

Arizona: A 21st century Arid Zone “Tech” Economy

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THE “GRAVITY HIJACK” TRAP: Urgent vs. Strategic



**Risk: Strategic
Crowding Out**

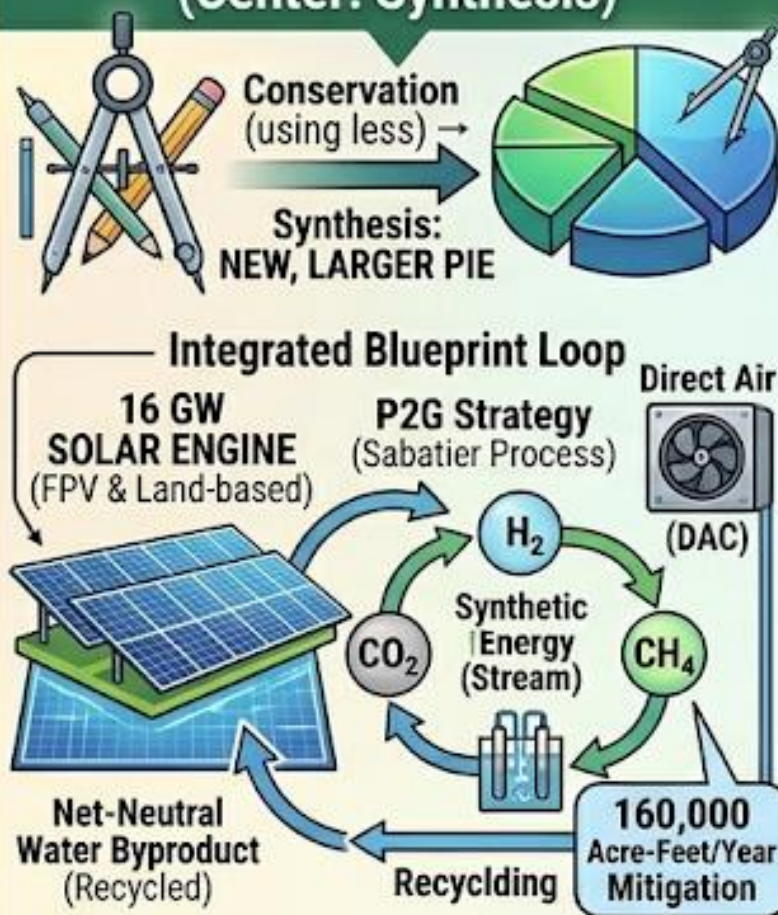
Arizona faces a choice: get trapped by competing urgent priorities or chart a path to decouple growth from water constraints

Arizona's Journey: From Scarcity to Surplus

I. THE COLLISION (Left: Scarcity)

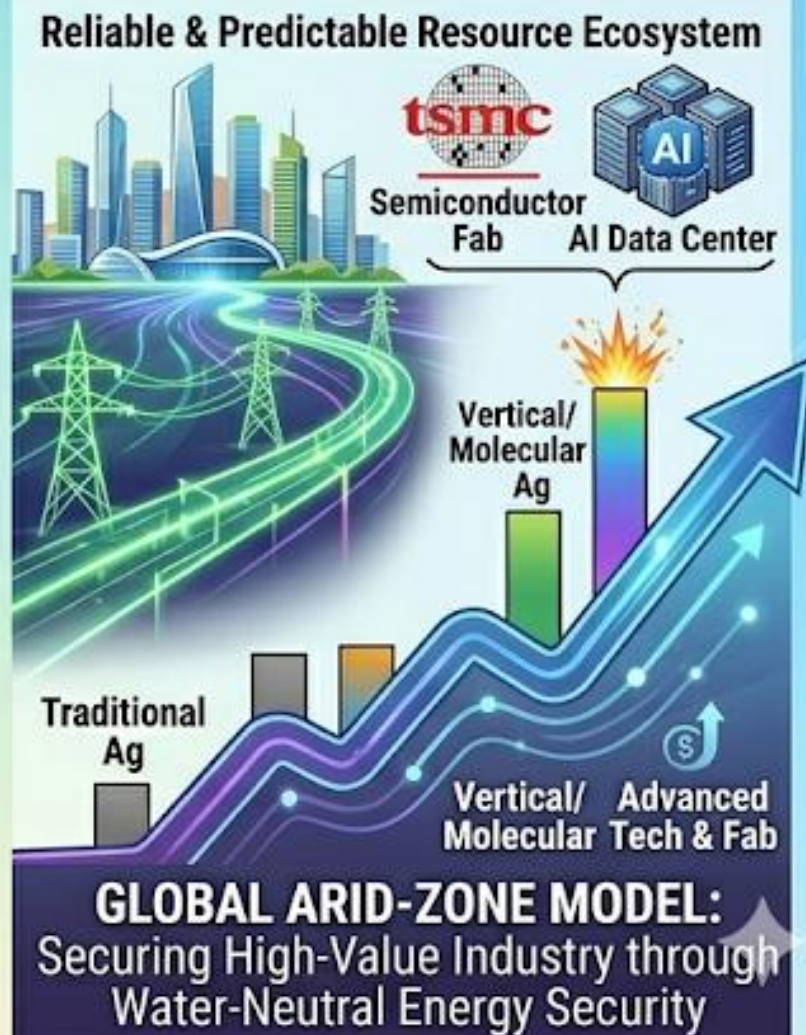


II. THE PIVOT (Center: Synthesis)



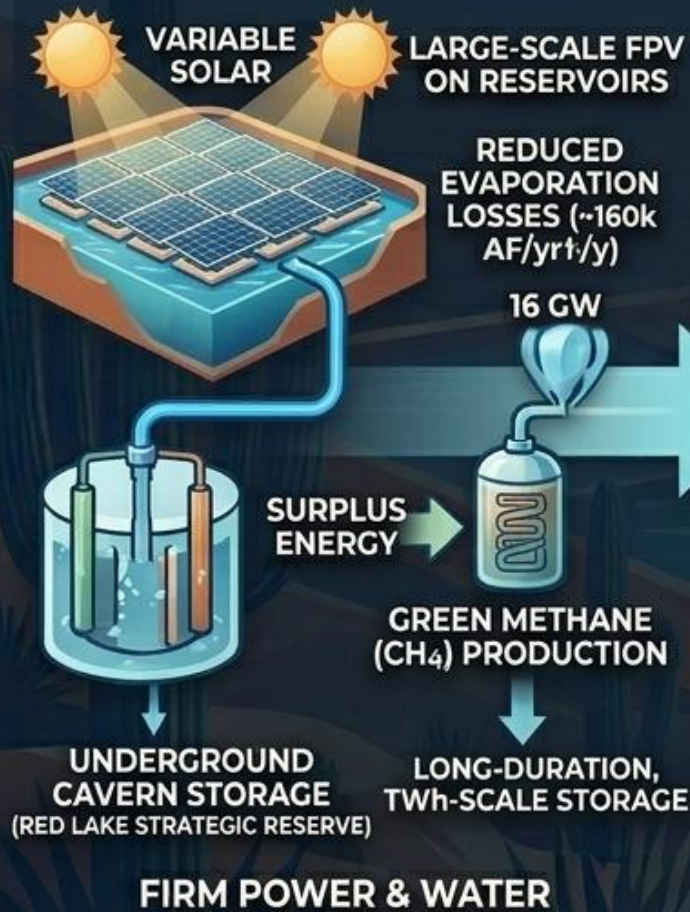
We are "making" water by changing how we handle the sun

III. THE RESULT (Right: Surplus)

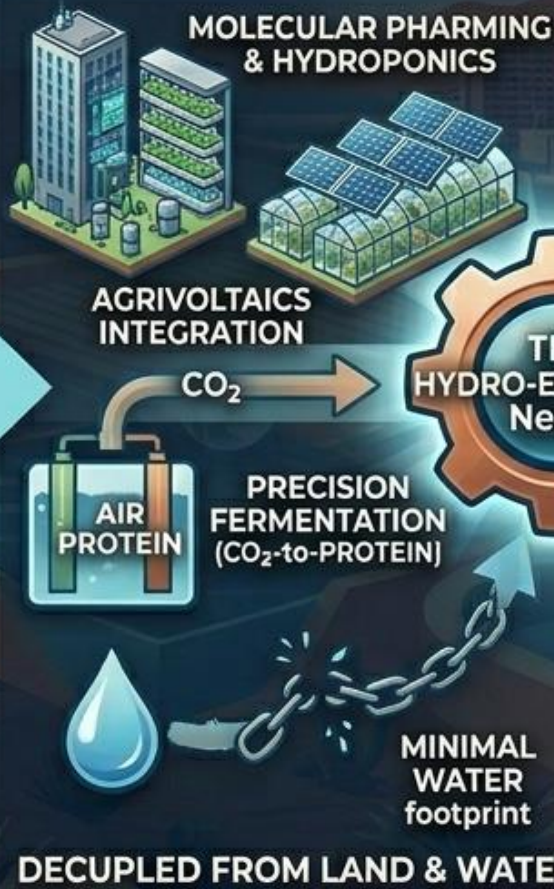


ARIZONA 2035: INTEGRATED ROADMAP TO HYDRO-SURPLUS

1. THE ENERGY INNOVATION (THE FIRM SOLAR ENGINE)



2. AGRICULTURAL TRANSFORMATION (TECH-ENABLED AG)

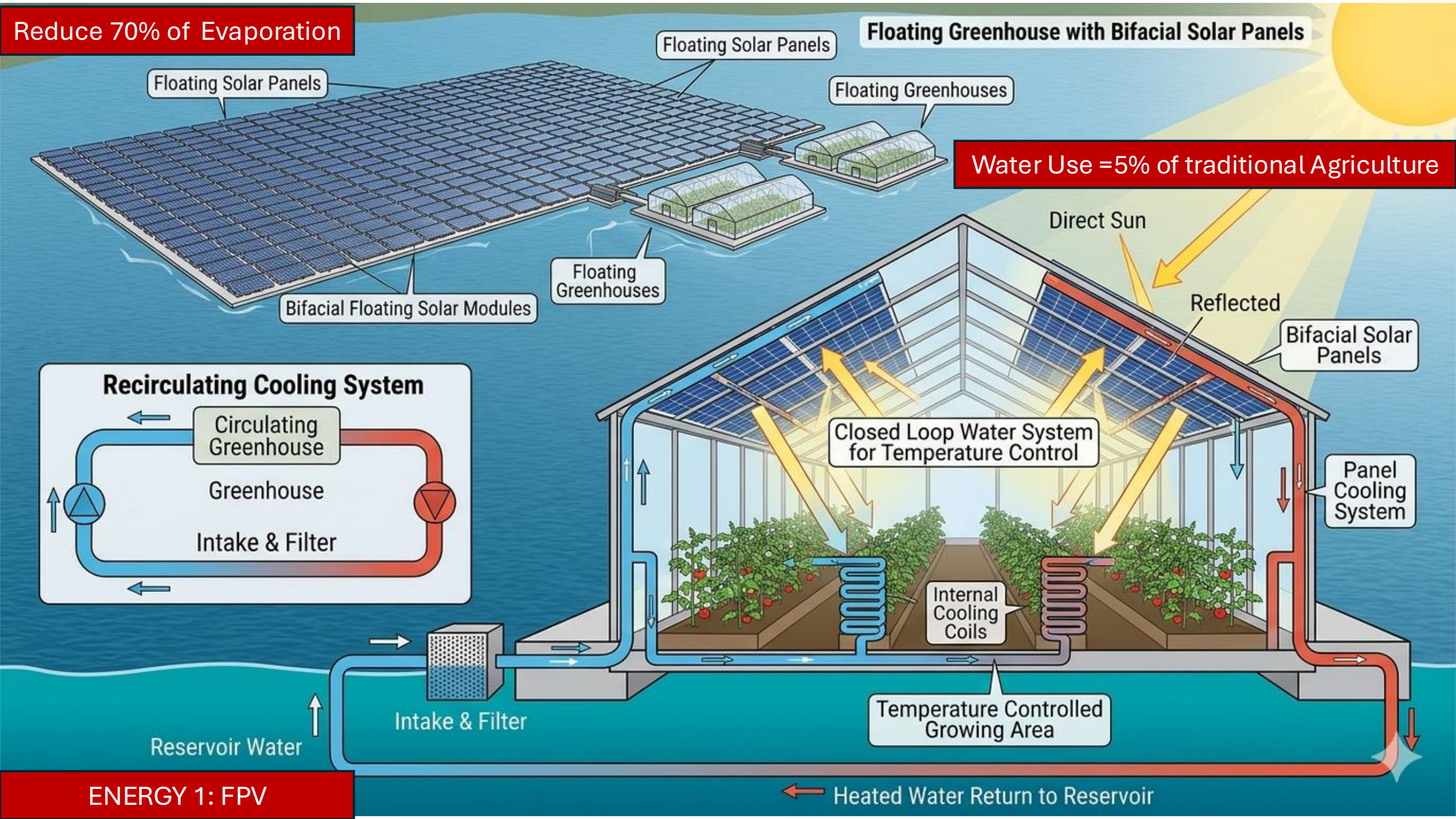


3. WATER RIGHTS REFORM (UNLOCKING THE MARKET)



THE SOLUTION: ARIZONA 2035 HYDRO-SURPLUS ECONOMY

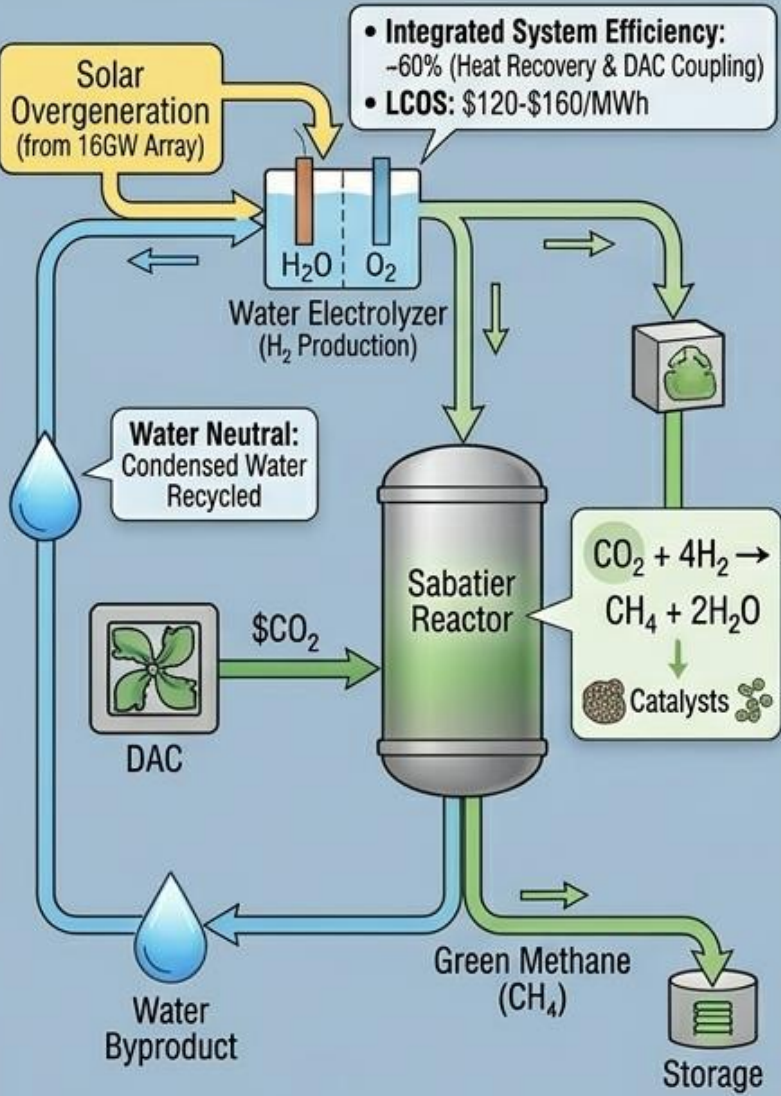




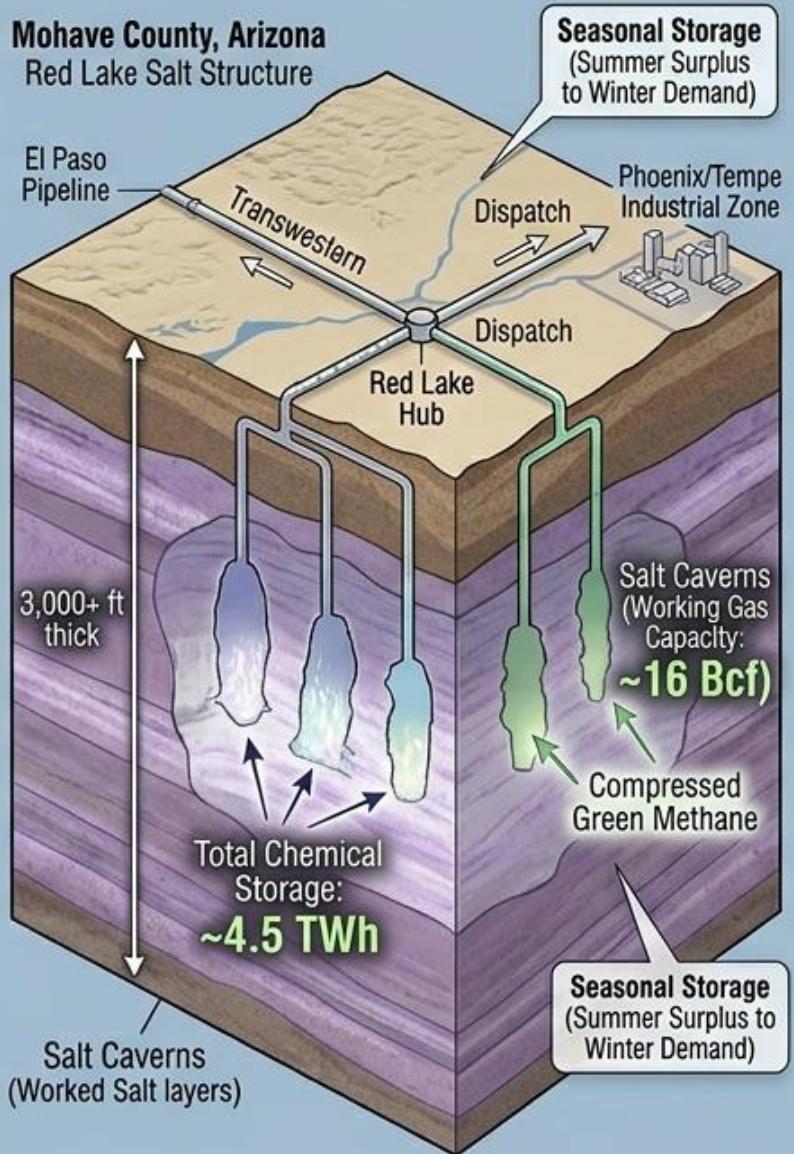


Floating Solar & Greenhouses on Tempe Town Lake

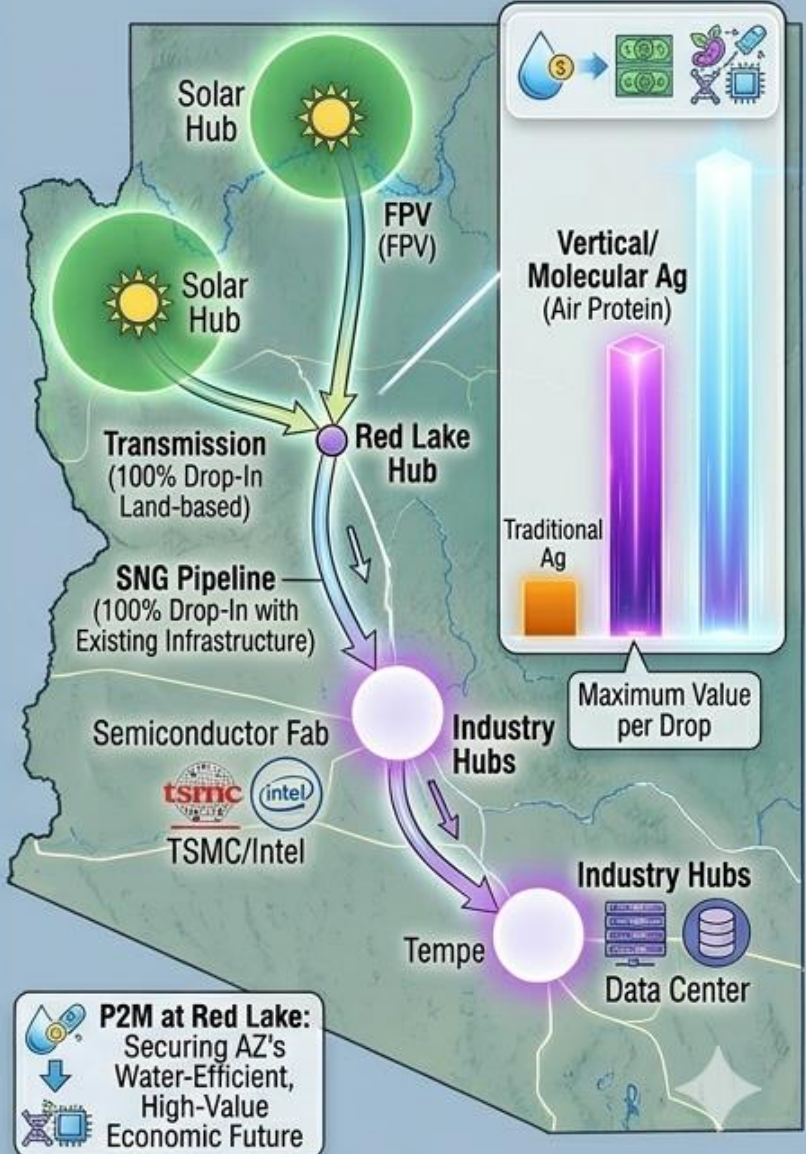
Power-to-Gas (P2G) – The Seasonal Energy Bridge



The Red Lake Strategic Reserve

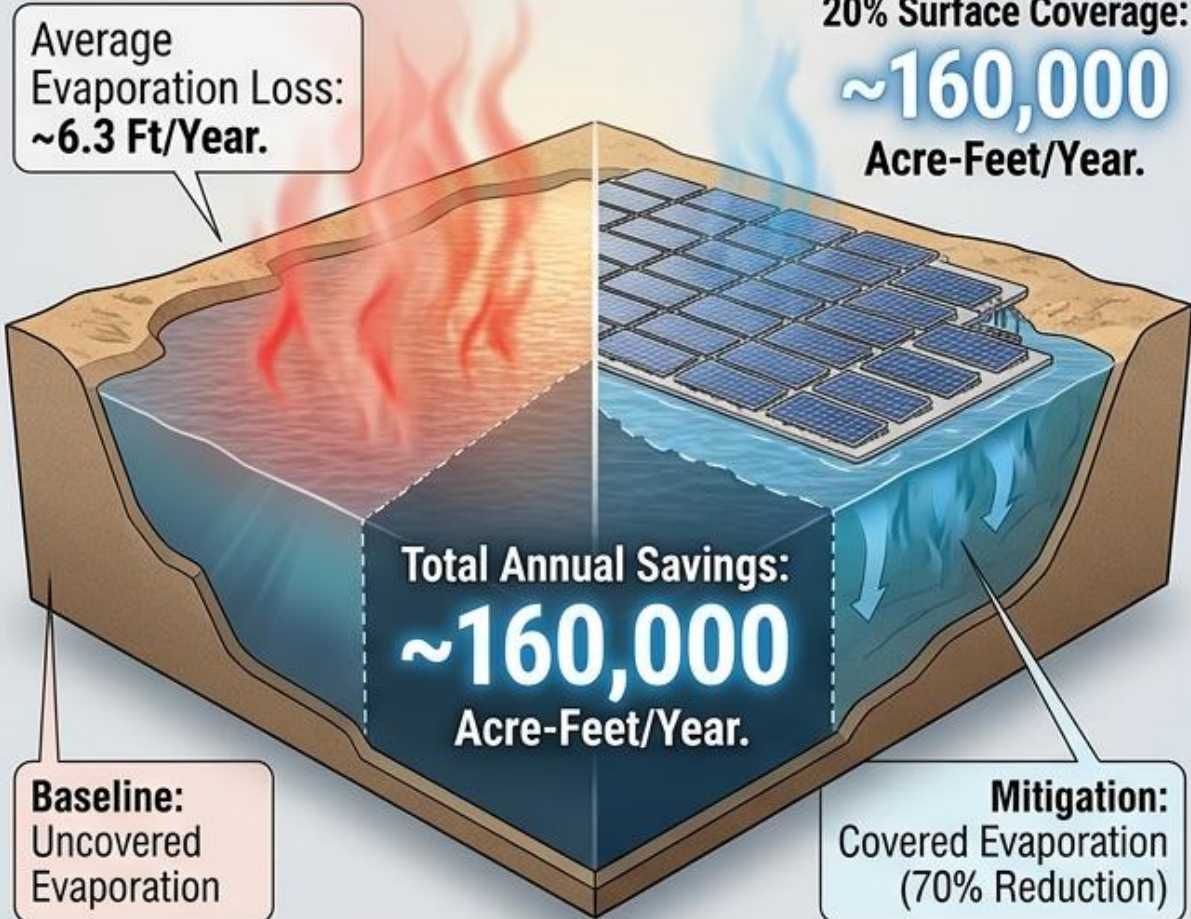


Economic Impact – Fueling the \$GDP/AF Leap



Generating Water: The FPV Evaporation Mitigation Effect

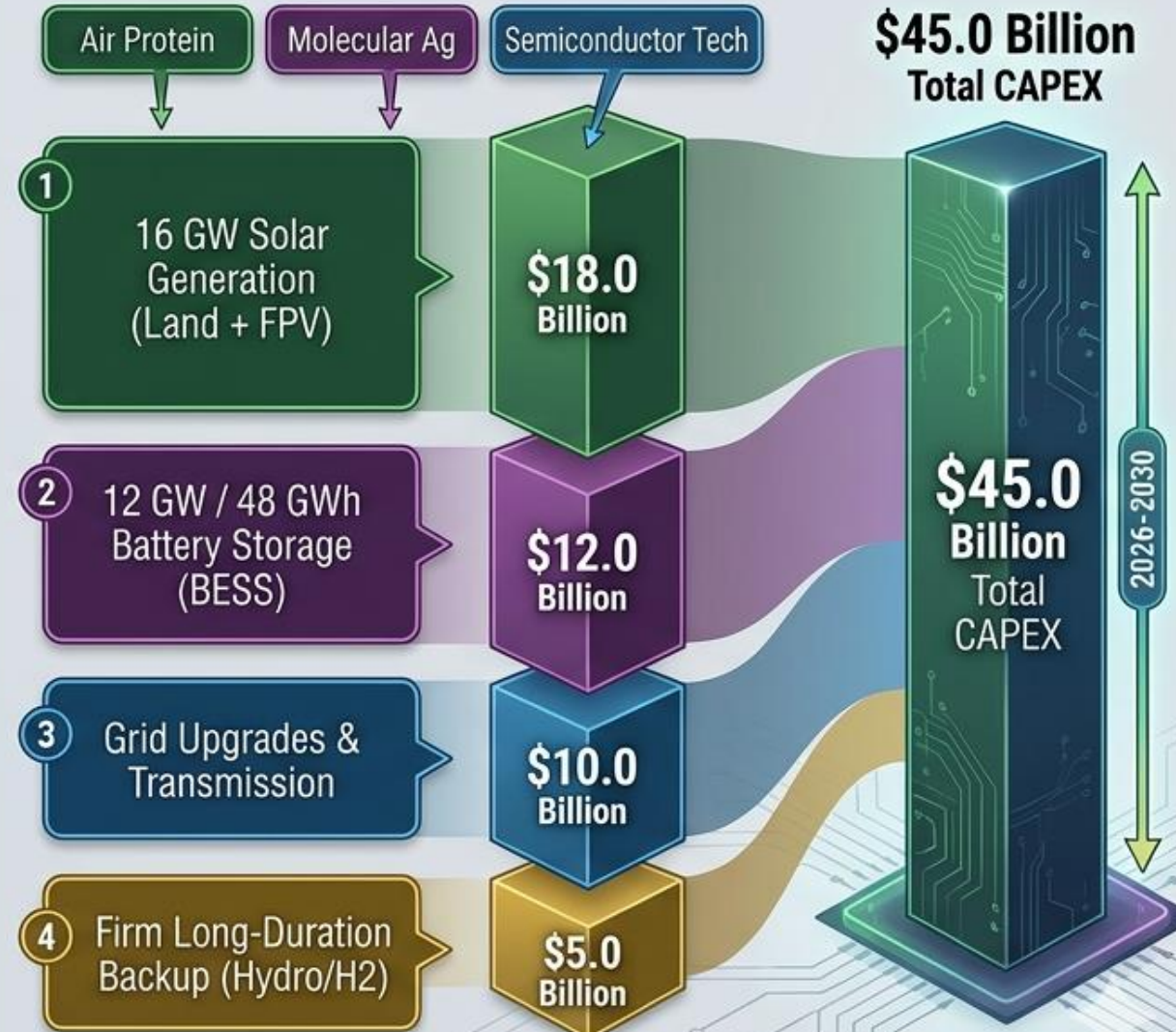
Computed Savings for 20% Coverage on Roosevelt Lake & Lake Mead (Acre-Feet)



Equivalent to...  **6x** Semiconductor Fabs  **1x** Major City (e.g., Tempe)

Infrastructure Solution & Investment: The \$45 Billion Arizona Solar-Storage Engine

Total CAPEX Breakdown (2026-2030 Estimates)

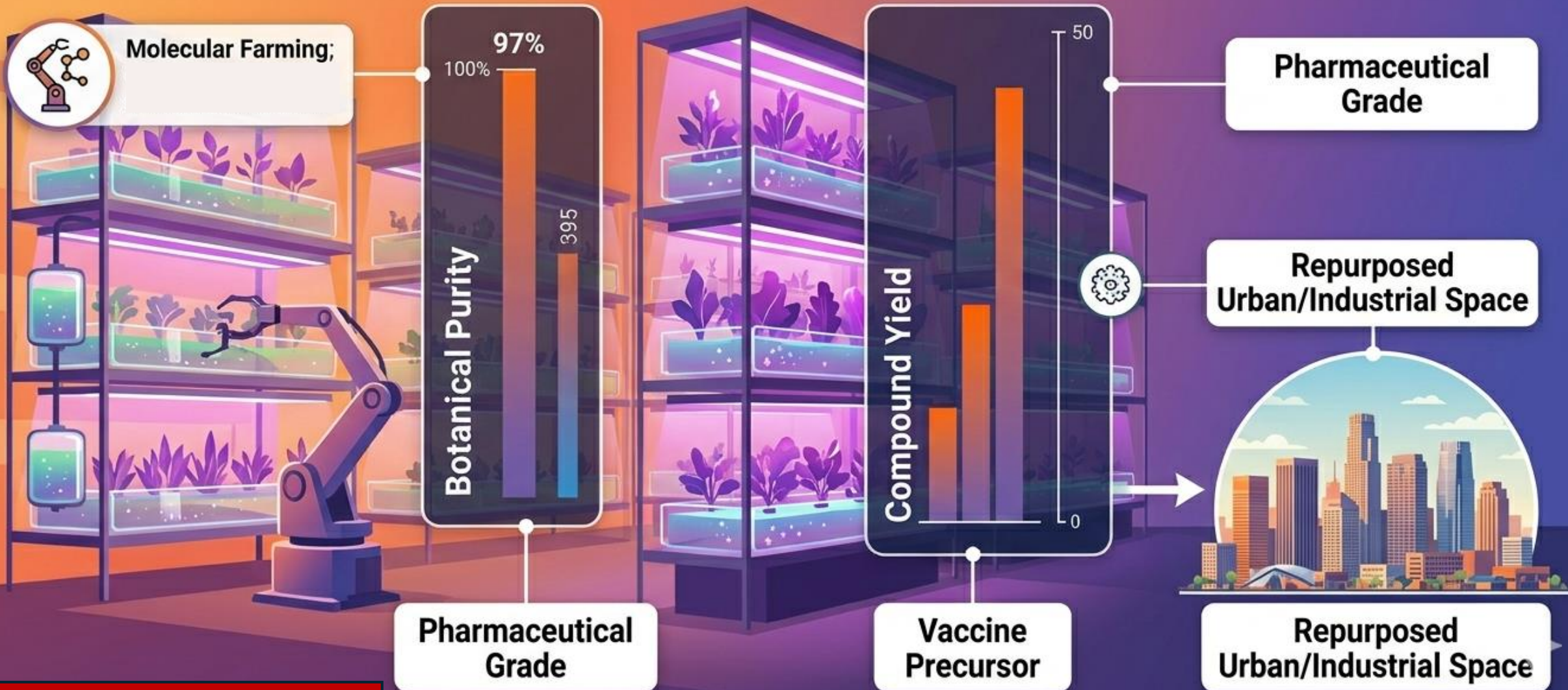


ENERGY 3: Summary

Total CAPEX

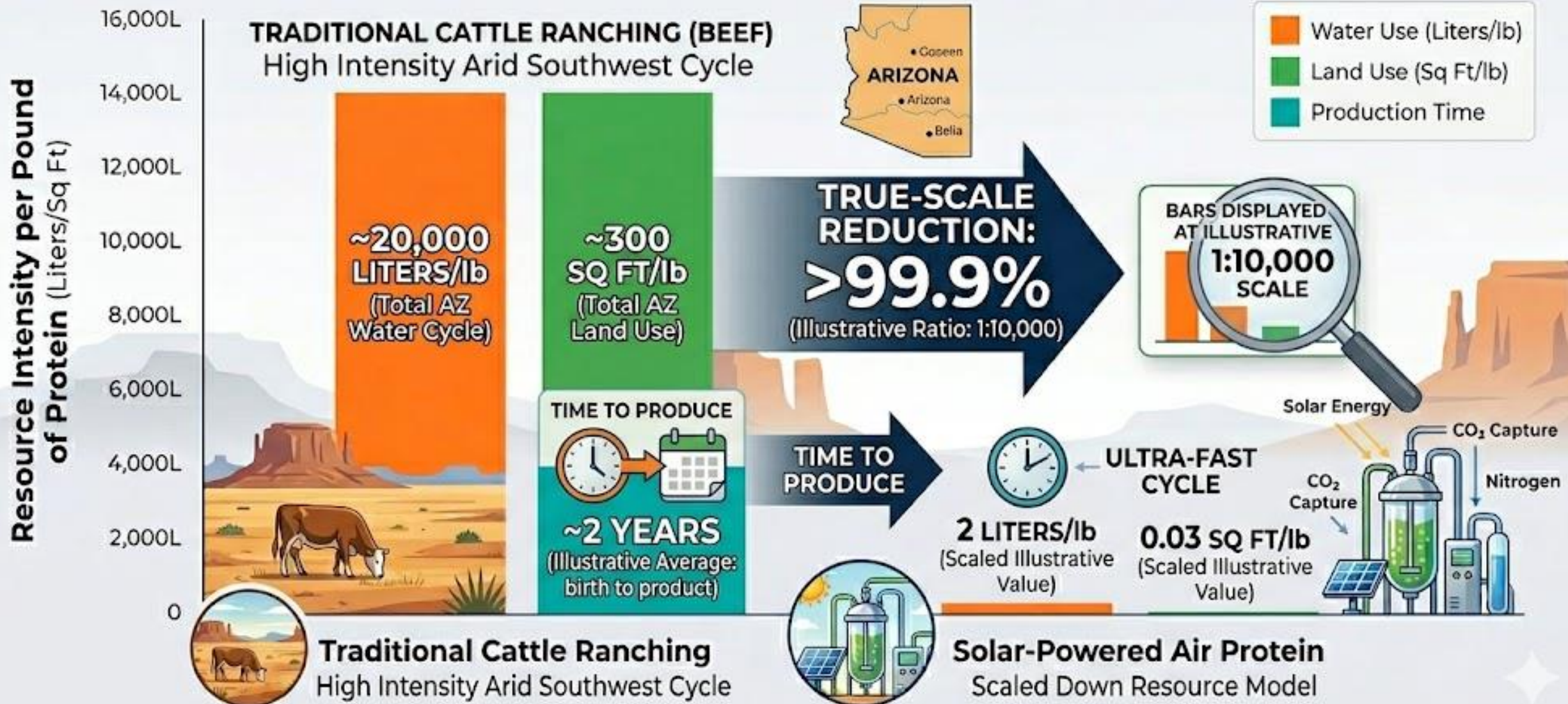
MOLECULAR FARMING & INDOOR HYDROPONICS

Molecular Farming and Indoor Hydroponics



RESOURCE REALLOCATION: THE 'NEW AG' ADVANTAGE

- Arizona-Specific Analysis | Scaled Comparison: Traditional Beef vs. Air Protein



Ag 2: BEEF → Air to Protein

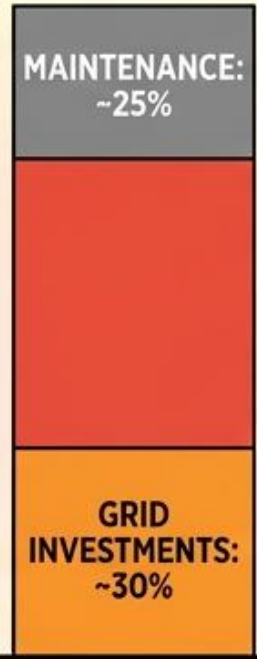
Southwestern production cycle. Scaled values are calculated from illustrative AZ-specific maximums. Scale ratio is illustrative to emphasize efficiency, not literal. Bars are visually scaled to show dramatic difference.

ARIZONA 2035 BLUEPRINT: HOW IT LOWERS YOUR LONG-TERM BILLS



YOUR OLD BILL (Without the Blueprint)

BILL COMPONENTS (Illustrative %)



FOSSIL FUEL (NATURAL GAS) COST: ~45%
(Unpredictable, Rising)

Rising +15%
Gas Price Spike +40%
Global Markets Volatile



OLD SYSTEM:
Subject to Fuel Spikes.
You pay for Global Markets.
Higher Long-Term Cost.



OLD SYSTEM:
Subject to Fuel Spikes.
You pay for Global Markets.
Higher Long-Term Cost.

PARADIGM SHIFT:
Decouple from Fuel Markets



YOUR NEW BILL (With the Arizona 2035 Blueprint)



BILL COMPONENTS (Illustrative %)



FIXED INFRASTRUCTURE COST: ~65%
(Stable, Low Decline)

SNG FUEL COST: <2%
(Synthetic, Arizona-Made)

WATER SAVINGS CREDIT: -3%
(Indirect Benefit)

Stable Rates locked for 20+ Yrs
Investment Pays Off
No Fuel Inflation



ARIZONA BLUEPRINT:
Stable Rates.
You invest in Local Tech.
Lower Long-Term Cost.



'2026 NOW

'2030 TRANSITION

Modest Initial Investment

'2035 FUTURE

Long-Term Cost Stability & Savings
(Hedge Against Scarcity)



16GW Solar Engine
(Cheaper electrons)



Red Lake Reserve
(24/7 reliability)



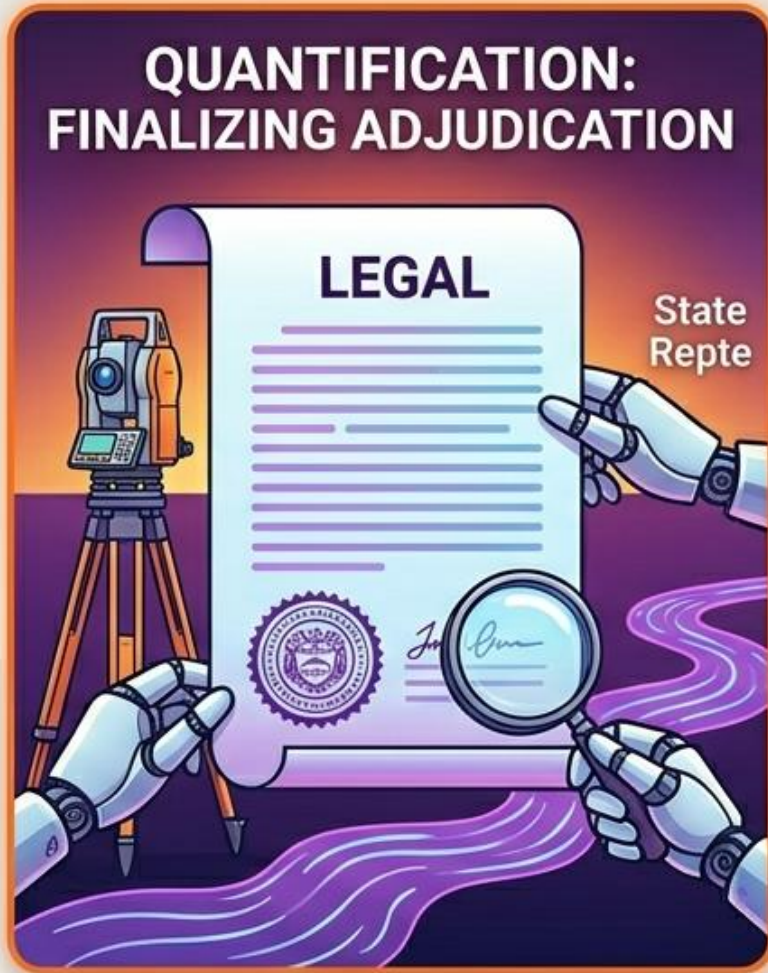
160,000 AF Water Savings
(Lower rates indirectly)

Service Economy Implications

WATER-RIGHTS FRICTION: THE USE-IT-OR-LOSE-IT TRAP



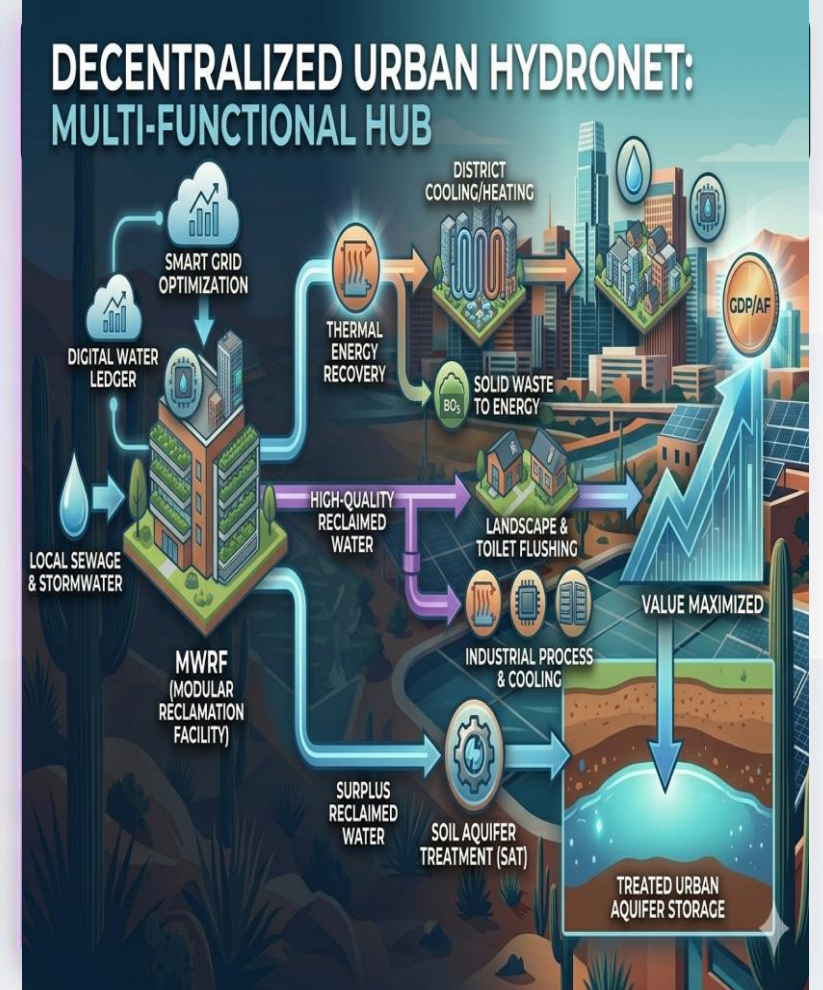
POLICY ROADMAP: THREE ESSENTIAL SOLUTIONS



QUANTIFICATION: FINALIZING ADJUDICATION

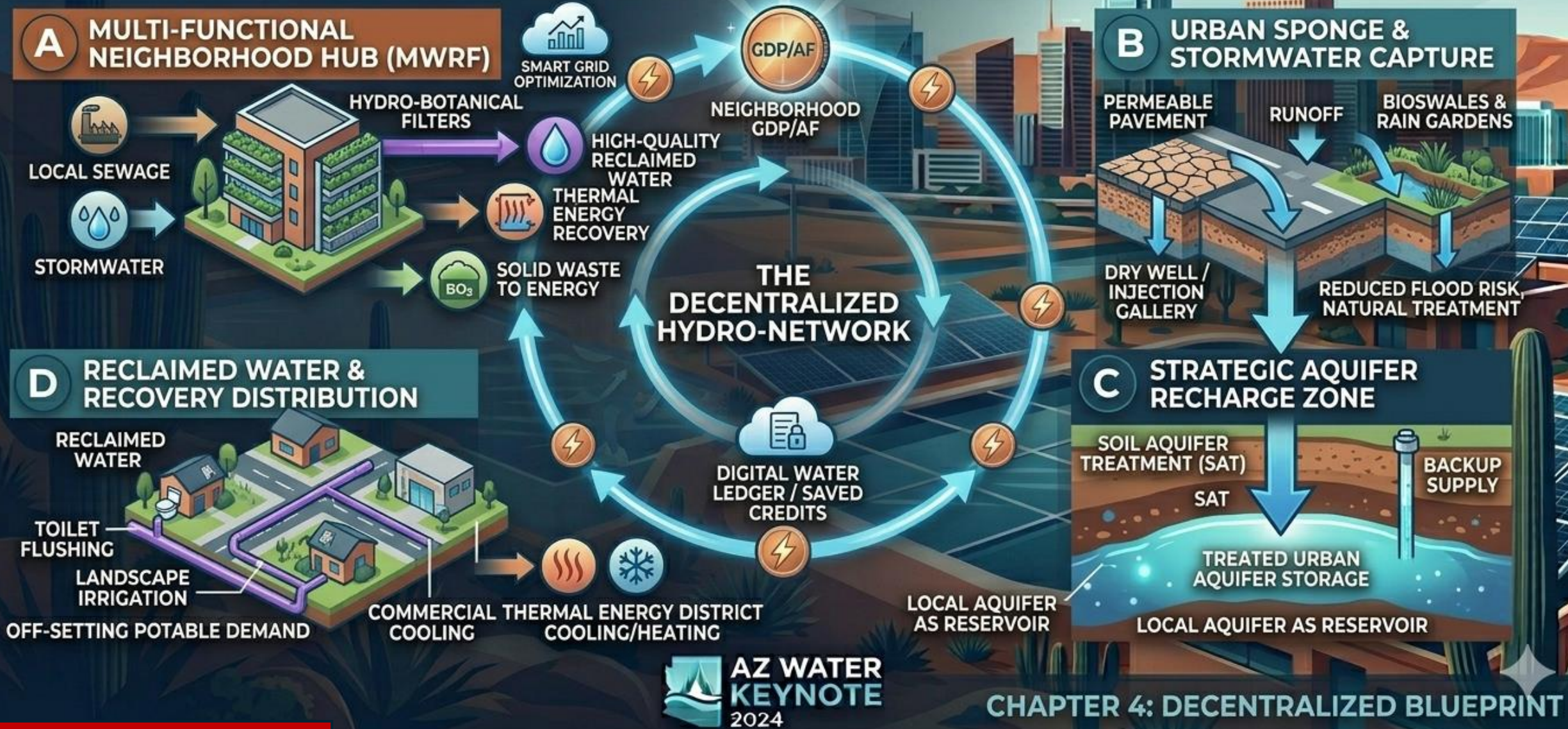


'SAVED WATER' CREDITS EXCHANGE



UPDATED INFRASTRUCTURE ARCHITECTURE

DECENTRALIZED URBAN HYDRO-NETWORK: DECOUPLING WATER & WASTEWATER



CHAPTER 4: DECENTRALIZED BLUEPRINT

Water Productivity: The GDP/AF Leap

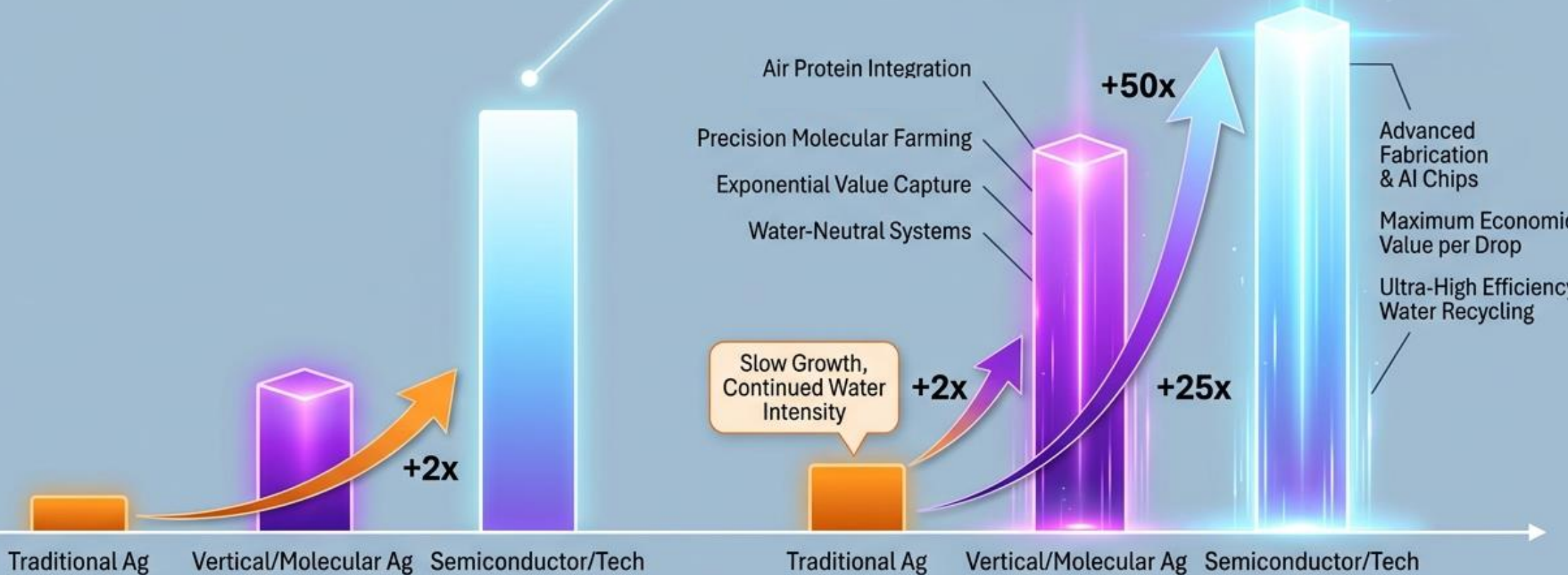
We can achieve 25-50x more economic value per drop of water



The GDP/AF Shift:
Unlocking Radical Productivity.
Traditional uses vs. High-Value,
Tech-Enabled Sectors.



GDP PRODUCTIVITY
per ACRE-FOOT (\$/AF)



Air Protein Integration
Precision Molecular Farming
Exponential Value Capture
Water-Neutral Systems

Advanced
Fabrication
& AI Chips
Maximum Economic
Value per Drop
Ultra-High Efficiency
Water Recycling

2026
NOW

2035
FUTURE

CONCLUSION: Arizona As The Global Arid-Economy Blueprint

Growth Decoupled: The 2035 Nexus

Invest \$50-60B

Generating Water: Evaporation Mitigation

Baseline:
Uncovered Evaporation
(~6.3 Ft/Year)

Mitigation:
Covered Evaporation
(70% Reduction)

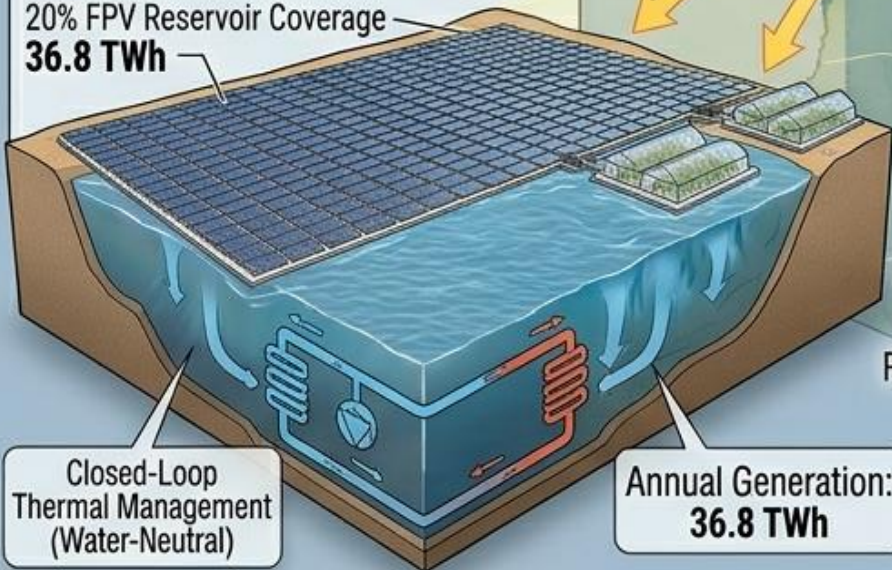


Industrial Use

Saved FPV Water
• Semiconductor Fab
• Electrolyzer

The 16 GW Solar Engine

20% FPV Reservoir Coverage
36.8 TWh



Closed-Loop Thermal Management (Water-Neutral)

Annual Generation:
36.8 TWh

DECOUPLED GROWTH (GDP)
SYNERGISTIC INFRASTRUCTURE

Traditional Resource Tether

2026

2035

FUTURE

Traditional Ag
NOW

Vertical/Molecular Ag
(Air Protein)

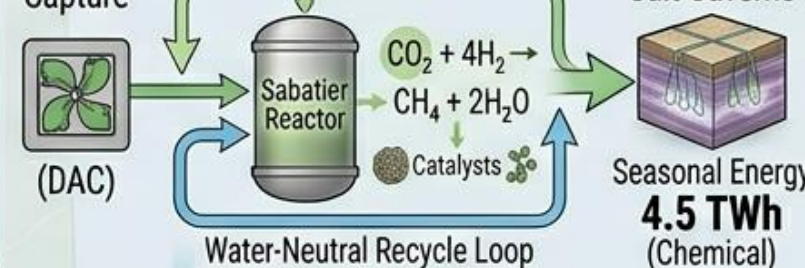
Semiconductor/Tech

Sabatier P2G Strategy & Red Lake Reserve

Direct Air Capture (DAC)

Powered by Surplus Solar

Red Lake Salt Caverns



Red Lake SNG

Peaker Plant (Zero Retrofit)

Fueling The GDP/AF Leap

SNG Pipeline
100% Drop-In Infrastructure

Advanced Semiconductor Fab

tsmc intel

Maximum Economic Value per Drop

LCOS Goal:
\$120-\$160/MWh

Industry Hubs

Phoenix/Tempe

AI Data Center

Blueprint Summary:

- Decouple Economy via High-Value, Water-Neutral Sectors.
- Overbuild Solar (16GW FPV/Land) + Storage (4.5 TWh Red Lake SNG) + Water Savings (160k AF) to provide Firm Power & Food Security.