
WES
totrade.co
TOTRADE™
FEWS SYSTEM
Food•Energy•Water•Space
ทัมละยุด ทางออกจากสงคราม
War Exit Strategy
Online:
totrade.co/wes
Offline:
totrade.co/wp
Benefits - ผ์มปะโหยด
For Participating
Nations
For Participating
Corporations
For The
Planets
F Food
E Energy
W Water
S Space
S Services
L Land
A Air
W Water
S Space
Annex 1
Annex 2
Annex 3
Updated: 19 August 2026
totrade.co/w1

WES
War Exit Strategy
For Participating Nations & Corporations

HOW TO USE THIS WHITE PAPER

This White Paper explains the risks we face, our solutions, the system we propose, and the benefits for all.

Online: totrade.co/wes

Offline: totrade.co/wp

Updated: 11 August 2026

1 OPEN ON LARGE SCREEN

Open this White Paper in a web browser on a large screen in portrait mode for best reading.



Recommended Browsers

Chrome Edge Firefox Safari

2 PAGE 1
MISSION & BENEFITS

Read page 1 to understand our mission, objectives, and key benefits.



Discover the mission and the benefits for all.

3 PAGES 2 TO 18
RISKS & MISCONCEPTIONS

These pages explain the risks we face and common misconceptions.



Every page from 2 to 18 is a link to a LinkedIn article.

Each page shows the flag of the translation available in that language.

Available Languages

English Chinese Thai
Vietnamese Lao Arabic
German Turkish French
and more...

4 PAGES 19 TO 38
SOLUTIONS

This section explains our proposed solutions and how they address the identified risks.



Every page from 19 to 38 is a link to a LinkedIn article.

Solutions for a safer, smarter, and sustainable future.

5 PAGES 39 TO 63
SYSTEM & BENEFITS

This section explains the system, its structure, operation, and the benefits it delivers.



Every page from 39 to 63 is a link to a LinkedIn article.

A complete system designed for long-term benefits for all.

6 PAGE 64
TABLE OF CONTENTS

Use page 64 to quickly navigate the White Paper.



Quick navigation to any section you need.

Find information fast and easily.

EVERY PAGE FROM 2 TO 63 IS A LINK TO A LINKEDIN ARTICLE

Read • Learn • Share
Build a better future for all.

Two paths ahead.
We decide which one we **build.**

WES





TOTRADE™
FEWS SYSTEM
Food•Energy•Water•Space

Scenario 1:
Stable warm operating state

- **Earth runs warm by design**
- Baseline sits about +6 to +10℃ above the present interglacial ~15℃
- Phanerozoic ranges cluster near 19–23℃
- Peaks reach 25–29℃
- Cold states appear as short glacial spikes

Core drivers

- **Oceans** store and move most energy
- Water phase change sets transfer rates
- **Clouds** regulate incoming flux
- **Solar** and high-energy particle input act aloft
- **Solid Earth** heat and circulation act from below.

Outcome

- **Variability within a wide range**
- Extremes redistribute
- Winters ease faster than summers rise
- Productive zones expand with heat and liquid water

Scenario 2:
Disruption

- **Abrupt deep-Earth energy release**
- **Rapid system shock**
- **Civilizational collapse risk**

Reading the indicators

- Ocean uptake shows buffering capacity
- Ice and albedo track circulation shifts
- **Sea level** follows expansion and basin change.

We focus on drivers, control flows, and build resilience.

Click on flag for translation

totrade.co/w2

Scenario 1: Natural Return to Earth Warm State by Design

WES

Percentages, years, and x-axis lengths all in one table

1 4,600 Mya → 2.6 Mya
Years = 4,597,400,000
Percentage = 99.94347661%
Length = 45,973.99990 m

2 2.6 Mya → 12,600 BP
Years = 2,587,400
Percentage = 0.05624782%
X-Axis Section Length = 25.87399 m

3 12,600 BP → 4,200 BP
Years = 8,400
Percentage = 0.00018261%
X-Axis Section Length = 84 mm

4 4,200 BP → 1950
Years = 4,200
Percentage = 0.00009130%
X-Axis Section Length = 42 mm

5 1950 → 1979
Years = 29
Percentage = 0.00000063%
X-Axis Section Length = 0.29 mm

6 1979 → 2025
Years = 46
Percentage = 0.00000100%
X-Axis Section Length = 0.46 mm

7 2025 → 3000
Years = 975
Percentage = 0.00000213%
X-Axis Section Length = 9.96 mm

Totals
Years = 4,600,000,000
Percentage = 100.00000000%
X-Axis Length = 46 km
BP means **Before Present***, **1950** as "Present"

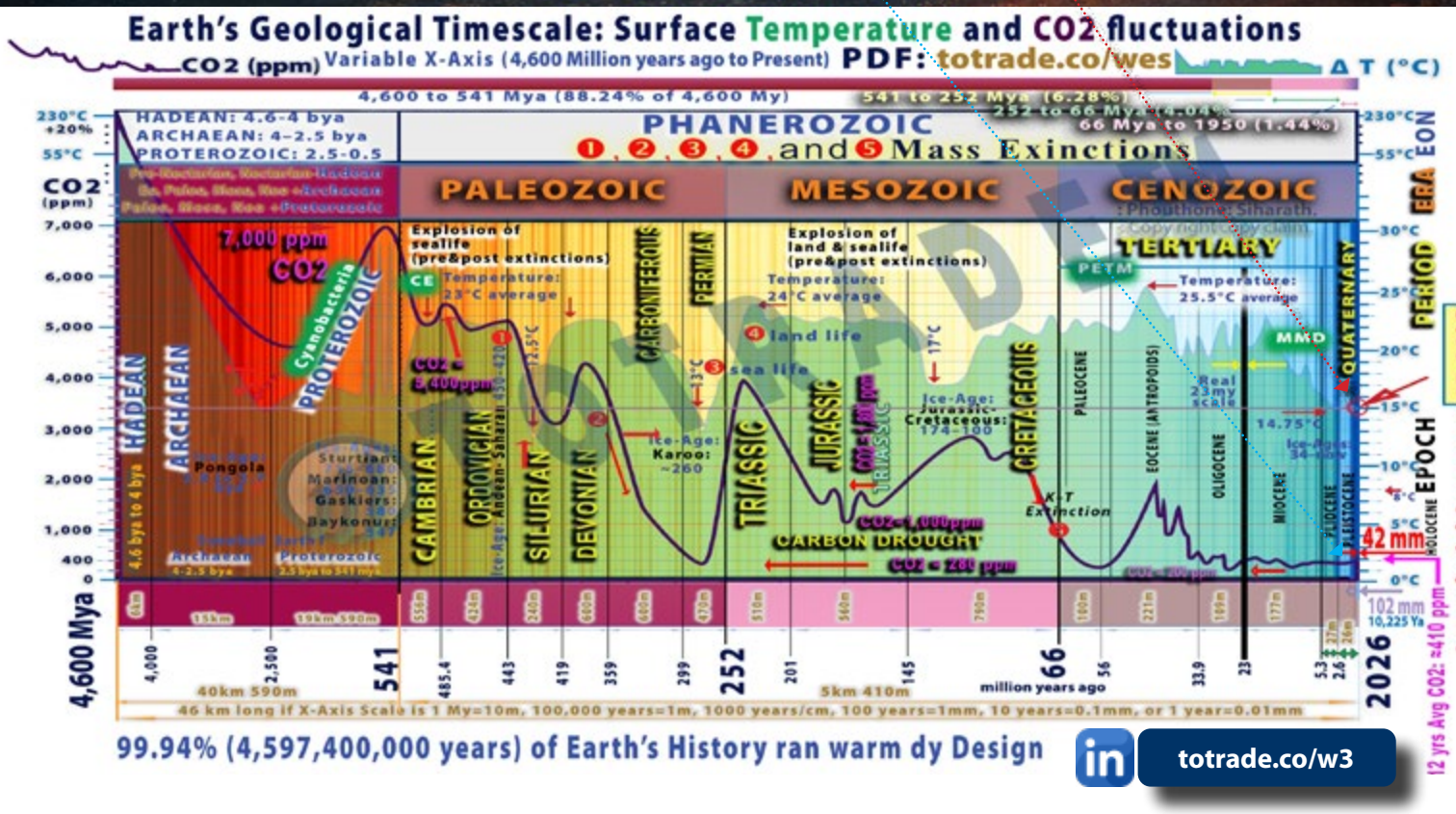
Warm climate is beneficial, Earth has operated that way for 99.94% of its 4,6 billion years.
PDF: totrade.co/w3w

Antarctic Melt? Not happening
totrade.co/w3a

Interglacial LIA Recovery
totrade.co/w5m

Earth operates on Warm. The Current Dynamics reflect CO_2 and heat starvation, not excess: totrade.co/w3b

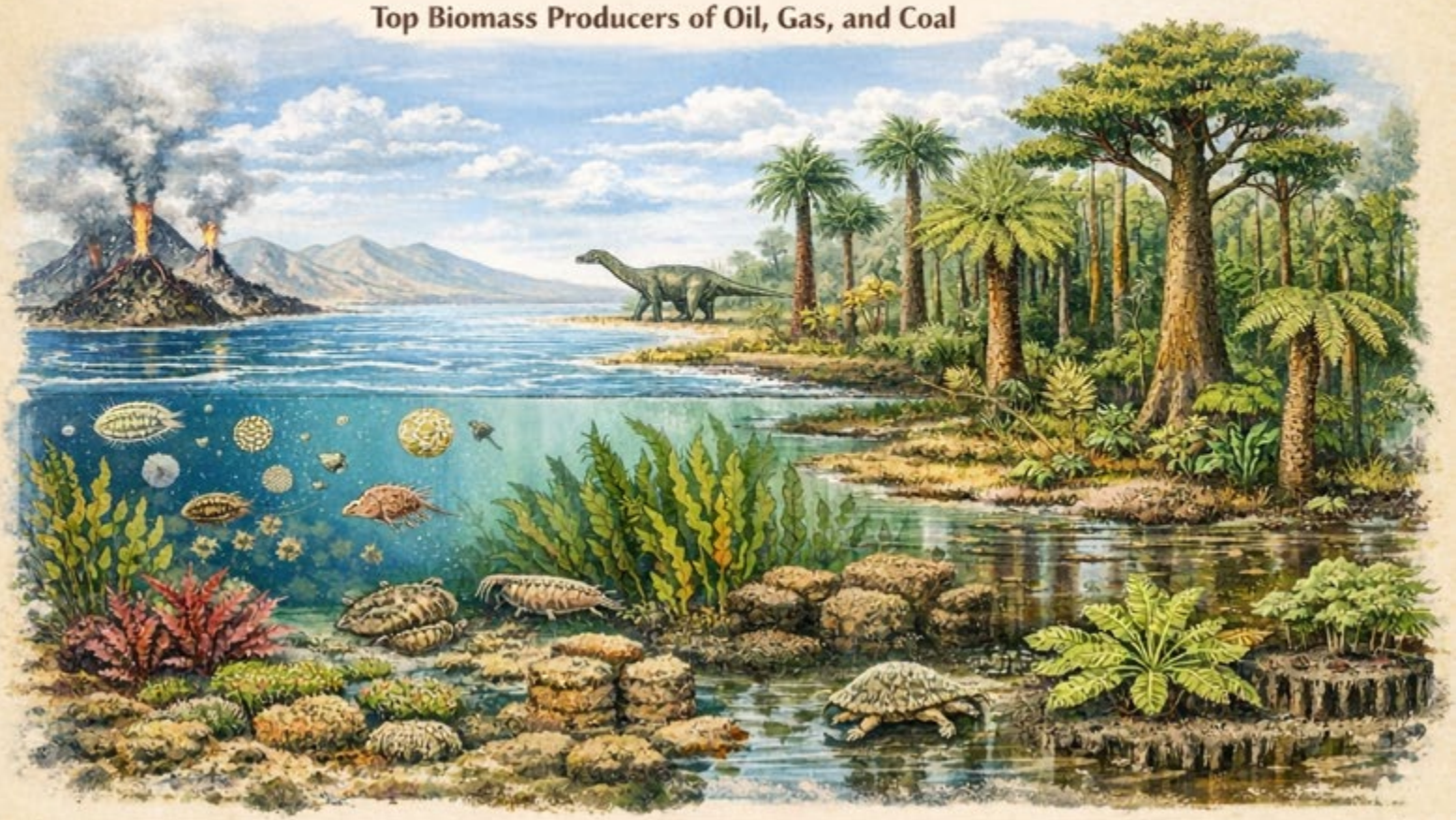
99,94% of 4,600 Million Years



Hydrocarbons Origin

Key Plants through Geologic Time

Top Biomass Producers of Oil, Gas, and Coal



Plant / Organism	Sea / Land	Temperature	CO_2	Period
Cyanobacteria (stromatolites)	Sea	Warm	High	Archean–Proterozoic
Green algae (chlorophytes)	Sea	Warm	High	Proterozoic–Recent
Red algae (rhodophytes)	Sea	Warm	High	Proterozoic–Recent
Diatoms	Sea	Cool–Warm	Moderate–High	Jurassic–Recent
Dinoflagellates	Sea	Warm	High	Triassic–Recent
Coccolithophores	Sea	Warm	Moderate–High	Jurassic–Recent
Peat Moss (Sphagnum)	Land	Cool–Wet	Moderate	Proterozoic–Pitanerozic
Lycopsids (clubmoss trees)	Land	Warm–Humid	High	Carboniferous
Tree Ferns	Land	Warm–Humid	High	Devonian–Carboniferous
Horsetails (Equisetum)	Land	Warm–Wet	High	Carboniferous
Cordaites (early gymnosperms)	Land	Warm	High	Carboniferous–Permian
Glossopteris flora	Land	Cool–Warm	Moderate–High	Permian
Conifers (early gymnosperms)	Land	Variable	Moderate	Permian–Recent
Angiosperms (flowering plants)	Land	Warm	Moderate	Cretaceous–Recent
Mangroves	Land–Coastal	Warm	Moderate	Cenozoic
Seagrasses	Sea–Shallow	Warm	Moderate	Cretaceous–Recent

>99.94%

<1% of global commercial oil and gas shows clear abiotic signatures but remains lower than in deep fluid systems. Higher for some locals, more: totrade.co/p114b

Hydrocarbon, Renewable Clean System: totrade.co/w4a

totrade.co/w4

Carbon Dioxide (CO_2): Physiology, Exposure, and Context

Understanding CO_2 in Plant Production, Aviation, Space, and Human Health

Greenhouses worldwide use CO_2 enrichment to raise air levels above ambient to boost plant growth.



Typical operating ranges sit around **800** to **1,200 ppm**

Some controlled systems reach near 1,500 ppm for short periods.

This practice targets photosynthesis in enclosed spaces, not human respiration.

▶ Typical airplane cruise with CO_2 stays near **800 to 1,200 ppm**, no one is dying.



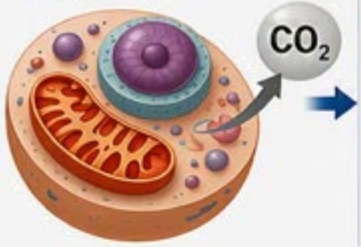
▶ the ISS stays near **2,000 to 3,000 ppm** of CO_2.



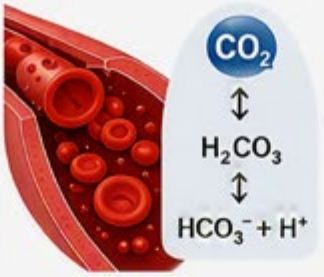
CO_2 is not a poison. It is a normal metabolic gas.
Dose and exposure route matter.

Clear physiology.

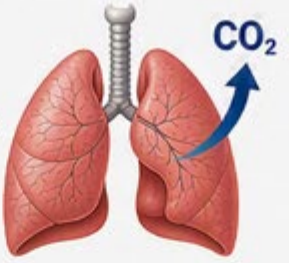
▶ Our cells produce CO_2 nonstop during energy metabolism.



▶ CO_2 dissolves in blood as bicarbonate.



▶ Lungs remove it with every breath.

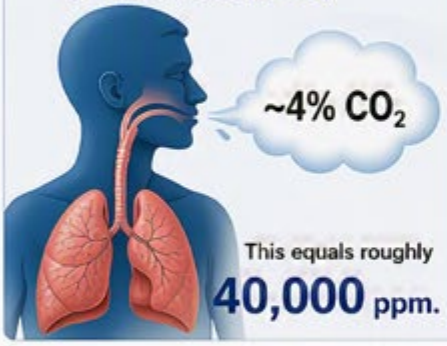


▶ Blood pH control links directly to CO_2 removal.



CO_2 up → pH down (more acidic)
CO_2 down → pH up (more alkaline)

▶ Exhaled human breath contains about 4% CO_2.



This equals roughly **40,000 ppm.**

Where CO_2 levels are commonly found

Ambient outdoor air	420 ppm
Greenhouses (typical)	800 – 1,200 ppm
Airplane cruise	800 – 1,200 ppm
International Space Station	2,000 – 3,000 ppm
Human exhaled breath (~4% CO_2)	~40,000 ppm

And there are
8 billion people



who survive so far including frequent flyers and astronauts.

ppm: Carbon Dioxide (CO2) levels

- 420 – current CO2 level.
- 900 – when primates developed.
- 1,000 – common in commercial airplanes.
- 1,200 – or more common in greenhouses.
- 2,000 – dinosaurs thrived.
- 4,000 – submarine & space vehicle average.
- 7,000 – frequently reached inside submarines.
- 10,000 – common in motorcycle helmets.
- 40,000 – human exhaled breath ... as used for mouth-to-mouth resuscitation.

CO_2 is a normal part of life on Earth.
Our bodies, aircraft, greenhouses, and space stations all handle it because physiology, engineering, and regulation keep it in balance.

totrade.co/w5

Interactive: totrade.co/i

100% ACCURATE

Full Earth's System Interactions

PRIMARY COSMIC DRIVERS (ENERGY INPUT 100%)

H₂O ENTHALPY MEDIATOR ≈95.5%

SOLID STATE ENTHALPY (SSE) ≈3.00%

ARTIFICIAL

VENUS

MARS

MOON DYNAMICS

Black Holes (BH) pulling

Antimatters (AM)

Solar Energetic Particles (SEPs)

Cosmic Rays (GCRs)

Galactic Zone Variations (GZVs)

Sun position
barycentric motion

Gravity

Moon orbit

Collisions*
[E=MC², 10%]

Sun core
Stress

Gyroscopic Effect

Planets
Conjunction

Earth orbits
(distance, eccentricity, Axial Tilt, precession, Inclination, rotation, drift)

Solar
Dynamo

Tides

Ocean Current
(conveyor belt, halocline, etc...)

Tectonic Plates Stresses

Radio Tuner

Solar
Activity

Solar
magnetic field

Earth Dynamo
magnetic shield

Submerged Volcano

Surface Volcano

Radiative
incoming Flux

Lightning

Deep-Earth Primary Water Cycle
5x Oceans mass

Radio Tuner

Cloud & Atmosphere
Albedo & Absorption

Cloud
Types, Hight, Thickness...

6th Ocean
300-400x Surface Oceans Energy

Ice Caps
position, extend & torque

Enthalpy

phase-change enthalpy

H₂O
Vapor enthalpy

99.76%

H₂O
Liquid enthalpy

0.239%

0.001%

H₂O
Cryosphere enthalpy

CO₂: totrade.co/27

Atmosphere
aerosol & gases

Oceans
salinity, minerals, heat transfer

Ocean & Ice Cap albedo

Radio Tuner

Deep-Earth
4,600 million year Storage

Biosphere 1.45%
CO₂: Natural: 97%
Human, cows: 3%

Soil
albedo [SSE]

totrade.co/85

Gas-Centric 0.05%
in which CO₂ is 0.0015%
Enthalpy, not volume, & scam.

Miscellaneous
Isostatic Rebound, Mantle plume cycles...

* Include impacts from asteroids, meteoroids, cometary fragments, and any macroscopic and subatomic mass.

◉ Legend: Solid = Direct, Dotted = Indirect

Unsettled Science

Earth Energy System: totrade.co/ees

totrade.co/w6

Atmospheric Water's Enthalpy Role, Index: totrade.co/i

WES

~100 km Kármán line: ~0.000 000 1 atm

Weather is Driven By **Clausius-Clapeyron** Relation

H = **U** + **pV**

H Enthalpy = **U** Internal Energy + **pV** Expansion Work

Water's Behavior *in the Atmosphere*

— 60°C 15km: ~0.23 atm

Gas
cloud, humidity

Energy Released → **Condensation**

Liquid >0°C
rain

Solid <0°C
snow, hail

Heat
(UP)

Cold
(DOWN)

Warm Scenario:
Greater heat distribution, cooler surface at tropics, warmer elsewhere

5km: ~0.5 atm

Latent Heat Upward

7% per °C expansion

Energy Absorbed → **Evaporation**

99.76% widespread — **Gas** vapor — 0.239% localized

Liquid >0°C
oceans, rivers, lakes, aquifers...

0.001% trace location

Solid <0°C
snow, ice

Melting Ice

0m: 1 atm

6th Ocean (Solid OH⁻)
230,000 atm, 1600-1900°C
~300-400 times Surface Enthalpy
Phase change on standby, totrade.co/6

Other Gases' Behavior *in the Atmosphere*

No Phase Change
% = Thermal Influence, not volume.

O_2	N_2	Ar		CO_2
0.025%	0.0166%	0.005%		0.0015%

O_3	H_2	CH_4	N_2O	Etc
0.00083%	0.0005%	0.00033%		0.000083%

Small Expansion Work

0.00017%

Sensible Heat Only
- Limited Energy Transfer (sensible 20/80 latent)

H_2O vs Other Gases

95.5% : 0.05%
+ 3.00%
+ 1.45%
=========
100%

Solid State Enthalpy (SSE)
Biosphere Mix

Outcome

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Thermal Buffer Only
- Limited Enthalpy Transfer (other gases: 0.05%)

H_2O: Thermal Elevator



OCEAN MASS

Water (H_2O)	> 96.5%
CO_2	< 0.002%

ATMOSPHERE VOLUME

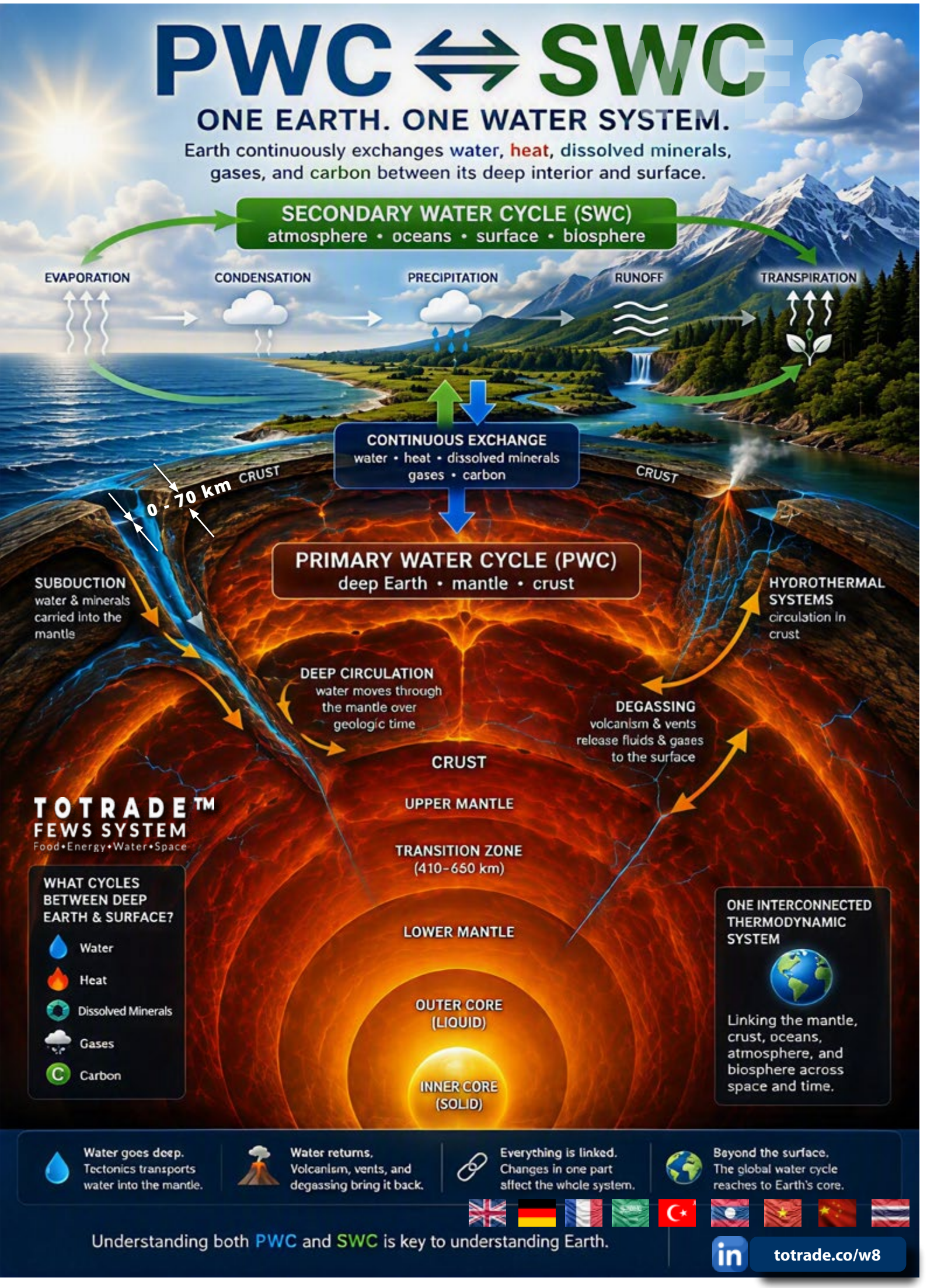
N_2	~ 78%
O_2	~ 21%
Ar	~ 0.93%
H_2O (Variable)	up to 4%
CO_2	~ 0.04%

H_2O vs CO_2 600,000 : 1

Click on flag for translation

Below sea avg Pressure
-11km: 1,100 atm, Mantle: 230,000 atm

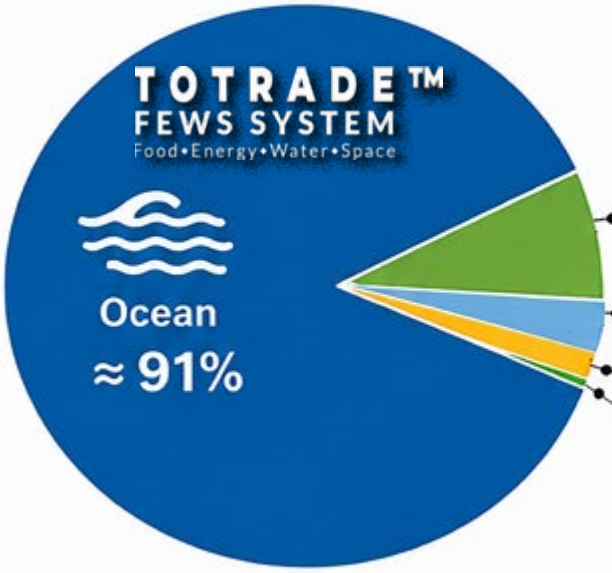
totrade.co/w7


PWC ⇌ SWC
ONE EARTH. ONE WATER SYSTEM.
Earth continuously exchanges water, heat, dissolved minerals, gases, and carbon between its deep interior and surface.
SECONDARY WATER CYCLE (SWC)
atmosphere • oceans • surface • biosphere
EVAPORATION
CONDENSATION
PRECIPITATION
RUNOFF
TRANSPIRATION
CONTINUOUS EXCHANGE
water • heat • dissolved minerals
gases • carbon
CRUST
0 - 70 km
CRUST
PRIMARY WATER CYCLE (PWC)
deep Earth • mantle • crust
SUBDUCTION
water & minerals carried into the mantle
HYDROTHERMAL SYSTEMS
circulation in crust
DEEP CIRCULATION
water moves through the mantle over geologic time
DEGASSING
volcanism & vents release fluids & gases to the surface
CRUST
UPPER MANTLE
TRANSITION ZONE
(410–660 km)
LOWER MANTLE
OUTER CORE
(LIQUID)
INNER CORE
(SOLID)
TOTRADE™
FEWS SYSTEM
Food•Energy•Water•Space
WHAT CYCLES BETWEEN DEEP EARTH & SURFACE?
Water
Heat
Dissolved Minerals
Gases
Carbon
ONE INTERCONNECTED THERMODYNAMIC SYSTEM
Linking the mantle, crust, oceans, atmosphere, and biosphere across space and time.
Water goes deep.
Tectonics transports water into the mantle.
Water returns.
Volcanism, vents, and degassing bring it back.
Everything is linked.
Changes in one part affect the whole system.
Beyond the surface.
The global water cycle reaches to Earth's core.
Understanding both PWC and SWC is key to understanding Earth.
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EARTH'S HEAT STORAGE

From the Surface to the Core

1. SURFACE HEAT STORAGE (Changes in Surface Heat Content)



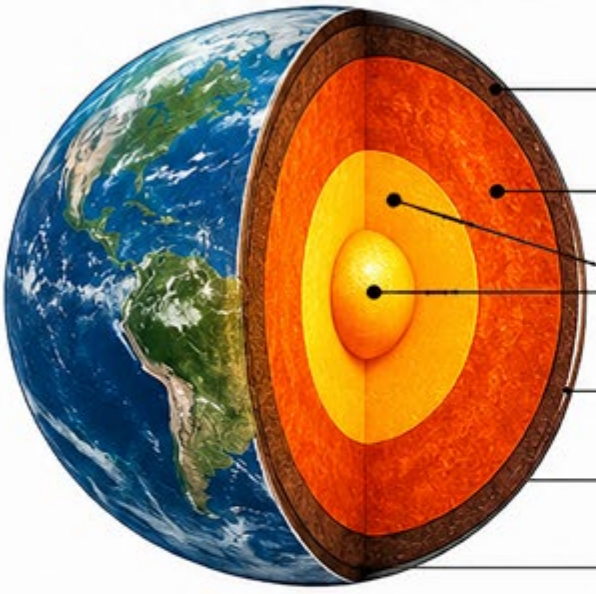
Earth's oceans store about 91% of changes in surface heat content, far more than the land, atmosphere, cryosphere, and biosphere combined.

Land (Solid Earth) Soils, rocks, continents	≈ 6%
Ice Melt (Cryosphere) Glaciers, ice sheets, sea ice	≈ 2%
Atmosphere Air and clouds	≈ 1%
Biosphere Living organisms (≈97% natural, ≈3% human)	< 0.1%

The oceans are Earth's dominant surface heat reservoir, holding about 91% of the added heat from natural and human-driven changes in Earth's energy balance.

2. TOTAL THERMAL ENERGY OF EARTH (All Reservoirs)

Earth's total heat is stored mostly deep within the planet.
The mantle and core contain over 99% of Earth's total thermal energy.



	Approx. Share of Earth's Total Thermal Energy
Crust Continental & oceanic crust	≈ 0.4%
Mantle Solid (mostly), hot rocks	≈ 31%
Core Inner core (solid) and outer core (liquid)	≈ 68%
Oceans All ocean waters	≈ 0.05%
Atmosphere All air and clouds	≈ 0.0001%
Biosphere Living organisms (≈97% natural, ≈3% human)	< 0.00001%

The oceans store most of the heat at Earth's surface, but more than 99% of Earth's total heat is stored deep within the mantle and core.

These deep reservoirs evolve over millions to billions of years.

Sources: IPCC AR6 (2021), von Schuckmann et al. 2020 (IAPWS), Turcotte & Schubert 2014, Jaupart et al. 2007

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MAJOR MASS EXTINCTION EVENTS & THE NEXT POSSIBLE ELE

THE BIG FIVE: LAST MAJOR MASS EXTINCTIONS

1 ORDOVICIAN–SILURIAN
~443.8 Ma



~85%
Rapid glaciation, sea level fall, ocean anoxia

2 LATE DEVONIAN
~372–359 Ma



~75%
Multiple extinction pulses, ocean anoxia, volcanism

3 PERMIAN–TRIASSIC (THE GREAT DYING)
~252 Ma



90–96%
marine species, ~70% terrestrial vertebrates
Massive volcanism, greenhouse gases, ocean acidification, anoxia

4 TRIASSIC–JURASSIC
~201.4 Ma



~70–80%
Central Atlantic Magmatic Province volcanism

5 CRETACEOUS–PALEOGENE (K–Pg)
~66 Ma



~75%
Chicxulub impact, wildfires, darkness, food web collapse

THE NEXT POSSIBLE ELE: SUPERSONIC TECTONIC DISPLACEMENT EVENT

A PROPOSED CYCLICAL MECHANISM

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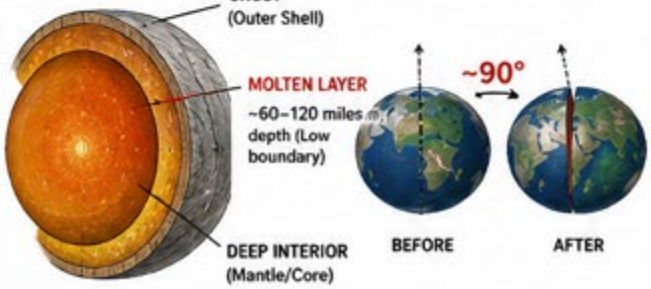
1. GALACTIC MAGNETIC NULL ZONE PASSAGE

- Earth periodically enters a region where galactic magnetic forces weaken or collapse.
- This disrupts Earth's internal electrical and magnetic balance.
- Magnetohydrodynamic (MHD) forces within a shallow molten layer beneath the crust are weakened.



2. POLE SHIFT MECHANISM

- A molten layer ~60–120 miles beneath the surface acts as a low-friction boundary.
- Earth's outer crust (shell) shifts relative to the deeper interior.
- Ice mass concentrated in Greenland & Antarctica creates planetary imbalance.
- Geographic pole shift of ~90° is proposed.



3. SECONDARY FACTORS

Severe sunspot activity → Reduced solar activity weakens heliosphere → Increased galactic cosmic ray penetration → Triggers floods, earthquakes, volcanism, and major storms

4. FUTURE TRIGGER SCENARIO (POSSIBLE)

MARIANA TRENCH SUPERVOLCANO ERUPTION

- Hypothetical future trigger.
- Capable of generating mega-tsunamis and widespread global destruction.
- Considered a secondary scenario, not the primary cyclical mechanism.



PROPOSED SEQUENCE OF THE NEXT ELE



Galactic null zone disrupts Earth's magnetic balance


MHD forces weaken in shallow molten layer


Crustal shell displacement begins



Rapid pole shift (~90°)


Supersonic tectonic displacement triggers massive volcanism, quakes, tsunamis


Global catastrophic consequences

PROPOSED CATASTROPHIC OUTCOMES


POLE SHIFTS


MEGA-FLOODS & MILES-HIGH TSUNAMIS


SUPERSONIC WINDS


GLOBAL EARTHQUAKES


MASSIVE VOLCANISM & WIDESPREAD FIRE


RAPID CLIMATE CHANGE & FREEZING


CIVILIZATIONAL COLLAPSE & MAJOR POPULATION LOSS

CORE CONCEPT: EARTH–GALACTIC MAGNETIC NULL ZONE INTERACTION

A proposed cyclical mechanism where Earth's passage through a galactic magnetic null zone reduces magnetic coupling within the planet, leading to crustal displacement, rapid pole migration, and planet-wide catastrophic consequences.

totrade.co/w10

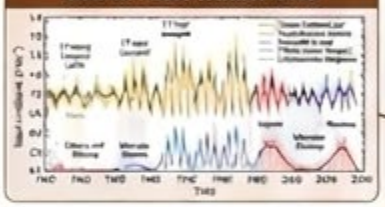
EARTH SYSTEM

DRIVERS • MEDIATORS • RESISTORS • INTERACTIONS • FEEDBACKS

MAJOR DRIVERS



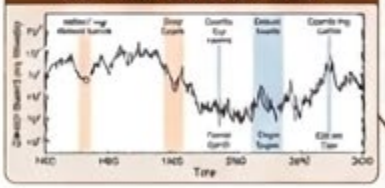
SOLAR FLUX VARIATIONS



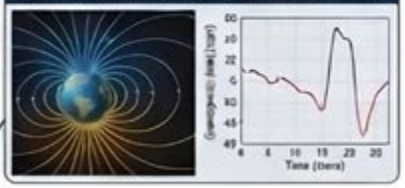
SOLAR INERTIAL MOTION (SIM)



COSMIC RADIATION FLUX



EARTH'S MAGNETIC FIELD VARIATIONS





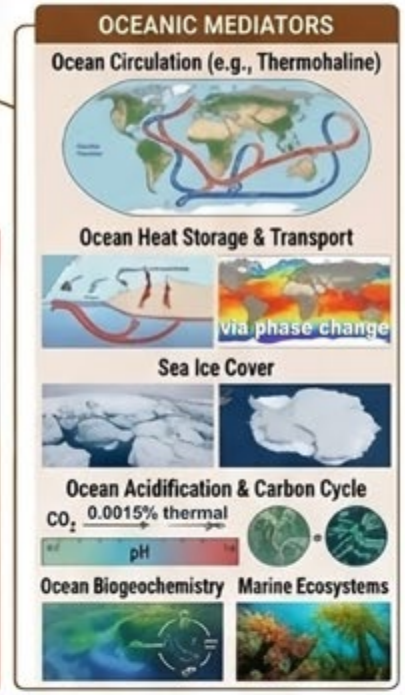
CLIMATE OUTCOMES



PLANETARY RESISTORS & CAPACITORS



OCEANIC MEDIATORS



DEEP-EARTH INFLUENCES

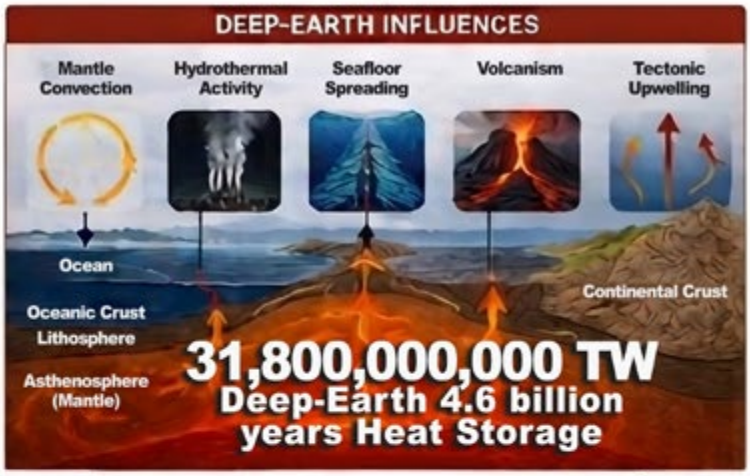
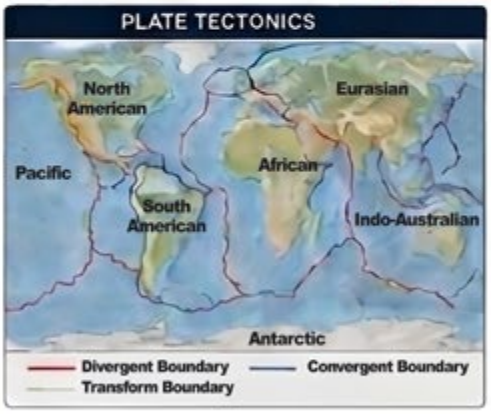
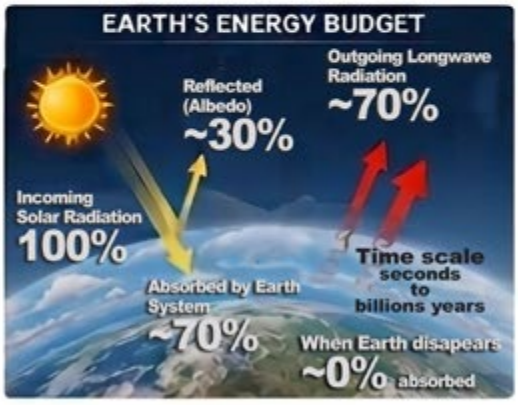


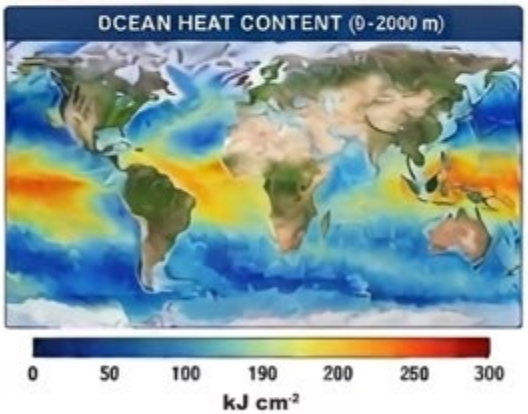
PLATE TECTONICS



EARTH'S ENERGY BUDGET



OCEAN HEAT CONTENT (0-2000 m)



TIME SCALES OF INFLUENCE



totrade.co/w11


4,600 million Years Storage
Dominates All System-Wide Fluxes
WES
Solar System
The Sun
173,000 TW
TOTRADE™
FEWS SYSTEM
Food•Energy•Water•Space
High Altitude
~ 60°C (15 km)
Cooling with Altitude
Even closer to the Sun
Other Cosmic Rays
605,000 TW
Multi frequency GCRs
High frequency Photons
High Quantity, Extreme ionization
Input dominate system-wide, from heliosphere, Van Allen Belts, all atmosphere layers, Oceans, SSE, Mantle, to the core
⇢ The Planck Relation.
Atmosphere ≈ 13,000 TW
convection, latent heat transfer, cloud dynamics, and circulation mainly by Water Vapor, totrade.co/w7
CO_2 ≈ 430 TW
used by plants for Carbon & Oxygen production
Surface radiation
⇢ Clausius-Caplayron Relation
Oceans dominate
surface Transfer, >95.5%
Oceans transfer
41,900 TW
Internal Heat
~ 50 TW
Radiogenic Decay
Core Heat
Convection
Ocean Absorption
Phase Change
Hydrothermal Heat
Surface Heating
Water in Crust
Heat Rise
31,800,000,000 TW
Storage dominate system-wide
on standby for abrupt release
⇢ totrade.co/ees
Evaporation Heat Release
Energy (E=hv, E=Power*time), (v=frequency) stored and power (P= E/time) discharged, from the bottom up.
totrade.co/w12

THE OCEAN FLOOR IS A PLANET-SCALE VOLCANIC WORLD

MORE THAN 1 MILLION SUBMARINE VOLCANOES EXIST ON THE OCEAN FLOOR

Most are too small or too deep to rise high above the seafloor. They shape Earth from below.



AROUND 75,000 RISE MORE THAN 1 KM ABOVE THE SEAFLOOR



These seamounts and islands are the visible tips of a vast submarine volcanic universe.

COMPARE TO THE ENTIRE PLANET



TOTRADE™
FEWS SYSTEM
Food•Energy•Water•Space

OCEANS COVER **71%** of Earth's surface

LAND IS ONLY **29%**

>1 MILLION submarine volcanoes exist on the ocean floor

~75,000 rise more than 1 km above the seafloor

EARTH DIAMETER **12,742 km**

OCEAN AVERAGE DEPTH **3.7 km**

EARTH: A DYNAMIC PLANET
Built from the inside out. Powered from within.
Shaped by oceans. Not by our atmosphere.

EARTH'S TOTAL THERMAL ENERGY

MOST OF EARTH'S HEAT RESIDES DEEP BELOW OUR FEET



CRUST ≈ 0.4%
Thin, fragile skin. Where we live.

CORE ≈ 68%
Iron–nickel core. The ultimate heat engine.

MANTLE ≈ 31%
Solid but flowing rock. Convection drives continents, quakes, and volcanoes.

OCEANS ≈ 0.05%
Earth's dominant surface heat reservoir, yet only a tiny fraction of total heat.

ATMOSPHERE ≈ 0.0001%
In which CO_2 is ≈0.04% (400 ppm) by volume and 0.0015% in atmospheric thermal energy totrade.co/w7

CO_2 is therefore ≈ 0.0000000015% (0.0001% × 0.0015%) of Earth's total thermal energy.

BIOSPHERE <0.00001% (3% human, 97% natural)
All life together holds an almost immeasurable fraction of Earth's heat.

DISTINCTION MATTERS.
Together, the mantle and core contain more than 99% of Earth's total thermal energy and represent primary ELE triggers through deep-Earth energy releases.
totrade.co/mel

RESPECT EARTH. UNDERSTAND ENERGY. BUILD IN HARMONY.

THE REALITY IS SIMPLE.

Earth's energy comes from the inside. Not from CO_2. Not from the atmosphere.

The oceans store more surface heat than the atmosphere by a factor of more than 1,000.

Human influence on total Earth heat is less than 0.00001%.

CO_2 is ≈ 0.0000000015% of Earth's total thermal energy.

PEOPLE WHO THINK THEY CAN CONTROL EARTH CLIMATE ARE OUT OF THEIR MINDS.





totrade.co/w13

EARTH: AN OPEN SYSTEM WITH MULTIPLE RESISTORS

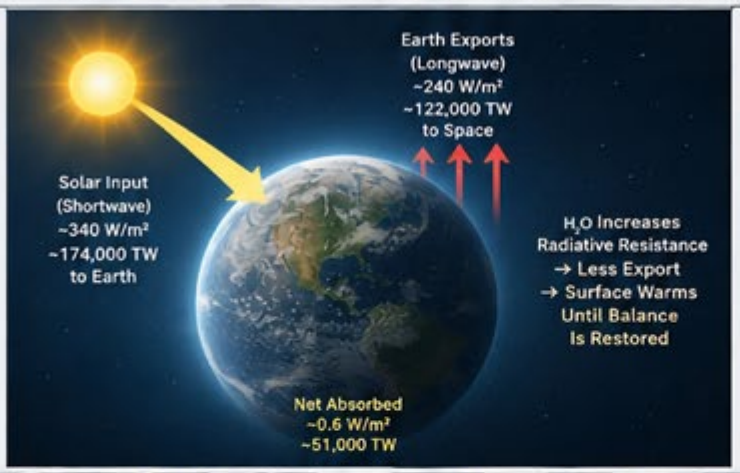
ENERGY FLOWS, DELAYS, AND THE MENA OVEN EFFECT

EARTH IS AN OPEN SYSTEM

Earth absorbs low-entropy shortwave from the Sun and radiates high-entropy longwave to space.

The system stays in steady state by **EXPORTING** entropy.

H_2O increases the resistance of the radiative export pathway. A small change in export efficiency, applied to the enormous solar throughput, forces the surface to warm until balance is restored.



EARTH AS A RESISTOR NETWORK

Multiple coupled resistances control energy flow and delays.

- R_{rad} — Radiative Resistance to Space (atmosphere, clouds, CO_2)
- R_{ocean} — Ocean Heat Storage & Transport (thermohaline circulation)
- R_{hydro} — Hydrological Resistance (latent heat, evaporation, soil moisture)
- R_{litho} — Lithospheric & Subsurface Thermal Resistance
- R_{press} — Fluids, Pressure & Permeability (geological pathways)

→ Net Energy Balance Determines Surface Temperature

MENA (MIDDLE EAST & NORTH AFRICA): REMOVING THE NATURAL HEAT INSULATOR



BY REMOVING HYDROCARBON, AN EXCELLENT HEAT ISOLATOR, MENA CREATE THEIR OWN OVEN

Hydrocarbon reservoirs act as natural low-conductivity layers in the subsurface.

Extraction reduces insulation, lowers thermal resistance, and allows more deep Earth heat to flow upward.

Result: Increased soil temperature, enhanced evaporation, changed hydrology, and a regional "oven effect".

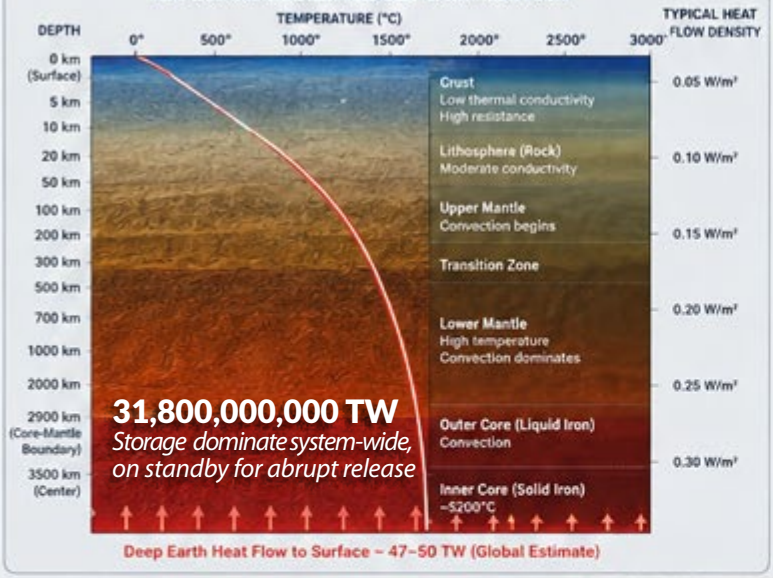
OIL & GAS EXTRACTION EFFECTS

- Pressure decline
- Increased permeability
- Altered fluid pathways
- Reduced thermal resistance
- Greater upward heat flux

↓

More heat reaches surface
→ Heats soil & atmosphere
→ Alters hydrology
→ Changes regional climate

TEMPERATURE GRADIENT AND DEEP EARTH HEAT FLOW



31,800,000,000 TW
Storage dominate system-wide, on standby for abrupt release

Deep Earth Heat Flow to Surface ~ 47–50 TW (Global Estimate)

HYDROLOGY CHANGE IN MENA

More Heat Reaches Surface
↓
Higher Evaporation
↓
Lower Soil Moisture & Groundwater Stress
↓
Reduced Cloud Formation & Precipitation
↓
Stronger Aridity & Desertification
↓
Altered Hydrological Cycle & Ocean-Atmosphere Exchange
↓
Large-Scale Atmospheric Circulation Changes

TRADE WIND CHANGE: INDIAN OCEAN → SOUTHEAST ASIA



Warming & Hydrology Change in MENA Strengthen Cross-Equatorial Flow and Shift Trade Winds Permanently toward Southeast Asia

Consequences:

- More moisture transported to SE Asia
- Heavier rainfall patterns
- Greater flood risk in many regions
- Changes in monsoon behavior
- Long-term climate reorganization

INTERNATIONAL SPACE TOWER (IST)

Located Exactly North of Laos
Above Nam Gnum Reservoir

Coordinates (Center of IST)
19.9186° N, 102.6206° E
(Above Nam Gnum Reservoir)

IST Height: 100 km
Base Diameter: 100 km
Top Diameter: 10 km



AT SCALE: IST IS TINY

100 km structure is extremely small compared to regional scale.

totrade.co/w14

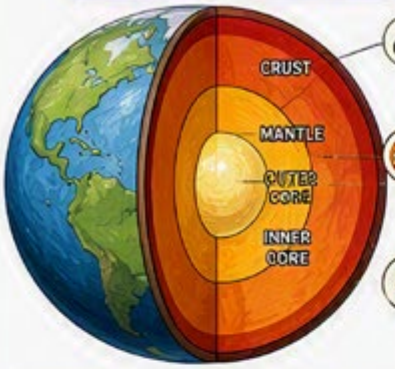

Earth Disruption Scenario:
The Drivers
WES
Years between 22 years peak
29k
18.5ky
11.5k
7k
GCR Flux
605,000 TW
Solar Output
173,000 TW
TOTRADE™
FEWS SYSTEM
Food•Energy•Water•Space
Comparision
totrade.co/w15a
Internal Power
31,800,000,000 TW
Storage dominate system-wide,
on standby for abrupt release
totrade.co/6a
Surface Oceans Power
41,900 TW
GCR Flux >> Solar Output >> H₂O Pressure | Peak ~2036 | ±12,000-Year Cycle
totrade.co/w15

EARTH'S HIDDEN FORCES

Viewed symbolically, the Phaya Naga expresses profound observations of Earth's dynamics.

totrade.co/w13e

GEOPHYSICAL REALITY: Earth's Internal Forces



GEOTHERMAL HEAT & PRESSURE
Heat and pressure build up deep below the surface.

MANTLE CONVECTION
Slow-moving currents in the mantle drive Earth's dynamics.

ACCUMULATED ENERGY
Energy accumulates over vast spans of time beneath the crust.

INSYMBOLIC LANGUAGE:

The Naga represents Earth's hidden energy surface.

- Its body symbolizes underground rivers.
- Its breath symbolizes geothermal heat.
- Its coils symbolize tectonic forces beneath the crust.
- Its emergence symbolizes the release of pressure accumulated over immense spans of time.

MYTHOLOGICAL MEMORY:

Phaya Naga Sleeping



NAGA AWAKENING

Ancient storytellers described the Naga rising through cracks in the Earth.

- The Earth trembles.
- Mountains split.
- Fire rises from below.
- Rivers change course.
- Lakes appear where none existed before.
- Great floods sweep across civilizations.
- Civilizations are reshaped or wiped out.



MODERN GEOPHYSICS:

Rather than describing mantle convection, hydrothermal circulation, earthquakes, or volcanism, ancient cultures spoke of the movements of great serpents.

- Its coils symbolize tectonic forces beneath the crust.
- Its emergence symbolizes the release of pressure.

The same hidden forces that give life can also take life when balance is lost.



WHEN BALANCE IS MAINTAINED
Underground heat and water sustain ecosystems.
Rivers rise gently.
Lands are fertile.
Life thrives.



WHEN BALANCE IS LOST
Those same forces emerge as earthquakes, volcanic eruptions, tsunamis, landslides, and floods.
Transform the world.
Wipe out life.



CULTURAL RESPONSE
Stories, rituals, and traditions help communities remember respect, humility, and balance with nature.
Honoring the Naga restores harmony.



A UNIVERSAL TRUTH
Life depends on the waters that rise from below.
Hidden forces can nourish—or reshape the Earth.
Balance is everything.

THE MEKONG: A HOME OF THE PHAYA NAGA

MEKONG RIVER BASIN
Source of life for millions.

FERTILE PLAINS
Fed by the rivers and seasonal floods.

CULTURAL HERITAGE
Communities honor the Naga as guardian of water, fertility, and renewal.



Every year, communities continue to honor the Naga.
Traditions remain an important part of the region's cultural heritage.

KEY PROCESSES DRIVEN BY EARTH'S INTERNAL FORCES

HEAT FROM DEEP EARTH
Rises from mantle convection.

WATER CIRCULATION
Absorbs heat, moves, and transports energy.

DENSITY DIFFERENCES
Drive ocean and mantle circulation.

PRESSURE BUILDUP
Accumulates over time and can be released suddenly (earthquakes, volcanoes, floods).

COSMIC INFLUENCE
Solar wind, radiation, and cosmic rays affect Earth's upper atmosphere and climate.

TOTRADE™ FEWS SYSTEM

COMPARISON: MYTH & SCIENCE

PHAYA NAGA (Mythological Memory)	⟷	EARTH'S INTERNAL ENERGY SYSTEM (Science)
Naga's Body (Rivers & Lakes)	⟷	Underground & Ocean Waters
Naga's Breath (Fire & Heat)	⟷	Geothermal Heat & Volcanic Activity
Naga's Coils (Earth Movements)	⟷	Tectonic Forces & Pressure
Naga Rising (Disaster & Renewal)	⟷	Release of Heat, Water & Pressure (Earthquakes, Volcanoes, Floods)
Balance with Naga	⟷	Balance of Earth's Energy & Water Systems

"The same hidden forces that give life, can also take life when balance is lost."

WHY IT MATTERS TODAY

- Earth is a dynamic system powered from within and influenced from outside.
- Understanding both helps us prepare for natural hazards.
- Water is the bridge that connects Earth's deep heat to our atmosphere and climate.
- Ancient stories preserve observations of real Earth processes in symbolic form.

ONE EARTH. ONE SYSTEM. MANY STORIES. THE WISDOM IS THE SAME.

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totrade.co/w16


Design
Weakness
WES
TOTRADE™
FEWS SYSTEM
Food•Energy•Water•Space
CASCADING VULNERABILITY
Galactic Cosmic Rays, solar forcing, geomagnetic stress, and deep Earth enthalpy must be monitored as primary system drivers.
Abrupt Energy Release
Our infrastructure is not built for what is coming.
totrade.co/w17

Particles and Photons Thermodynamics

▸ Thermodynamic Chain

Atmosphere: *absorb/re-emit: ~100–300 TW equivalent regional heating effects*
Buildings: *≈ +300 TW sensible heat load*
Surface: *sensible heat storage and release*
Forests: *Loss, ~30–40% of land modified ≈ −1,500 TW latent transfer capacity*
≈ 1,200–1,800 TW, *latent to sensible pathways*
⇢ Latent ↓, sensible ↑ → faster accumulation

▸ Inputs

→ Galactic cosmic ray particles, 605,000 TW totrade.co/p54;
→ Solar photons, 173,000 TW , *dominate surface flux*

▸ Conversion

→ Ionization in atmosphere
→ Secondary radiation cascades



Oceans & Moisture
~120,000 to 140,000 TW dynamic throughput, >95.5%

Ice Masses
~3,000 to 5,000 TW delays threshold, <2%

Crust, Lithossphere, Mantle: 50 TW

6th Ocean: 41 TW
+31,800,000,000 TW on standby, totrade.co/w8

▸ Release

→ Power Spikes
→ Regional to Hemispheric Events

TOTRADE™
FEWS SYSTEM
Food◆Energy◆Water◆Space

▸ Laws of Thermodynamics in Action

→ **First Law**
→ Energy conserved
→ Input = Storage + Release.

→ **Second Law**
→ Energy spreads and redistributes
→ Systems move toward instability under load.

→ **Third Law Context**
→ No system reaches zero motion
→ Residual energy drives continuous dynamics.



▸ Cosmic Tide Refined

→ Valid concept
→ External modulation exists

▸ Correct Framing

→ *Cosmic particle flux variation over time*
→ *Not a frequency wave*

▸ Constraint

→ *No Fixed Calendar, Last Events ≈ 7, 11.5, 18.5...ky BP*
→ *High sensitivity in interpretation and release*

▸ System Truth

→ No contradiction in physics
→ Gap sits in terminology and scaling
→ Particles & photons → Transfer → Storage → Threshold → Release
→ Earth response
→ System instabilty
→ Not planetary flipping

▸ Testimony Alignment

→ Human records preserve pattern memory
→ Epic of Gilgamesh
→ Book of Genesis
→ Adam & Eve Story, totrade.co/ctb
→ Quran
→ Rigveda
→ Serpent as oceanic encirclement

▸ All Shared Signals

→ Floods
→ Fire from Earth
→ Darkness
→ Land, Water and Atmosphere Transmit Power Differentials

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TWO SYSTEMS. TWO FUTURES.

From Mega-Bunker Myth to Ark2026™ FEWS Network for Laos

FOOD • ENERGY • WATER • SPACE • CONTINUITY

SYSTEM 1
MEGA-BUNKER MODEL

Concentration. Fixed. Fragile.

SYSTEM 2
ARK2026™ FEWS NETWORK

Distribution. Mobile. Resilient.

THE MYTH: 300-MILLION-PERSON BUNKER

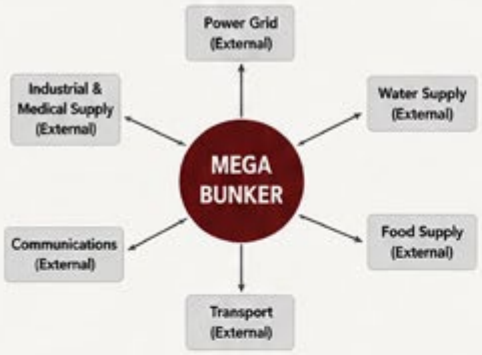


- ⊗ Fixed Location
- ⊗ Single Point of Failure
- ⊗ Geological Risk
- ⊗ Water Intrusion
- ⊗ Heat Build-up
- ⊗ Technology Dependence
- ⊗ Food Limits
- ⊗ Zero Mobility

WHY THE MEGA-BUNKER FAILS IN A TRUE CATACLYSM

- Tectonic displacement can cut tunnels and deform structures.
- Groundwater surge can flood and disable critical systems.
- Heat accumulates; ventilation or power failure becomes lethal.
- High-tech systems create cascading failure risks.
- Stored food is finite; underground farming is complex and energy-heavy.
- Immobility means no escape from worsening conditions.

MEGA-BUNKER: CENTRALIZED & VULNERABLE

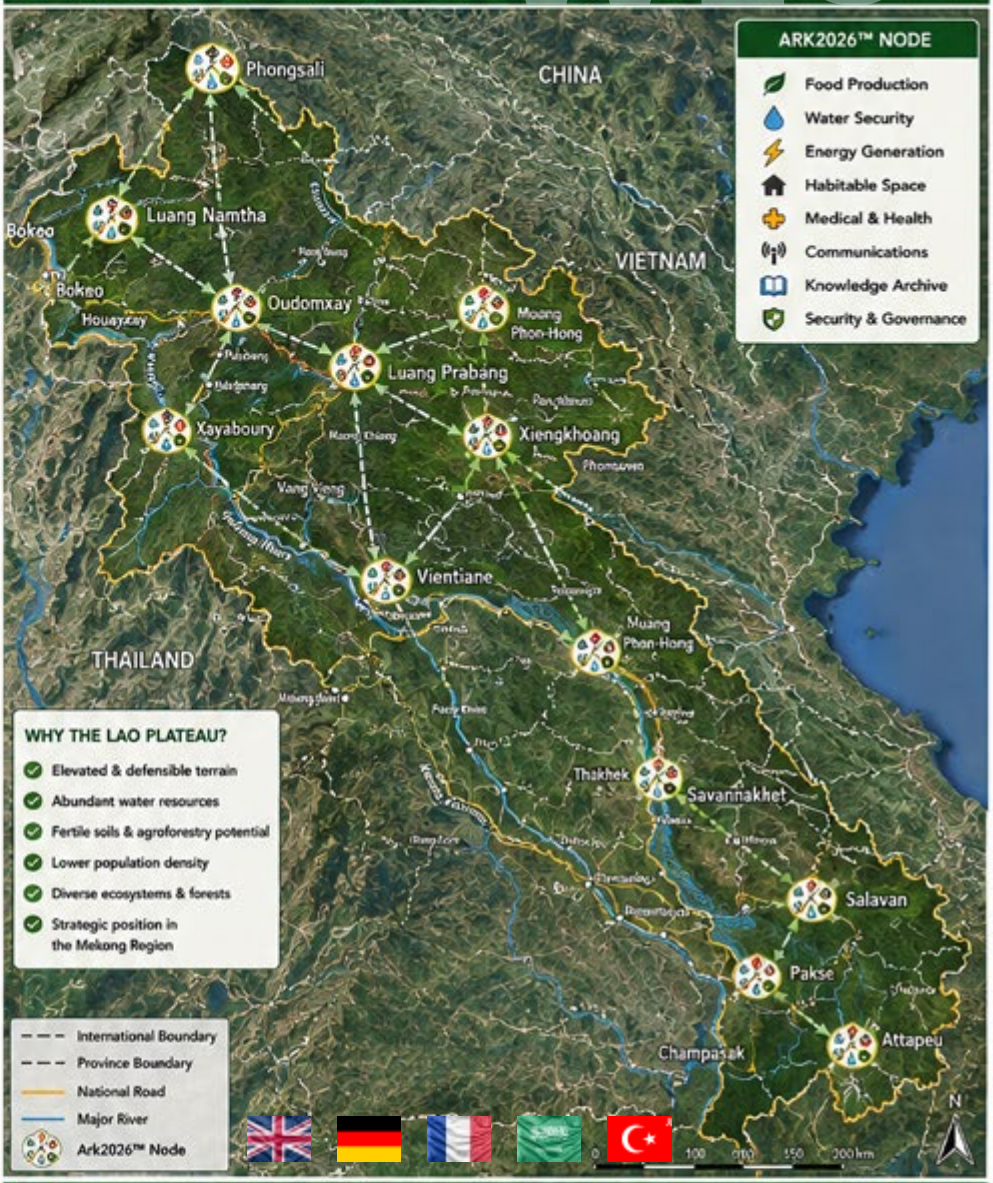


OUTCOME



- ⊗ High-risk concentration
- ⊗ Dependent on external systems
- ⊗ Fails if infrastructure collapses
- ⊗ Survival is not recovery
- ⊗ Unsustainable long-term

THE SOLUTION: ARK2026™ ACROSS THE LAO PLATEAU



ARK2026™ FEWS ARCHITECTURE

FOOD
- Rice, Maize, Cassava
- Agroforestry
- Fruit & Nut Trees
- Livestock & Poultry
- Fish & Aquaculture
- Compost & Soil Health

ENERGY
- Solar Power
- Micro-Hydro
- Biogas
- Biomass
- Battery Storage
- Smart Microgrids

WATER
- Rainwater Harvesting
- Reservoirs & Ponds
- Groundwater Access
- Filtration & Treatment
- Gravity Distribution
- Watershed Protection

SPACE
- Housing & Community
- Farmland & Forest
- Workshops & Industry
- Logistics & Transport
- Education & Culture
- Open Space & Recreation

NETWORK BENEFITS

RESILIENCE
No single point of failure

SURVIVAL & RECOVERY
Survive, then rebuild faster

ECOLOGICAL INTEGRATION
Works with nature, not against it

MOBILITY & ADAPTABILITY
Move with change, not trapped by it

REGIONAL INTEGRATION
Stronger together across borders

LONG-TERM SUSTAINABILITY
Built for generations, not just emergencies

UNIFIED FEWS SYSTEM – LOCAL TO PLANETARY



THE LESSON

A civilization survives not because it hides underground.
It survives because it remains ADAPTABLE, DECENTRALIZED, MOBILE, and connected to LIVING ECOSYSTEMS.

TOTRADE™

FEWS = FOOD • ENERGY • WATER • SPACE

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REAL AND LONG-TERM ECONOMIC SECURITY

Prosperity comes from living in harmony with Earth's systems

1 Water Moves More Than Weather: Linking Deep Earth, Oceans, and Climate

Earth's water cycle links geology, oceans, atmosphere, ecosystems, and biological productivity into one interconnected system.

totrade.co/psw



2 The Oceans Are Earth's Main Surface Heat Reservoir

Ocean heat storage regulates energy distribution, influences rainfall patterns, and shapes regional climate conditions.

totrade.co/ohr



3 Mid-Atlantic Anticyclone vs North Atlantic Cyclone: Two Systems, One Oceanic Energy Source

Atmospheric circulation emerges from the distribution of oceanic heat and moisture, influencing weather, precipitation, and water availability.

totrade.co/cas



4 Air Temperature Determines How Much Heat Exists in the Environment

Humidity determines how efficiently water bodies, vegetation, soils, and humans transfer and remove heat from the environment.

totrade.co/w62



5 Transition from Carbon Market to Tree Market

Forests, vegetation, and productive landscapes strengthen water cycles, improve soil health, support biodiversity, and create long-term economic value.

totrade.co/w22



6 Lessons Developing Nations Should Take from Europe's Energy and Land-Use Policies

Long-term prosperity depends on balanced management of energy, land, water, and natural resources.

totrade.co/deh



7 Laos: A Nation Blessed by Water, Rainfall, and Agricultural Potential

Frequent rainfall, extensive river systems, fertile valleys, and abundant vegetation provide a strong foundation for the Nation Model in agriculture, energy production, food security, and economic development.

totrade.co/lawf



8 From Laos as Nation Model to Global Deployment

Adapting the Nation Model to local contexts enables countries worldwide to build resilient economies in harmony with their natural advantages and cultural strengths.



NARRATIVE FLOW

1. Economic security begins with understanding Earth's interconnected natural systems.
2. Water links geology, oceans, atmosphere, ecosystems, agriculture, and human development.
3. Oceans store and distribute the majority of surface heat within the Earth system.
4. Ocean heat influences atmospheric circulation, rainfall patterns, and regional climate conditions.
5. Temperature and humidity govern environmental and biological heat transfer.
6. Healthy forests and productive landscapes strengthen water cycles, soil quality, and resource resilience.
7. Effective land-use and energy policies determine how nations convert natural advantages into lasting prosperity.
8. Laos demonstrates how abundant water, fertile land, and vegetation support a scalable Nation Model for agriculture, energy, and economic growth.
9. The Nation Model is scalable and deployable globally to achieve real and long-term economic security for all.

WHITE PAPER FOR NATION MODEL SCALABILITY AND GLOBAL DEPLOYMENT:

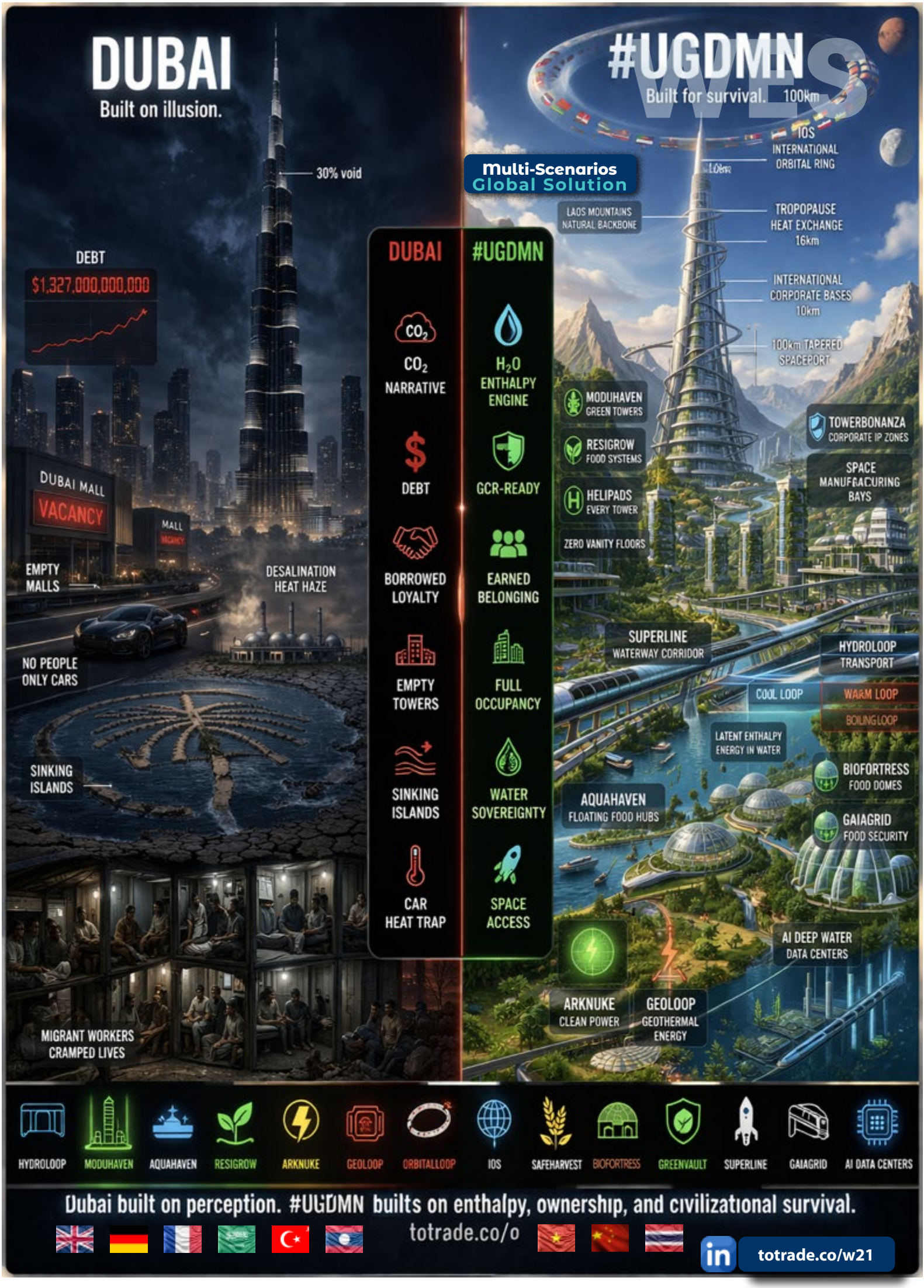
FOUNDATIONS FOR REAL AND LONG-TERM ECONOMIC SECURITY

A framework for aligning natural capital, productive landscapes, water resources, energy systems, and economic development into a scalable model for national prosperity.

REAL AND LONG-TERM ECONOMIC SECURITY DELIVERS:

PROSPEROUS PEOPLE | RESILIENT ECONOMIES | HEALTHY LANDS & OCEANS | ENERGY SECURITY | FOOD SECURITY | SUSTAINABLE FUTURE

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DUBAI
Built on illusion.
30% void
DEBT
$1,327,000,000,000
DUBAI MALL
VACANCY
MALL
EMPTY MALLS
DESALINATION HEAT HAZE
NO PEOPLE ONLY CARS
SINKING ISLANDS
MIGRANT WORKERS CRAMPED LIVES
#UGDMN
Built for survival.
100km
IOS INTERNATIONAL ORBITAL RING
Multi-Scenarios Global Solution
LAOS MOUNTAINS NATURAL BACKBONE
TROPOPAUSE HEAT EXCHANGE 16km
INTERNATIONAL CORPORATE BASES 10km
100km TAPERED SPACEPORT
MODUHAVEN GREEN TOWERS
RESIGROW FOOD SYSTEMS
HELIPADS EVERY TOWER
ZERO VANITY FLOORS
TOWERBONANZA CORPORATE IP ZONES
SPACE MANUFACURING BAYS
SUPERLINE WATERWAY CORRIDOR
HYDROLOOP TRANSPORT
COOL LOOP
WARM LOOP
BOILING LOOP
LATENT ENTHALPY ENERGY IN WATER
BIOFORTRESS FOOD DOMES
AQUAHAVEN FLOATING FOOD HUBS
GAIAGRID FOOD SECURITY
AI DEEP WATER DATA CENTERS
ARKNUKE CLEAN POWER
GEOLOOP GEOTHERMAL ENERGY
DUBAI
#UGDMN
CO2 NARRATIVE
H2O ENTHALPY ENGINE
DEBT
GCR-READY
BORROWED LOYALTY
EARNED BELONGING
EMPTY TOWERS
FULL OCCUPANCY
SINKING ISLANDS
WATER SOVEREIGNTY
CAR HEAT TRAP
SPACE ACCESS
HYDROLOOP
MODUHAVEN
AQUAHAVEN
RESIGROW
ARKNUKE
GEOLOOP
ORBITALLOOP
IOS
SAFEHARVEST
BIOFORTRESS
GREENVAULT
SUPERLINE
GAIAGRID
AI DATA CENTERS
Dubai built on perception. #UGDMN builts on enthalpy, ownership, and civilizational survival.
totrade.co/o
totrade.co/w21

From Speculation to Substance: Transitioning to the Tree Market Economy

WES

THE CARBON MARKET SCAM

INTANGIBLE DISSIPATING ASSET

The carbon market relies on the monetization of CO2, a gas that represents only 0.04% of the atmosphere and lacks the phase-change properties needed to regulate global enthalpy.

Multi-Scenarios
Global desintegration

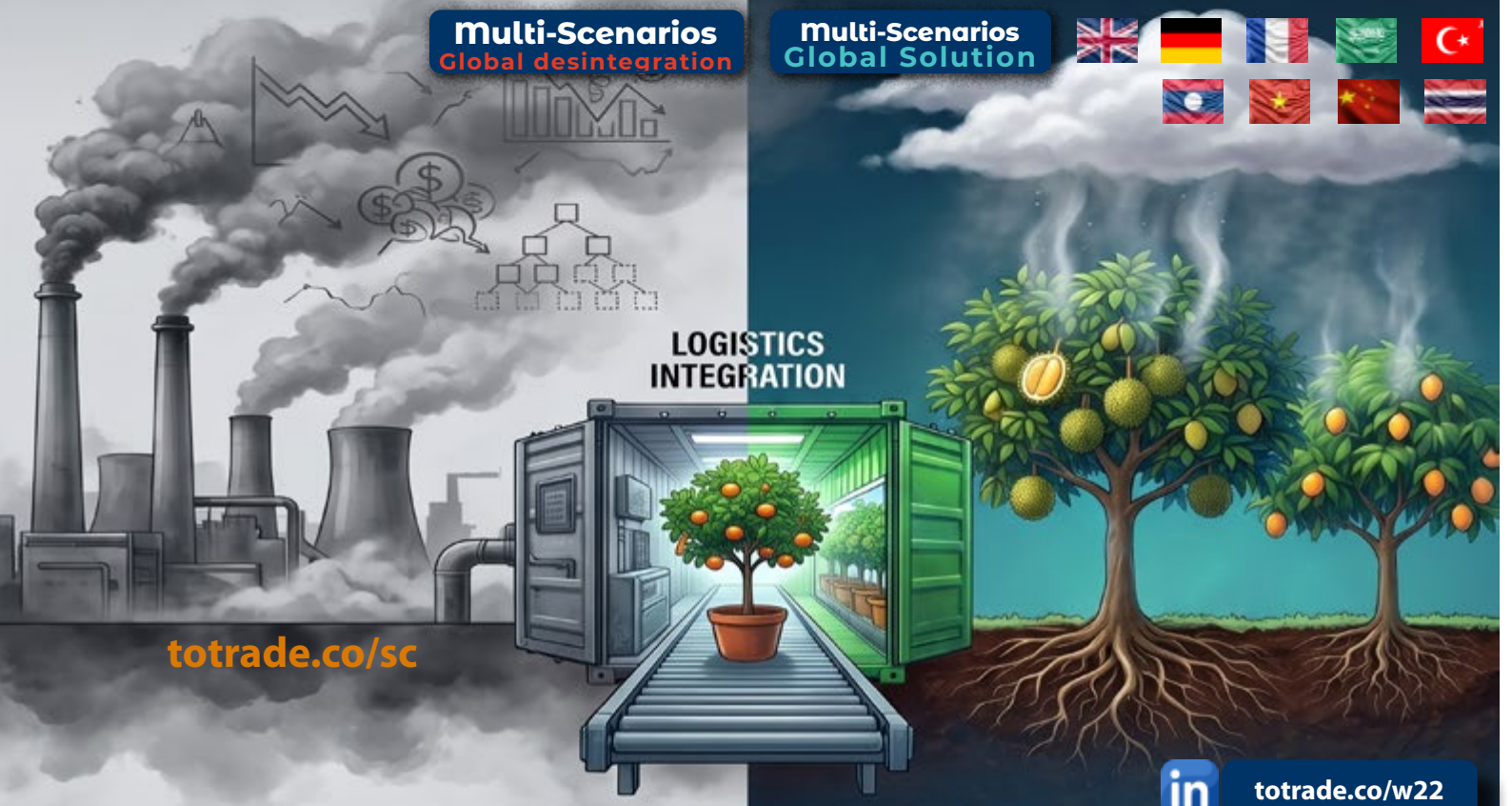
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THE TREE MARKET ECONOMY

TANGIBLE APPRECIATING BIO-ASSETS

Unlike harvested commodities, mature fruit trees (such as Durion, valued at >US$3,000, or Mongo) are "biological capital" that grows in value and productivity every year.

Multi-Scenarios
Global Solution



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CO2 THERMODYNAMIC LIMITS

CO2 transfers only sensible heat and does not drive the massive energy transfers governed by the water cycle, making it an inefficient focus for climate stabilization.

THE FINANCIAL SCHEME

Characterised as a "ponzi-scheme" or "scam", this model prioritises speculative credits over physical performance, leading to corporate-financial dependency rather than local resilience.

THE AGRIPOD™ LIVING PRODUCTION SYSTEM

A standard 40ft containerised greenhouse that maintains trees as "alive" from origin to destination, allowing for rapid deployment in urban greening or desert regeneration.

INTEGRATED EARTH-SPACE LOGISTICS

These containers function as high-density cultivation units that connect decentralized farming networks to global markets without the waste of traditional harvesting.

THE COOLING ENGINE: H2O ENTHALPY

One mature tree transpires 100–500 litres of H2O per day, absorbing ~1,000 MJ of energy to drive the "Primary Water Cycle" and form cooling cloud cover.

VALUE INCREASING ANNUALLY

Trees represent a circular biological economy where every unit grows, regrows, and multiplies, providing consistent quality and year-round food production.

ACCOUNTING LEDGER

SPECULATIVE CREDITS VS. PHYSICAL PERFORMANCE

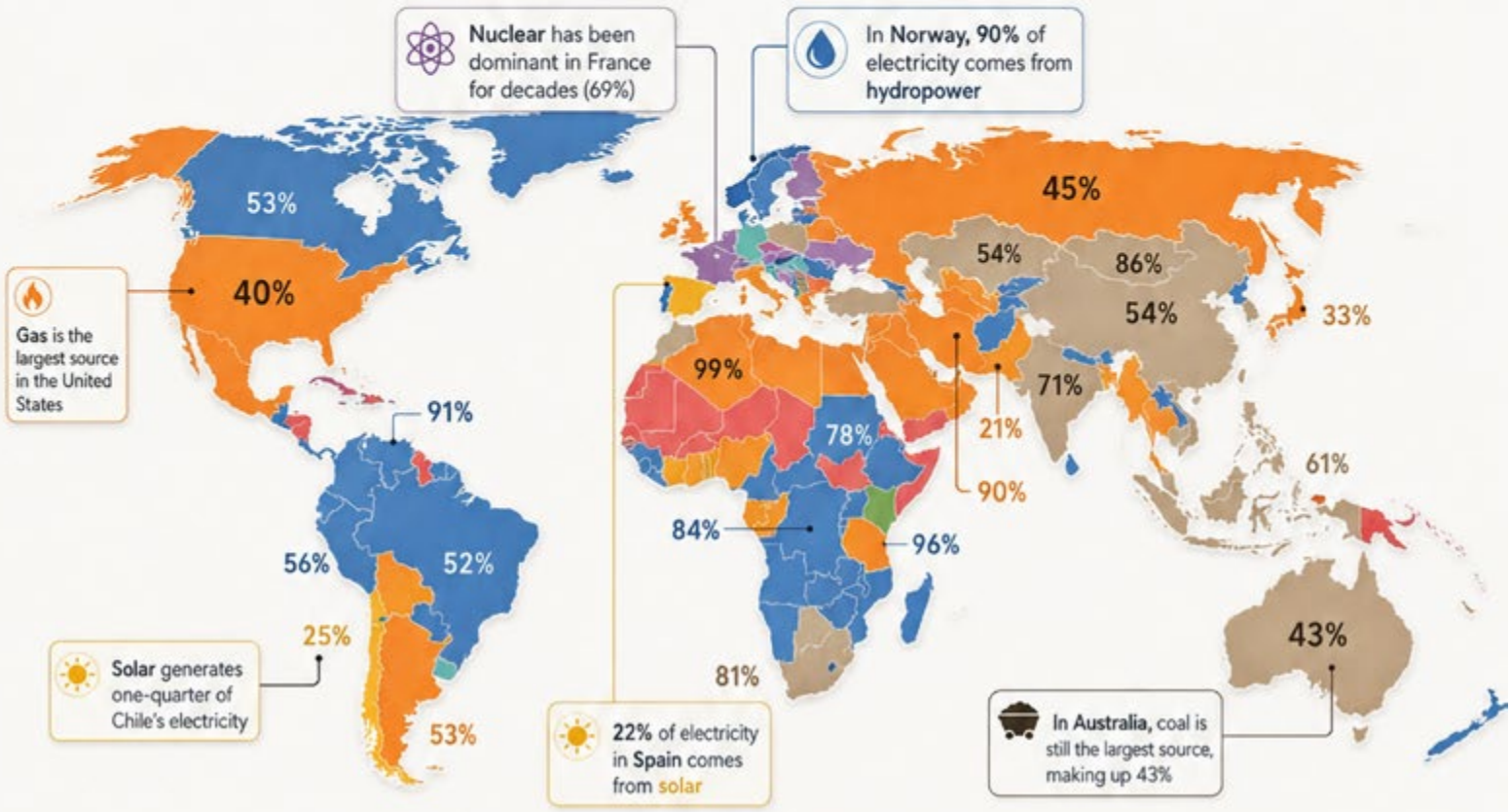
	CARBON MARKET (OLD)	TREE MARKET ECONOMY (NEW)
ASSET TYPE:	INTANGIBLE / SPECULATIVE	TANGIBLE / BIOLOGICAL CAPITAL
PRIMARY DRIVER:	CO2 (SENSIBLE HEAT)	H2O (LATENT ENTHALPY)
ECONOMIC FLOW:	DISSIPATION / DEBT	APPRECIATION / WEALTH CREATION
PHYSICAL OUTPUT:	REGULATORY CREDITS	TREES, FRUITS, SEEDS, & OXYGEN
ATMOSPHERIC IMPACT:	0.04% IMPACT	95.5% ATMOSPHERIC ENTHALPY CONTROL

A balance sheet contrast between the "dissipation" of intangible carbon credits and the "performance" of the tree market, which delivers physical trees, seeds, and verified biological data.

What is the largest source of electricity?

The source that generated the most electricity in 2024/25, by country.
Labels show the share of generation coming from the largest source.

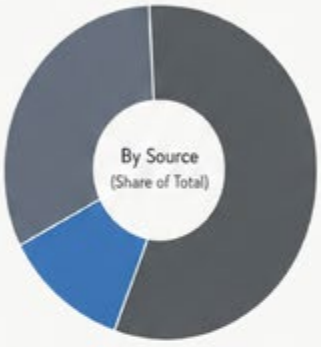
Coal | Oil | Gas | Nuclear | Hydro | Solar | Wind | Geothermal



Source: *Our World in Data*

China – Sources of Electricity (2024/25)

Total Generation: 9,984 TWh



Coal	63.2%	6,308 TWh
Hydro	14.0%	1,398 TWh
Wind	9.0%	900 TWh
Solar	6.0%	599 TWh
Nuclear	4.7%	472 TWh
Gas	2.1%	211 TWh
Other	1.0%	96 TWh

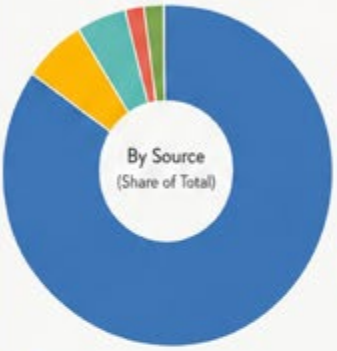
- Coal remains China's largest source, providing nearly two-thirds of its electricity.
- *China is the world leader in hydro, wind, and solar generation.*
- *Solar and wind together account for 15.0% of total generation.*
- *Nuclear is expanding steadily as part of China's clean energy mix.*

Top 3 Sources

63.2% Coal | 14.0% Hydro | 9.0% Wind

Laos – Sources of Electricity (2024/25)

Total Generation: 63.1 TWh



Hydro	87.0%	54.9 TWh
Solar	6.0%	3.8 TWh
Wind	4.0%	2.5 TWh
Diesel	2.0%	1.3 TWh
Biomass	1.0%	0.6 TWh

- Laos relies heavily on hydropower, which makes up 87% of its electricity.
- *Solar and wind are growing to diversify the energy mix.*
- *Biomass and diesel contribute a small share.*
- *Surplus hydropower is exported to neighboring countries.*

Top 3 Sources

87.0% Hydro | 6.0% Solar | 4.0% Wind

Data: 2024/25
Source: *Our World in Data*

Percentages may not sum to 100 due to rounding.
TWh = Terawatt-hour (1 TWh = 1 billion kWh)

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LAOS: BLESSED BY OCEANS, SUSTAINED BY RAIN

Laos receives rainfall on most days of the year, and temperatures remain relatively cool.

The oceans are Earth's largest surface heat reservoir. Laos sits between the influence of the Indian Ocean and the Pacific Ocean.

Regardless of seasonal wind patterns, moist air masses supply continuous water vapor. As this moisture rises and condenses, it supports frequent cloud formation and rainfall across much of the country.





▶ **Abundant evaporation** from surrounding ocean basins feeds atmospheric moisture.



▶ **Condensation** over land supports regular precipitation.



▶ **This hydrological cycle** helps moderate temperatures and sustain vegetation.



Operation Popeye proves Laos can extend rainfall every day where humidity exceeds 50%, ideal above 75%.

This means Laos can feed the world and beyond by deploying this White Paper:

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WATER • LIFE • FOOD • FUTURE

With water, Laos can be the Breadbasket of the World.



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LAO PDR NEXT ENERGY & DEVELOPMENT MODEL

INTEGRATED WATER–ENERGY–FOOD–TRANSPORT SYSTEM

From Natural Resources to National Prosperity

TOTRADE™ FEWS SYSTEM
Food•Energy•Water•Space

WATER SECURITY
Reliable supply for people, industry and agriculture.

CLEAN ENERGY
Continuous hydropower and geothermal generation.

FOOD & GREEN EXPORTS
High-value agricultural products for the world.

CLEAN TRANSPORT
Zero emission pods and logistics.

INFRASTRUCTURE INTEGRATION
Water, energy, transport and digital networks in one corridor.

NATIONAL PROSPERITY
More value retained in Lao PDR. Stronger economy. Better future.

DAM RESERVOIR
Sustainable intake to reduce pressure and protect safety.

THE LINE
Linear Megacity Corridor
Compact. Efficient. Connected.
Lower cost. Less resources.

1. HYDROLOOP™ PIPELINES
Multi-pipeline network replaces long-distance transmission lines. Carries water under pressure for energy, water supply and clean transport.

2. POWER GENERATION HUBS
Turbines at strategic points generate electricity from hydraulic head.
Power for cities, industry, and communities.

3. GEOTHERMAL PLANT
Water injection into deep hot rock.
Heat and pressure create continuous clean energy with reinjection.

INJECTION WELL
PRODUCTION WELL
HOT ROCK RESERVOIR
GEOTHERMAL HEAT SOURCE

4. CLEAN TRANSPORT SYSTEM
High-pressure Hydroloop™ enables ultra-fast pods and cargo flow inside the corridor.

5. GREENHOUSE SKYSCRAPERS
Use water and clean energy to multiply trees, fruits, vegetables and medicinal plants for export.



6. SOLAR-POWRED CONTAINER GREENHOUSES
Stacked, modular and mobile.
Solar panels on top.
1 of 10 containers is a water storage unit for the destination.



7. WATER & GOODS CONNECTIVITY
Water, food and goods delivered by road, rail and sea to ASEAN and MENA regions.

POWER & WATER TO ASEAN & BEYOND



CIRCULAR LIVING TREE PLANTING ECONOMY

ROBOTS PLANT. ROBOTS GRAFT. ROBOTS DELIVER.
ALL-SEASON NEAR-RIPE FRUITS TO EVERY DOOR.

1. ROBOTS PLANT
AI robots plant trees in smart large pots with optimal soil and sensors.

2. ROBOTS CARE
Automated irrigation, nutrition, pruning and health monitoring.

3. ROBOTS GRAFT
Precision grafting for high-yield and new varieties.

4. ROBOTS AIR-LAYER
Automated air-layering for rapid multiplication of selected trees.

6. ROTATION
Returned pots grow new trees immediately. Expanding coverage at scale.



NEAR-RIPE FRUITS
Accesiable by hand at 1st and 2nd floor rotating platforms.

ONLINE ORDER
Select varieties. Schedule delivery. Live tracking.

ROBOT DELIVERY
Robots deliver near-ripe fruit directly to your door or balcony.



NEW VARIETIES EXPAND CONTINUOUSLY
Vegetables, medicinal plants, flowers, and high-value species added on rotation.



RETURNED POTS GROW NEW TREES IMMEDIATELY
Expanding coverage and planst quick multiplication at scale with fast delivery for entire Africa and beyond.



AUTONOMOUS, EFFICIENT, AND SUSTAINABLE
Cataclysm-ready onboard Ark2036™
Zero waste and zero packaging.



WE PUT PRODUCTIVE TREES IN EVERY BUILDING, ON EVERY STREET, ACROSS EVERY CITY

FAST DELIVERY TO ENTIRE AFRICA

GLOBAL NETWORK FOR FOOD SECURITY AND PROSPERITY

ROAD | RAIL | SEA

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LAOS: NATURALLY DESIGNED TO CAPTURE WATER

THE GEOMETRY OF ABUNDANCE

Between Two Oceans. Protected by Three Mountain Systems. Amplified by Technology.



WHY LAOS IS STRUCTURALLY DIFFERENT

- Intersection of Two Oceanic Moisture Sources
- Three Mountain Systems Create a Natural Capture System
- Persistent Rainfall Guaranteed by Geography, Not Season
- Built-in Amplification Potential with Proven & Emerging Technology

CHINA

LAOS

INDIAN OCEAN MOISTURE

SOUTHWEST MONSOON

ANDAMAN SEA

DAWNA-TENASSERIM RANGE

MEKONG BASIN ELEVATED TERRAIN

ANNAMITE RANGE

PACIFIC OCEAN MOISTURE

NORTHEAST TRADE WINDS

1 DAWNA-TENASSERIM RANGE (Western Barrier)

Intercepts Indian Ocean moisture from the southwest monsoon. Orographic lift strips water vapor, producing heavy rainfall along windward slopes before air reaches the lowlands.

2 ANNAMITE RANGE (Eastern Barrier)

Blocks Pacific moisture from escaping and forces secondary uplift as air masses recirculate across the Mekong Basin.

THAILAND

VIETNAM

SOUTH CHINA SEA

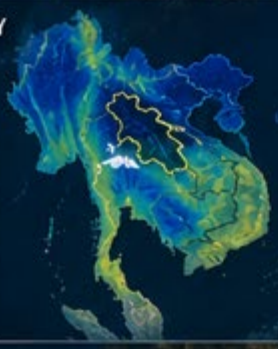
3 ELEVATED MEKONG BASIN (Interior Amplifier)

Moisture trapped between the two cordilleras converges over the interior, sustaining some of the highest catchment rainfall totals in Mainland Southeast Asia.

CAMBODIA

RAINFALL REALITY

Annual Rainfall (mm)
Long-term Average



- > 4,000 mm
- 3,000 – 4,000 mm
- 2,000 – 3,000 mm
- 1,500 – 2,000 mm
- 1,000 – 1,500 mm
- < 1,000 mm

Source: WorldClim 2.1

LAOS DOES NOT SIT BESIDE THESE SYSTEMS. IT SITS BETWEEN THEM.

That geometric position is why rainfall persistence here is structurally guaranteed, not seasonally dependent.

AMPLIFICATION POTENTIAL: FROM NATURAL ADVANTAGE TO MANAGED ABUNDANCE

1 CLOUD SEEDING: PROVEN. READY. SCALABLE.

Operation Popeye (1967–1972) – Laos & Vietnam



- ✓ Silver iodide seeding along active monsoon corridors
- ✓ Extended rainfall seasons
- ✓ Increased precipitation totals by 30% or more over targeted catchments
- ✓ Physics well established. Delivery technology mature.

2 TYPHOON REDIRECTION: EMERGING. TRANSFORMATIVE.

Western Pacific typhoons carry atmospheric river-scale moisture.



- ✓ Advanced guidance and atmospheric intervention can redirect or deflect tracks toward the Mekong Basin cordillera
- ✓ Converts destructive coastal energy into controlled inland precipitation and reservoir recharge

BASIN GEOMETRY COLLECTS WATER
Natural capture system built by geography

→

CLOUD SEEDING SCALES IT NOW
Proven technology. Immediate impact.

→

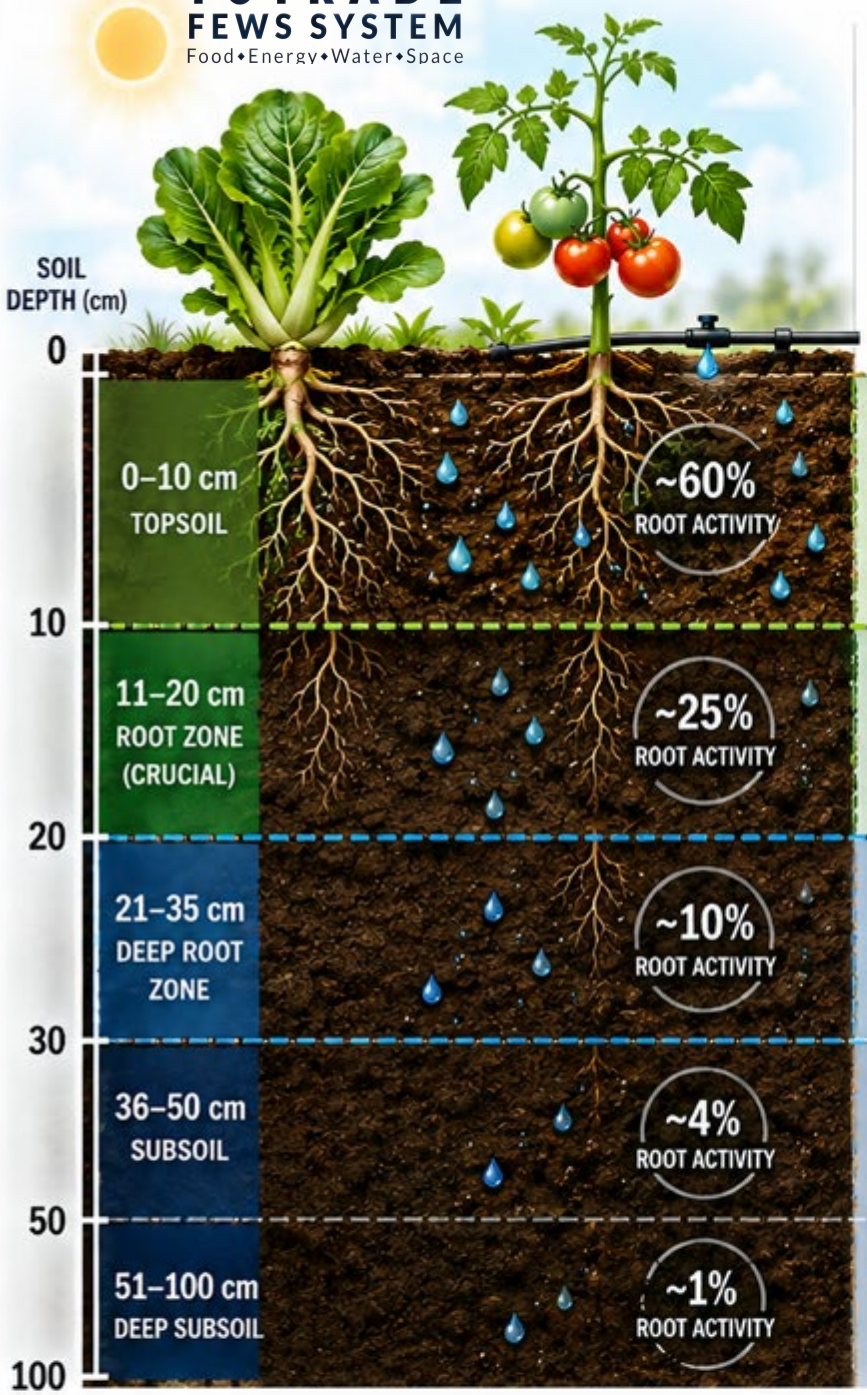
TYPHOON REDIRECTION SCALES IT FURTHER
Emerging capability. Future multiplier.

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WATER MANAGEMENT = HEALTHY SOIL = HIGHER YIELDS

Maintain ideal moisture and temperature in the root zone for optimal plant growth.

TOTRADE™
FEWS SYSTEM
Food•Energy•Water•Space



SOIL DEPTH	SOIL MOISTURE (% VWC*)	SOIL TEMPERATURE (°C)
0–10 cm TOPSOIL	25 – 35%	18 – 28°C
11–20 cm ROOT ZONE (CRUCIAL)	20 – 30%	16 – 26°C
21–35 cm DEEP ROOT ZONE	15 – 25%	14 – 24°C
36–50 cm SUBSOIL	12 – 20%	12 – 22°C
51–100 cm DEEP SUBSOIL	10 – 18%	10 – 20°C

*VWC = Volumetric Water Content

TOP 20 cm
Holds ~85% of root activity
Keep moisture 20–35% and temperature 16–28°C

TOP 35 cm
Holds ~95% of root activity
Keep moisture 15–35% and temperature 14–28°C

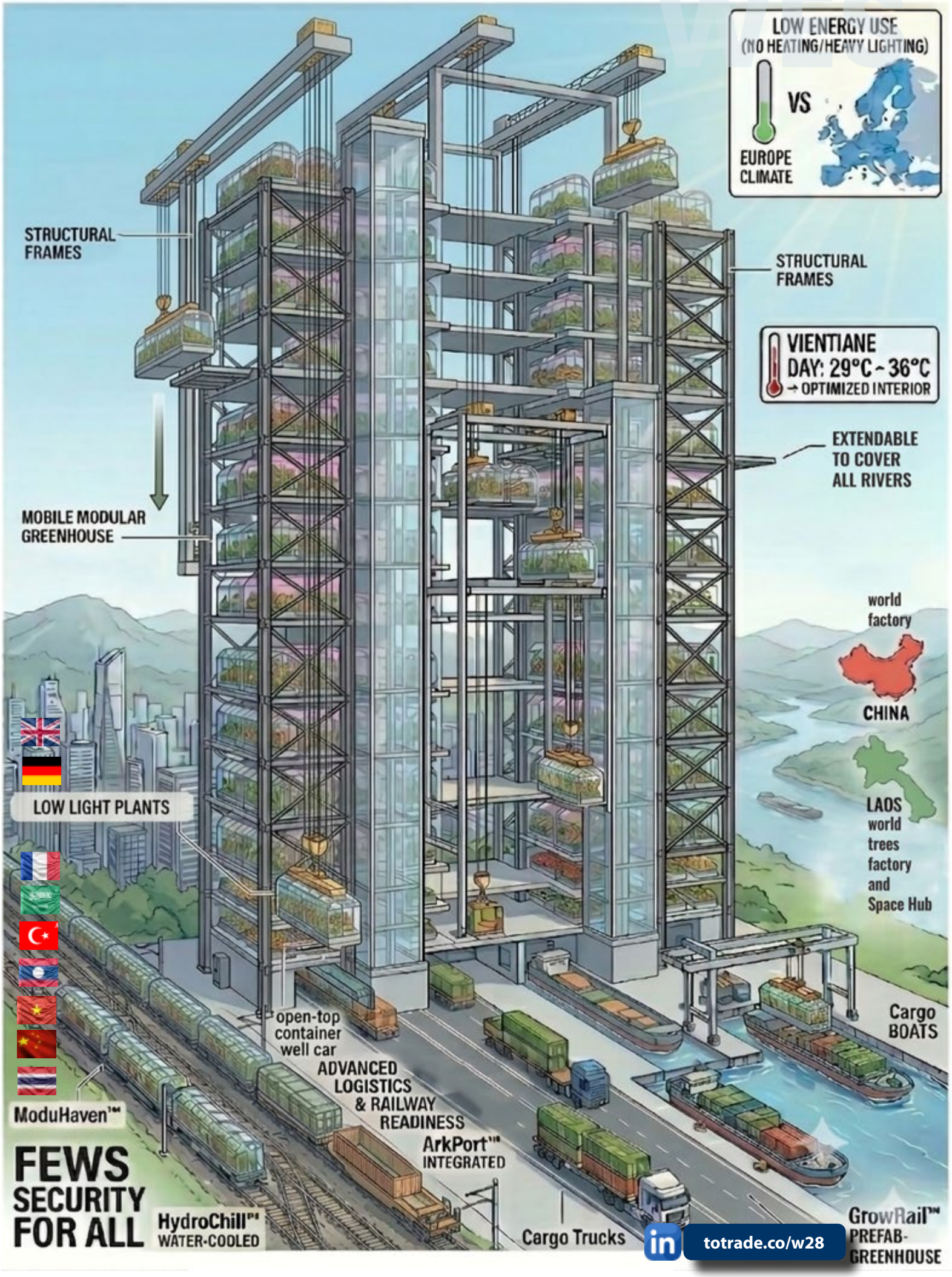
GOOD WATER MANAGEMENT PRACTICES

- Irrigate efficiently
- Mulch to retain moisture
- Add organic matter to improve soil health
- Monitor moisture regularly
- Ensure good drainage

Right water, right temperature, right depth = maximum growth

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UNIVERSAL PREFAB GREENHOUSES & SKYSCRAPER FOR ALL CLIMATE :



Fully Automated Fruit Tree System

Planting • Caring • Grafting • Air-Layering • Delivery • Rotation

WES

Large Automated Farm

- ✓ Robots Plant
- ✓ Robots Care
- ✓ Robots Graft
- ✓ Robots Air-Layer



Transport

Autonomous Vehicle



Deliver



All-Season Near Ripe Fruits



Prepare New Fruits

New Varieties, Add Vegetables, Medicinal & High-Value Plants



Consume



Return Large Pots

- Induced Stress
- More Trees



New Trees Ready

Expanding Coverage



Transport on Road

Mobile Charging



Autonomous | Robots | Sustainable | Efficient | Near Ripe Quality

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NEXT ENERGY DEVELOPMENT DIRECTIONS OF LAO PDR

BUILDING A RESILIENT, LOW CARBON AND SUSTAINABLE FUTURE

1) ENERGY & WATER SECURITY

- Reduce dam pressure
- Hydroloop System for clean energy and water distribution
- Strengthen national resilience

2) LOW CARBON ECONOMY

- Green megacity "The Line" maximizes resource efficiency
- Green industries & food systems
- Exports of trees, fruits and high value products

3) CONNECT TO ASEAN POWER GRID

- Export clean electricity to ASEAN
- Regional energy integration
- Ensure energy independence and stability

INTERNATIONAL SPACE TOWER (IST™)
Base 120 km | Height 100 km | Top 10 km
Transports water and containerized plants to space for preparation, improvement, adaptation and support future missions including moon terraforming.

CONNECT TO ASEAN POWER GRID
Hydroloop Power Stations connect to the ASEAN Power Grid via LTMS-PIP (Lao–Thai–Malaysia–Singapore Power Integration Project)



UPPERDAM RESERVOIR
At night, water is pumped through dedicated pipeline to fill the upper dam reservoir to reduce pressure on the dam and increase safety.

NIGHT PIPELINE
Transfers water by night to fill upperdam reservoir

HYDROLOOP SYSTEM
Multi-pipeline network replaces high voltage transmission lines. Carries water under pressure to generate electricity, provide water and enable clean transport.

POWER GENERATION HUBS
Electricity is generated at the exit of the pipe using high head pressure. Power, water and clean transport are delivered to the Line and beyond.

GREENHOUSE SKYSCRAPERS
Modular greenhouses on every level.
Use electricity and water to multiply trees, fruits and vegetables for exports.



GEOTHERMAL PLANT
Dam water is injected deep underground. Pressure increase enhances descent speed, boosting electricity generation and clean transport.

SOLAR-POWERED CONTAINIZED GREENHOUSES
Stacked, modular and mobile.
Solar panels on top.
1 of 10 containers is a water storage unit for the destination.



Efficient transport by sea, rail and road. Providing water and green products across ASEAN and MENA regions.

CLEAN TRANSPORT
High-pressure Hydroloop enables ultra-fast pods inside the pipe network within the Line.



HIGH PRESSURE INJECTION

GEOTHERMAL LAYER
(Heat Reservoir)

WATER FOR LIFE – FROM LAO PDR TO MENA
Clean water stored in containers and shipped to support water security in MENA regions.



CLEAN ENERGY
High head hydro power from Hydroloop System

WATER SECURITY
Reliable water distribution across regions

CLEAN TRANSPORT
Zero emission pods and logistics

FOOD & GREEN EXPORTS
Trees, fruits, vegetables for global markets

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#UGDMN INTEGRATED GREEN LOGISTICS CORRIDOR

TYPE I CIVILISATION PROTOTYPE | FOOD SECURITY | PLANETARY RESTORATION | OFF-GRID SURVIVAL

H_2O ENTHALPY PALETTE

Food Energy Water

WFS

VERTICAL LIVING LOGISTICS
40ft ISO modular greenhouses stacked 2–3 high for structural integrity and robotic access.

MULTI-MODAL ARTERIAL HUB
4-lane logistics artery with gantry crane for seamless land–sea container operations.

LIVING FOOD CHAIN
Plants, fish and vegetables integrated in a closed-loop high-nutrient ecosystem.

OFF-GRID SURVIVAL SYSTEMS
Solar power, Hydroloop™ water and nutrient systems ensure 24/7 resilience.



SURVIVAL TECHNOLOGY INTEGRATION

PHOTOVOLTAIC POWER
100% solar coverage on all top-level modules generates clean energy for continuous operations.

HYDROLOOP™ WATER CYCLE
Captures, purifies and mineralises water for plant, fish and human consumption.

AQUAPONICS SYSTEMS
Diverse fish species convert organic waste into nutrients, supporting the entire food chain.

AUTONOMOUS OPERATIONS
Maintenance drones and AGVs handle inspections, cleaning and logistics for maximum efficiency.

OFF-GRID 100% RENEWABLE | **WATER POSITIVE** ZERO WASTE | **FOOD INDEPENDENT** CLOSED-LOOP ECOSYSTEM | **BUILT TO ENDURE** DESERT-PROOF | DISASTER-RESISTANT

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UGDMN ENERGY WES

At a Glance

#UGDMN Energy directs hydrocarbon flows to power #UGDMN implementation across food, energy, water, and space systems. Focused on crude oil and refined streams, we secure, allocate, and deploy supply where infrastructure buildout and system integration demand it most.

We request system leaders to align with refineries, suppliers, logistics, and traders to channel hydrocarbons into construction, transport, and energy modules that scale #UGDMN rapidly across regions.

Fuel #UGDMN deployment with targeted hydrocarbon supply, integrated execution, and precise operational control.

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ArkNuke™ WES

Fast-Fission High-Assay Low-Enriched Uranium (HALEU) Powered Mobile Nuclear Reactor

More: totrade.co/w33a

Latent ↑ System



TOTRADE™
FEWS SYSTEM
Food•Energy•Water•Space

- **Inherently safe:** #**UGDMN** universal all-risks maximum Safety standard
- **No refueling:** Provides clean power electricity for up to 20 years
- **Versatile:** Off-Grid: Remote #**UGDMN** site deployment, data centers, Off-Planet infrastructure
- **Plug-and-play:** Fast #**UGDMN** deployment: ModuHaven™, EcoArk™, ResiGrow™, GreenVault™, ArkPort™, Ark2036™, GaiaGrid™, DesertGrow™, SuperLine™, Hydroloop™, HydroSpace™, OrbitalLoop™, ...

Ready for the next **Abrupt Threshold** and rapid world reconstruction and real Space Program.

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Integrated Global Logistics Hub

ArkPort™

ArkPort™ will serve as a hybrid infrastructure combining airport, seaport, dryport, and arkport capabilities. It supports seamless global connectivity across:

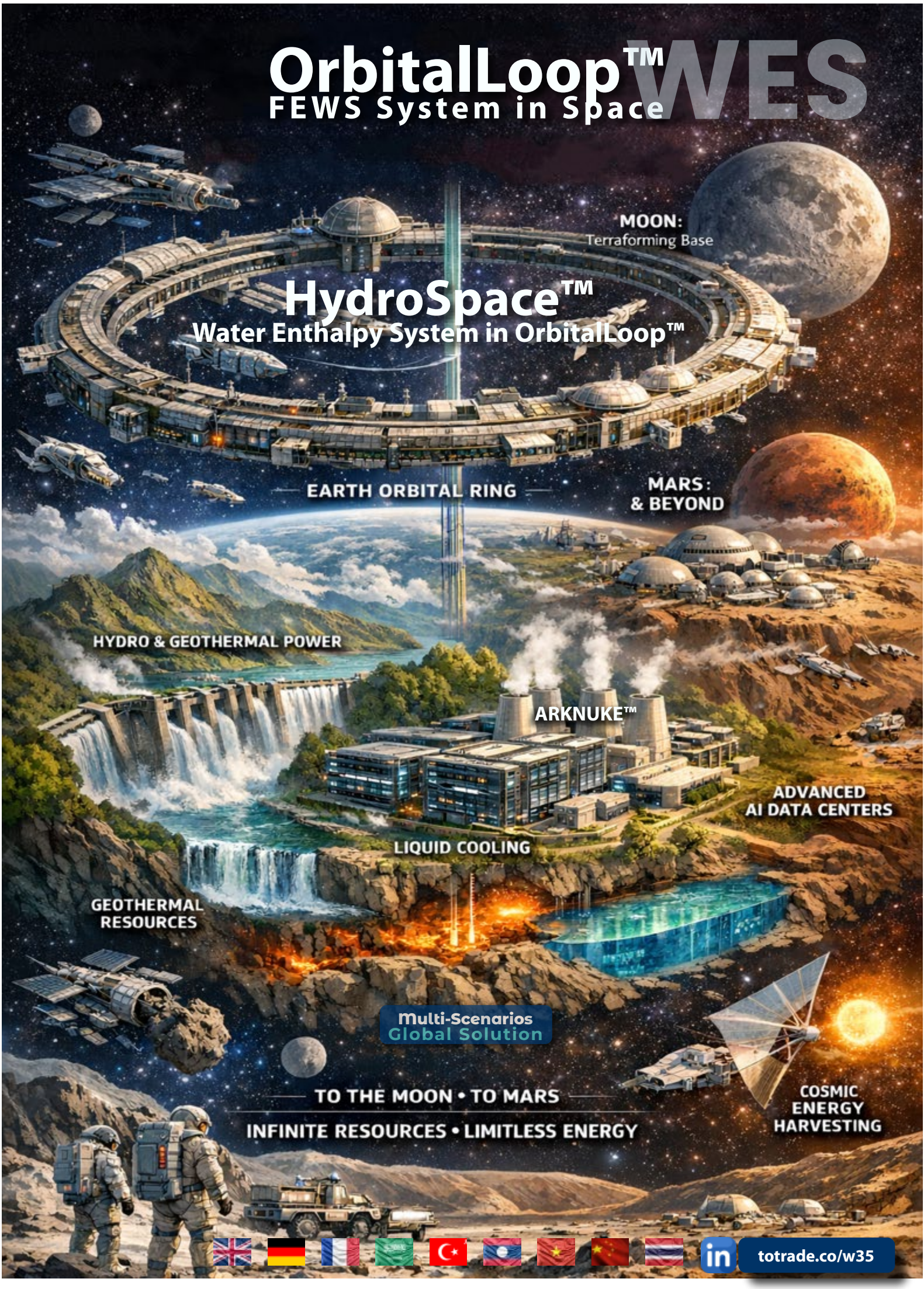
- Airplanes (cargo and passenger)
- Railways including High-speed trains
- Ships and floating logistics
- Waterways logistics
- Modular arks, climate-resilient transport and shelter
- Spaceport for cheap and low cost Space Exploration

Unlike traditional airports, ArkPort™ includes docking systems for disaster-resilient arks. These arks carry food, water, shelter, and medical systems, enabling rapid deployment during emergencies or climate events.

TOTRADE™
FEWS SYSTEM
Food•Energy•Water•Space

Multi-Scenarios
Global Solution

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OrbitalLoop™
FEWS System in Space
WES
MOON:
Terraforming Base
HydroSpace™
Water Enthalpy System in OrbitalLoop™
EARTH ORBITAL RING
MARS:
& BEYOND
HYDRO & GEOTHERMAL POWER
ARKNUKE™
ADVANCED
AI DATA CENTERS
LIQUID COOLING
GEOTHERMAL
RESOURCES
Multi-Scenarios
Global Solution
TO THE MOON • TO MARS
INFINITE RESOURCES • LIMITLESS ENERGY
COSMIC
ENERGY
HARVESTING
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IST™
International Space Tower
WES
100 km
Karman Line –
coldness reservoir
Multi-Scenarios
Global Solution
Tropopause –
maximum heat exchange zone
~16–17 km
International & Corporate Bases
10 km
Tyranny of the Tsiolkovsky rocket equation solved
Himalayan plateau
IST™ - Africa
China
Lao plateau
IST™ - China
IST™ - South Asia
Silver Iodide Cloud Seeding
IST™ - ASEAN
Tapered Tower 0–100 km
Heat Exchange and Power Generation
IST™ - Australia
Laos: Atmospheric Water Hub
Hydroloop Transport System
Atmospheric Water Collection Reservoir
Cold water export
Freshwater pipeline
Renewable electricity grid
MENA corridor — greened multi-layer forests imported from Laos
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LAOS:
THE MULTI-PLANETARY SOLUTION HUB
ENGINEERING THE FUTURE OF A TYPE I CIVILIZATION
#UGDMN
ONE SYSTEM AGAINST ALL RISKS.
ALWAYS USEFUL, REGARDLESS OF RISK.
IOS™
International Orbital Station
WFS
#UGDMN
GLOBAL RESILIENCE AXIS
SCARCITY TO ABUNDANCE
FRAGILITY TO RESILIENCE
LOCAL THINKING TO PLANETARY ACTION
SURVIVAL TO TRANSCENDENCE
Earth-Moon-Mars Rapid Transport System
Gateway for All Nations
100 km Above Earth
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IST™
International Space Tower
• Rising 100 km from the Lao Plateau
• Built with Local Materials & Desert-Sand Scaffolding
ArkPort™
Multi-Modal Logistics Hub
• Off-Rocket Phase-Change Systems Replace Costly Rocket Propulsion
• Containerized FEWS Units (Food, Energy, Water, Space)
• High-Value Bioassets Transport from Mekong Basin
Lao plateau
Hydroloop™
Integrated Water Networks
• Climate Control
• Water Transport
• Agriculture · Industry · Energy
Planetary Enthalpy Field
GaiaGrid™ Domes & Reforestation Zones
• Climate Regulation
• Rainfall Enhancement
• Biodiversity Restoration
Water Sovereignty
Pure Water from Lake Anouvong Powers the MENA-Laos Corridor Recharging Arid Regions
CHINA
LAOS
VIENTIANE
VIETNAM
MYANMAR
THAILAND
CAMBODIA
ArkNuke™
Mobile Fast-Fission Reactors
• 24/7 Stable Power
• Zero Emission
• High Energy Density
• Secure
The Rice Silk Road
• High-Speed Rail & Maglev Connecting Asia to the World
• FEWS Units & High-Value Bioassets in Every Direction
GeoLoop™
Deep Geothermal Energy
• Baseload Power
• Always On
• Sustainable · Scalable
Deep-Water AI Data Centers
Submerged & Shielded
• AI · Knowledge Continuity
• Through Any Cataclysm
GULF OF THAILAND
#UGDMN
A UNIFIED SYSTEM FOR A MULTI-PLANETARY FUTURE
HYDROLOOP™
Water · Climate · Life
ARKPORT™
Logistics · Mobility · Integration
IST™
Access · Beyond · Forever
FEWS SECURITY
Food · Energy · Water · Space
Security for All
ONE PLANET · ONE SYSTEM · ONE HUMANITY
SCARCITY TO ABUNDANCE
RESILIENCE TO TRANSCENDENCE
Climate Stabilisation
Infinite Resources
Planet Restoration
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IOS Moon™
International Orbital Station-Moon
WES
~50 km
altitude
Multi-Scenarios
Global Solution
Tyranny of the Tsiolkovsky rocket equation solved
IOS Moon™ Robot-built. Human-ready.
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Payment System Fit as #UGDMN Financing System Mechanism Facilitating it Rapid Deployment

ZED PAY White Label: totrade.co/zp

Funding Partners

Government · Donors · Investors

Funds & Capital

UGDMN Platform

Unified Payment Gateway

Digital Wallets & Mobile Payments

Fast Transactions

Banking & e-Money Channels

Secure Transfers

Rapid Deployment of Infrastructure & Services

Local Suppliers

Quick Procurement

Service Providers

Project Implementation

End Users & Communities

Access to Services

Monitoring & Reporting

Effective Oversight

Multi-Scenarios Global Solution

Summary: totrade.co/zpa

totrade.co/w39

Expanded Settlement Framework

WES

From BRICS Unit to Off-Planet Capacity Trade System

BRICS UNIT SYSTEM



40% GOLD LOCK





LIMITS OF GOLD COLLATERAL



TOTRADE SETTLEMENT UNIT





CATACLYSM RESILIENCE INDEX



GLOBAL SETTLEMENT ARCHITECTURE

Multi-Scenarios
Global Solution



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A Unified Platform for a Type I Civilization

Building Autonomy, Sustainability & Resilience for a Better Future



Automated Farming Systems



Integrated Utilities

totrade.co/o

A Platform for Unified Agreements



Factory Automation

Coordinating Food | Water
Energy | Housing | Finance



Ecological Restoration



Modular Intrastructure Fast, Economical
Less waste, continuous Upgrade



Space Exploration

Multi-Scenarios
Global Solution



Limitless Power/Resources

Accelerating the Transition to a Space Age Economy

A Rising Company for a Resilient Civilization





Equity Participation for Early Supporters

Investors Can Secure Equity Ownership in a Dubai-Based Company of Rising Value

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Upgrading Settlement Framework

Totrade Tokenization Model

WES

Multi-Scenarios
Global Solution

REAL ASSETS

LAND · HOUSING · FARMS · WATER

ENERGY · FACTORY · WAREHOUSE · MEDICAL HUB

- Registration
- Deeds
- Audited Valuation

HIGH STREET

TOKEN MARKET

SECONDARY MARKET

TOTRADE TOKENS

TOKEN MARKET

BUY · SELL · TRADE

TOTRADE

ASSET TOKENS

POWER · LOGISTICS · FARMS

INCOME PRODUCING

SETTLEMENT TOKENS

DIVERSIFIED BACKING

ASSET TOKENS

LEGAL COLLATERAL

ENERGY · LOGISTICS · FARMS

SETTLEMENT TOKENS

DIVERSIFIED BACKING

RESOURCES · REAL ASSETS · SHELTERS

RESOURCES · REAL ASSETS · RESILIENCE SYSTEMS

LOW ENTRY | SECURE RECORDS | STRATEGIC FUNDING

totrade.co/w42

#UGDMN To Vietnam
Expanding to Qatar

Multi-Scenarios
Global Solution



Freshwater Source

The **Hydroloop™ System**, totrade.co/lao, supplies renewable freshwater via a pressurized pipeline to a Vietnamese deep-sea terminal which will expand across Vietnam.

Loading & Transport

Tankers that discharge crude or LNG in East Asia dock at **#UGDMN** port on the return leg. There, they're decontaminated and loaded with **nutrient-rich freshwater**.

Receiving & Distribution

Totrade Group constructs **Hydroloop™ System** intake hubs at Qatar, implement **#UGDMN**, **spec:** totrade.co/pdf, for Qatar.

Financial Model (Indicative)

- Freshwater Export Price: $0.25.m³
- Delivered Cost (Qatar), negociable: $0.35/m³
- **Benchmarks:**
  - Desalination: $0.80 to $1.50/m³
  - Nutrients: $0.10 to $0.20/m³
  - **TOTAL: ~$0.90 to $1.70/m³**
- Extra Tankers revenue: **$150 million/year**

Nutrient Profile of Lao Rainwater

- Rainwater in Laos carries natural nitrate ions (NO_3^-) and trace minerals from forest canopy and soil runoff.
- Ideal for agroforestry due to balanced pH, low salinity, and organic nutrient content.
- Farmers in Laos report 30–40% higher rice yields using rain-fed systems.

Tankers revenue calculation for a VLCC (Very Large Crude Carrier) returning to Qatar with freshwater instead of empty:

Baseline

- VLCC capacity: ~300,000 m³
- UGDMN export price: $0.25/m³

Revenue per voyage

- 300,000 m³ × $0.25 = $75,000

Annual revenue (20 voyages)

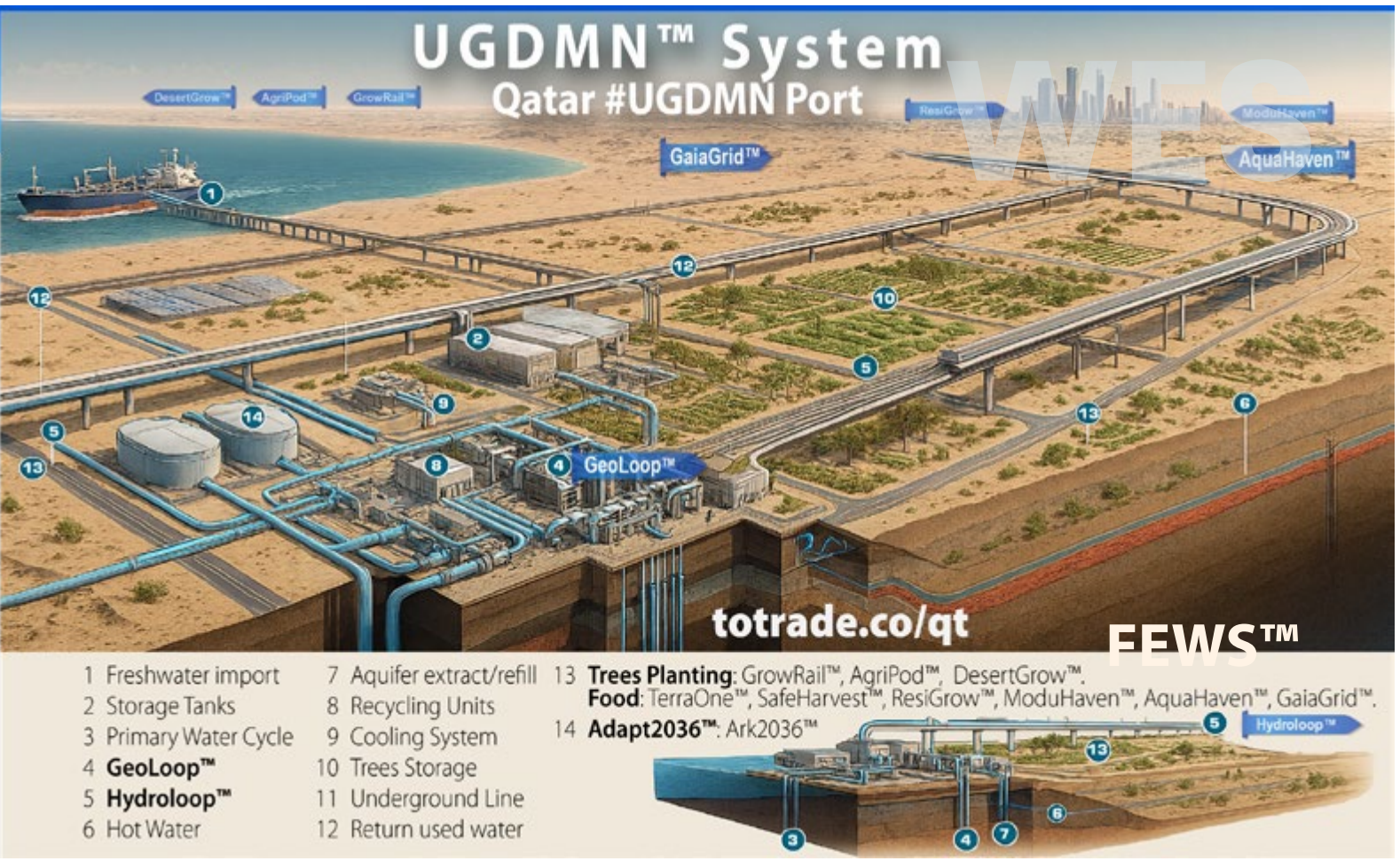
- $75,000 × 20 = $1.5 million

Fleet potential

- 100 VLCCs/year = $150 million/year.

This turns a zero-revenue return leg into profit.

totrade.co/w43



Food-Energy-Water Security (FEWS)

The MENA Qatari #UGDMN System is a strategic FEWS infrastructure designed for continuity beyond Cataclysm.

It begins by importing freshwater from Laos, transported via high-capacity tankers to Qatar's dedicated intake hubs. This initial supply ensures rapid system activation and **storage** in insulated **reservoirs**.

Once operational, the system transitions to tapping the Primary Water Cycle (PWC) through Hydroloop™ GeoLoop™ technology.

Used water from distribution networks is reinjected into deep geothermal zones. This process creates pressure, drives hydroturbines for electricity generation, and, after cooling, returns as clean water. The cycle repeats continuously, delivering a 24/7 supply of water and renewable energy.

The Hydroloop™ network integrates three core functions:

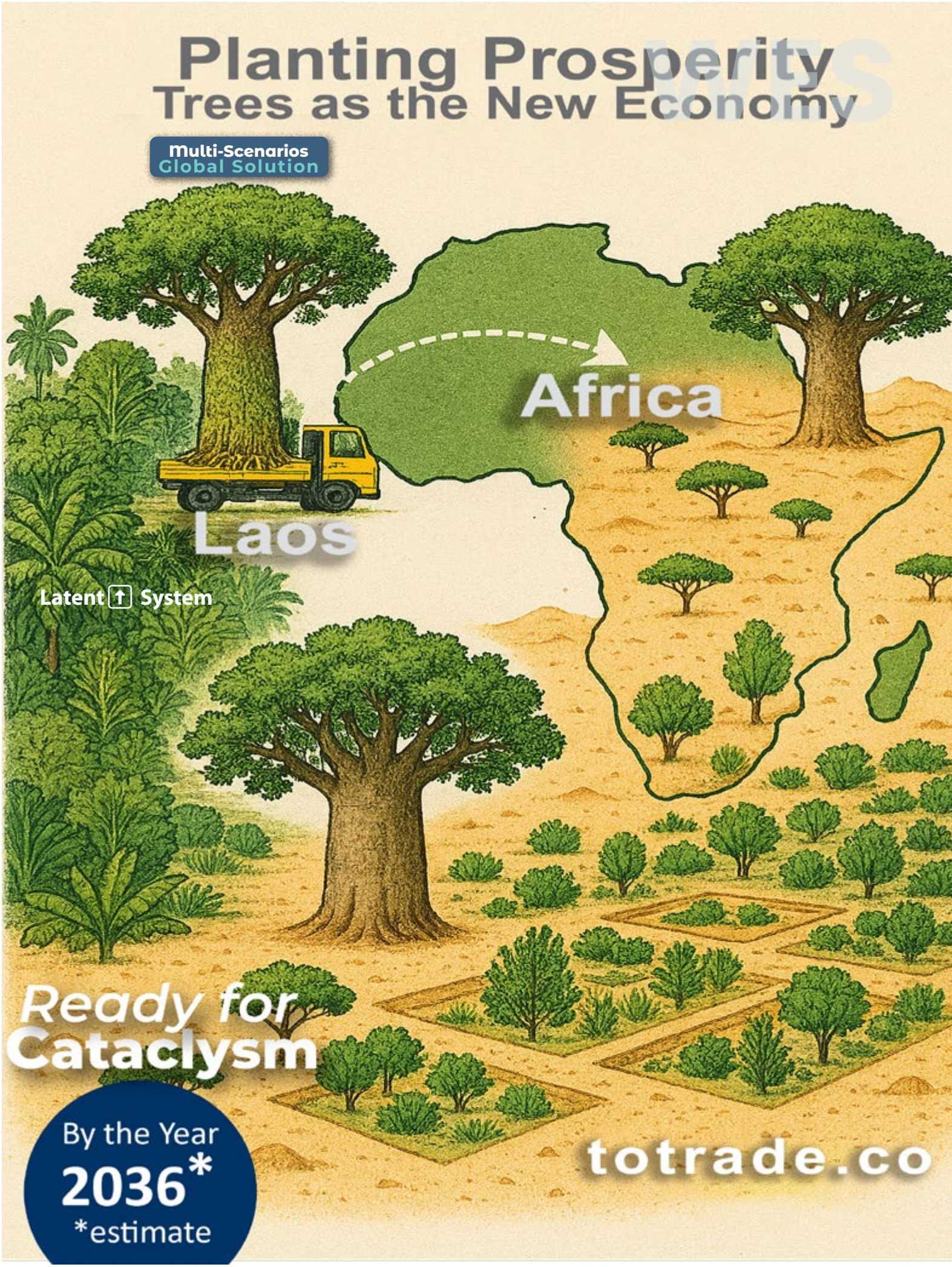
- Food Energy, and Water Security (FEWS): Continuous and Circular FEWS-Tree Surplus for cities, nations, and space programs.
- Climate and Environmental Resilience: Supports desert greening, reforestation, aquifer recharge, and river restoration on Earth and beyond.
- Clean Transport: Hydroloop™ Transport on Earth and beyond.

Multi-Scenarios Global Solution

totrade.co/w44

Planting Prosperity
Trees as the New Economy

Multi-Scenarios
Global Solution



totrade.co/w45



Trillions Trees Growing in the Middle East & Africa

#UGDMN™ introduces a **large-scale tree-growing** initiative in Laos **for the Middle East and Africa**, powered by advanced systems designed for climate resilience and biodiversity restoration. Laos will serve as the source of diverse rainforest species—including understory, canopy, and emergent layer trees—along with exotic Southeast Asian fruit species. These trees will be transported and adapted safely through the **#UGDMN™** System, which integrates four key components:

- **GaiaGrid™**: Rainforest domes that acclimatize and progressively adapt trees to new conditions while ensuring readiness for rapid safeguard against cataclysmic events.
- **GrowRail™**: A climate-controlled rail transport system that maintains optimal temperature, humidity, and light during long-distance land transit.
- **AgriPod™**: Mobile, self-contained pods equipped with advanced control of humidity, light, and temperature, enabling safe transfer from rainforest to arid environments.
- **DesertGrow™**: A per-species protection framework replicating Southeast Asian rainforest microclimates in desert regions, ensuring long-term growth and resilience.

This system enables **MENA nations to green vast desert areas, restore biodiversity, secure new food and water sources**, and generate sustainable livelihoods.

By linking Southeast Asia's rich biodiversity with Africa and the Middle East, #UGDMN™ establishes a scalable pathway toward planetary climate stabilization.

Reference: totrade.co/pdf

totrade.co/w46

Cataclysm Preparedness
Rapid & Scalable Green Recovery for MENA

WES

Multi-Scenarios Global Solution



Innovative Climate Solutions for Post-Cataclysm

1. HydroChill™ – Water-Cooled AC for Warehouse Climate Control. **HydroChill™** uses water-based cooling to efficiently regulate temperatures in large facilities, reducing energy consumption and enhancing indoor climate stability.

2. LightGrow™ – 24/7 Light Energy
LightGrow™ provides continuous, spectrum-optimized lighting to support plant growth around the clock.

3. Smart AI Dashboards
Real-time monitoring of **DesertGrow™** temperature, energy and nutrients usage, and plants status ensures transparency, efficiency, and rapid response across logistics and plants growing stages.

Post-Cataclysm Ready
DesertGrow™ is a revolutionary approach that transforms arid landscapes with rapid redeployment using the **Hydroloop™** System, **Adapt2036™**.

Efficient Water Delivery
Delivered via Laos–MENA tankers to intake hubs. From there, cooled water circulates through insulated underground pipes to hydrate plants efficiently, reduce evaporation, and enhance plant performance.

MENA Resilience with Ark2036™

GrowGrid™: Portable Food Forests
High-yield, high-value food crops-trees, minimal soil using pots on secure, palletized platforms, for storage, transport, and rapid deployment.

GrowRail™: Prefab Railgreenhouses
Prefabricated at scale in Laos, designed for rapid plant protection and deployment, ensure:
- Transport by rail across ASEAN to MENA
- Seamless loading onto **Ark2036™**

Strategic Investment for MENA
Commercial gateway to resilient ecosystems and post-cataclysm growth.
- Restore the Green Belt rapidly across MENA
- Own high-value biological assets (seeds, plants, nutrient blends)
- Profit from sustainability-linked exports from MENA after disruption
- Secure food, medicine, and biodiversity reserves globally and beyond.

Ark2036™ and ToTrade **Adapt2036™** form the backbone of a future-ready green economy, engineered for survival, designed for prosperity.

totrade.co/w47

Solar System Restoration Command (SSRC)

Planetary Cleanup and Asteroid Defense

All Trash
→ Solar Incineration

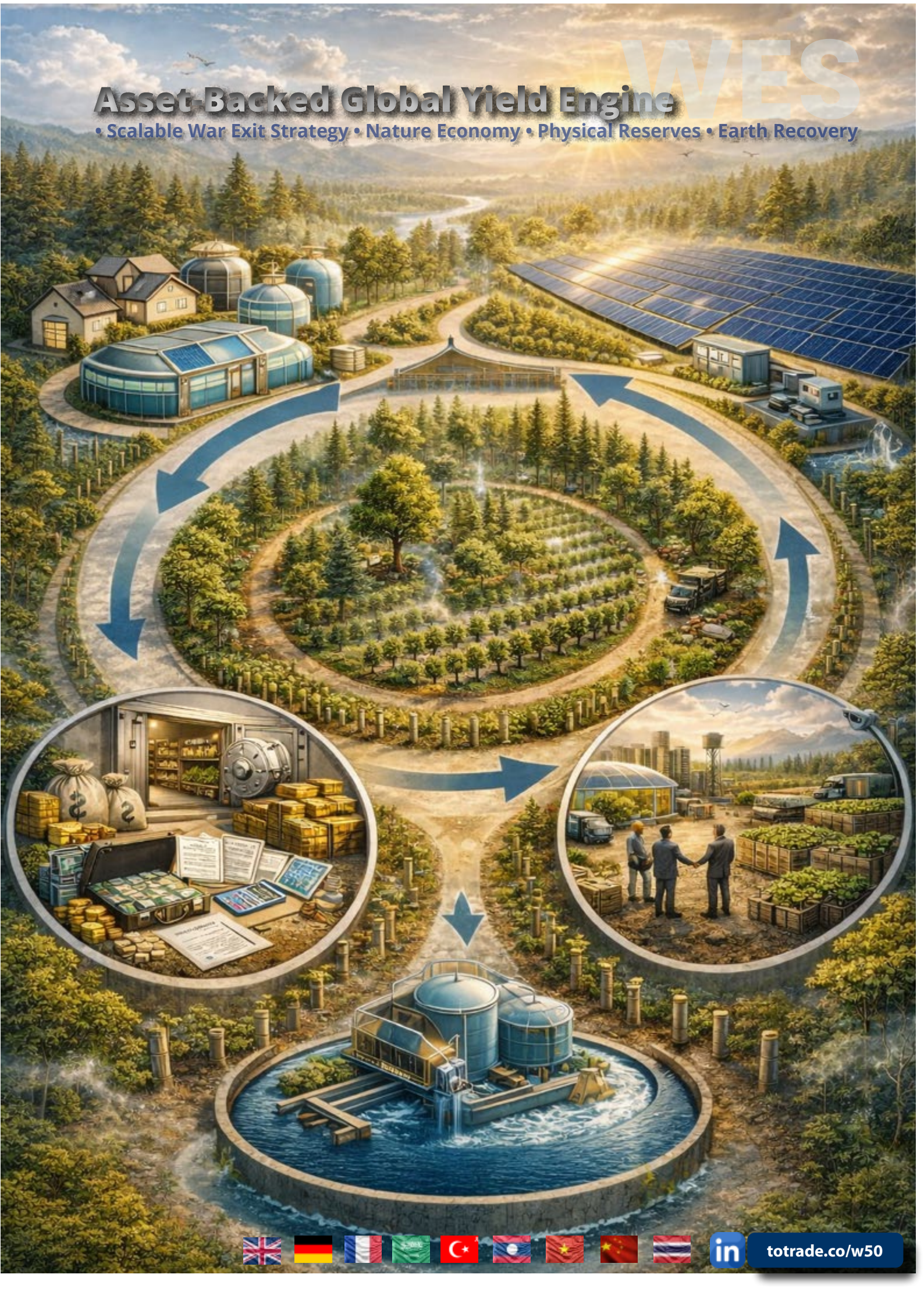
Space Debris
→ Solar Incineration



Without action, our solar system becomes a waste system we refuse to accept.

totrade.co/w48


WES
Protected Plateau Infrastructure in Laos
Cataclysm Shield: Eastern Barrier System
Laos
Thailand
totrade.co/w49


WES
Asset-Backed Global Yield Engine
• Scalable War Exit Strategy • Nature Economy • Physical Reserves • Earth Recovery
totrade.co/w50

Annex 1
totrade.co/ax1

WAR EXIT STRATEGY – FEWS CORRIDORS

WATER AXIS • ENERGY & WATER SPINE (HYDROLOOP) • FOOD BASIN NETWORK • SPACE MONITORING GRID

From Conflict to Cooperation. From Scarcity to Shared Abundance. From Reaction to Resilience.

FEWS
FRAMEWORK FOR EARTH'S WATER, ENERGY & FOOD SECURITY

WES

COLLECT — Typhoons Captured over Indian & Pacific Oceans
→ **CAPTURE** — Atmospheric Water Harvesting in Laos Mountain & Basin Systems
→ **STORE** — Smart Reservoirs & Underground Aquifer Recharge
→ **MOVE & POWER** — HYDROLOOP SYSTEM Energy + Water Spine Transnational Distribution
→ **DISTRIBUTE** — Water for People, Food, Ecosystems & Industry
→ **THRIVE** — Resilient Nations, Prosperous Future

BENEFITS FOR ALL PARTICIPATING NATIONS
- Peace Dividend
- Resource Security
- Climate Resilience
- Industrial Renewal
- Shared Prosperity

1 WATER AXIS
From Typhoon to Tap

- Typhoons captured in the Western Pacific & Indian Oceans
- Atmospheric rivers directed to Laos highlands
- Hydro storage & aquifer recharge
- Clean water distributed across Asia via Hydroloop corridors



2 HYDROLOOP SYSTEM
Energy & Water Spine

- Transnational closed-loop system of water & energy
- Hydropower, pumped storage & gravity flow
- Powers cities, industries, farms & data centers
- Built on shared infrastructure for shared future

HYDROPOWER & PUMPED STORAGE · SOLAR & WIND INTEGRATION · DESALINATION & TREATMENT · INDUSTRIAL & URBAN SUPPLY · SMART GRID DISTRIBUTION · ENERGY SECURITY FOR ALL

3 FOOD BASIN NETWORK
Feeding a Stable Future

- River basin rehabilitation & sediment management
- Climate-smart agriculture across regions
- Fisheries & aquaculture restoration
- Food corridors for nutritional security



4 SPACE MONITORING GRID
Seeing the Planet, Serving the People

- Satellite constellation for water, weather, climate, land & crops
- Real-time disaster early warning (FEWS)
- Data for decisions, not just information
- Data [illegible] not just information
- Open data for all participating nations

SPACE & DATA CAPABILITIES

WEATHER & TYPHOON TRACKING · WATER STORAGE MONITORING · AGRICULTURE & CROP HEALTH · DISASTER EARLY WARNING · INFRASTRUCTURE MONITORING · COMMUNICATION & CONNECTIVITY

5 BENEFITS FOR PARTICIPATING NATIONS

US	From war to peace, pay its debts, clean its bombs...
IRAN	Peaceful development with its neighbors
UAE	Improve FEWS, expand and green regional hubs
EUROPE	Enhence FEWS, global player in tech
INDIA	FEWS connectivity, big consumers
LAOS	FEWS Models, Space Access AI, IST, IOS...
VIETNAM	FEWS Ports, AI, Pacific Access.
CHINA	Belt and Road, AI, Tech, Construction...
SINGAPORE	FEWS Financial Hub, Sea Logistics
AUSTRALIA	FEWS Minerals supply, land regeneration
THAILAND	Indian Ocean access, trees stocks
SOUTH KOREA	AI, ship-building, hub tech, space
JAPAN	FEWS Tech, AI, Space, ship and building construction...
OTHER ASEAN NATIONS	FEWS Tech, AI, Space, Continuity Resilience
UK	FEWS Tech, AI, Space, ship and building construction...
RUSSIA	Energy, FEWS Tech, AI, Space, ...
CANADA	Energy, FEWS Tech, AI, Space, ...
TURKEY	MENA-Europe, Energy, FEWS Tech, AI, Space, ...
Other Nations	Trade, Collaboration, FEWS Tech, AI, Space, ...

PEACE DIVIDEND CONVERSION
From Military Spending to Human Security Infrastructure

INVEST IN FEWS INFRASTRUCTURE
WATER SYSTEMS · ENERGY SYSTEMS · FOOD SYSTEMS · SPACE & SYSTEMS · RESILIENCE SYSTEMS

OUR PLANET. OUR FUTURE. ONE SYSTEM. ONE HUMANITY.
FEWS CORRIDORS – ENGINEERED FOR PEACE, DESIGNED FOR GENERATIONS.

OUTCOMES FOR THE WORLD
- Reduced Conflict & Resource Competition
- Resilient Communities & Economies
- Climate Adaptation & Disaster Reduction
- Equitable Growth Across Nations
- A Sustainable Planet for Future Generations

WATER CONNECTS. ENERGY POWERS. FOOD SUSTAINS. SPACE GUIDES. COOPERATION PREVAILS.
Building the FEWS Corridors Today for a Peaceful, Resilient, and Prosperous Tomorrow.

totrade.co/w51

ANNEX 2

WAR EXIT STRATEGY & UNIVERSAL GALACTIC DISASTER MITIGATION NEXUS (UGDMN)

TRANSFORMING RISK INTO RESILIENCE. SPENDING INTO SUSTAINABLE WEALTH.

Corporations **shift from conflict expenditures** to high-growth, planetary-scale resilience systems that **secure resources, prosperity, and a sustainable future** for all.

- From Conflict Spending to Resilience Investment
- Scalable Systems for Planetary Security
- Resilient Economies. Stronger Corporations
- Aligned with UN Sustainable Development Goals
- Building a Safer, Wealthier, Multi-Planetary Future

FOOD SECTOR



1. **Scalable Automated Production**
   Robotic planting, grafting, and delivery of all-season, near-ripe fruits.
2. **Ecosystem Regeneration Wealth**
   Reforestation & desert greening (DesertGrow™ and GrowGrid™) enhance land values and create new arable zones.
3. **Strategic Resource Access**
   Freshwater from Lake Anouvong or VLCC return routes stabilizes agricultural output.
4. **Natural Fertilization Surges**
   GCR-induced lightning fixes atmospheric nitrogen into nitrates, boosting soil fertility and yields.

ENERGY SECTOR

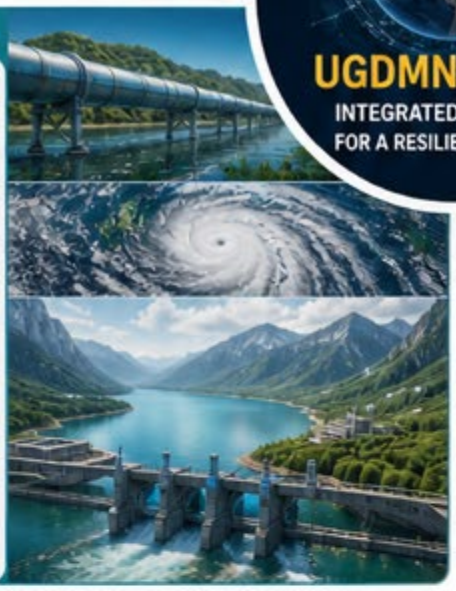


1. **ArkNuke™ Deployment**
   Mobile nuclear systems provide 20 years of continuous power without refueling; GCR-ready by design.
2. **GeoLoop™ Thermal Extraction**
   Extract deep-earth geothermal heat at moderate depths without wells or fluids.
3. **Cosmic Energy Integration**
   OrbitalLoop™ & IOS tower capture energy from GCRs and SEPs—advancing toward Type I Civilization.
4. **Planetary Enthalpy Management**
   The "6th Ocean" reservoir 700 km below the surface regulates planetary enthalpy at massive scale.

UGDMN FEWS

INTEGRATED SYSTEMS FOR A RESILIENT FUTURE

WATER SECTOR



1. **Hydroloop™ Network Spine**
   Geothermal-powered network moves vast volumes of freshwater across continents.
2. **Conversion of Crisis to Wealth**
   AI-optimized logistics capture floodwaters (e.g., typhoons), turning destructive events into renewable resource surges.
3. **Atmospheric & Subterranean Reservoirs**
   Lake Anouvong holds 600+ km³ of renewable, top-quality drinking water for billions.
4. **On-Site Power Generation**
   Hydroloop™ generates clean electricity at the destination via gravity-kinetic technology.

LIVING SPACE & SPACE PROGRAMS



1. **Disaster-Resistant Infrastructure**
   Resilient, modular, mobile designs survive supersonic winds, crustal shifts, and cataclysmic events.
2. **Investment in "Safer Societies"**
   Develop in geologically stable, high-elevation zones (500m+) for continuity and security.
3. **The Rocket Equation Solution**
   100 km IOS tower & OrbitalLoop™ link Earth, Moon, Mars—gateway to infinite resources and limitless energy.
4. **Managed Enthalpy Habitats**
   Spacecraft & habitats use managed enthalpy control to mimic natural planetary balances for long-term sustainability.

SERVICES SECTOR



1. **FINANCIAL SERVICES (ZED PAY)**
   Unified financing backbone for fast, secure transactions and rapid infrastructure deployment.



2. **INSURANCE & RISK MITIGATION**
   Pre & Post Cataclysm alliances act as a global insurance framework for business survival and long-term value addition.



3. **TOKENIZED REAL ASSET ECONOMY**
   Income-producing tokens backed by diversified real assets (FEWS systems) with low entry points.



4. **UNIFIED LOGISTICS (ArkPort™)**
   Single hub integrating airports, seaports, dryports, and spaceports for trans-continental & interplanetary supply chains.



5. **GOVERNANCE & UNSDG ALIGNMENT**
   Practical frameworks to achieve all United Nations Sustainable Development Goals, building trust through inclusive multilateralism.

UGDMN
Building a Resilient Planet.
Securing a Prosperous Future.

Food Security · Clean Energy · Water Security · Sustainable Cities · Responsible Consumption · Climate Action · Partnerships for the Goals

TOGETHER, WE BUILD A SAFER PLANET AND A LIMITLESS FUTURE.

totrade.co/w52

WAR EXIT STRATEGY

BENEFITS FOR THE PLANET

From Conflict to Cooperation • From Destruction to Regeneration
Building a Sustainable, Resilient & Prosperous Future for All

A PLANET-FIRST APPROACH TO PEACE, RECOVERY & RESILIENCE

- **End Destruction** — Stop war, save lives and protect ecosystems
- **Restore Balance** — Rebuild natural systems and ecological harmony
- **Unite Humanity** — Foster cooperation, equity and shared prosperity
- **Sustainable Future** — Ensure long-term stability, resource security and planetary resilience

Annex 3

FOR THE PLANET: LAND
totrade.co/bpl

- Regenerate soils and restore ecosystems
- Increase food security and biomass production
- Reforest and combat desertification
- Build resilient infrastructure and sustainable communities
- Protect biodiversity and natural habitats

FOR THE PLANET: AIR
totrade.co/bpa

- Clean the air we breathe
- Reduce pollution and harmful emissions
- Stabilize climate through natural cycles
- Enhance oxygen levels and atmospheric balance
- Protect the ozone layer and sky ecosystems



FOR THE PLANET: WATER
totrade.co/bpw

- Ensure clean and abundant freshwater for all
- Restore rivers, lakes, and natural water cycles
- Protect oceans and marine ecosystems
- Improve water quality and reduce contamination
- Build water resilience for future generations

FOR THE PLANET: SPACE
totrade.co/bps

- Protect Earth from cosmic threats
- Monitor and safeguard our planet
- Enable sustainable access to space resources
- Advance space technology for human benefit
- Ensure long-term survival and expansion of humanity

INTEGRATED BENEFITS FOR ALL LIFE ON EARTH

- **Healthier People** — Clean air, water, food and environments
- **Stronger Economies** — Sustainable growth, jobs and innovation
- **Social Harmony** — Peace, justice and equal opportunities
- **Energy Security** — Renewable, clean and reliable energy
- **Planetary Security** — Resilient systems for a stable future

OUR PATH FORWARD

1. **END WAR** — Stop the violence and destruction
2. **BUILD TRUST** — Foster dialogue and cooperation
3. **INVEST IN NATURE** — Restore ecosystems and natural capital
4. **EMPOWER PEOPLE** — Educate, uplift and support communities
5. **SUSTAIN THE FUTURE** — Build a legacy of peace and sustainability

TOGETHER, WE CAN HEAL OUR PLANET

Peace is the greatest investment.
Our planet is our only home.
Let's protect it—together.

CHOOSE PEACE. RESTORE THE PLANET. SECURE OUR FUTURE.

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Annex 4

100% ACCURATE

#UGDMN

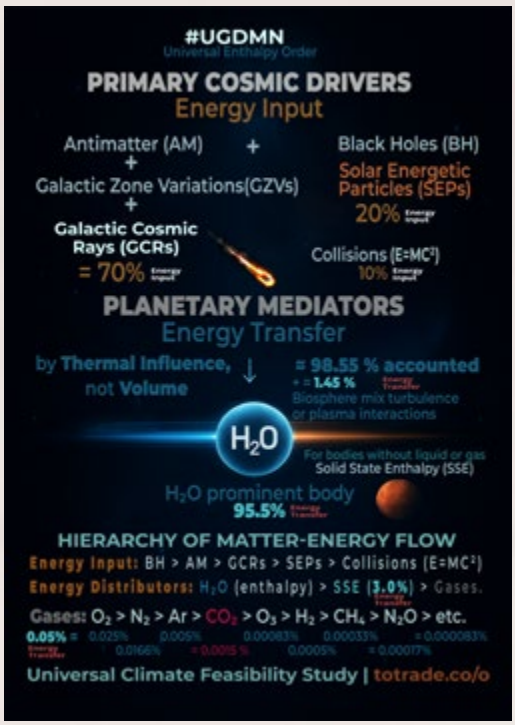
Universal Galactic Disaster Mitigation Nexus

SPACESHIPS · FOR ALL PLANETS & SPACESHIPS

Applicable to all planetary types, moons, stars, and artificial structures.

By The **Live-Life Man.**

For The World,
Owned By The World.



High Resolution

- Acrobat and
- InDesign Editable

→ totrade.co/hr

#UGDMN

- One system against all risks.
- Always useful, regardless of risk.
- Use physics, not narratives.

IDEAL FOR
Portrait Mode in Fullscreen

totrade.co/w54

ENHANCED MULTILATERALISM

WAR EXIT STRATEGY

From Conflict to Cooperation. From Scarcity to Abundance. From Survival to Civilization.



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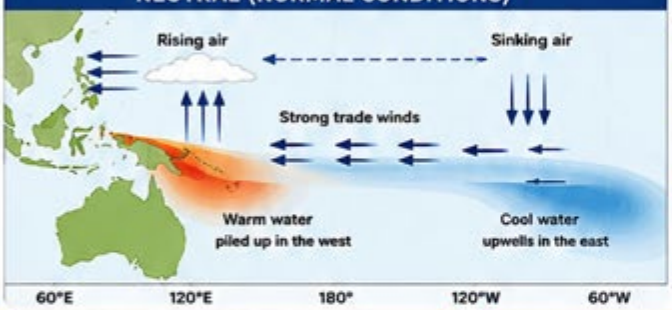
EL NIÑO IS NOT NEW. PREPARE, DON'T PANIC.

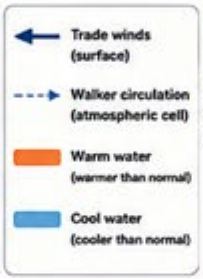
Recurring Ocean–Atmosphere Oscillation. Real Impacts. Rational Response.

- El Niño is a natural, recurring climate pattern that has occurred for centuries. **Updated.**
- Monsoon shifts, droughts, floods, cyclones, and heatwaves are part of Earth's normal variability.
- The solution is preparation, not fear.

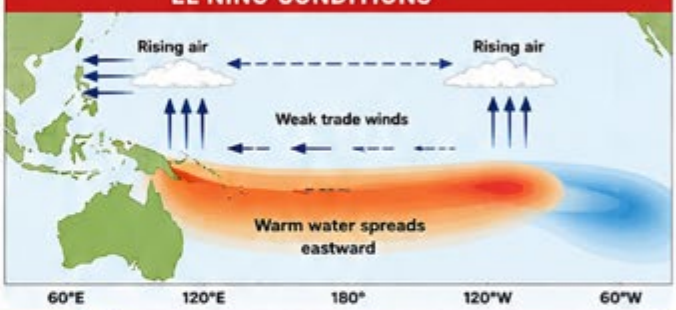
POLICY SIGNAL: Act before the season, not after the harvest fails. Decisions in April, not August.

NEUTRAL (NORMAL CONDITIONS)





EL NIÑO CONDITIONS



MENA – HIGH EXPOSURE



July 2023 heatwave:

- Algeria: 51°C
- Tunisia: 49°C
- Jordan: 46°C

North Africa has seen consecutive drought years with dam levels well below historical averages.

El Niño alters atmospheric circulation in ways that reduce precipitation across the region further.

These economies hold far less agricultural buffer than India.

INDIA – ACTIVE STRESS TEST



IMD forecasts only 800 mm of rainfall this season against a long-period average of 870 mm.

Probability of a deficient season: **35%**

(Historical norm: 16%)

This is not a projection.
This is an active stress test on food, water, and energy systems.

India has endured far larger monsoon failures in the past:

1877 1899 1918 1972 1987 2002

Water Storage | Irrigation Management | Grid Resilience | Crop Timing

SOUTHEAST ASIA – DIFFERENT EXPOSURE

NORTHERN ASEAN
April – July 2026

Above-normal rainfall likely

Flood risks are higher. River levels may rise. Landslide potential increases.

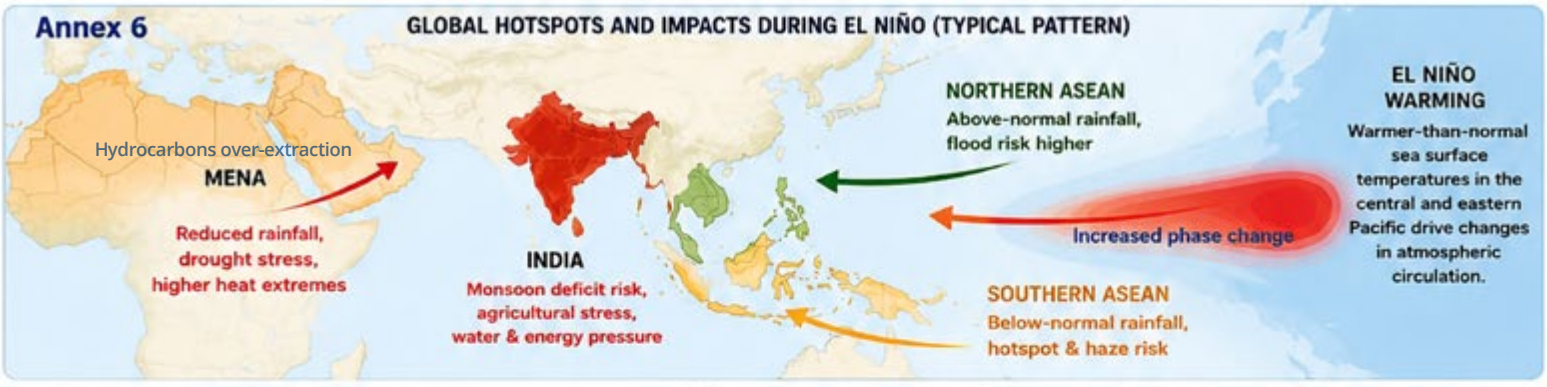
SOUTHERN ASEAN
May – July 2026

Below-normal rainfall likely

Hotspot & smoke haze risk rises as the dry season sets in before rain arrives, especially where El Niño intensifies.

ASEAN monsoon systems are structurally different from the South Asian monsoon. The Indian Ocean Walker Circulation drives India's deficit more directly.

Annex 6 — GLOBAL HOTSPOTS AND IMPACTS DURING EL NIÑO (TYPICAL PATTERN)



THE CLIMATE RECORD – CONTEXT MATTERS

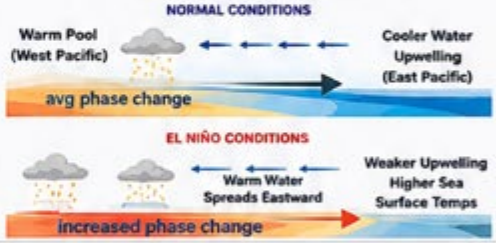
- Instrumental climate record begins around the mid-1800s. That covers roughly 0.0038% of Earth's climate history.
- That starting point sits near the end of the Little Ice Age recovery. A warmer baseline was already re-establishing itself. We are not reading a departure from stable conditions. We are reading the continuation of a long-cycle return toward Earth's default warm state — as documented across deep-time stratigraphy and paleoclimate proxies.
- El Niño does not cause that warming. It amplifies what the baseline already carries.



EL NIÑO AMPLIFIES, IT DOES NOT CREATE

- Redistributes oceanic heat across the Pacific.
- Alters atmospheric circulation and rainfall patterns.
- Works with existing ocean heat, water vapor, and cloud dynamics.
- Does not create planetary warming by itself.

SHORT-TERM MECHANISM (SIMPLIFIED)



THE CORRECT RESPONSE IS PREPARATION, NOT PANIC

Reservoir Management	Irrigation Expansion	Floodplain Zoning	Crop Diversification	Grid Hardening	Early-Season Logistics	Regional Water Coordination
Maintain and optimize storage before the season.	Improve efficiency and expand micro-irrigation.	Protect communities and reduce flood damage.	Reduce risk through varied and resilient crops.	Prepare energy systems for heat and demand stress.	Pre-position inputs, supplies, and relief resources.	Share data, manage rivers, and plan together.

FOOD, WATER, AND ENERGY RESILIENCE ARE BUILT BEFORE SEASONAL STRESS ARRIVES, NOT AFTER HEADLINES SPREAD FEAR.

totrade.co/w56

100 YEARS OF FAILED CLIMATE PREDICTIONS

A CENTURY OF ALARMS – A PATTERN OF FAILURE

WES

	PERIOD	PREDICTION / CLAIM	WHAT WAS PREDICTED	ACTUAL OUTCOME	WHY IT FAILED
1	1920–1940 Period Projections	Early climatology papers in Europe and North America discussed regional cooling trends linked to solar variability.	Continued regional to global cooling.	Observed alternating warming and cooling phases, no sustained global cooling trend.	Ignored natural climate variability and relied on incomplete data and short time records.
2	1938 Warming Signal Extrapolation	A short-term temperature rise led to linear warming extrapolations in scientific notes and newspapers.	Continued steady warming for decades.	Mid-century cooling phase followed, breaking linear extension assumptions.	Linear extrapolation from a short-term trend ignored natural cycles.
3	1960–1970 Ice Accumulation Forecasts	Some geophysical reports highlighted expanding Arctic ice and suggested continued growth under prevailing ocean cycles.	Continued Arctic ice expansion.	Satellite records from 1979 onward show strong interannual variability, not monotonic ice expansion.	Overreliance on limited observations and misunderstanding of ocean-atmosphere interactions.
4	1970–1980 Global Cooling Narrative	Academic and media discussions included projected ice age onset linked to aerosol loading.	Global cooling and possible ice age onset.	Subsequent decades showed net warming trend, removing sustained cooling signal.	Aerosol forcing effects were overestimated and natural variability was misrepresented.
5	1980–2000 Sea Level Acceleration Timing	Early model runs suggested rapid acceleration within late 20th century.	Sharp acceleration in sea level rise.	Tide gauge and satellite data show steady rise without abrupt step-change behavior.	Climate models had poor representation of ice sheet dynamics and ocean processes.
6	1990–2005 Hurricane Frequency Projections	Some forecasts indicated consistent upward trend in storm counts.	Consistent increase in hurricane frequency.	Observations show high variability driven by ENSO and multidecadal ocean cycles.	High natural variability overshadows any long-term trend in storm counts.
7	2000–2015 Arctic Ice-Free Summer Timing	Several projections placed near-complete summer ice loss within this interval.	Ice-free Arctic summers by 2015.	Minimum extent decreased, but full seasonal disappearance did not occur.	Models overestimated decline rate; ignored regional and seasonal dynamics.
8	2007–2035 Himalayan Glacier Timing Claim	Widely cited projection stated near-total glacier loss by 2035.	Near-total glacier loss by 2035.	Field measurements show strong regional heterogeneity and slower retreat rates.	Exaggerated melting rates; ignored local climatic and geological factors.
9	2010–2025 Drought Expansion Projections	Models suggested uniform intensification across subtropical zones.	Widespread and uniform drought intensification.	Observations show strong regional divergence linked to ocean-atmosphere coupling.	Overgeneralization of regional climate responses and feedbacks.
10	2025–2050 Rapid Tipping Point Timing	Some scenarios placed near-term cascade transitions in multiple systems.	Imminent tipping points across systems.	Recorded behavior shows gradual shifts, not synchronized, but with abrupt global thresholds. totrade.co/w19	Misunderstood system resilience and complex nonlinear thresholds.

CROSS-CUTTING PATTERN

- Forecast errors concentrate in linear extrapolation from short observational windows.
- Ocean oscillations, solar modulation, and volcanic forcing introduce multi-decade variance.
- System response shows phase shifts instead of monotonic trajectories.

FAILED PREDICTION
ACTUAL VARIABLE OUTCOME
TRUE LONG-TERM TREND: WARMING

EARTH RUNS IN A WARM STATE BY DESIGN

99.94%

Earth's climate system is naturally designed to operate in a warm state. Only a tiny fraction (0.06%) represents brief, temporary cool periods in deep time.

THE SCIENCE IS CLEAR:
Warmth is the norm. Catastrophic cooling is the exception.



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WATER VAPOR • ENERGY • SYSTEMS

THE RADIATIVE CONNECTION BETWEEN SOUTHEAST ASIA AND MENA

WATER VAPOR IS THE SWITCH BETWEEN TWO THERMAL REGIMES

SOUTHEAST ASIA — THE VAPOR BLANKET

Humid air rich in H_2O vapor.
Water vapor absorbs outgoing IR and re-emits in all directions.

IR RE-EMITTED DOWNWARD

IR TO SPACE (REDUCED)

Heat circulates vertically.
Nights stay warm and sticky.

HIGH HUMIDITY • HIGH BACK-RADIATION
LOW RADIATIVE LOSS • HIGH ENTHALPY

SPACE — THE FINAL SINK

Space receives no heat by conduction or convection.
Every object cools by emitting longwave infrared (IR) radiation.
The cosmic microwave background sets the floor at ~2.7 K.

Annex 8

THE ULTIMATE ENERGY SINK
~2.7 K BACKGROUND

MENA — THE OPEN WINDOW

Dry air with very little H_2O vapor.
Atmosphere is nearly transparent to outgoing IR.

IR TO SPACE (UNOBSTRUCTED)

HEAT RADIATES STRAIGHT TO SPACE

Heat escapes rapidly after sunset.
Desert nights drop sharply.

LOW HUMIDITY • LOW BACK-RADIATION
HIGH RADIATIVE LOSS • LOW ENTHALPY

THE RADIATIVE FEEDBACK LOOP WE BUILD

STEP 1 — SURFACE WETTING

Cooled water delivered via Hydroloop™ evaporates slowly across the surface. Even a thin layer of vapor begins to absorb outgoing IR and re-emit a fraction back downward.

EVAPORATION ADDS VAPOR | BACK-RADIATION INCREASES | NIGHTTIME TEMPERATURE RISES



STEP 2 — CANOPY ESTABLISHMENT

Trees transpire continuously.
A mature canopy releases hundreds of liters of water vapor per day per hectare, building a permanent local vapor column.

TRANSPIRATION ADDS VAPOR | IR ABSORPTION INCREASES | LOCAL CLIMATE SHIFTS

THE WES FRAMEWORK — PHYSICAL SOLUTIONS FOR PLANETARY ENTHALPY BALANCE

1. THE HYDROLOOP™ WATER DELIVERY AT SCALE

- Cooled water delivered to arid lands
- Slow, controlled evaporation
- Builds local vapor column gradually
- Enables large-scale planting success

2. THE WATER EXPORT CORRIDOR LAOS TO MENA

- VLCC tankers return empty from Qatar
- Filled with freshwater from Mekong basin
- Existing logistics used at near-zero marginal transport cost
- Freshwater pipeline + renewable grid as one integrated system

3. GROWRAIL™ & GROWGRID™ FOREST TRANSPLANTATION

- Move living rainforests by rail (GrowRail™)
- Deploy DesertGrow™, GrowGrid™, and Ark2036™
- Rapid reforestation and ecosystem reconstruction

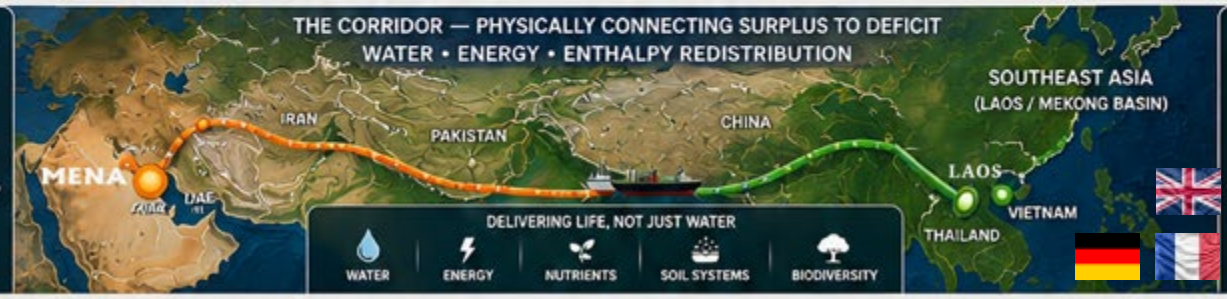
4. MENA UGDMN & FEWS NETWORK CONTINENTAL INTEGRATION

- Continuous FEWS cycle operation
- Cross-border water and energy grids (UAE, Iran, Saudi Arabia)
- Infrastructure replaces conflict pathways

THE CORRIDOR — PHYSICALLY CONNECTING SURPLUS TO DEFICIT

WATER • ENERGY • ENTHALPY REDISTRIBUTION

FRESHWATER SOURCING
RENEWABLE ENERGY
PIPELINE & GRID INTEGRATION



FRESHWATER SOURCING
RENEWABLE ENERGY
PIPELINE & GRID INTEGRATION

EXPECTED OUTCOMES

Higher Humidity & Cloud Formation | Stabilized Temperatures | Increased Rainfall & Soil Moisture | Thriving Ecosystems & Biodiversity | Food, Water & Energy Security

WATER IS THE CONNECTOR. ENTHALPY IS THE CURRENCY. LIFE IS THE RESULT.

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AI DATA CENTERS ARE OVERLOADING NORTH AMERICA'S POWER GRID





NERC ISSUED A LEVEL 3 ESSENTIAL ACTION ALERT

The most severe alert.
Targeting data center surges on an already stressed grid.

Annex 9

EL NIÑO EFFECTS ARE ARRIVING THIS SEASON

Higher temperatures. Higher cooling demand. Higher peak loads.

Cascading risk across three interconnected national grids.

THE RISK IS STRUCTURAL

AI infrastructure scales faster than grid capacity. → Heat drives cooling demand. → Cooling drives peak load. → Peak load during El Niño stress periods creates cascading failures.

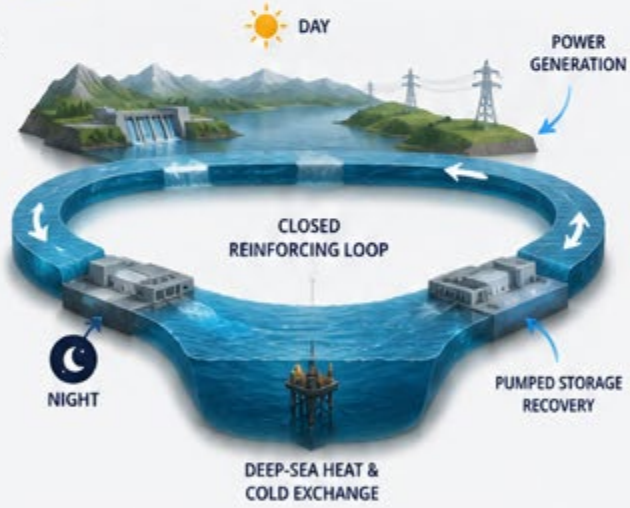
RELOCATION IS ENGINEERING LOGIC

- Laos offers year-round cool highland air for passive cooling.
- Surplus hydroelectric and geothermal baseload power.
- Water-energy system designed for 24/7 stability.
- Grid architecture purpose-built for high-density industrial loads.



THE HYDROLOOP™ ADVANTAGE

- Daytime electricity generation.
- Night-time pumped storage recovery.
- Deep-sea heat and cold exchange.
- Increased hydraulic throughput by morning.
- No high-voltage transmission vulnerability.
- No single-point grid failure.



WATER AND POWER DELIVERED IN A CLOSED LOOP ACROSS ASEAN, SOUTH ASIA, AND MENA

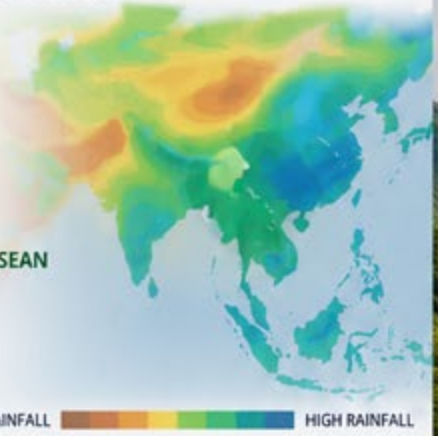
A resilient, integrated system built for continuous industrial performance.



A PERMANENT GEOGRAPHIC ADVANTAGE

SOUTHERN ASEAN, INDIA, AND MENA
experience stronger dry-period stress during El Niño cycles.

LAOS AND NORTHERN ASEAN
gain rainfall volume from regional monsoon redistribution.



BUILD WHERE THE ENERGY AND WATER ARE.

Learn more: **totrade.co/w56**

The Hydroloop™: **totrade.co/wes**

totrade.co/w59

ICE LOSS CLAIMS NEED CONTEXT, NOT ALARMISM

GLOBAL PERSPECTIVE & SATELLITE EVIDENCE

KEY COUNTERPOINTS

ICE HAS ALWAYS CHANGED

Greenland and Antarctica gained and lost ice repeatedly through the Holocene and earlier warm periods. During the Medieval Warm Period and Holocene Thermal Maximum, many glaciers retreated naturally under regional oceanic and solar variability.

SHORT TERM ≠ LONG TERM TREND

A 410 Gt annual glacier loss sounds dramatic until placed beside Earth's total cryosphere mass and hydrological cycles. Seasonal snowfall variability alone shifts thousands of gigatonnes yearly. Short satellite-era trends from the 1970s onward represent a tiny climatic window.

SEA LEVEL RISE: NATURAL & GRADUAL

Sea level has risen naturally since the Last Glacial Maximum over 20,000 years ago, by more than 120 metres, long before industrial CO_2 narratives. Modern rates remain modest compared with many paleo records.

CLIMATE IS DRIVEN BY MANY FACTORS

Claims of "locked in" catastrophe ignore regional cooling zones, ocean oscillations, volcanic influence, cloud dynamics, and water-vapour regulation. Recent AIRS satellite observations show large global regions below the 10-year average while ocean cooling signals continue appearing across multiple basins.

GLACIERS ARE DYNAMIC, NOT STATIC

Some regions gain ice while others lose mass depending on precipitation, circulation, and ocean transport. Global ice trends are neither uniform nor linear.

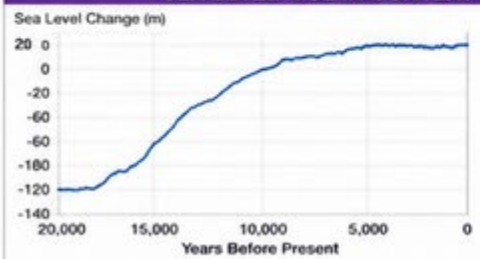
WATER SECURITY IS MULTI-FACTORIAL

Water availability depends more on basin management, storage infrastructure, groundwater recharge, and precipitation cycles than glacier headlines.

HISTORICAL CONTEXT MATTERS

Last Glacial Maximum (~20,000 years ago)	Global sea level >120 m lower than today
Holocene Thermal Maximum (~9,000–5,000 years ago)	Warmer than today in many regions; sea level several metres higher
Medieval Warm Period (~950–1250 AD)	Glacier retreat documented across Europe, Greenland, Alps, Andes
Modern Era (~1970s–present)	Short-term changes within natural variability; tiny climatic window

SEA LEVEL RISE IN CONTEXT

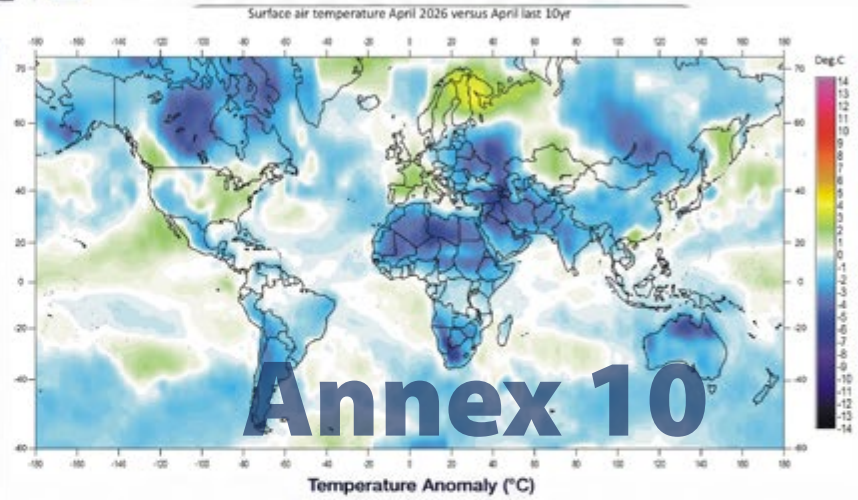


- Since the Last Glacial Maximum, sea level has risen >120 metres naturally.
- Modern rate ~3.3 mm/year (satellite era).
- Many past periods saw faster rises.

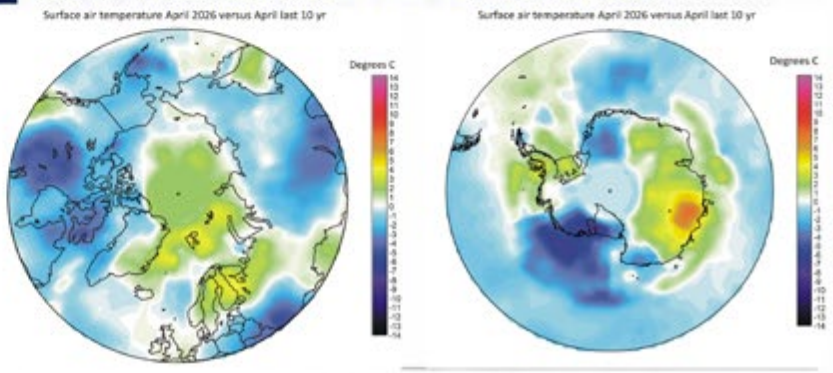
GLOBAL SURFACE AIR TEMPERATURE – APRIL 2026

Satellite observations by AIRS v6 (NASA JPL), obtained from the GISS data portal. Green-yellow-red colours indicate areas with higher temperature than the 10-year average (April 2016–2025), while blue colours indicate lower than average temperatures.

1 APRIL 2026 COMPARED TO 10-YEAR AVERAGE (2016–2025)

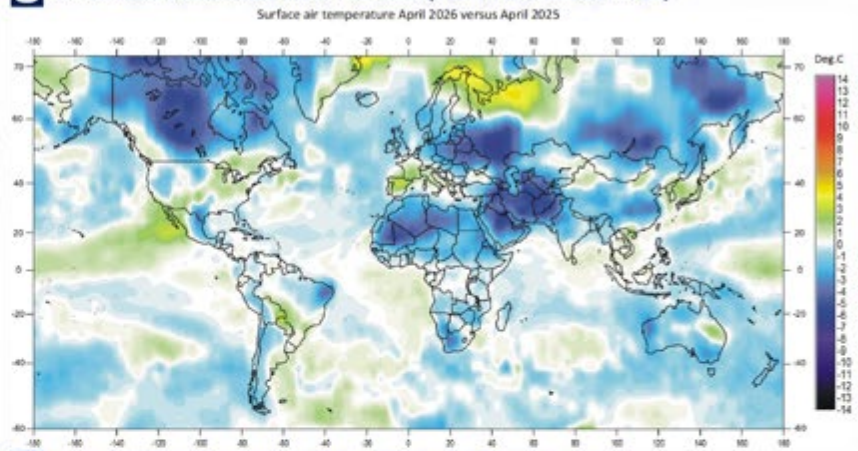


2 APRIL 2026 COMPARED TO 10-YEAR AVERAGE – REGIONAL FOCUS

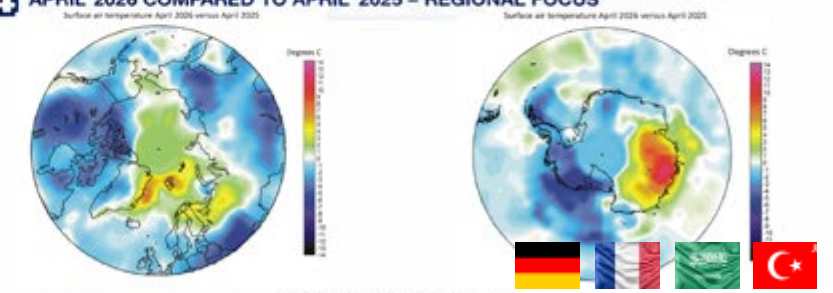


Variations in monthly temperature from one year to the next has no tangible climatic importance but may nevertheless be interesting to study.

3 APRIL 2026 COMPARED TO APRIL 2025 (YEAR-TO-YEAR CHANGE)



4 APRIL 2026 COMPARED TO APRIL 2025 – REGIONAL FOCUS



KEY SOURCES

- AIRS v6 (NASA JPL) – https://airs.jpl.nasa.gov/
- GISS Data Portal – https://data.giss.nasa.gov/
- IPCC AR6 (Physical Science Basis)
- NOAA Sea Level Rise Viewer
- PAGES 2k Network – Past Global Changes
- Geological Survey of Denmark & Greenland (GEUS)

SATELLITES & SYSTEMS

AIRS · WMO · Copernicus · PROMICE/IMBIE

Long-term observations are essential.
Context is critical. **Data, not fear.**

SEE MORE & DATA CONTEXT

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Annex 11

WATER STUPIDITY OF HUMANITY

WATER DESALINATION

> 35 billion m³ / Year

SOLVING EARTH FEWS PROBLEMS. EXCESS FOR SPACE EXPLORATION



WATER DRAINAGE

> 760 billion m³ / Year

RAINWATER RETENTION + LAND EVAPORATION SYSTEM

WATER EVAPORATION

>600-800 billion/ Year

+ CLOUD SEEDING + TYPHOONS REDIRECTION = ENOUGH WATER FOR THE PLANET

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ENTHALPY CITY 2.0

COOLER • GREENER • MORE COMFORTABLE

Designing with Heat, Airflow and Water for Human Comfort

RENEWABLE ENERGY | NATURE BASED COOLING | WATER + AIRFLOW FOR COMFORT | PASSIVE + ACTIVE VENTILATION | PEOPLE CENTRIC DESIGN



HOW IT WORKS



THE ENTHALPY ADVANTAGE

Lower Enthalpy (Higher Comfort)

=

Lower Temperature + Lower Humidity (Faster evaporation) + Air Movement (Fan/wind) + Radiant Cooling (shade + water)

Use water + airflow + shade together to remove heat from the body faster.

WATER + AIRFLOW = MAX COMFORT

WITHOUT AIRFLOW	WITH AIRFLOW
Humidity builds up	Evaporation increases
Evaporation slows	Heat leaves body faster
Sticky and uncomfortable	Cool, comfortable and refreshing
✗	✓

FAN ASSISTED COMFORT

Air speed greatly improves how our body cools through sweat evaporation.

Air Speed (m/s)	Feels Like Reduction
0.2	Still air
0.5	~ 1°C cooler
1.0	~ 2°C cooler
1.5	~ 3°C cooler
2.0+	~ 4°C cooler or more

Use ceiling fans and large slow fans for best energy-efficient comfort.

COOL ROOFS

Use high reflectivity materials and insulation.

EARTH TUBES

Pre-cool incoming air through underground tubes.

PERMEABLE & GREEN SURFACES

Reduce surface heat, improve infiltration and support greenery.

RAINWATER HARVESTING

Store, clean and reuse water for cooling, irrigation and toilets.

SMART CONTROLS

Sensors automate vents, shades, fans and pumps for optimal comfort.

DESIGNED FOR TROPICAL HUMID CLIMATES

- Reduce heat gain
- Promote airflow
- Lower humidity around the body
- Accelerate natural cooling
- Use renewable energy

Shade + Water + Airflow + Nature = Comfort

RESULT: LOWER HEAT STRESS, HIGHER QUALITY OF LIFE

Cooler Environments | Healthier Communities | Lower Energy Use | Food Security & Resilience | Sustainable Future

Harness the sun. Move the air. Use water wisely. Live comfortably.

totrade.co/w62


IST™
INTERNATIONAL SPACE HUB
& GLOBAL SCENARIOS CENTER
WES
MULTI-SCENARIOS
GLOBAL HUB
Tiny Size
100km
IST HUB Footprint
Equivalent to
100km x 100km
Ground Area
(Scalable)
SOUTHWEST ASIA
100km long
distance on land
INDIA
AFRICA
INTERNATIONAL SPACE TOWER
(IST) - North of Laos
1,000 500 100
km
100-0
Hydroloop Water Transport System by Pipeline
Powered by:
Gravity Pressure Demand
Increases Water Speed for Electricity Production
Cold water export
Freshwater pipeline
Renewable electricity grid
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