy







**The Purple Water Bus !**









**Deploying the Water Treatment System (Water Box) to North Leupp Family Farms (NLFF)**





**Water Box Installed at NLFF**

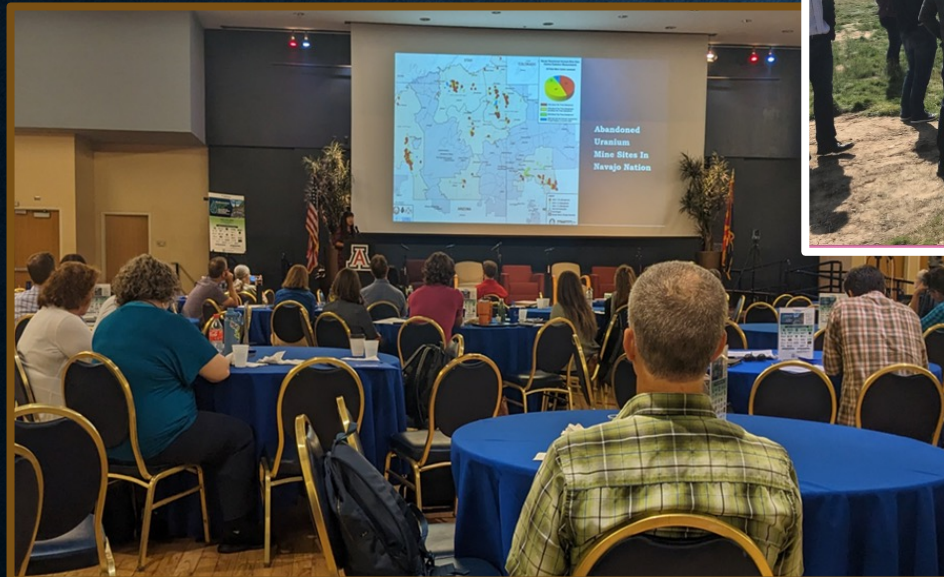




**Happy Farmers at NLFF**



# Other Technology Assistance on Indian Reservations





## Acknowledgement



USDA - Rural Development



Painter Desert Demonstration  
Projects (d.b.a. the STAR School)



North Leupp Family Farms (NLFF)



The University of Arizona





# THANK YOU!

- Jing Luo, PhD, PE
- Email: [Jing.luo@aatechsolar.com](mailto:Jing.luo@aatechsolar.com)
- Tel: 520-395-7781

