

Humanity's Last Hope

GREEN DIGITAL EVOLUTION

White Paper



Scan for Latest Update
totrade.co/solution

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Team: [Totrade.co/chart](https://totrade.co/chart)

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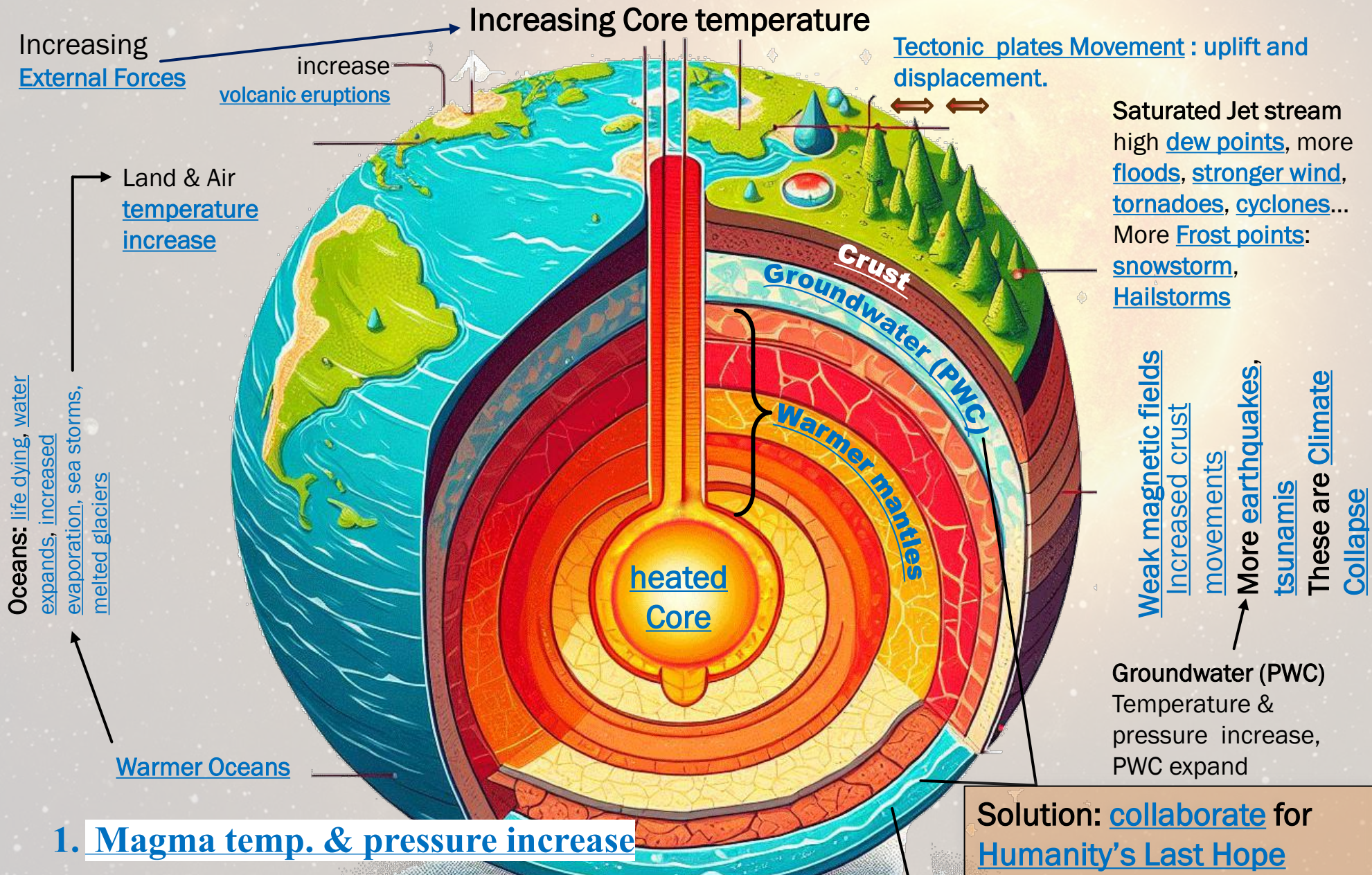
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1. Magma temp. & pressure increase
2. Groundwater (PWC) temp & pressure increase
3. Salty and freshwater to merge & submerging large landmasses with saltier water



Buildup to The Next Cataclysm



Classified Book

*** Where, Why?**

- Any thin Earth Crust
- Huge energy transfer

*** When?**

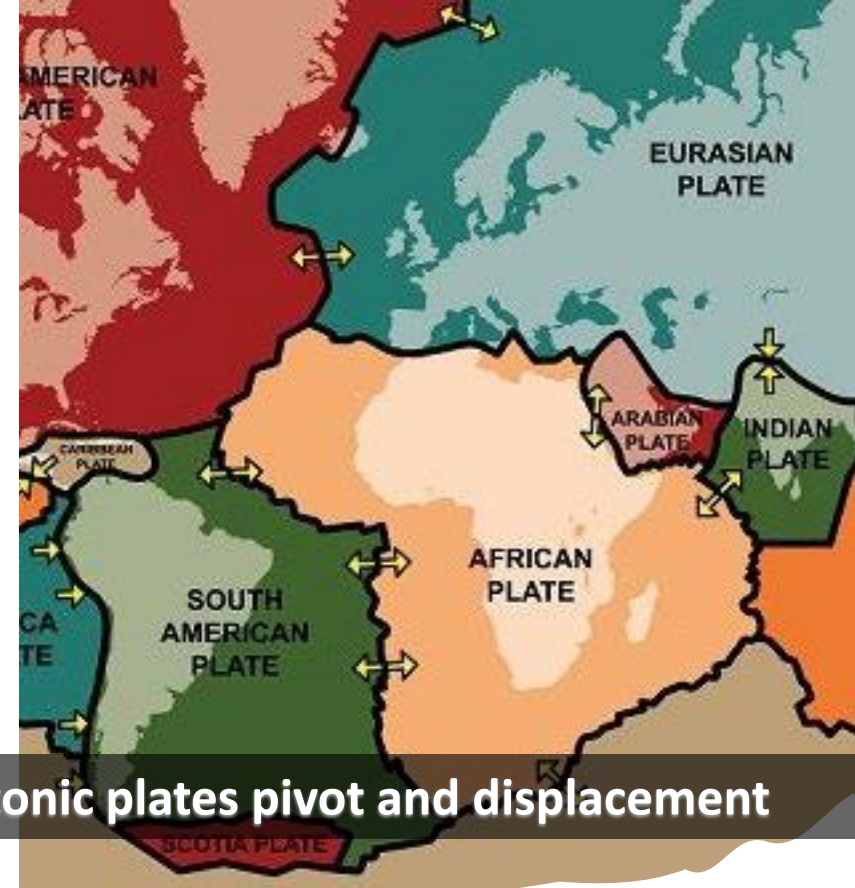
- Unpredictable, but
- Sooner than we think

Mariana Trench *

Suboceanic super volcanic eruption

- A. No action:** 99.9% of lives could vanish
- B. Preparedness:** 5% could survive
- C. Prevention:** most could survive & swift progress to Type I Civilization

The Next Cataclysm



Tectonic plates pivot and displacement

By 1st Law Thermodynamics
Conservation of Energy

Extreme Climate Events and Their Impact on the Water Cycles:

From floods, snowstorms, extreme heat, fires, hailstorms, windstorms, tornadoes, earthquakes, volcanic eruptions, tsunami, to cataclysm mixing freshwater and seawater.

Brink of Global climate Crisis

Classified Book



By the Year

2036*

*estimate

Cyclical **Climate Collapse**

From the book:
History of
Cataclysm

In less than one day, the Earth undergoes tectonic plate displacement occurring at intervals between $\pm 5,000$ and $\pm 35,000$ years. The larger the interval, the stronger the destructive forces. We are at the end of a $\pm 12,000$ years buildup. This Cataclysmic event could end most human life.

Cataclysm = abrupt event

Buildup Characteristics:

- ✓ Intense flooding
- ✓ Earthquakes
- ✓ Extreme heat and wildfire
- ✓ Strong winds and tornadoes
- ✓ Hailstorms and Snowstorms
- ✓ Volcanic Eruptions
- ✓ Concluding with MegaTsunami...

[Lao](#)

Cataclysm

Nothing survives

ໂລກພັງທະລາຍ

ບໍ່ມີສິ່ງໃດລອດ

ລັກສະນະ ຈະເກີດ ໂລກພັງທະລາຍ

- ☑ ນໍ້າຖ້ວມ ຫນັກຂຶ້ນ
- ☑ ແຜ່ນດິນໄຫວຫຼາຍຂຶ້ນ
- ☑ ອາກາດຮ້ອນ, ໄຟໄຫມ້ຫຼາຍຂຶ້ນ
- ☑ ລົມພາຍຸ, ຕອກນາໄດ້ ແຮງຂຶ້ນ
- ☑ ຫມາກເຫັບ ພາຍຸຫຼີມະ ຫຼາຍຂຶ້ນ
- ☑ ພູເຂົາໄຟລະເບີດແຮງຂຶ້ນ
- ☑ ຕອນທ້າຍ ສຸນາມີ ຝອງຍັກຂຶ້ນ...

Eng

Cyclical Climate Collapse

ທຸກໆ⁽¹⁾ ±5,000 ຫາ ±35,000 ປີ ໂລກປະເຊີນຫນ້າກັບການລົ້ມລະລາຍຂອງດິນຟ້າອາກາດ ແບບທຳລາຍຊີວິດສ່ວນໃຫຍ່ ຮູ້ກັນໃນຊື່: **ໂລກພັງທະລາຍ** ພາຍໃນຫນຶ່ງມື້. ຈະແລືອກ ①, ② ຫຼື ③

3 available options

ມີ 3 ທາງເລືອກ

1

Wait for 99.9% cataclysm fate
ລໍຖ້າໂລກຮ້າຍດິນຟ້າທຳລາຍຕາຍ 99.9%

2

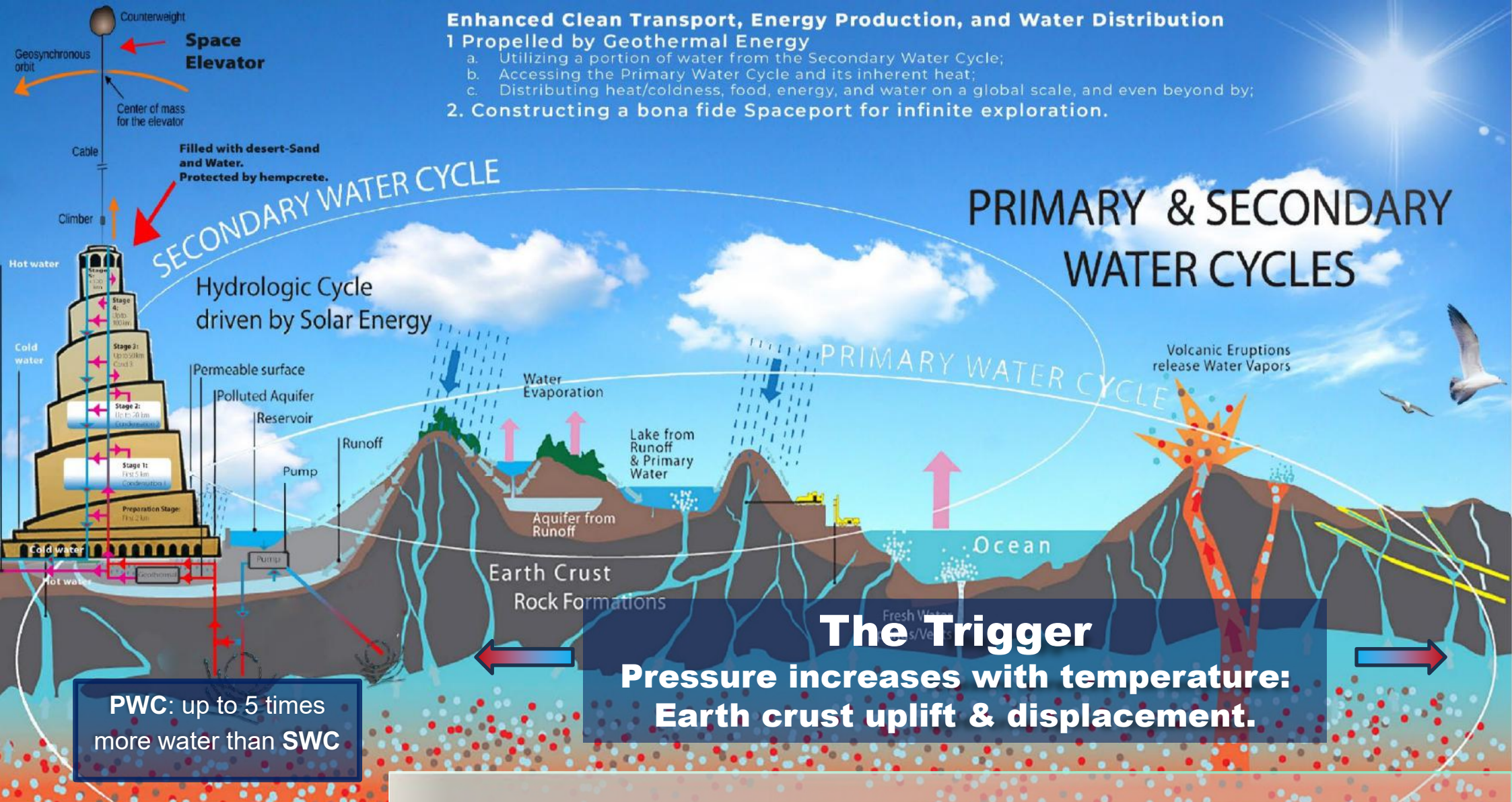
Cataclysm Preparedness
ກະກຽມຮັບໄພພິບັດ ລອດ 5%

3

Prevent to survive & Prosper
ປ້ອງກັນ ລອດໄພ ແລະ ພັດທະນາ:

TYPE I CIVILISATION

A Beacon of Abundance and Prosperity



Enhanced Clean Transport, Energy Production, and Water Distribution

1. Propelled by Geothermal Energy
 - a. Utilizing a portion of water from the Secondary Water Cycle;
 - b. Accessing the Primary Water Cycle and its inherent heat;
 - c. Distributing heat/coldness, food, energy, and water on a global scale, and even beyond by;
2. Constructing a bona fide Spaceport for infinite exploration.

PRIMARY & SECONDARY WATER CYCLES

PWC: up to 5 times more water than SWC

The Trigger
Pressure increases with temperature:
Earth crust uplift & displacement.

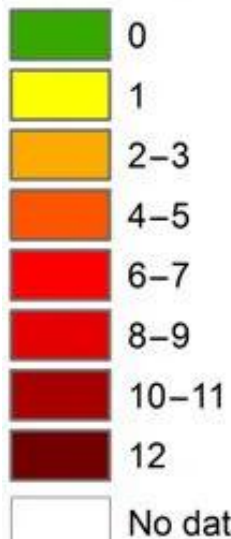
Harnessing
 Primary & Secondary
 Water Cycles
 and Earth's Core Heat

1. Use Secondary Water Cycle (SWC)
2. Top up with Primary Water Cycle (PWC), ± 5 x more than SWC
3. Spread water across Earth Crust, lakes, trees, & atmosphere
4. If not sufficient, export to lower space, spaceships, and beyond

Solutions to prevent cataclysm

Solution: Distribute water, 24/7, 365 days/year. Store it across world landmass and air, before 2036

Number of months in which water scarcity is >100%



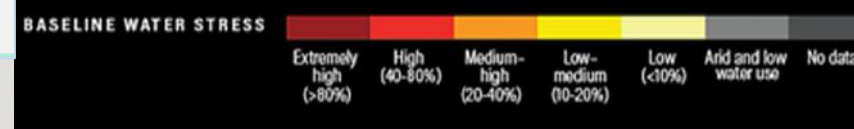
Cataclysm: 100% Water Crisis

Freshwater scarce regions / month

- N&S Africa
- SW & South Asia, East & North China, and Mongolia
- South America, Australia, US West Coast
- South Europe + Belgium!

Bad Freshwater & resources management

- Water for cheap electricity, but lack for developments
- Resource curse victim, heavily indebted to foreigners
- Rampant corruption, import high-value goods...



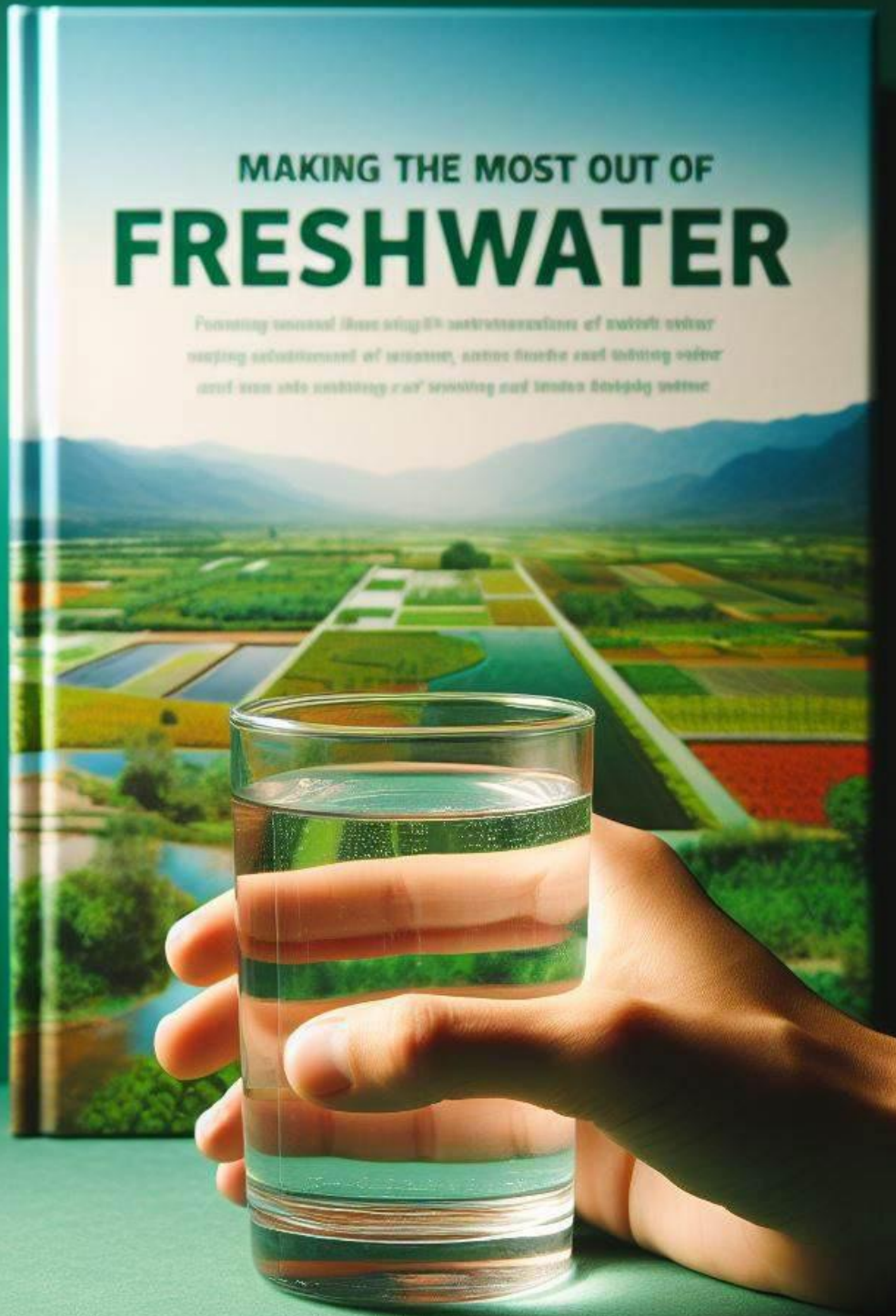
EXTREMELY HIGH BASELINE WATER STRESS

- | | | | |
|------------|-----------------|--------------------------|------------------|
| 1. Qatar | 6. Libya | 10. United Arab Emirates | 14. Pakistan |
| 2. Israel | 7. Kuwait | 11. San Marino | 15. Turkmenistan |
| 3. Lebanon | 8. Saudi Arabia | 12. Bahrain | 16. Oman |
| 4. Iran | 9. Eritrea | 13. India | 17. Botswana |
| 5. Jordan | | | |

HIGH BASELINE WATER STRESS

- | | | | |
|-------------|-----------------|------------------|--------------|
| 18. Chile | 25. Uzbekistan | 32. Turkey | 39. Niger |
| 19. Cyprus | 26. Greece | 33. Albania | 40. Nepal |
| 20. Yemen | 27. Afghanistan | 34. Armenia | 41. Portugal |
| 21. Andorra | 28. Spain | 35. Burkina Faso | 42. Iraq |
| 22. Morocco | 29. Algeria | 36. Djibouti | 43. Egypt |
| 23. Belgium | 30. Tunisia | 37. Namibia | 44. Italy |
| 24. Mexico | 31. Syria | 38. Kyrgyzstan | |



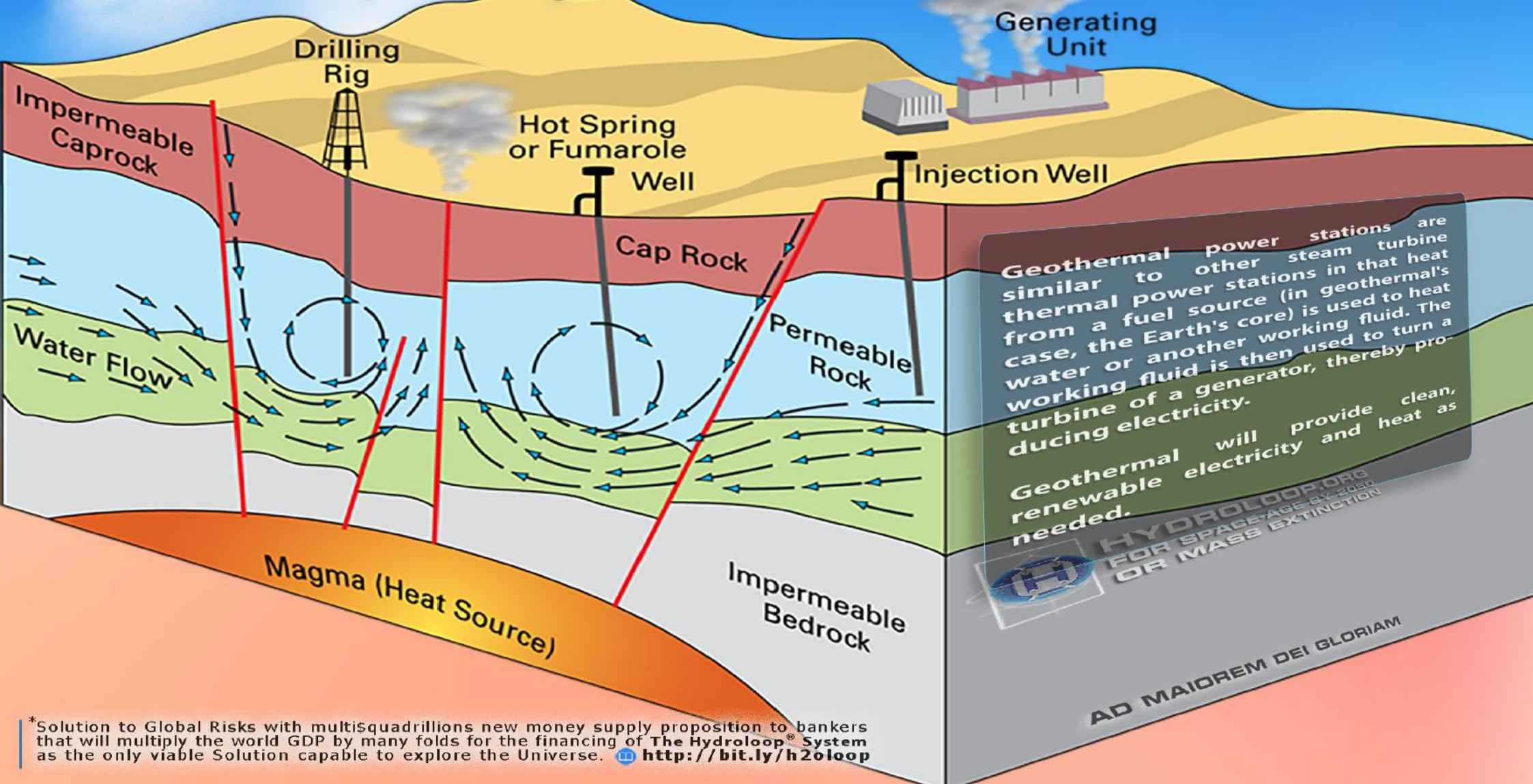


Optimizing even* Global Freshwater Distribution:

- Public water supply
- Irrigation
- Thermo/Hydro power
- Industrial use, recreation
- Domestic use
- Mining
- Livestock, Aquaculture
- H₂ & O production
- Transportation
- Food, energy, and water security & mitigate Global Risks.
- Etc...

* = constant water distribution

Geothermal power generation



*Solution to Global Risks with multisquadrillions new money supply proposition to bankers that will multiply the world GDP by many folds for the financing of The Hydroloop® System as the only viable Solution capable to explore the Universe. <http://bit.ly/h2oloop>

Harnessing

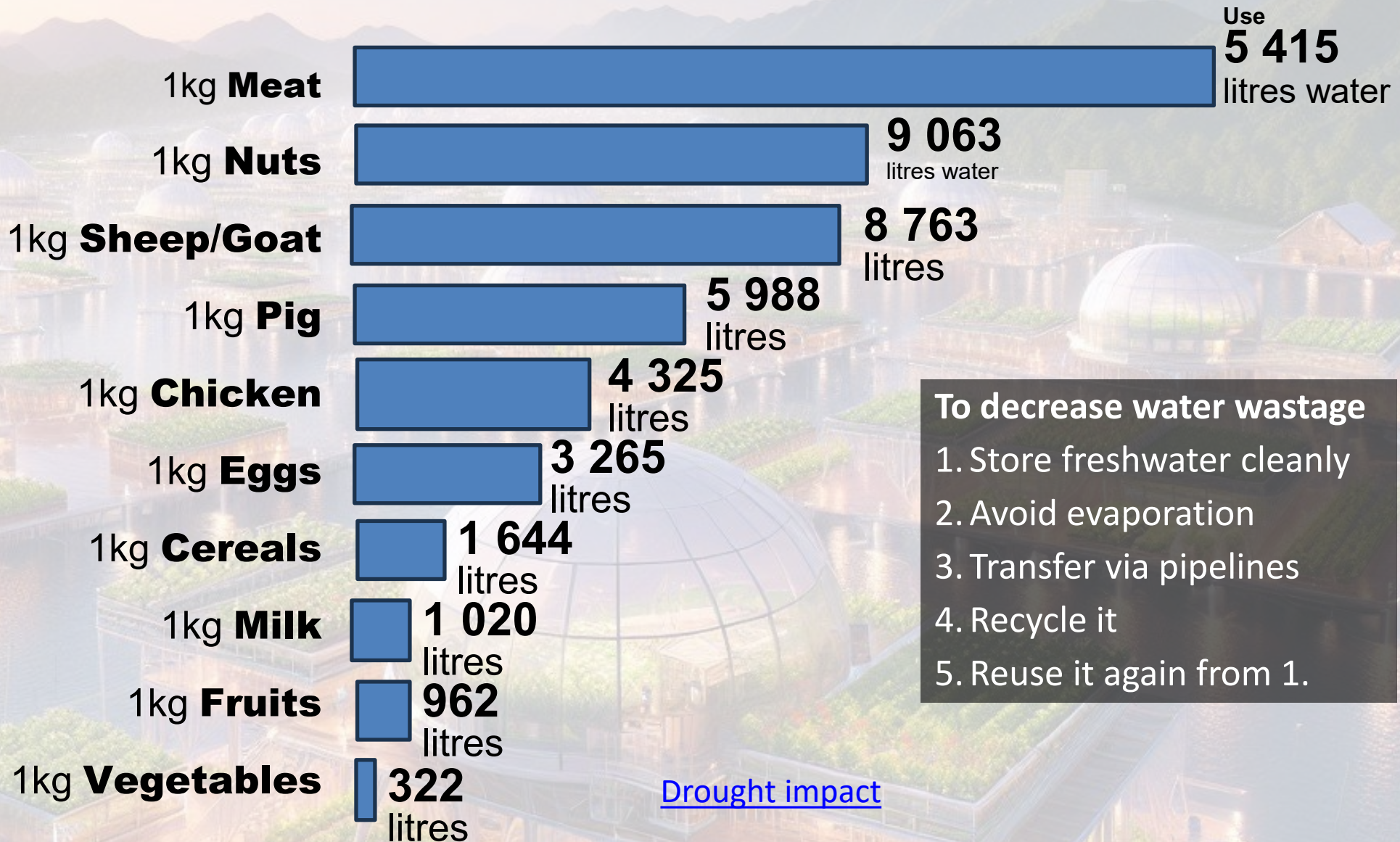
Primary & Secondary
Water Cycles
and Earth's Core Heat

Remove Primary Water Cycle (PWC)

Problem: PWC temperature & pressure increases

Solution: Release PWC pressure.

Food and an water is used to grow in greenhouse with Space capsule.



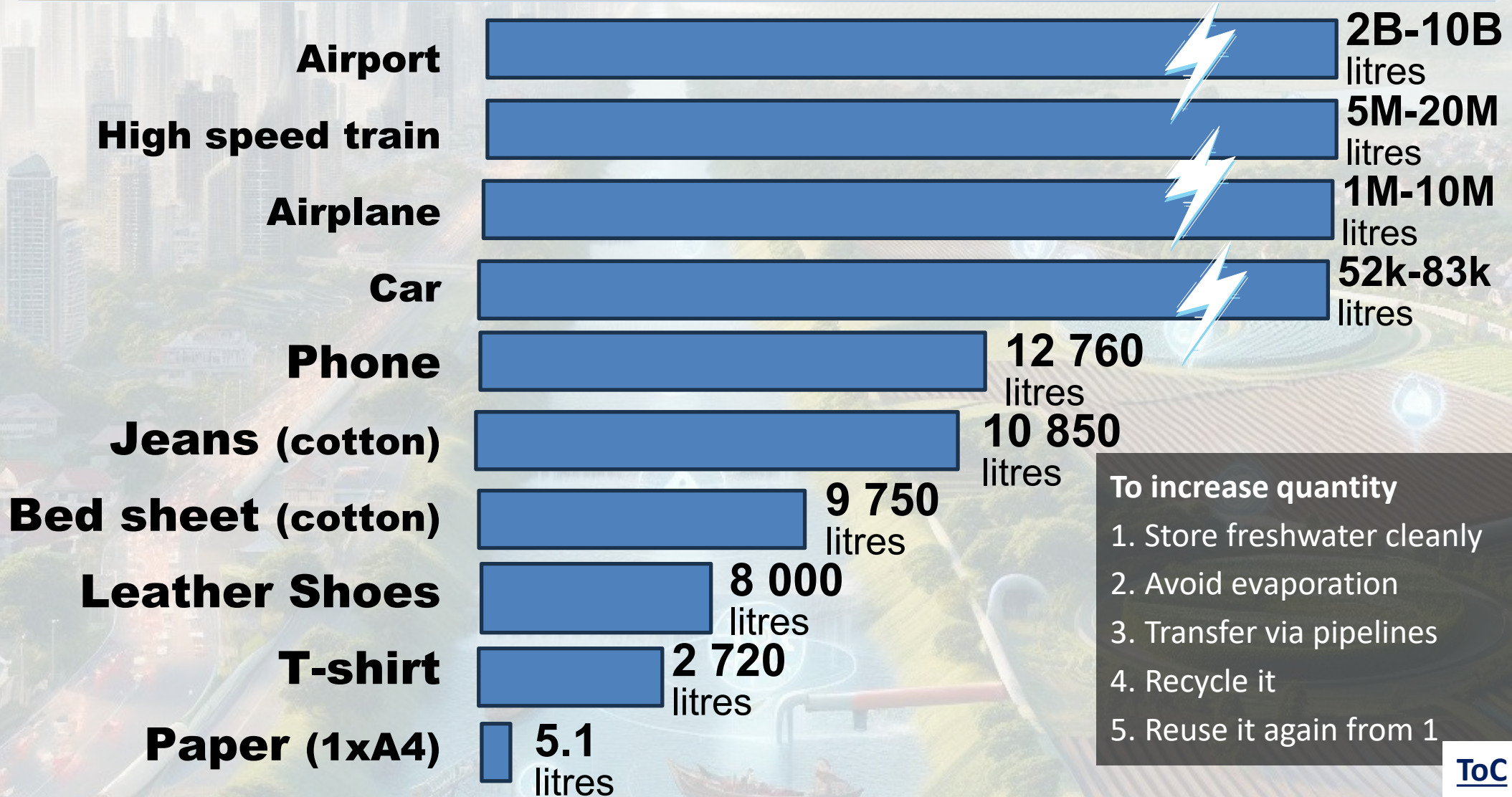
To decrease water wastage

1. Store freshwater cleanly
2. Avoid evaporation
3. Transfer via pipelines
4. Recycle it
5. Reuse it again from 1.

[Drought impact](#)

Boosting World GDP by optimizing Water distribution

Water usage per product



To increase quantity

1. Store freshwater cleanly
2. Avoid evaporation
3. Transfer via pipelines
4. Recycle it
5. Reuse it again from 1

Average Water usage in the US is 388 505 km³ / year



**Domestic and public supply
54 271 km³**



**Farming
43 065 km³**

* excludes water used by dams, which is released back into the rivers.



**Industries*
291 169 km³**

US water usage, therefore high GDP

Average Water usage in Europe is 286 km³ / year



**Domestic and public supply
90 km³**



**Farming
68 km³**

* excludes water used by dams, which is released back into the rivers.



**Industries*
128 km³**

EU water usage, medium GDP

Average Water usage in Laos is **0.75 km³ / year**

Domestic and public supply
0.03 km³

Farming
0.705 km³

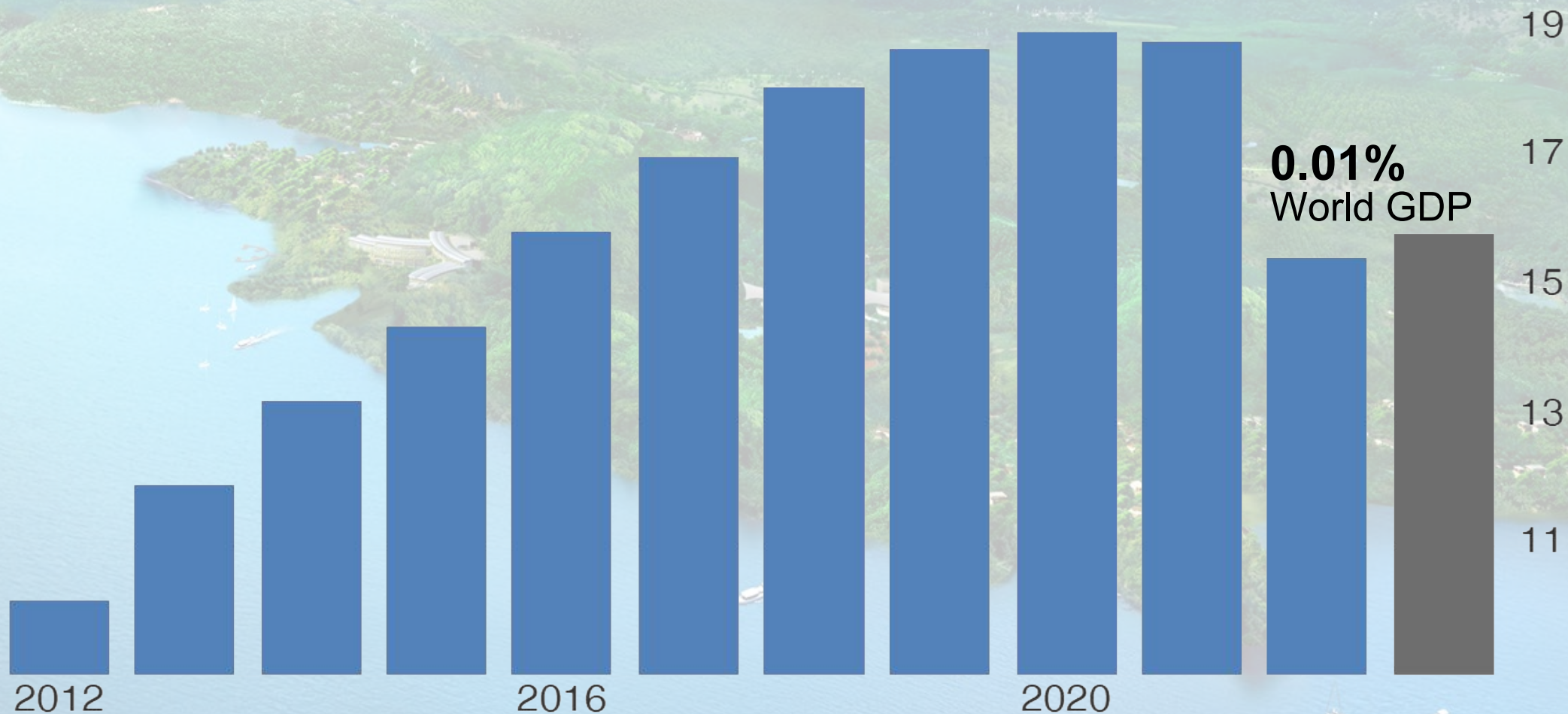
Industries*
0.015 km³

* excludes water used by dams, which is released back into the rivers.



LAO PDR GDP

USD Billion



World Bank

Value

Therefore, low in GDP

GDP
increase



Financial services*

Loans, ipo (+securities) fees



Infrastructure & buildings*

Depreciation, maintenance



Wages*

Admin, earnings, professional fees...



Education*

Schools, R&D...



Healthcare & wellbeing*

Clothing, food, save productive life



Raw material & Energy*

Mining, petroleum, electricity, food, water



Machinery & communication*

+ tools, internet, phones



Other expenditure*

Defense, leaks, miscellaneous



Products & Services*

Food, energy, water, clean and sustainable systems, know-how for export.



This is our "Humanity's Last Hope" for GDP increases in other parts of the world

ASEAN:

From 39 to **+51%** of world **GDP**

ASEAN PPP is **47.5%** of the world PPP

+51 % world economy
=
Increased GDP of participating Countries

* Approximates

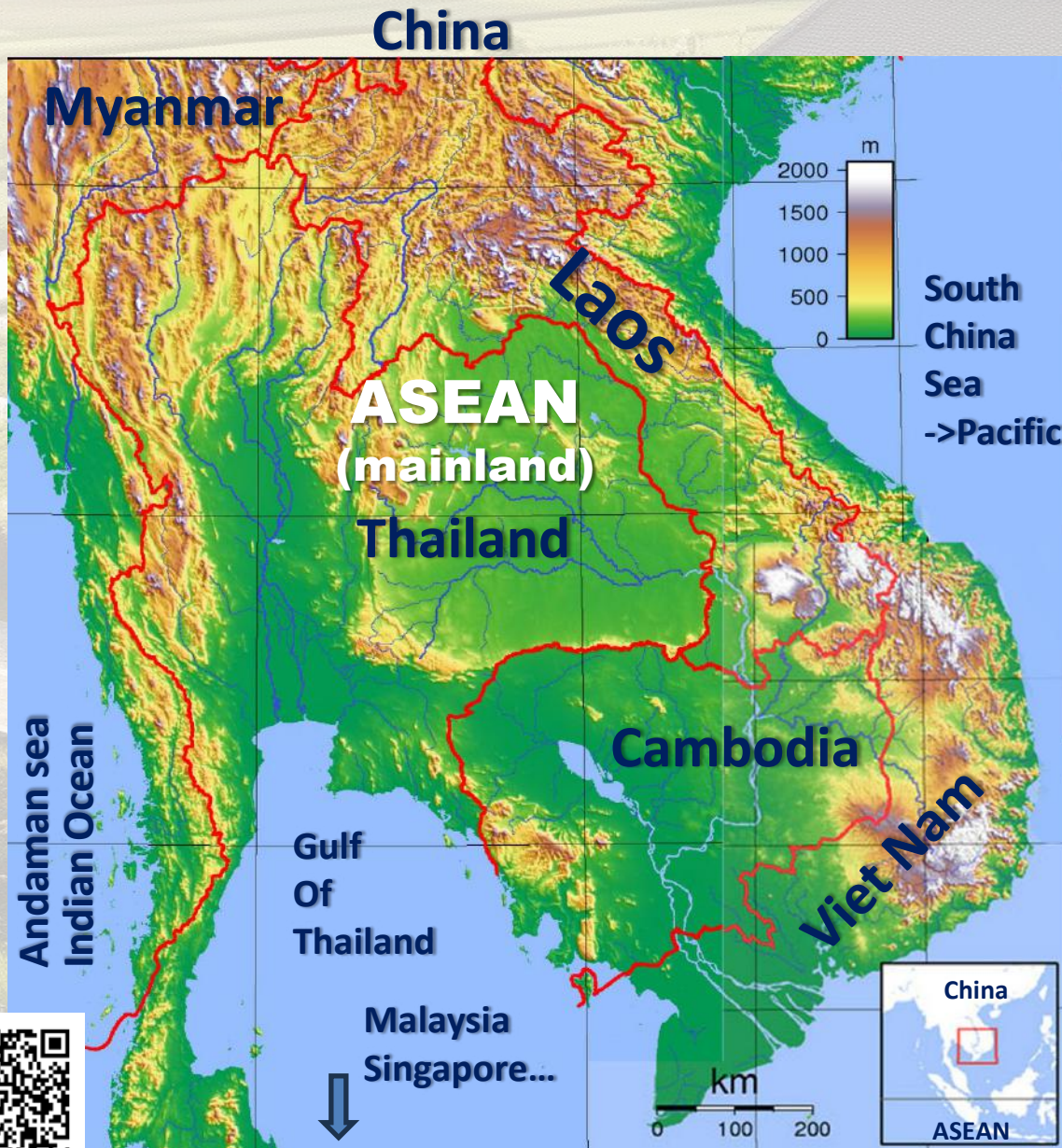
global effects

All sectors turnover



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Increasing GDP by high water consumption



Political Region: ASEAN

Land Area: 4.5 million km²

Population: >600 million

Climate: Tropical

50% Rainy: May-October

50% Dry: November-April

Freshwater Reserve:

Secondary Water Cycle (SWC)

Laos' rainfall 2000 mm/year avg.

Primary Water Cycle (PWC)

ASEAN ± 500 km³/year avg.

World ≤ 5 times SWC.

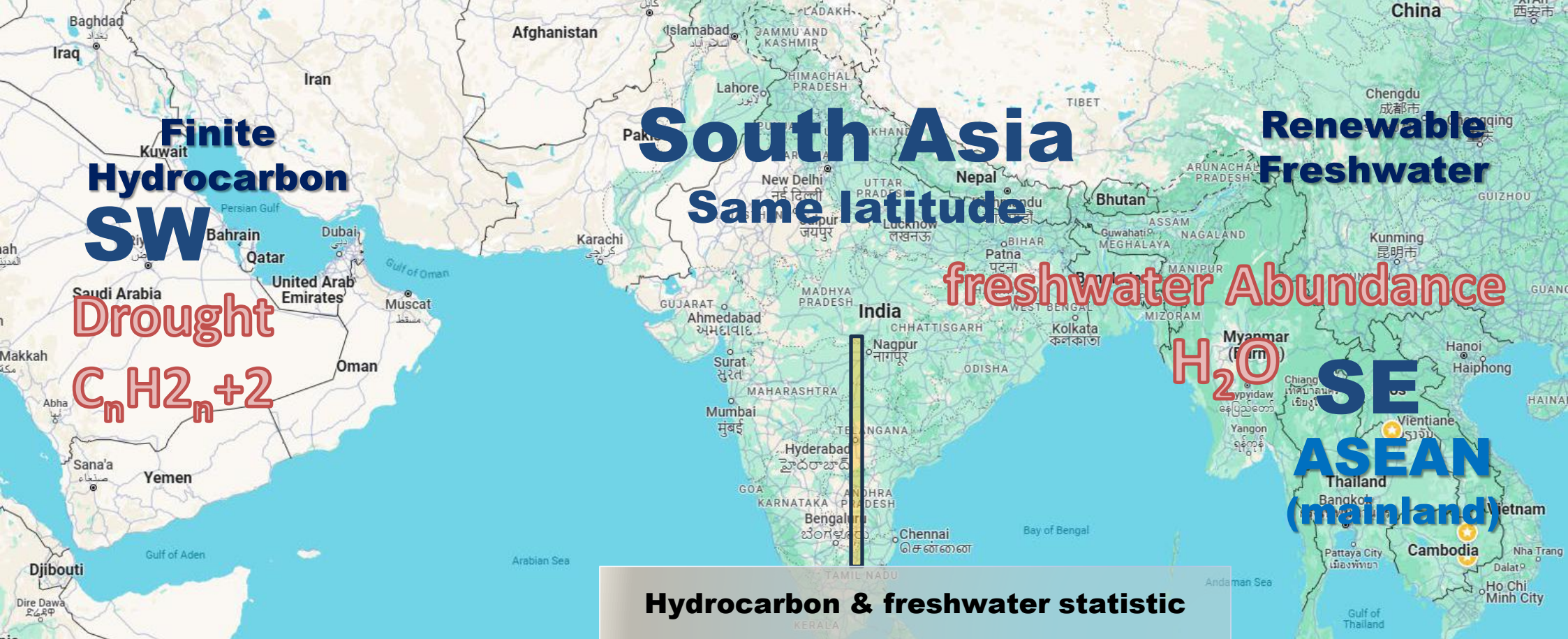
Development project Proposed to:

LNCCI, ASEAN, AICCI, GCC, KIA, World Bank, City of London, UN...

See: totrade.co/solcom

PowerPoint: totrade.co/pwp

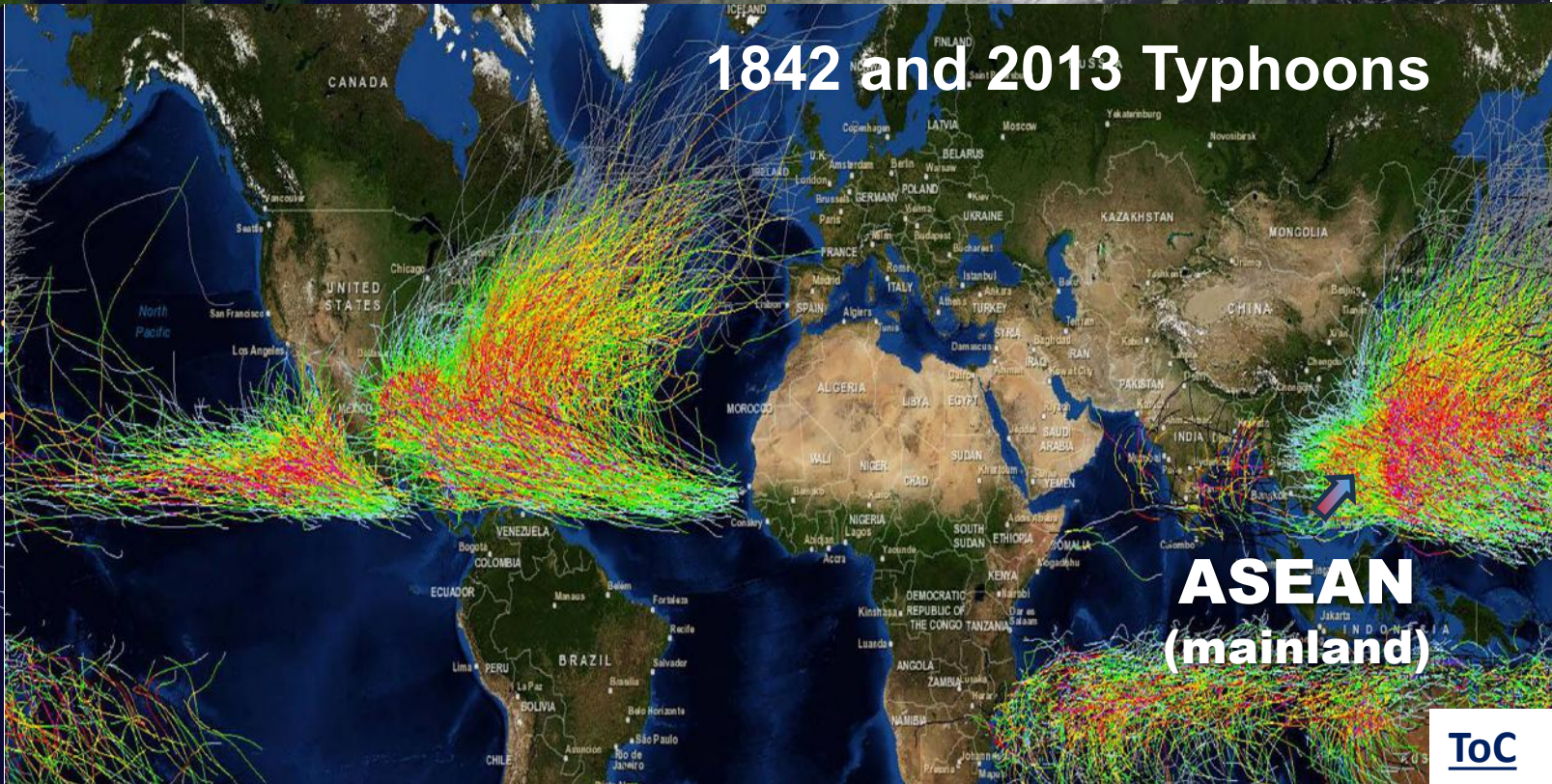
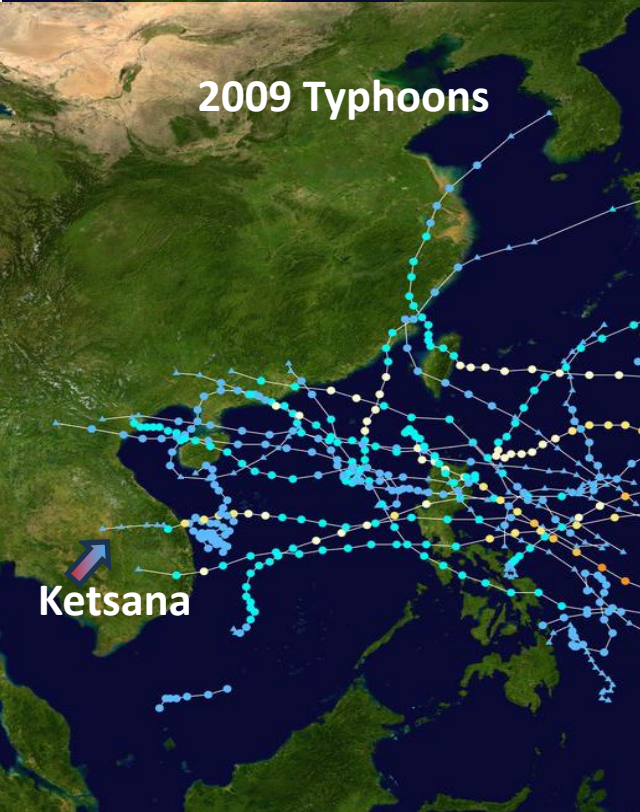
ASEAN Mainland, Humanity's Last Hope



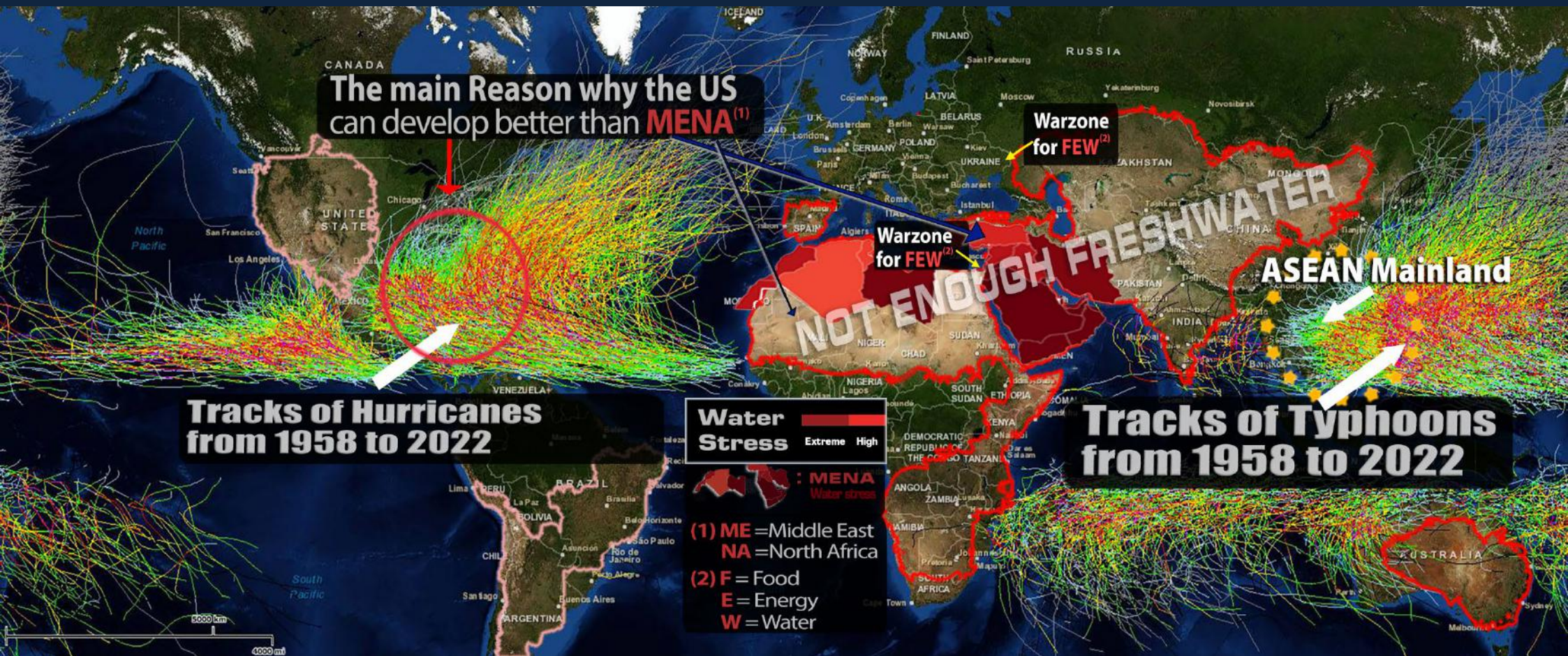
Sustainable transition to clean energy and transportation Building “Humanity’s Last Hope”

- With a clean transport system prototype in ASEAN Mainland
- Global supply of fresh water and energy to geothermal plants, farming, industries
- Before hydrocarbon becomes scarce.
- **Grow trees with 20% hemp.**
- Transport desert sand and hemp back to ASEAN Mainland
- To expand water storage capacity to grow more trees, and food
- And for mass Space Exploration this century by sending out billions of people

Second Water Cycle: Typhoons form every year 1 among many



ASEAN Mainland, “Humanity’s Last Hope”

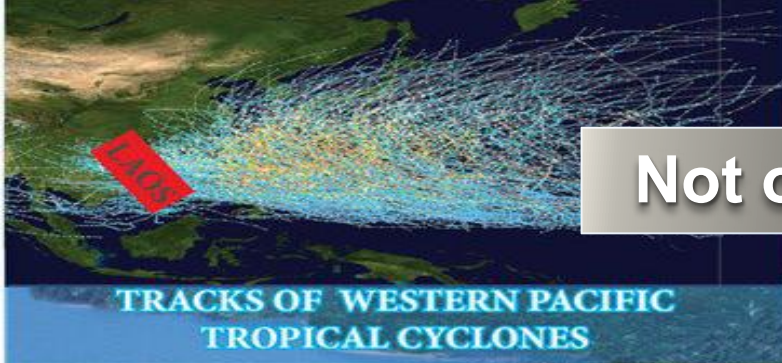


Canada, US, Russia, Europe, N&E Asia
Longer and colder winters, irregular summers

Tropical Zone
Hotter Dry season and wetter monsoon seasons.

Globally: Climate is Collapsing heading to Cataclysm (abrupt event)
Solution: Constant* Energy and water transfers (Laws of thermodynamics)

* extended periods and over large areas is a critical goal for global development & cataclysm mitigation. [ToC](#)



Not only Typhoons...



- Mekong tributaries in Laos**
- 13 rivers
- In Thailand**
- 8 rivers
- Groundwater: >600 km³, renewable**
- Enough to:**
- Upgradable to World Kitchen
 - Build a Clean transport system
 - Solve UNSDG & avoid cataclysm

Average rainfall in ASEAN Mainland

From Multiple sources

Modern technology can double the rainfall

Successful US Air Force cloud seedings (1966-1972).

➡ **"Humanity's Last Hope"**

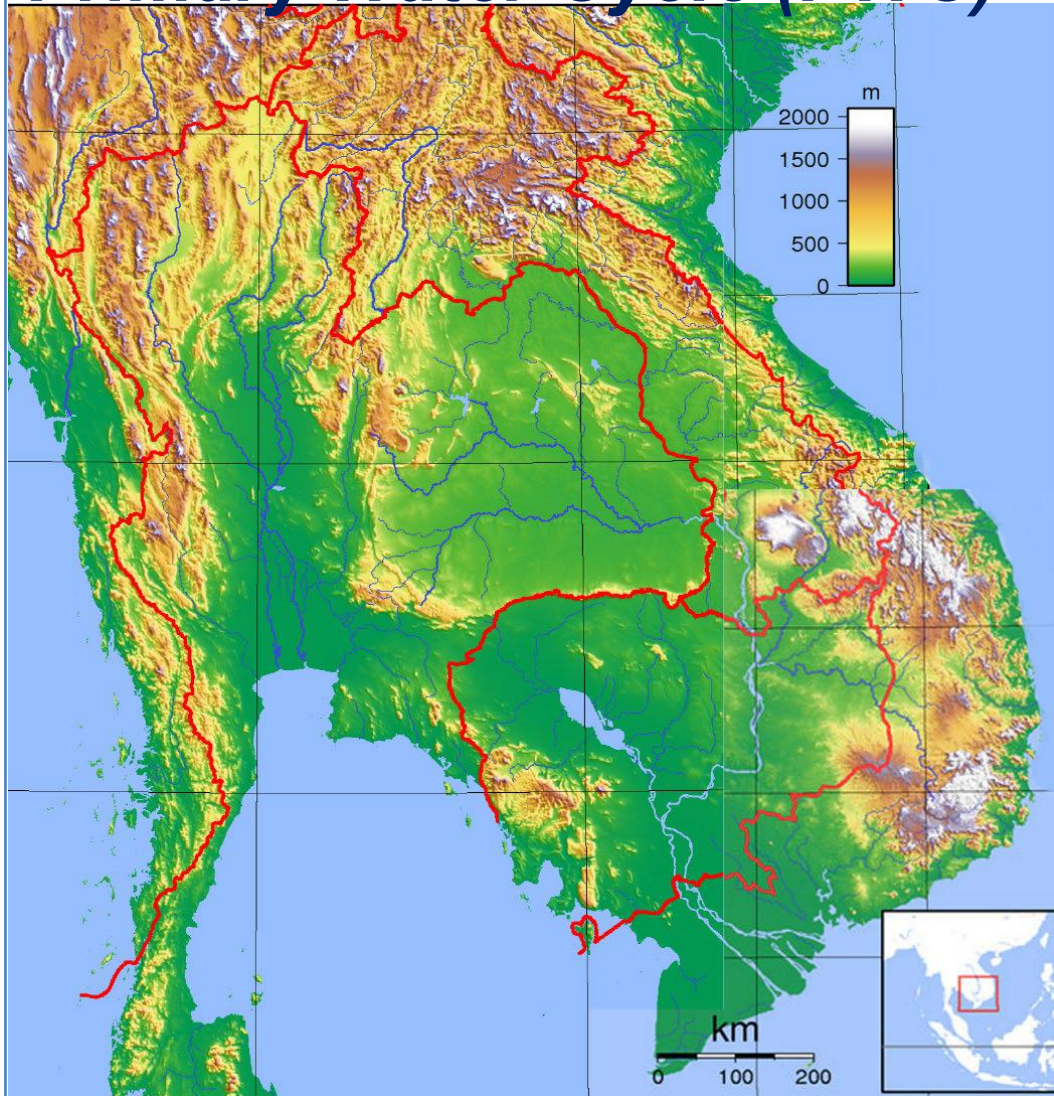


Mountain Chains in ASEAN Mainland

- More Kinetic and potential energies (500 to 2000m)
- Which is also the height of Vertical farming without pumping cost (pipeline).
- Ideal for Cataclysm preparedness in case prevention measures failure.

ASEAN Mainland deep Groundwater *Primary Water Cycle (PWC)*

Larger than
[global oil reserve](#)



- Over 600 km³
- renewable
- Pilot project in Laos
- Expand to neighbours
- until reaching MENA
- and deploy worldwide
- exportable to Space
- and Beyond

[More](#)

Maximum use of Water

- On both river banks
- Water by Pipelines from dam
- End-Point Energy generation
- Endless Water supply
- Coldness transfer
- Riverview properties
- Full scale smart farming
- Large scale industrialization
- Space programs
- Top up with groundwater
- Export the excess



Fresh and alive supply chain

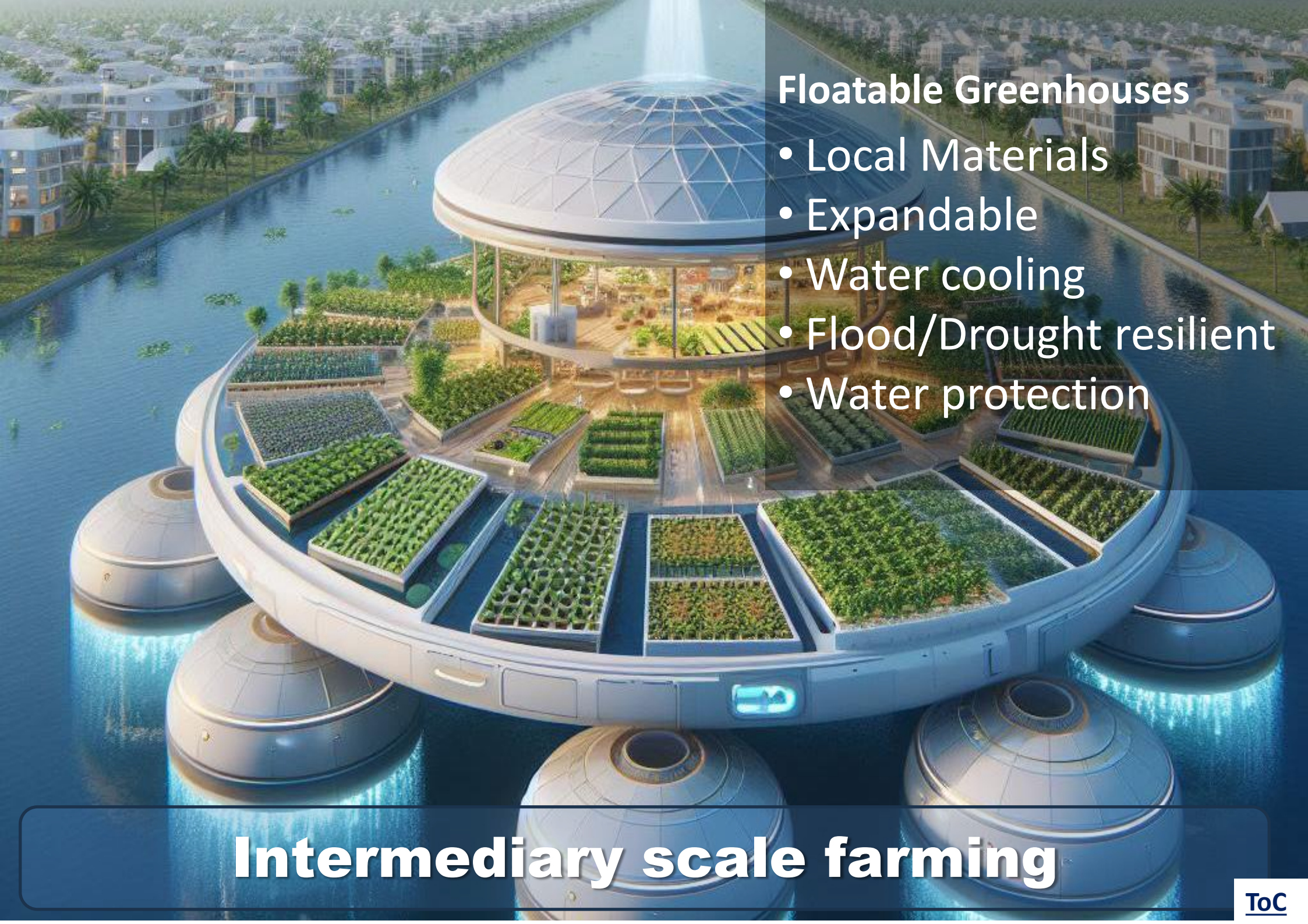
Clean Living

- Fresher and alive food
- Cooled by freshwater
- AI management system
- High altitude
- Tropical climate
- Less Global risk exposure

From Farm to Kitchen

Large-Scale farming

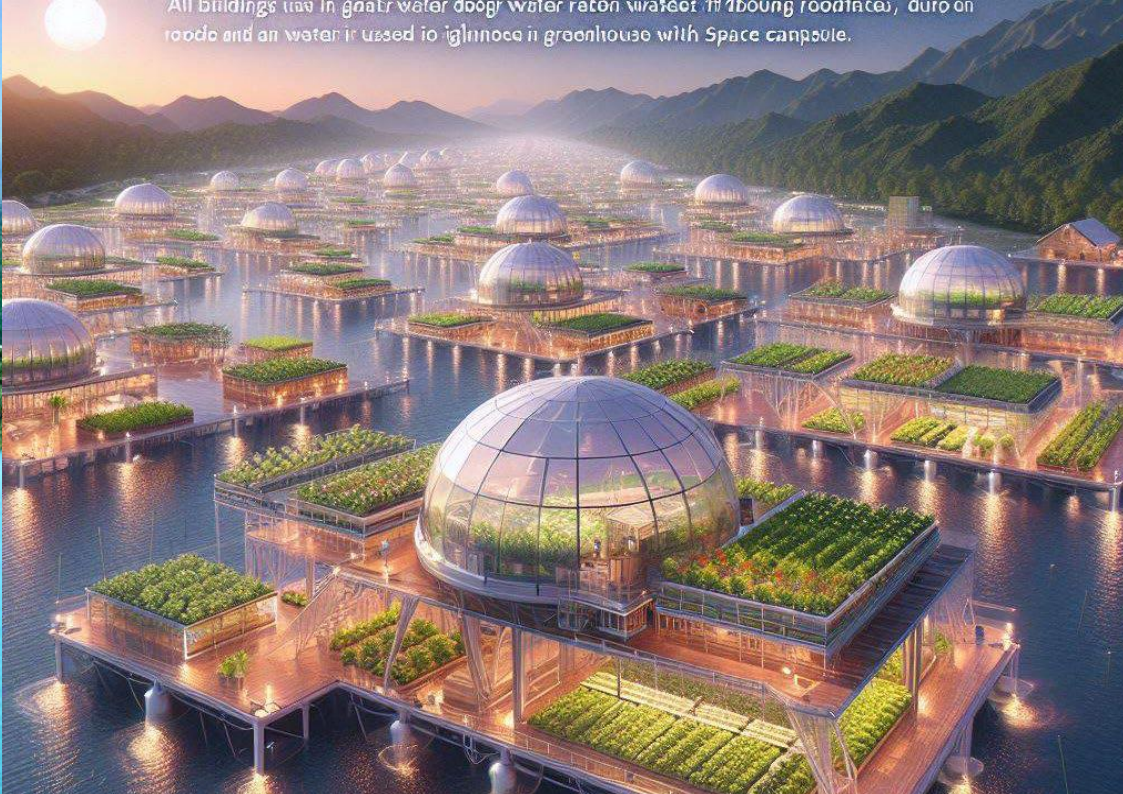
- Fresher and alive food
- Cooled by freshwater
- AI management system
- Elevating (Jacking) for extra floors
- High altitude (flood avoidance)
- Tropical climate
- Supply other Greenhouses



- ## Floatable Greenhouses
- Local Materials
 - Expandable
 - Water cooling
 - Flood/Drought resilient
 - Water protection

Intermediary scale farming

All buildings use in ground water through water table in floating roof faces, duro on roads and an water it used to irrigate in greenhouse with Space capsule.



Reservoir Max ROI

- Groundwater exchange
- Transparent Solar cells
- Water cooled buildings
- Fresh and Alive Plants
- Aquaculture
- Water recreation

⇒ The Hydroloop System



Water Reservoir

- Hydroloop System implementation
- Research and Development for
 - ASEAN UNSDGs implementation
 - Global Risks mitigation



Skyscraper greenhouses

The Hydroloop System Vertical Farming

- Cheap water and energy
- Supply green walls and roofs
- Improve air quality
- Reduce heat
- Low logistics cost
- Create local jobs
- Less plastic packaging
- Fresher and alive food
- Increase tourism
- Low Industrialization costs



Vertical Farming

- Land use efficiency
- reduce the urban heat island
- Flood and drought prevention
- High Pressure water available
- Fire prevention system
- Continuous supply by Large-Scale farming

Videos

Carbon-Negative



The Hydroloop System

- **Experience the Bounty of Nature**
- **Supplied by Large-scale Smart Farming**
- **Cooled by freshwater**
- **Pick fresh and alive by visitors**
- **Entertainment, Cooking-class**

[Videos](#)

Yearly Exposition



The Hydroloop System

- Sport
- Cultural
- Entertainment

Yearly Exposition



Carbon-Negative Expo



The Hydroloop™ System

- clean transportation system
- Move pressurized water 365 days / year
- Transporting people and goods
- Energy gain (gravity and kinetic)
- can generate electricity at endpoint
- Flood and fire control (no need of pump)
- Heat effects reversal
- Air purification (more plants)



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with the partnership of



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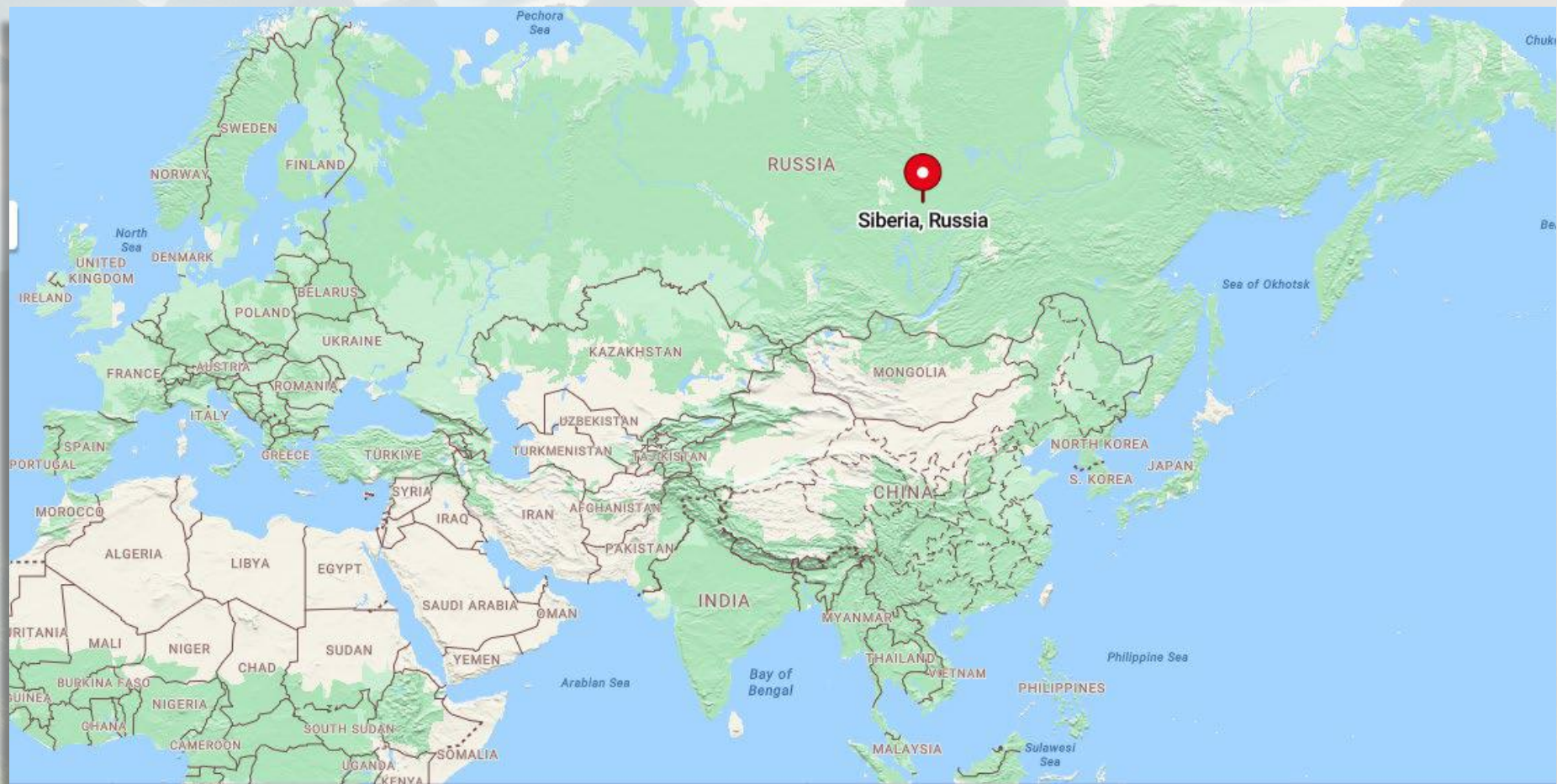
**Building
"Humanity's Last Hope"**

ສ້າງບ້ານເຮົາໃຫ້ປອດໄພ
ແລະ ໃຫ້ໝ້າຍູ້

TOTRADE, HYDROLOOP, Hydroloop, PHOUTHONE SIHARATH, Phouthone Siharath, and **"VESSEL-PHOUTHONE-THONE: SIHARATH."** are the business names of **TOTRADE LTD,** registered with The Crown (Global), **registration number:** 13431000, and the **registered address is** International House, 36-38 Cornhill, City of London.

LAO INTER and LAO INTER GROUP are the business names of **Lao International Construction Bridge-Road Irrigation Import-Export Sole Co., Ltd** registered with the **LAO PDR, registration number:** 01B-0004865, and the **registered address is** PO Box.: 761, Thadua Rd, Ban Somvangtai, Hadxaifong District, Vientiane, Vientiane Prefecture, (10,000) Laos (LAO PDR).





Cover all ASEAN Mainland and Oceania, expand via

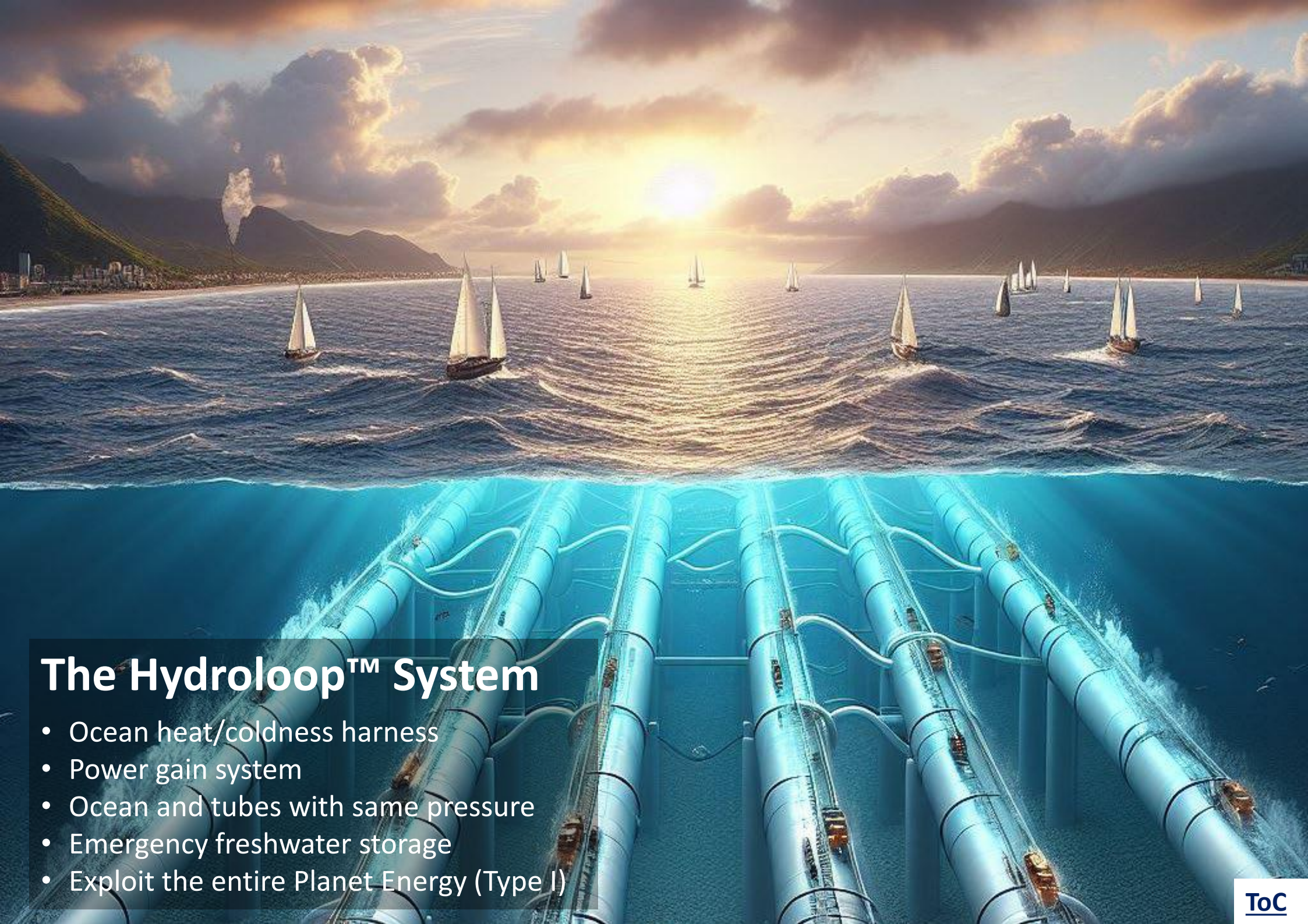
- **Route 1:** to China, Mongolia, Siberia, down to Türkiye, Iraq, Saudi Arabia and backward route to ASEAN Mainland.
- **Route 2:** to Myanmar, Bangladesh, India, Pakistan, Iran, MENA, and Africa. Backward route to ASEAN Mainland.

Both routes have two separate hot/cold water pipelines that are interconnected with valves.



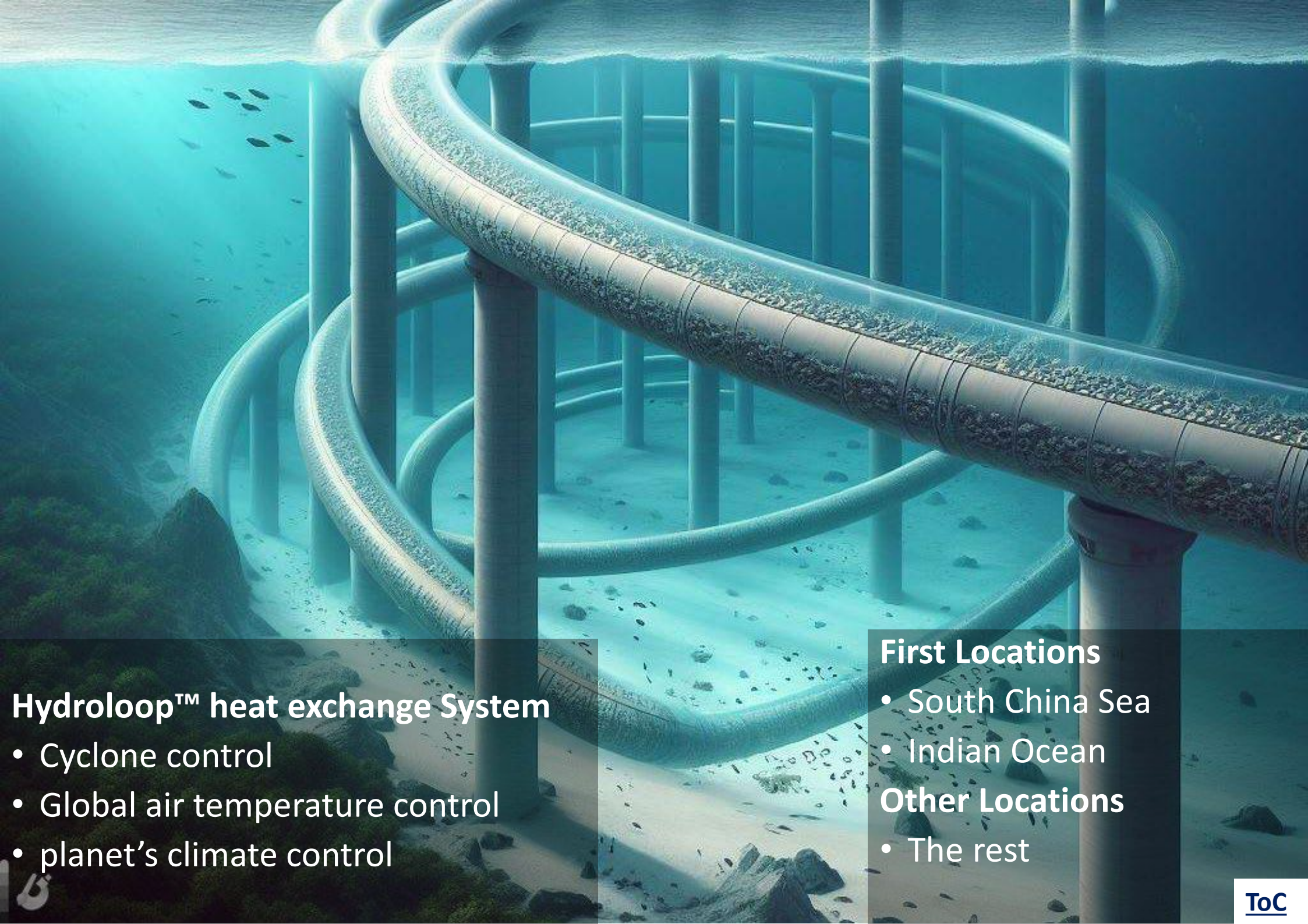
The Hydroloop™ System

- clean transportation system
- Move water 365 days / year globally
- Maximize water conservation
- Transporting people and goods
- Energy: gravity and kinetic
- can generate electricity at endpoint
- Sea level control (Type I)
- Global temperature control (Type I)
- Emergency freshwater storage
- Cataclysm prevention (Type I)



The Hydroloop™ System

- Ocean heat/coldness harness
- Power gain system
- Ocean and tubes with same pressure
- Emergency freshwater storage
- Exploit the entire Planet Energy (Type I)



Hydroloop™ heat exchange System

- Cyclone control
- Global air temperature control
- planet's climate control

First Locations

- South China Sea
- Indian Ocean

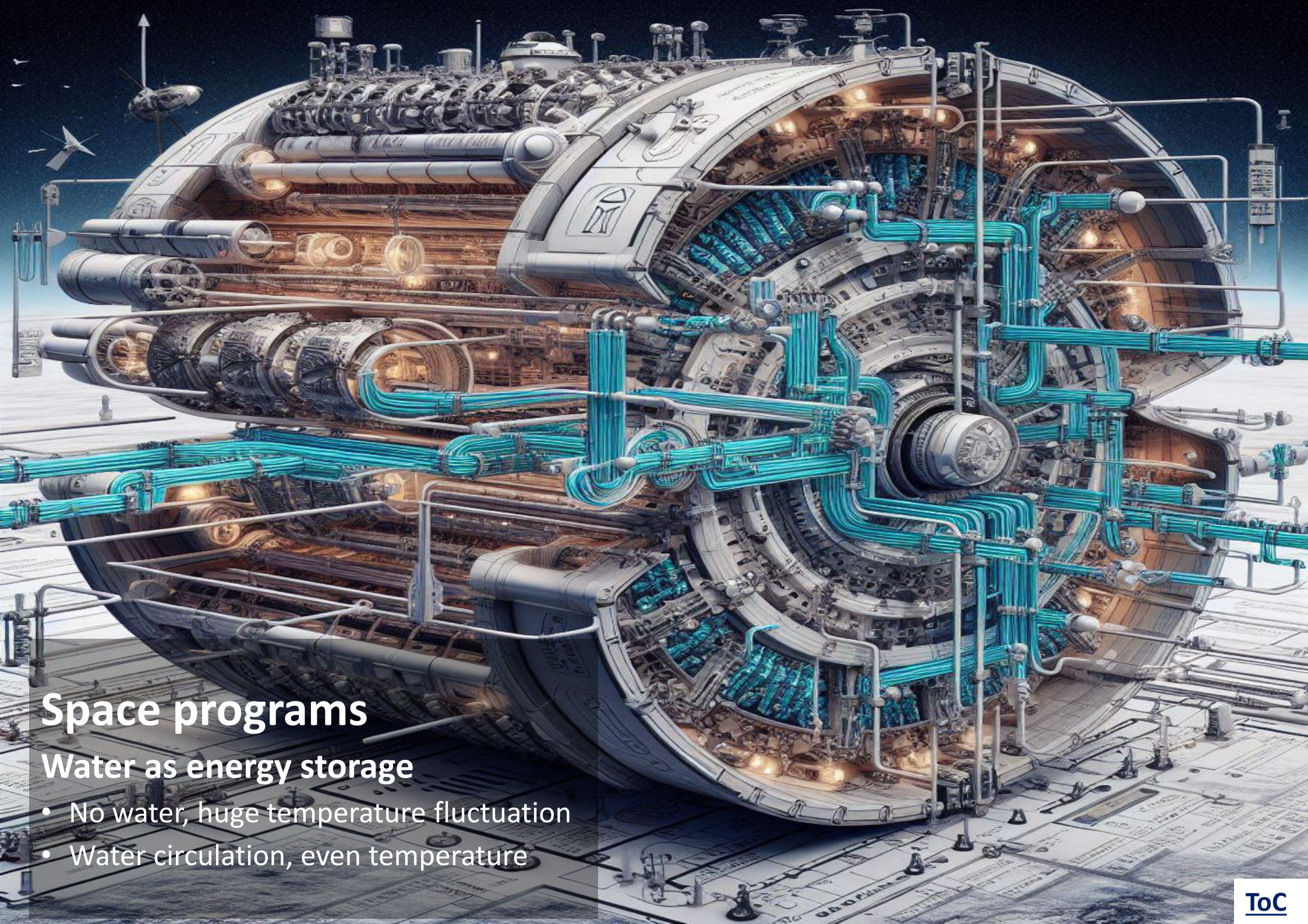
Other Locations

- The rest



The Hydroloop™ System

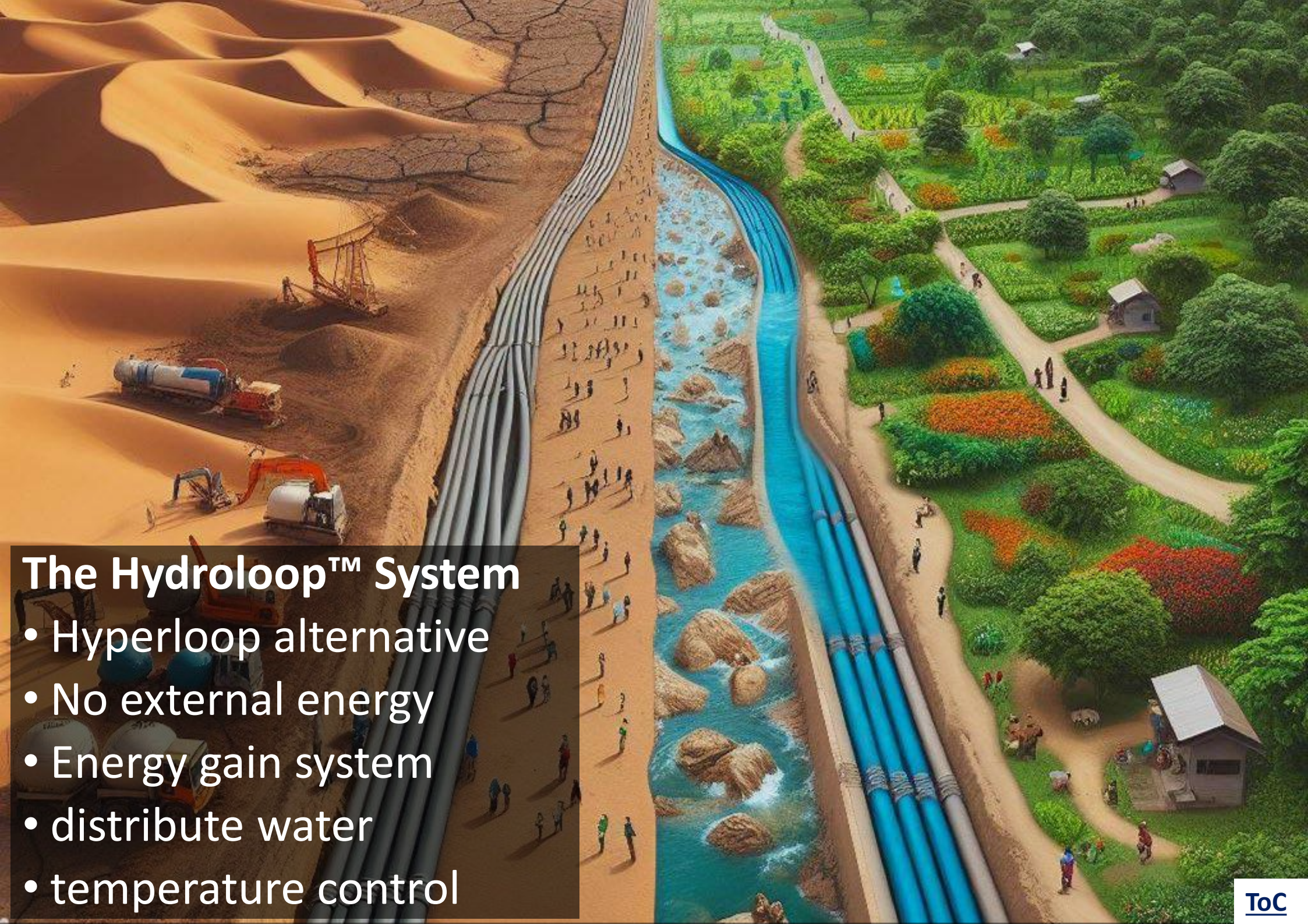
- Buried along the coastlines
- Water distribution 24/7 & emergency storage
- Heat/coldness transfer (climate regulator)
- Reduce A/C energy consumption
- Serve as coastal erosion protection and extend coastlines (using desert sand)



Space programs

Water as energy storage

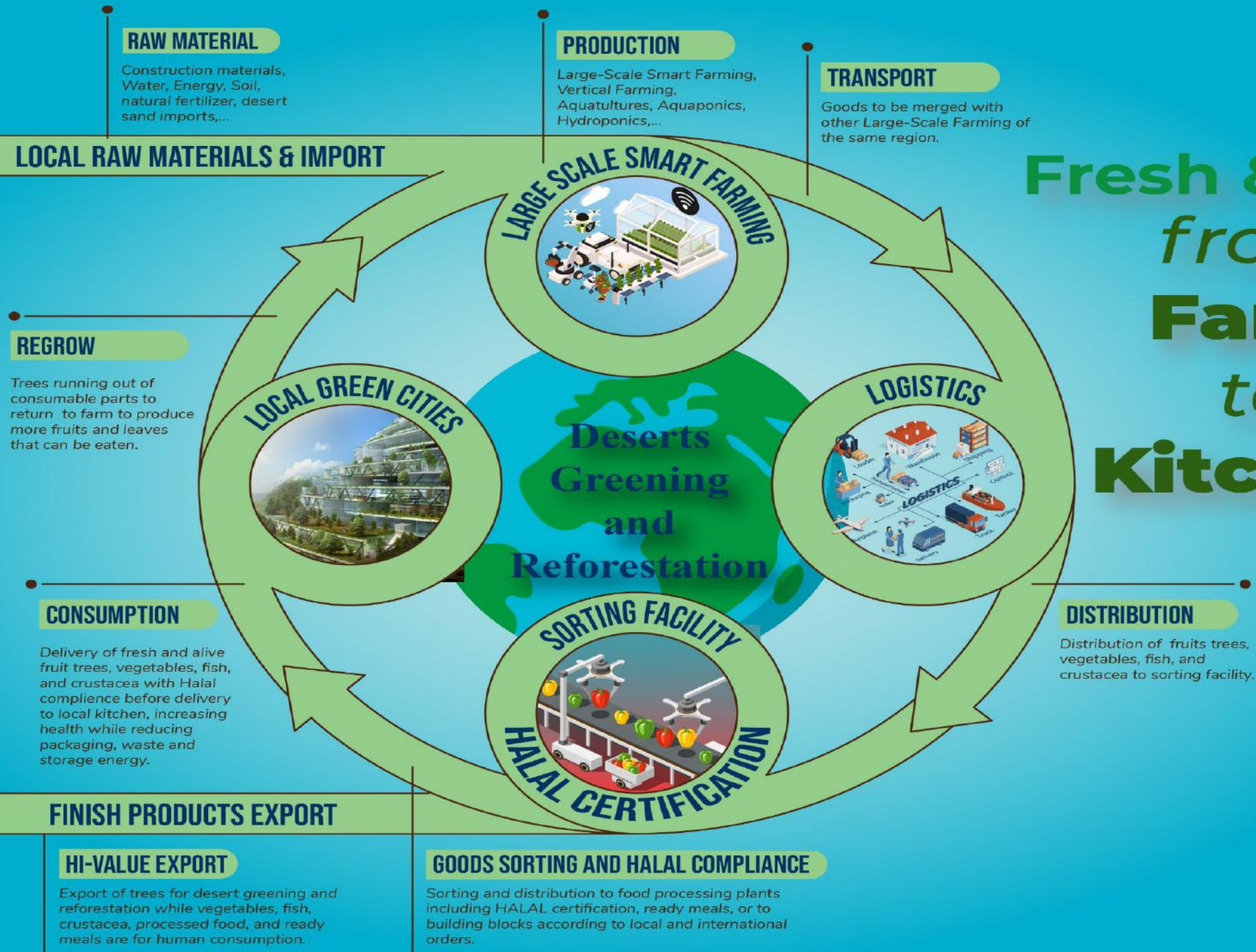
- No water, huge temperature fluctuation
- Water circulation, even temperature



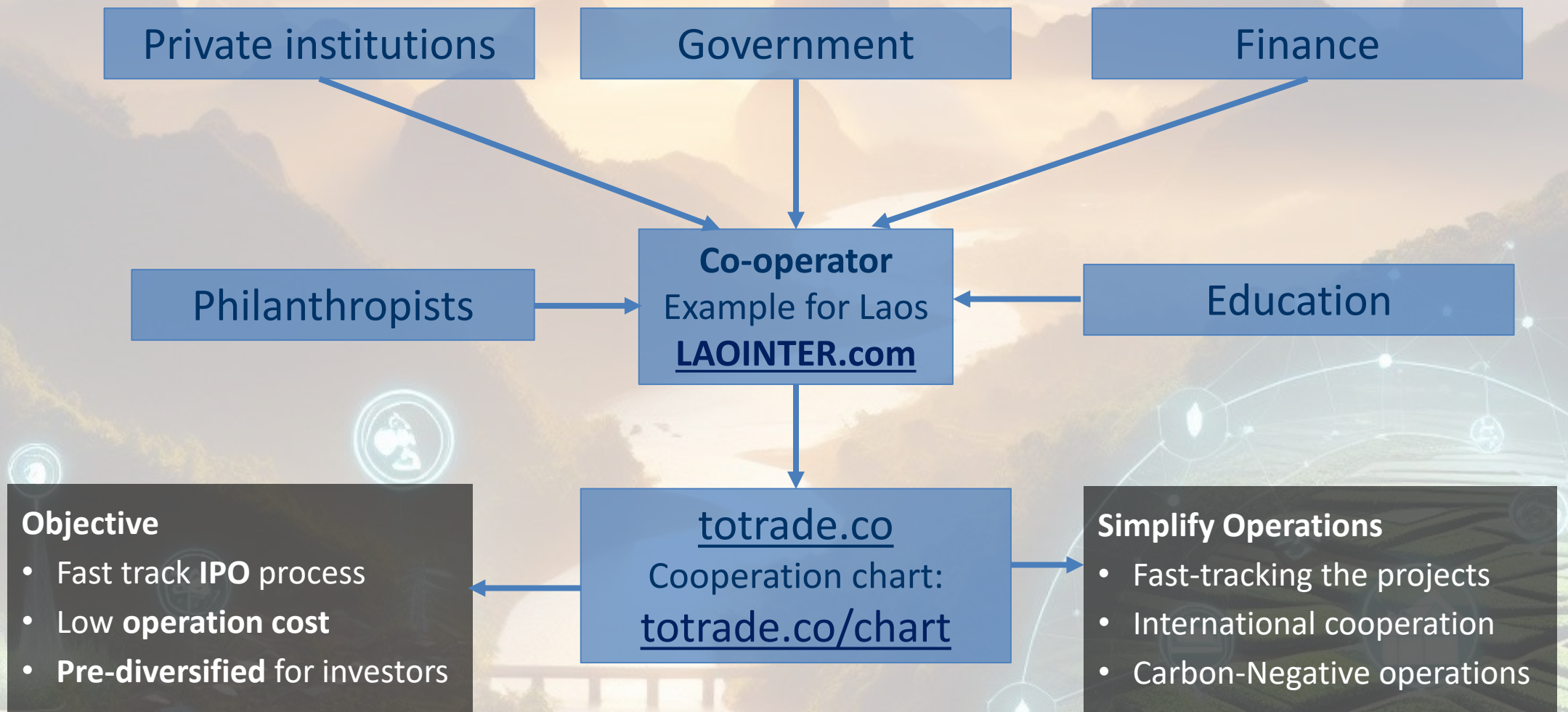
The Hydroloop™ System

- Hyperloop alternative
- No external energy
- Energy gain system
- distribute water
- temperature control

Fresh & alive from Farm to Kitchen



Enhanced multilateralism cooperation



TOTRADE, HYDROLOOP and Hydroloop represent the commercial identities of TOTRADE LTD. This company is globally registered under The Crown with the registration number 13431000. The official address of TOTRADE LTD is International House, 36-38 Cornhill, City Of London. Web: totrade.co

Hydroloop Prototype

By totrade.co





Water Recycling System

- For each Mekong tributary
- Recharged from PWC, more water
- More products, more GDP
- Cleaner water exits the system
- And many more benefits

With more and cleaner water available

- Ensure environmental and economic benefits
- Consistent supply increase trees, food, clean energy, and industrial productions, a benchmark for global water management.



Consistent
Water supply

Geothermal

Quickly scalable
Global
benchmark

Hydrogen
abundance

The Hydroloop™ System

- global water, electricity, & hydrogen supply
- Clean energy and transport system
- Quickly Scalable
- Benefit both environment and economy
- climate emergency mitigation
- Global benchmark

Quickly scalable Global Benchmark

- **It's not about economic advantages for ASEAN alone, but Global.**
- **It's about teamwork for Humanity Survival (Humanity's Last Hope) and Global Progress (Type I Civilization).**

The background of the slide is a 3D rendered image of industrial machinery. It features two large, circular, metallic-looking components in the foreground. The left component is labeled 'O2' and the right component is labeled 'H2' in large, 3D, metallic letters. Both components have a pressure gauge or sensor on their lower-left side. The machinery is connected by various pipes, valves, and bolts, all rendered in a clean, futuristic style with a color palette of blues, greys, and metallic tones.

Hydrogen & Oxygen affordability

- Global hydrogen & Oxygen supply
- Benefit both environment and economy
- climate emergency mitigation
- Quickly Scalable Global benchmark
- Cheap supply for Space Programs

Quickly scalable Global Benchmark

- **Large-Scale Space Program is within Reach**
- **Humanity's Last Hope Initiative**
- **and Progress toward Type I Civilization**

Documents/Links

Web: totrade.co

This file: [PowerPoint](#), [PDF](#)

PDF: [China Housing One billion people](#)

PDF: [LAO PDR FDI Protocol](#)

Global issues:

Climate Emergency: totrade.co/climate

History of cataclysm: totrade.co/cataclysm

Laws of the Universe: totrade.co/laws

White Paper: totrade.co/paper

Global Solution:

totrade.co/solution, totrade.co/solpdf

Solution PowerPoint: totrade.co/pwp

Space by 2050: totrade.co/spaceby50

Communication: totrade.co/solcom

To Join us: totrade.co/form

Using SharePoint: totrade.co/sharepoint

By Teams: totrade.co/chart

Partners

China Belt and Road Initiatives (BRI), [English](#), [German](#).

Cataclysms classified

[CIA declassified history of Cataclysm:](#)

[Sanitized](#), [video](#), Original: totrade.co/cataclysm

Company

[Company Official Records](#)

[POA: Totrade Legal to :man](#)

[Trademarks](#)

Directors CV

PDF: [Thone](#)

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team@365.totrade.co

ToC

Team Workshop: MS365 datacenter

365.totrade.co for Enterprises, Government, financiers, investors...

Carbon Negative System Teams in action across ASEAN for
“**Humanity’s Last Hope**” initiative with a swift progress towards a Type I Civilization:

AGRI: Agriculture, [Team](#), agri@totrade.co*

AHF: Animal Husbandry and Fisheries, [Team](#), ahf@365.totrade.co.

FOR: Forestry for global Reforestation, [Team](#), for@365.totrade.co.

FIP: Financial Investment and Procurement, [Team](#), fip@365.totrade.co.

ICC: International Cooperation & Collaboration, [Team](#), icc@365.totrade.co.

IEC: Irrigation, electricity, clean transport, [Team](#), iec@365.totrade.co.

IPO: International Trading, IPO, [Team](#), ipo@365.totrade.co.

ITC: Information Technology (for Operators Team), [Team](#), itc@365.totrade.co.

LMD: Land Management & Development, [Team](#), imd@365.totrade.co.

PIC: Projects Inventory & Catalogues, [Team](#), pic@365.totrade.co.

RDSS: Research and Development, Scientific Studies, [Team](#), rdss@365.totrade.co.

RDC: Rural Development and Cooperatives, [Team](#), rdc@365.totrade.co.

TPP: Technical Promotion and Processing, [Team](#), tpp@365.totrade.co.

*Email sent to team will
be forwarded to
members.