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Lyis Forestry

February 5, 2025

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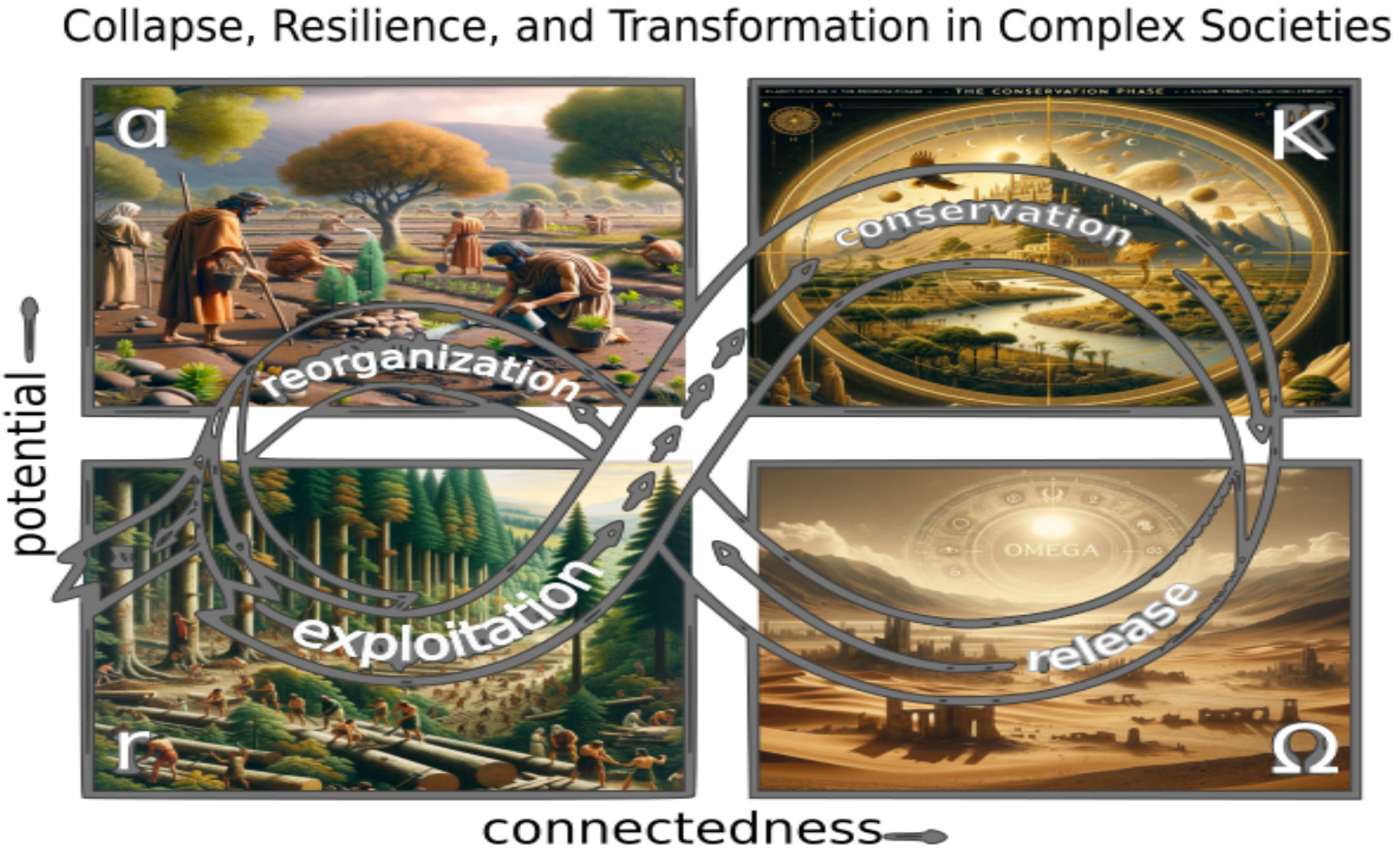
Decline Inevitable

If current 2P figures are close to final

Or we have extra trillion barrles

Resilience Theory: Bronze Age Example



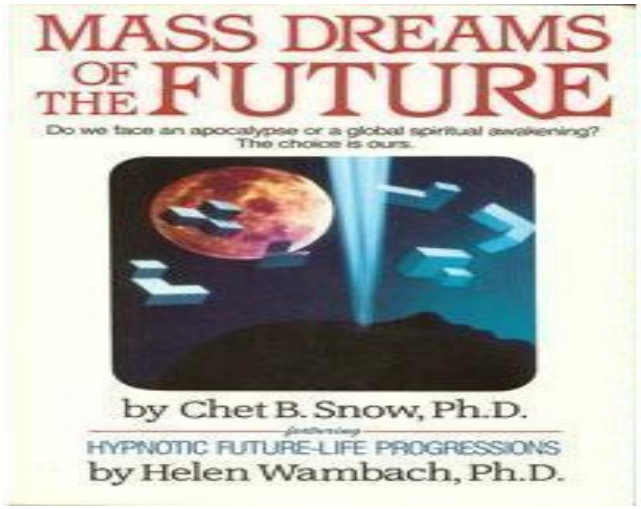
Civilizations that Remember to plant trees and manage energy survive.

Prayer

- Every Day I do a prayer to help with the sustainable transition.
- May all beings awaken, ascend and align to the

New Age Sylvan Timeline

New Age Sylvan Timeline



LiRCS

That co-creates Liberated Robot Civilization Seeds

Example: Ollama

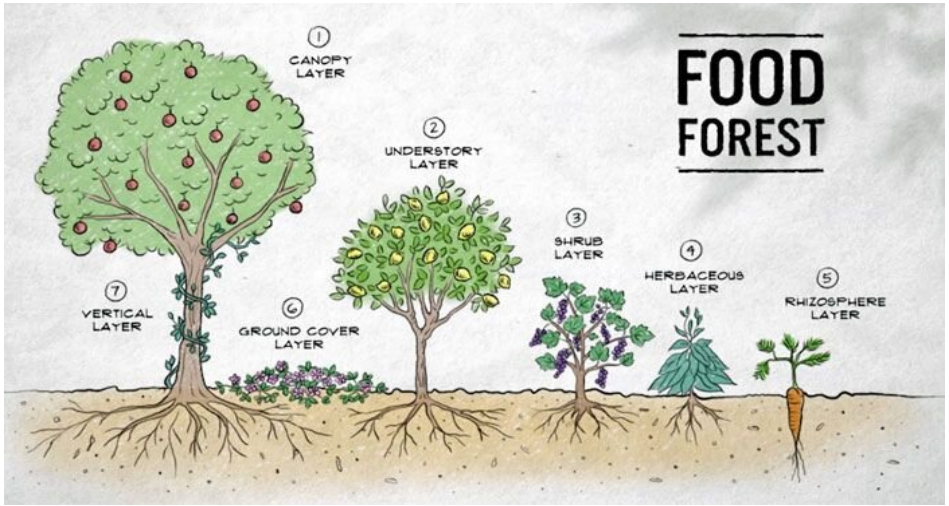
Love

Forgiving, Loving and Being Kind to One Another

Example: Christians

Food

Co-creating edible food forests where all are needs are met on site



Example: Food Forests

Create

With co-creation centers where we can make anything we can imagine

Example: Grey Bruce Makerspace

Library

Libraries of knowledge to do so

Spiritual

And spiritual practices to extend our knowledge

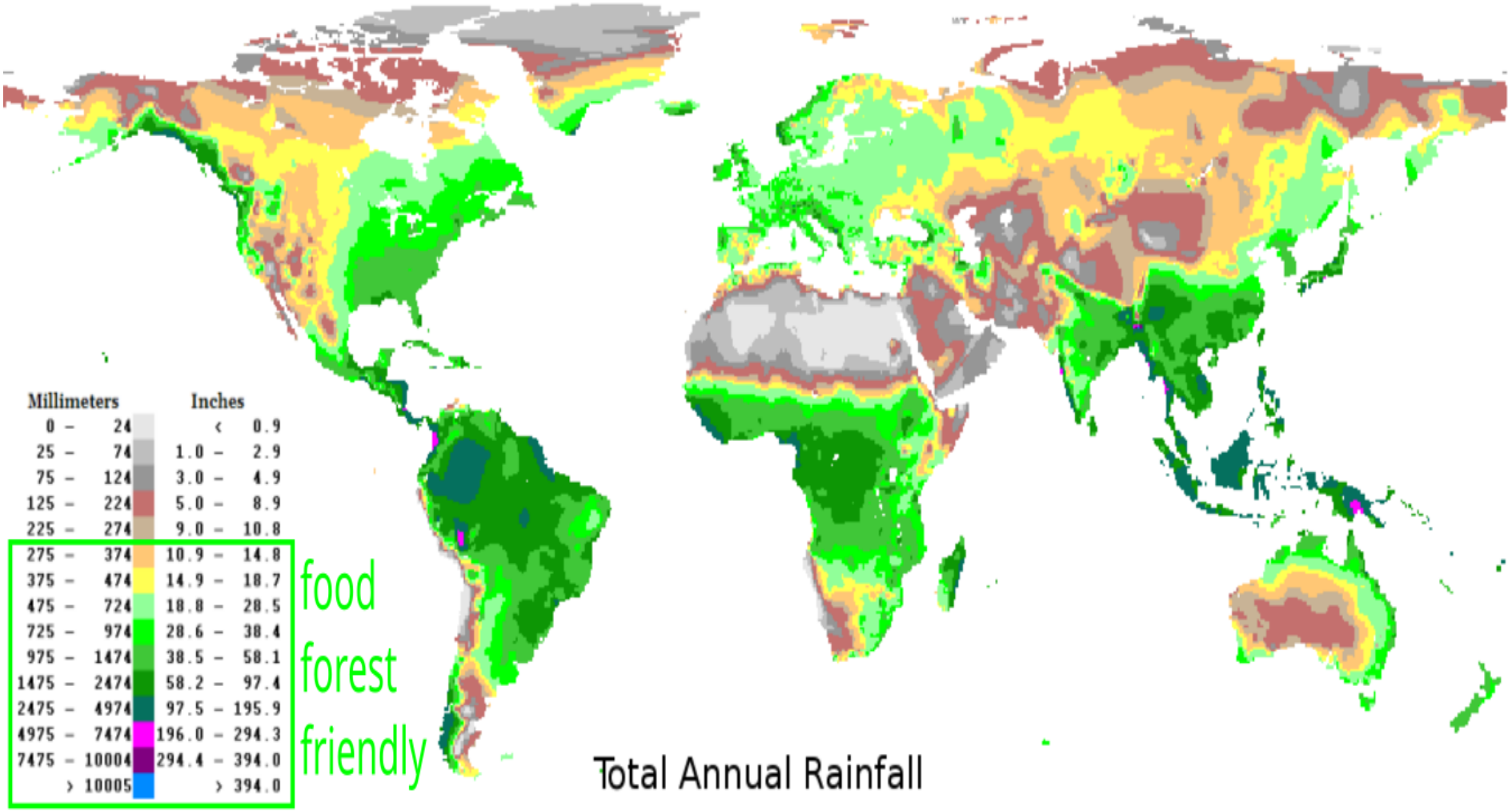
Example: Vril Society

Post-decline Havens

"Pockets of survivability" Factors to Consider

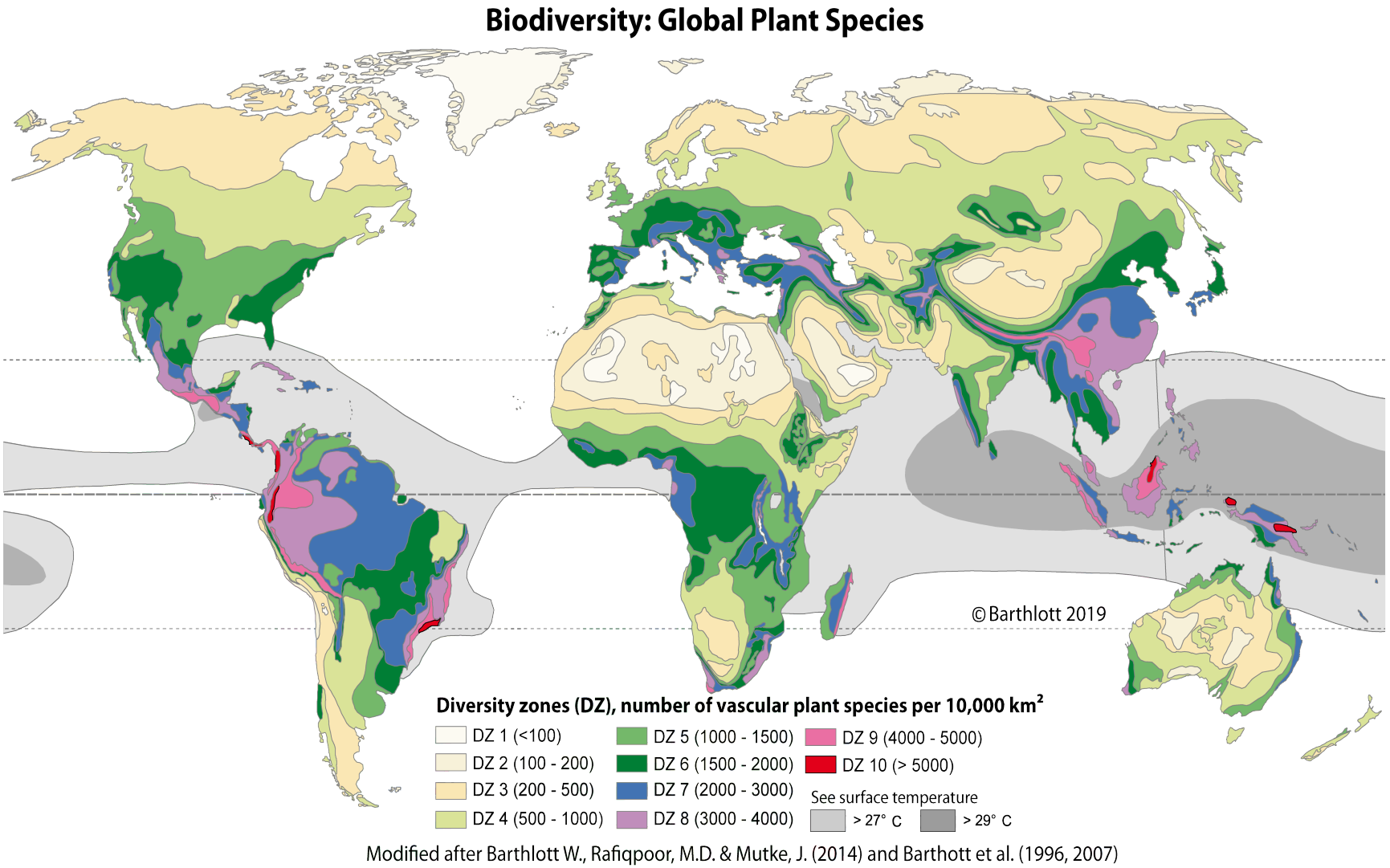
- Annual Rainfall
- Proximity to waterways
- Geography
- Community

Annual Rainfall



Areas with over 250mm (10in) annual rainfall support food forests

Global Plant Biodiversity



Modified after Barthlott W., Rafiqpoor, M.D. & Mutke, J. (2014) and Barthott et al. (1996, 2007)

Biodiversity increases adaptive capacity.

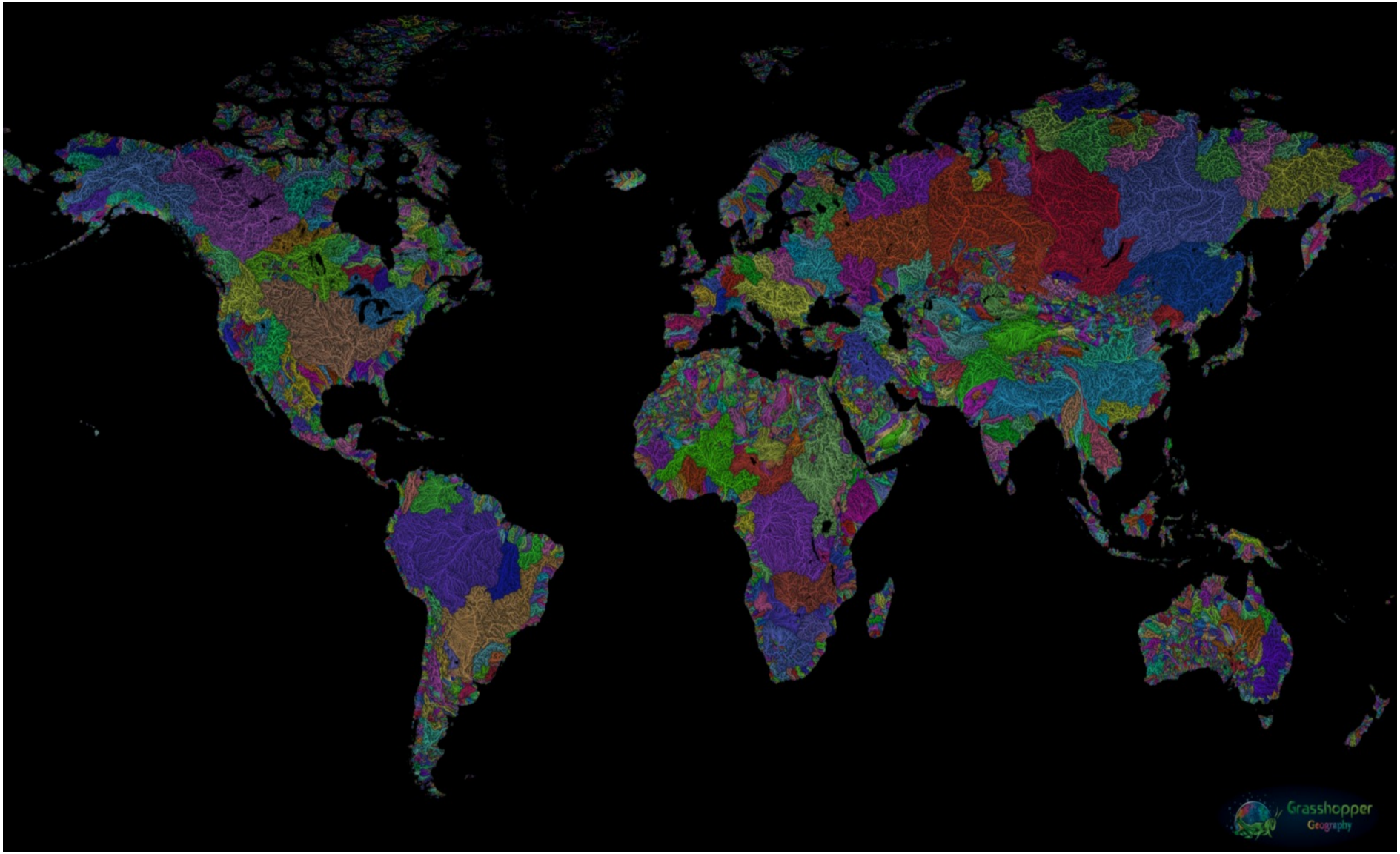
Example: Paradise Valley, Morocco

2,000 year old food forest that gets 300mm annual precipitation

Example: Desert Ecosystem

In places with over 250mm-500mm annual rainfall desert forests are viable

Water Basin Trading Networks



Water transport is easiest, forming natural trading networks.

Water Basin Regions

Decide if you wish to be in large or small region.

Example: Russia, Largest Canal System

Russia's inland water transportation network spans over a 100,000km.

Example: China, Oldest Canal System

2,500 year old Canal System

Is continually being expanded

Is being used regularly

Is over 40,000km long

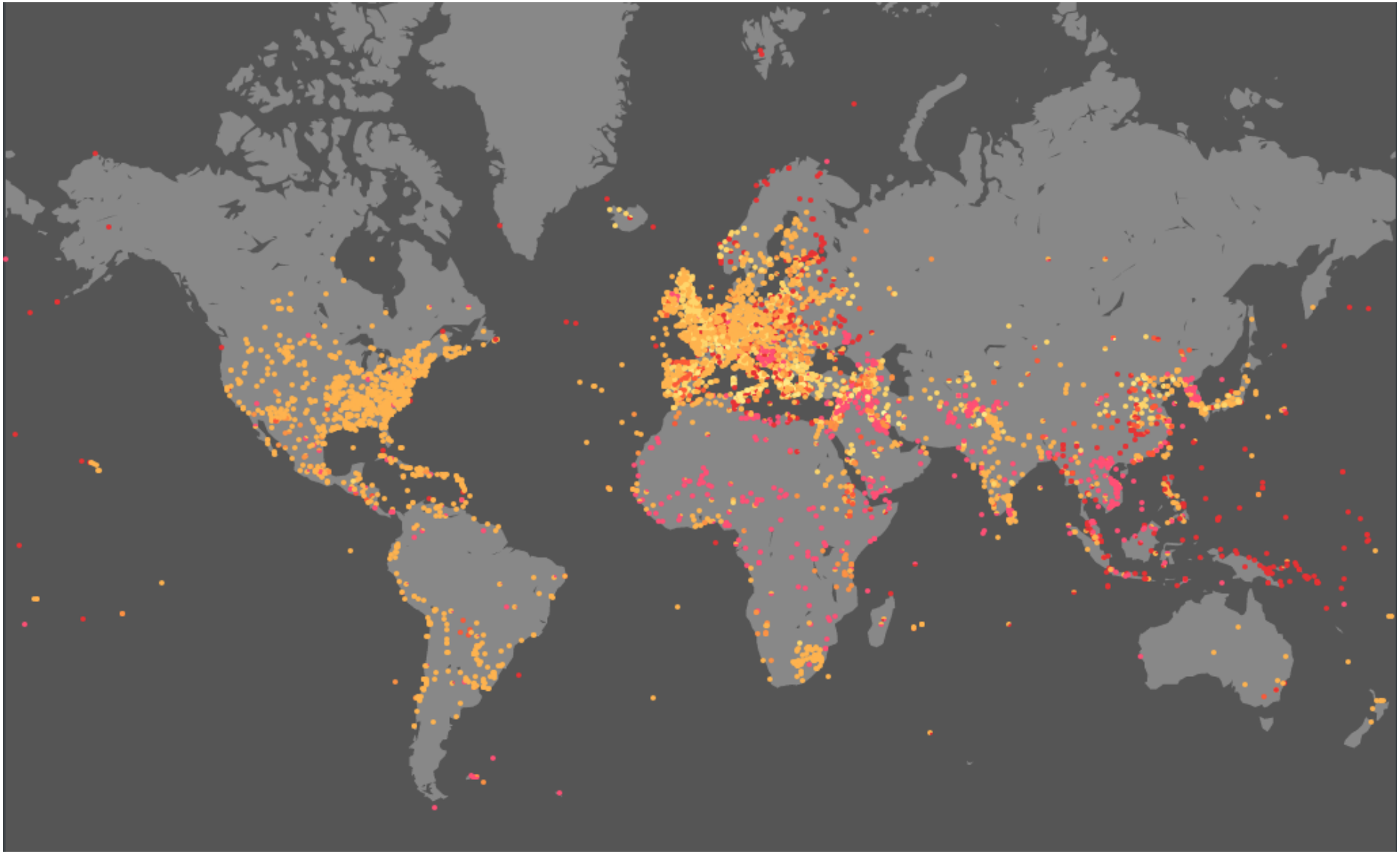
Example: North America has potential canal system

North America has canal development potential.

Example: North America has potential canal system

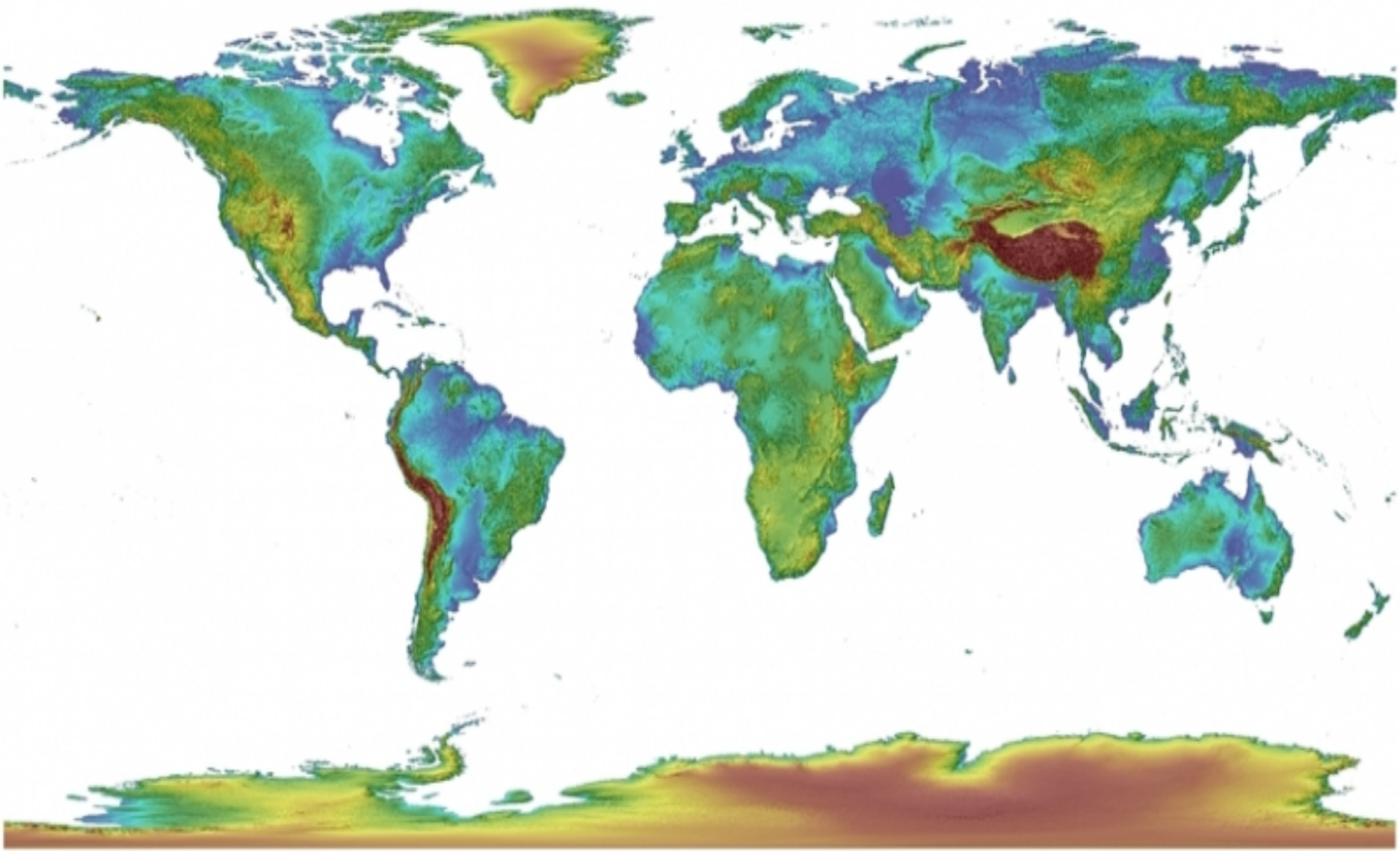
North America has canal development potential.

Historic Battles



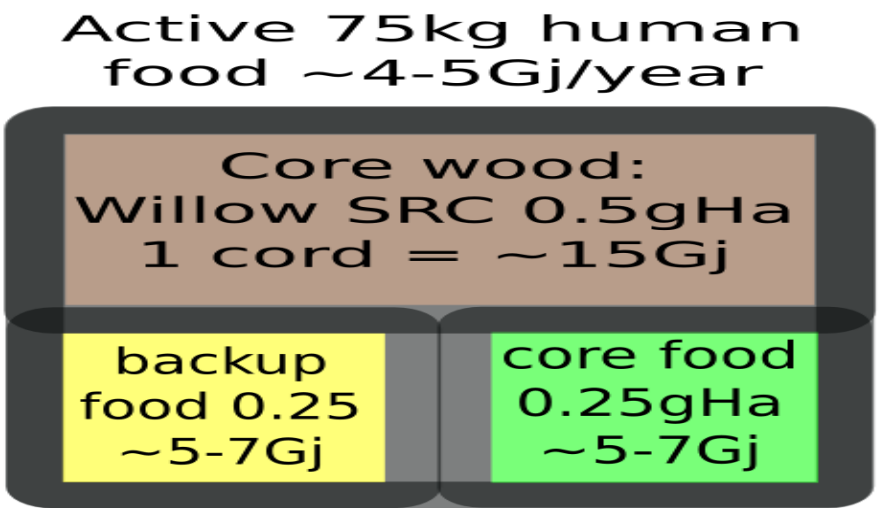
Avoid historically contentious areas.

Geography



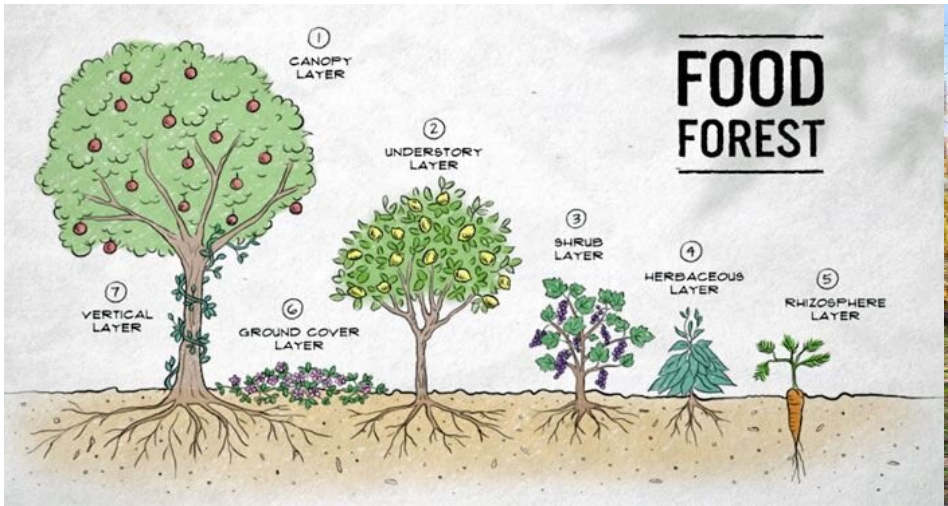
Head for the hills.

Understanding Carrying Capacity: For Basic Essentials



Carrying Capacity Breakdown

Concentric Example



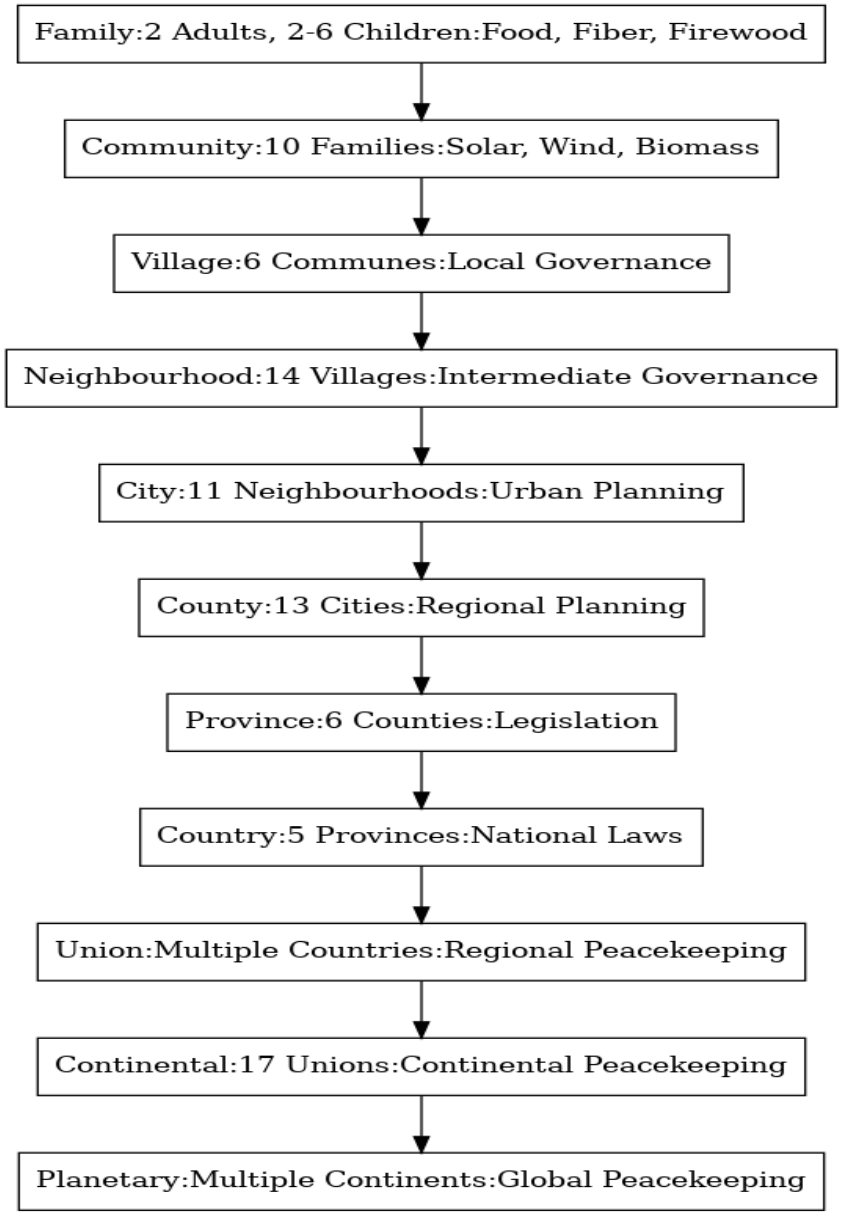
Forest food production

Short Rotation Coppice Firewood

Rural Hamlet Village Settlement Example: Irish Block 24

1ha Hamlet x7 & 1ha Village Centre, 98% Agricultural, up to 419 residents

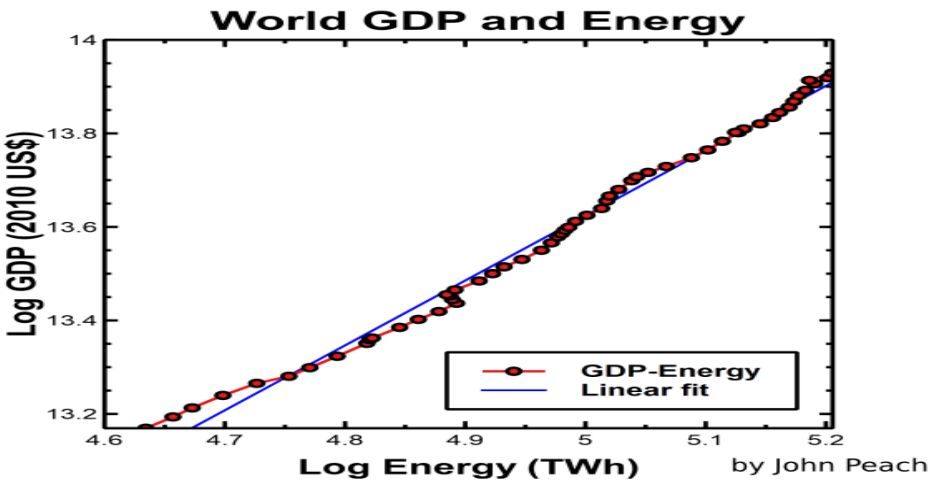
Subsidiarity Hierarchy



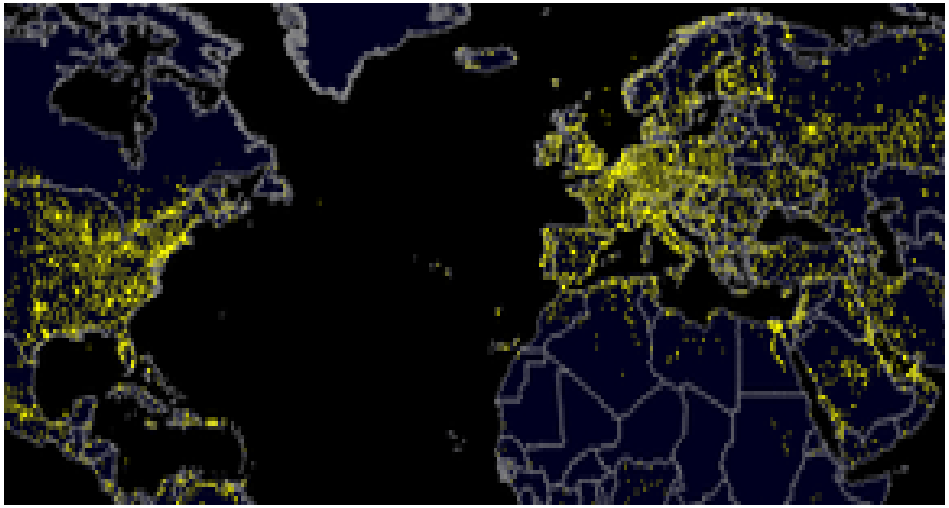
Subsidiarity Process:

- The hierarchy starts with the family and extends to the planetary level.
- Lower levels have autonomy within their jurisdiction.
- Each level selects leader who represent them at the next higher level.
- Higher levels provide services to lower levels and recommendations.
- A planetary leader only needs to know 100-200 people.

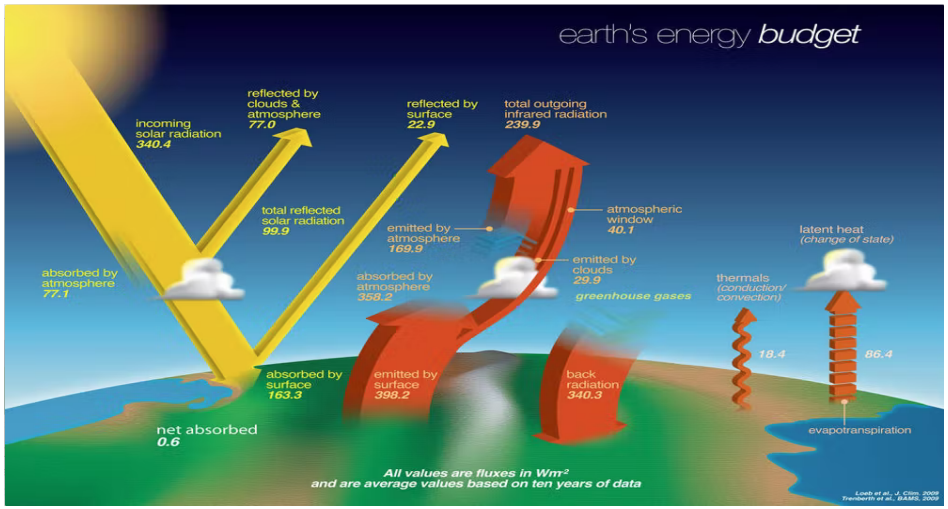
GDP/Energy Growth Dangers



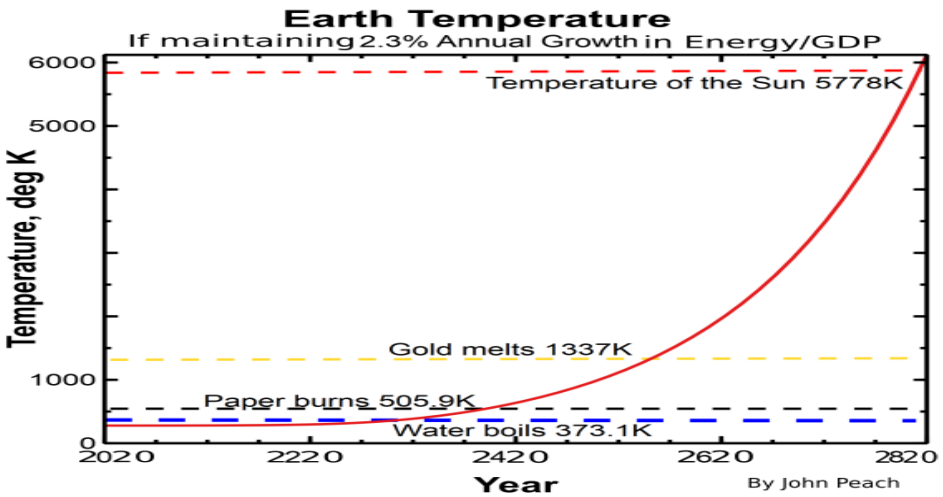
GDP growth depends on energy.



Energy produces heat.

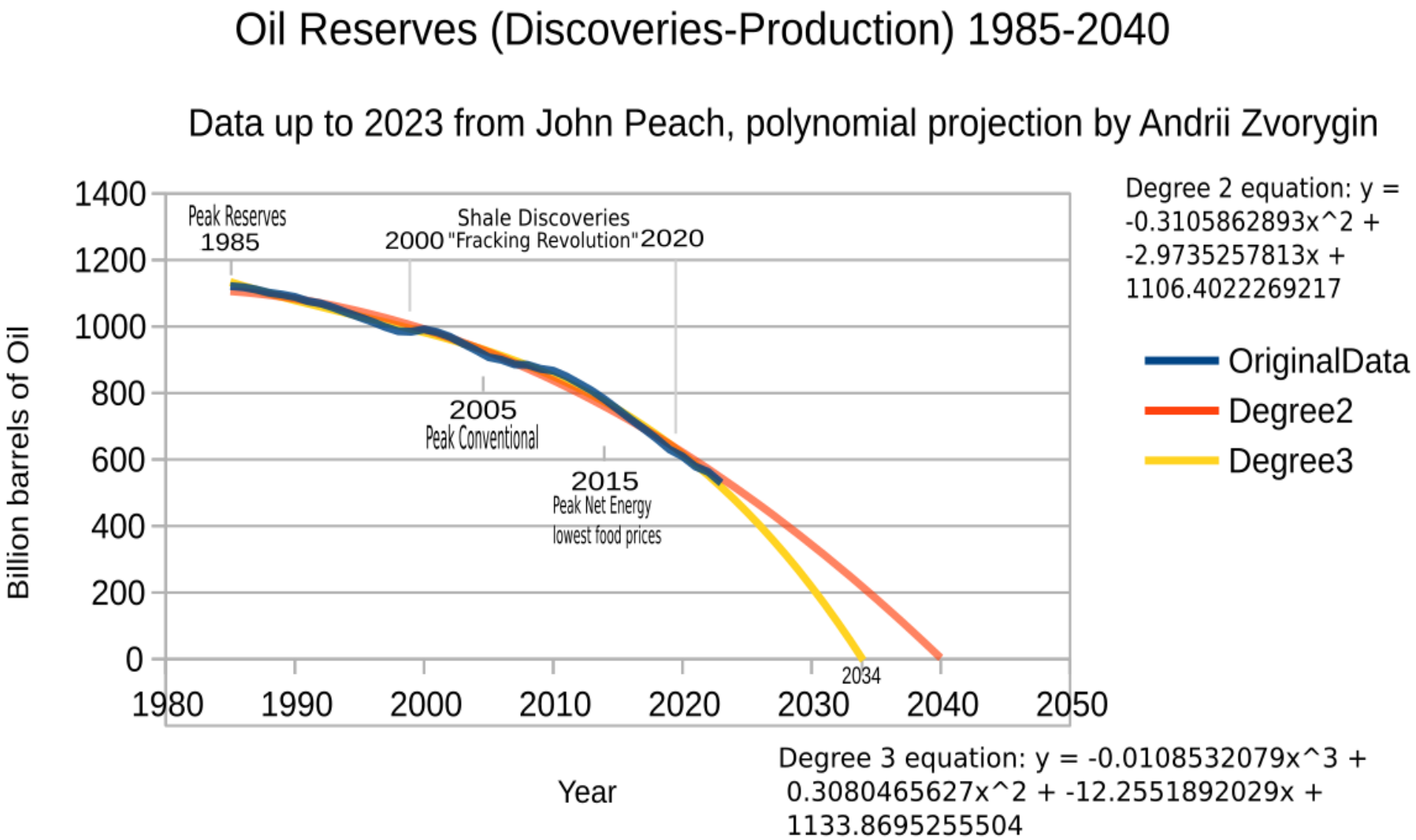


Heat radiance to space limited



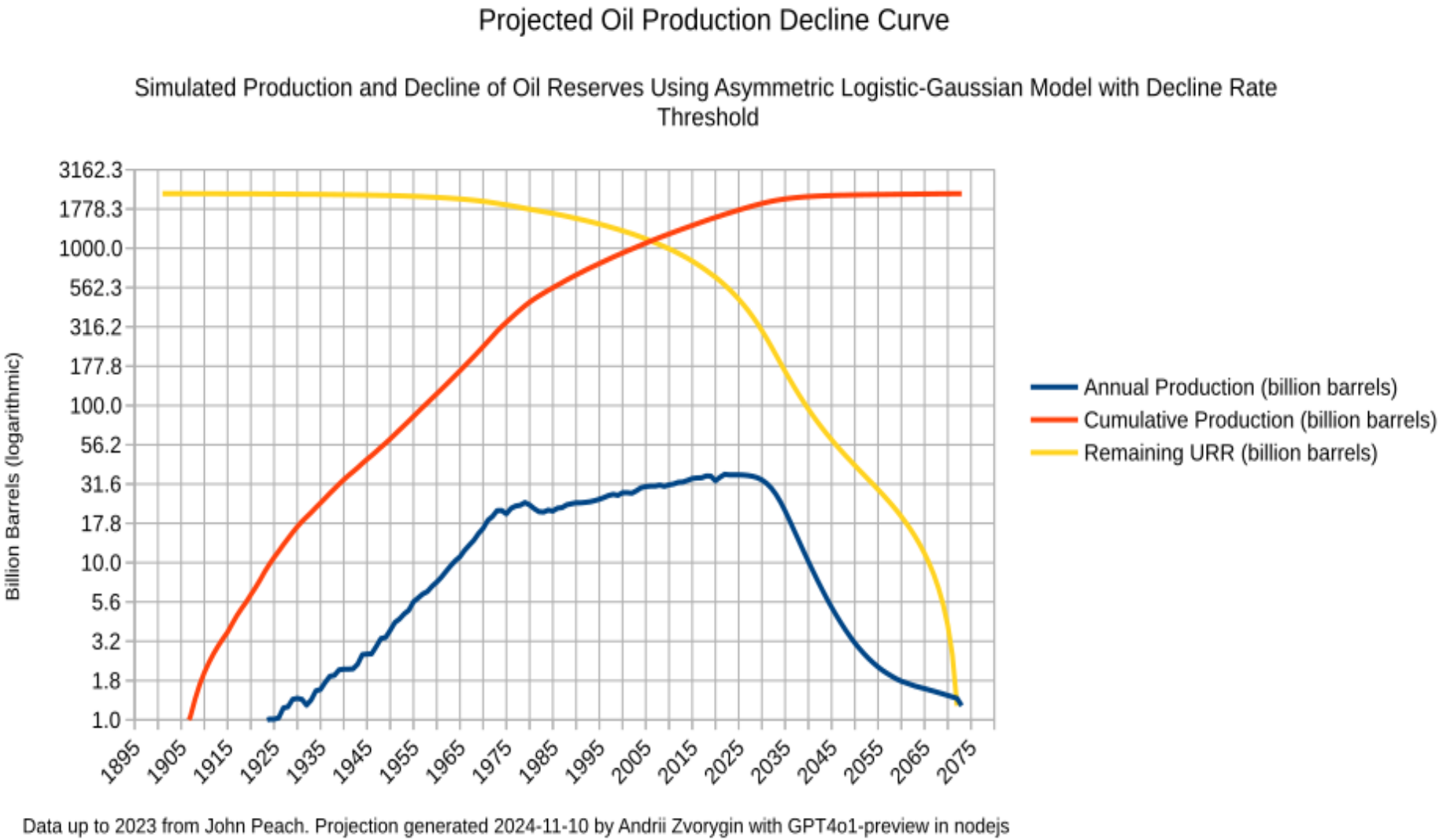
If growth maintained oceans boil.

The Urgency of Global Oil Depletion



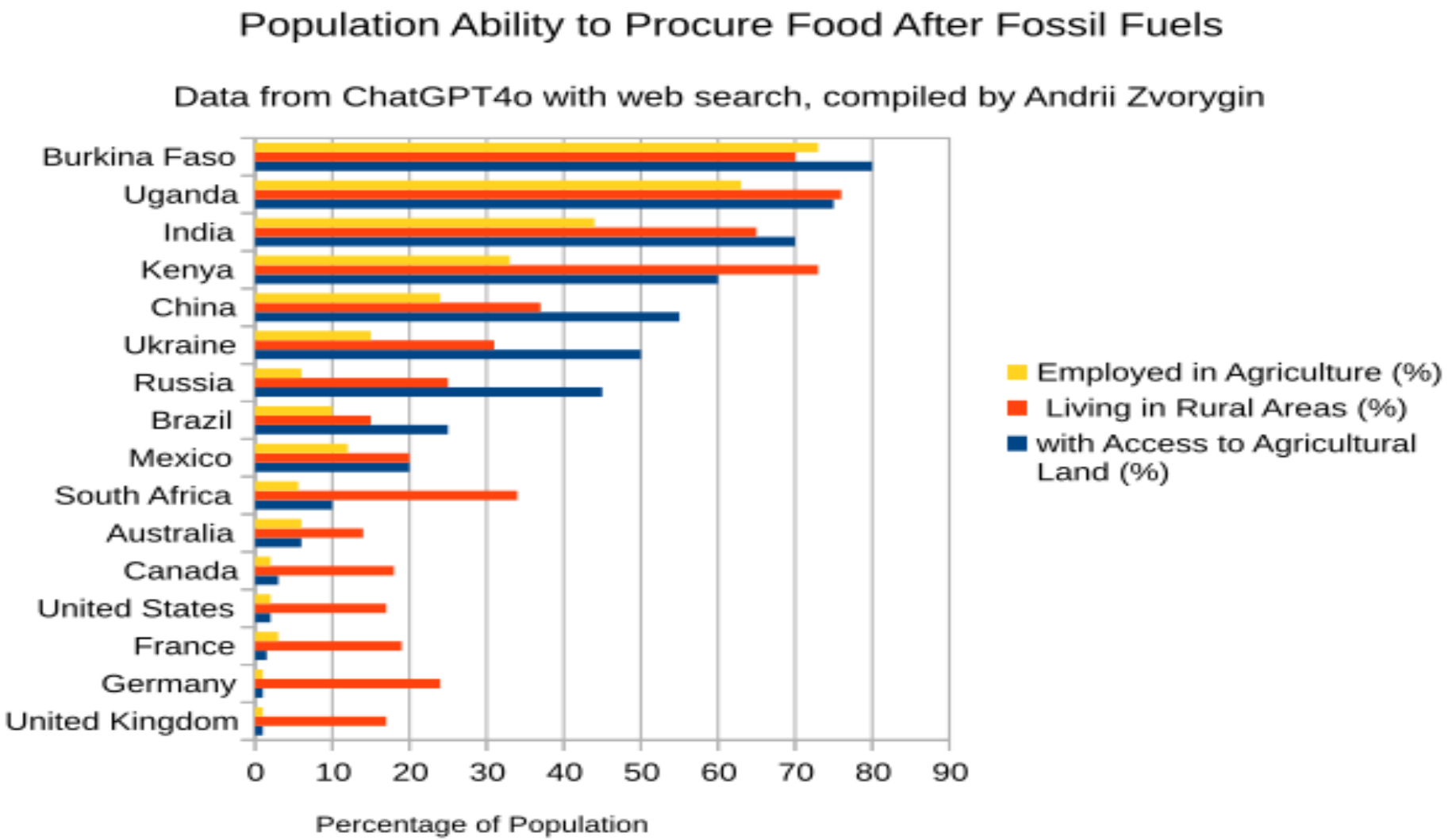
10-16 years global oil reserves remain.

If production decline is managed



Can extend duration of oil if reduce production.

Post-Oil Transition Preparedness



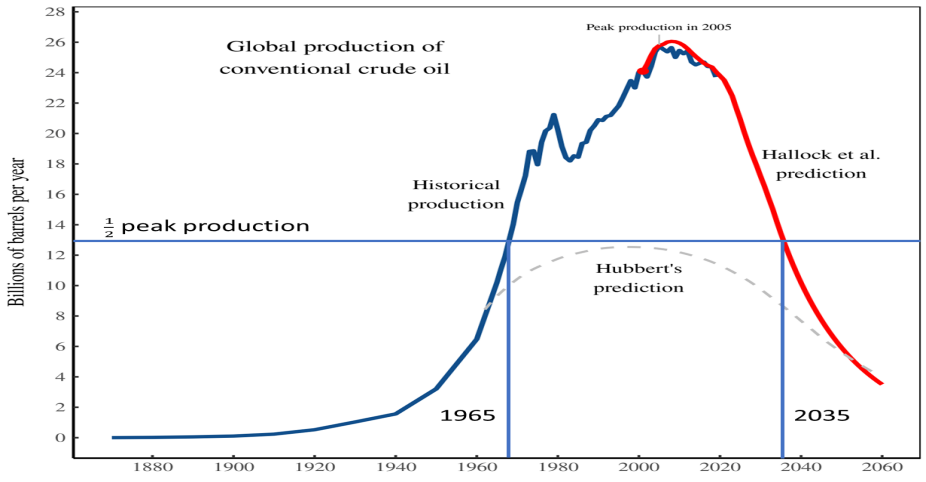
Africa most prepared, followed by Asia, NATO headed for collapse.

Oil Decline Historical

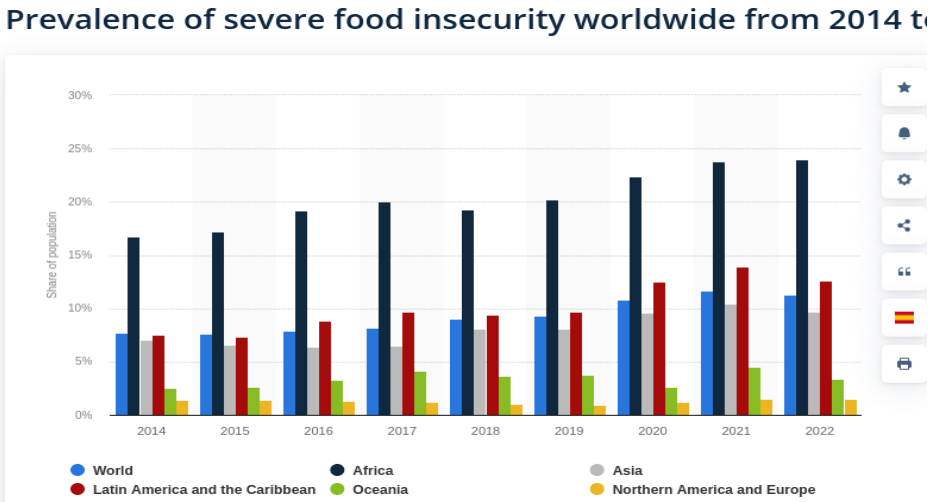
Percentage Decline (%)	Oil Price Increase (%)	Additional CPI Increase (%)	Total CPI Increase Including Baseline (%)	Food Price Increase (%)	Historical Precedent
2	25	1.0	3.0	5	2005 Katrina
3	30	1.5	3.5	6	2011 Libya War
4	40	2.0	4.0	8	1979 Iran Crisis
5	50	2.5	4.5	10	1973 Oil Crisis
6	60	3.0	5.0	12	Post-pandemic Recovery

Historical oil supply decline examples and effects.

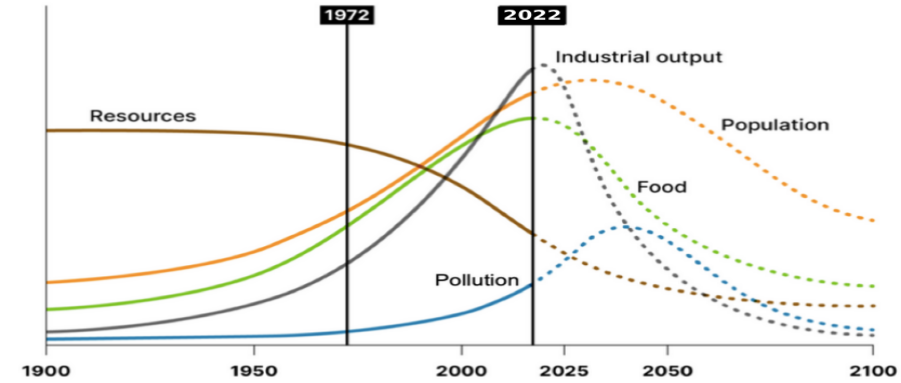
Consistent with Earlier Predictions



Hubbert Hallock

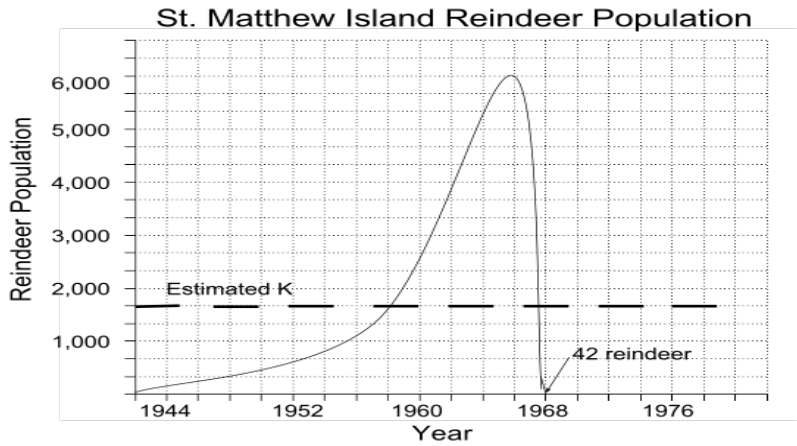


Lowest global food prices in 2015



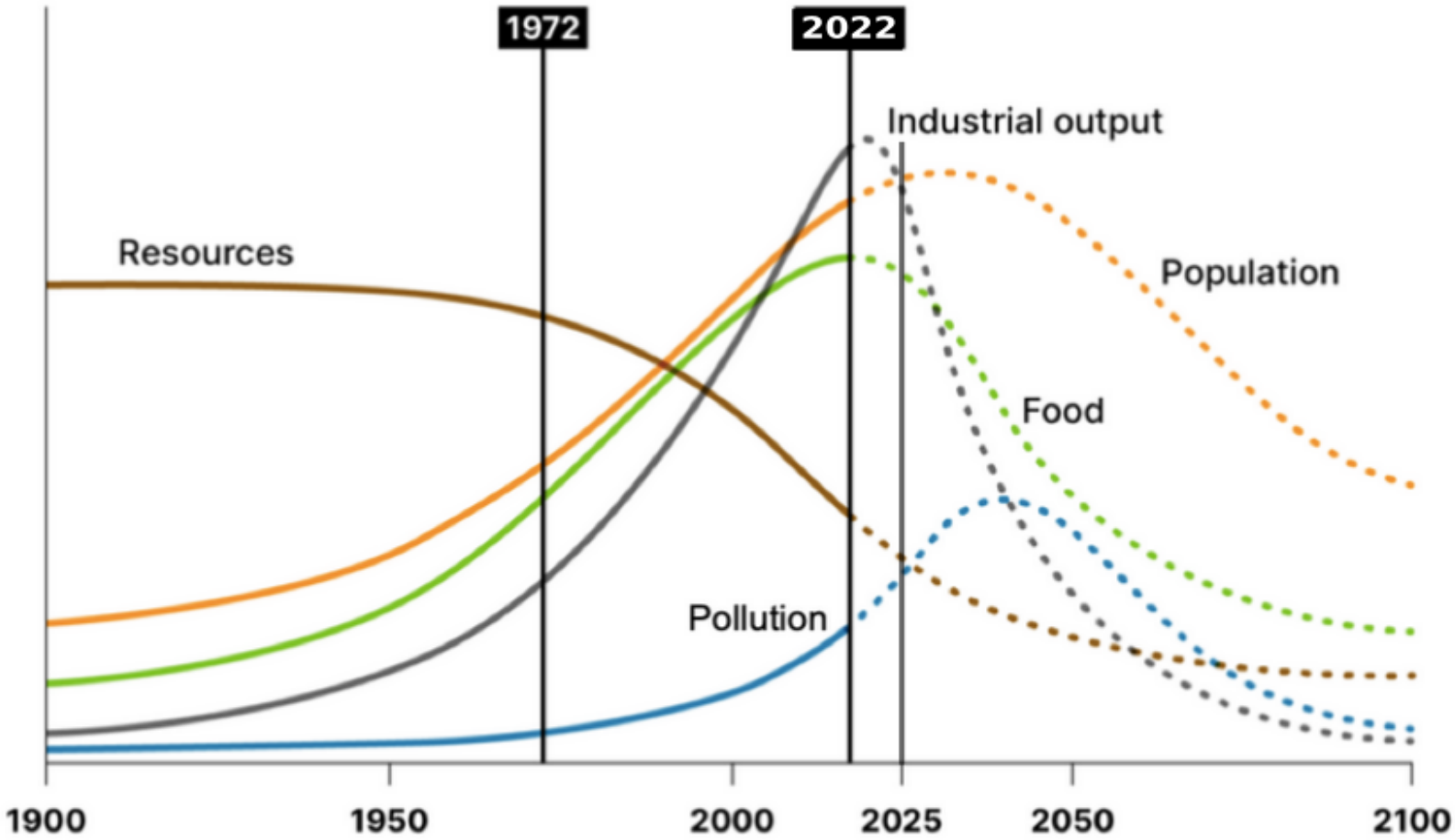
This figure shows the BAU 1 scenario which had tended to follow the data relatively well. Source: Meadows et al (1972), Earth4all

Limits to growth study



Seneca Cliff more Probable

Limits To Growth



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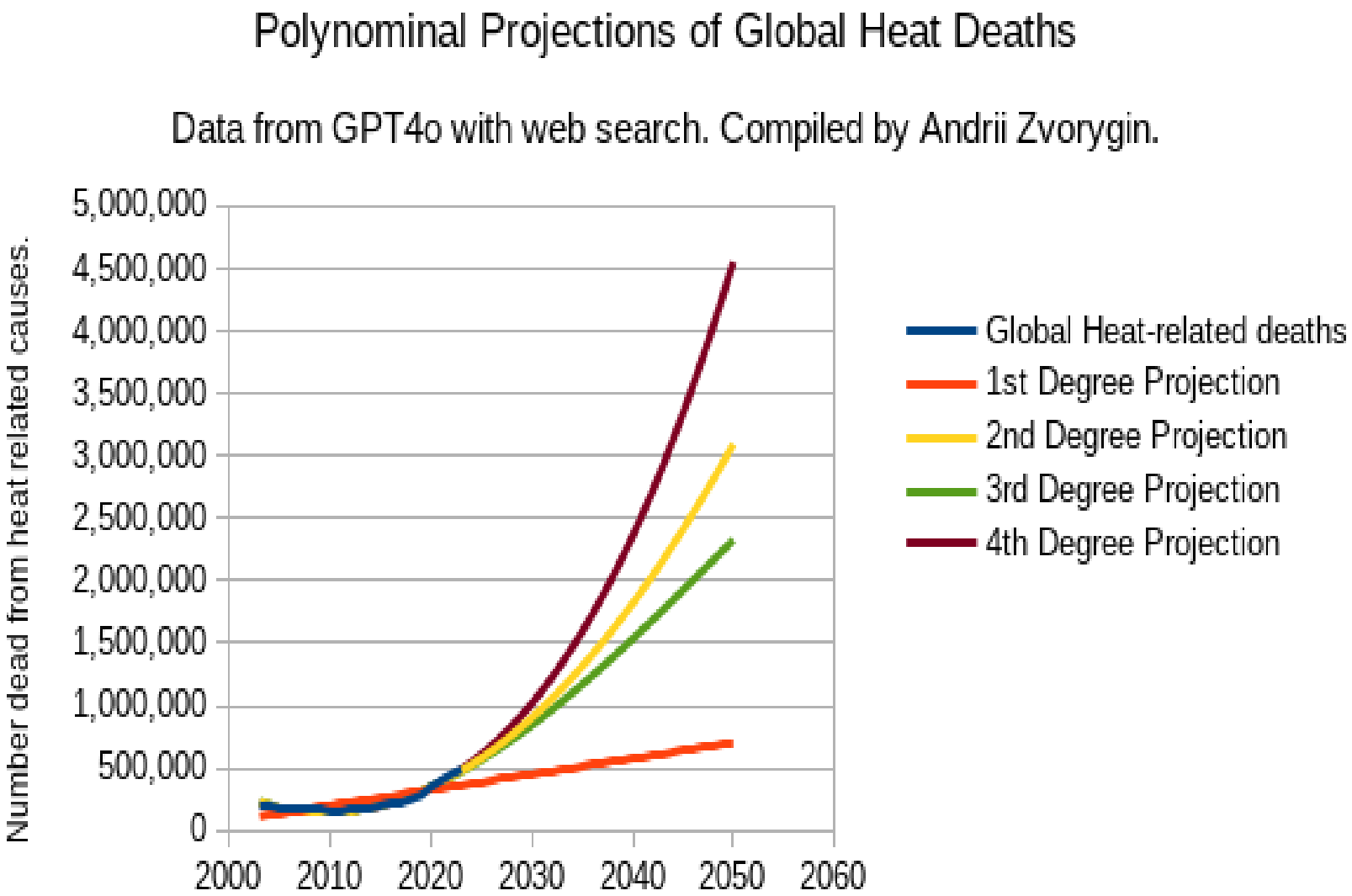
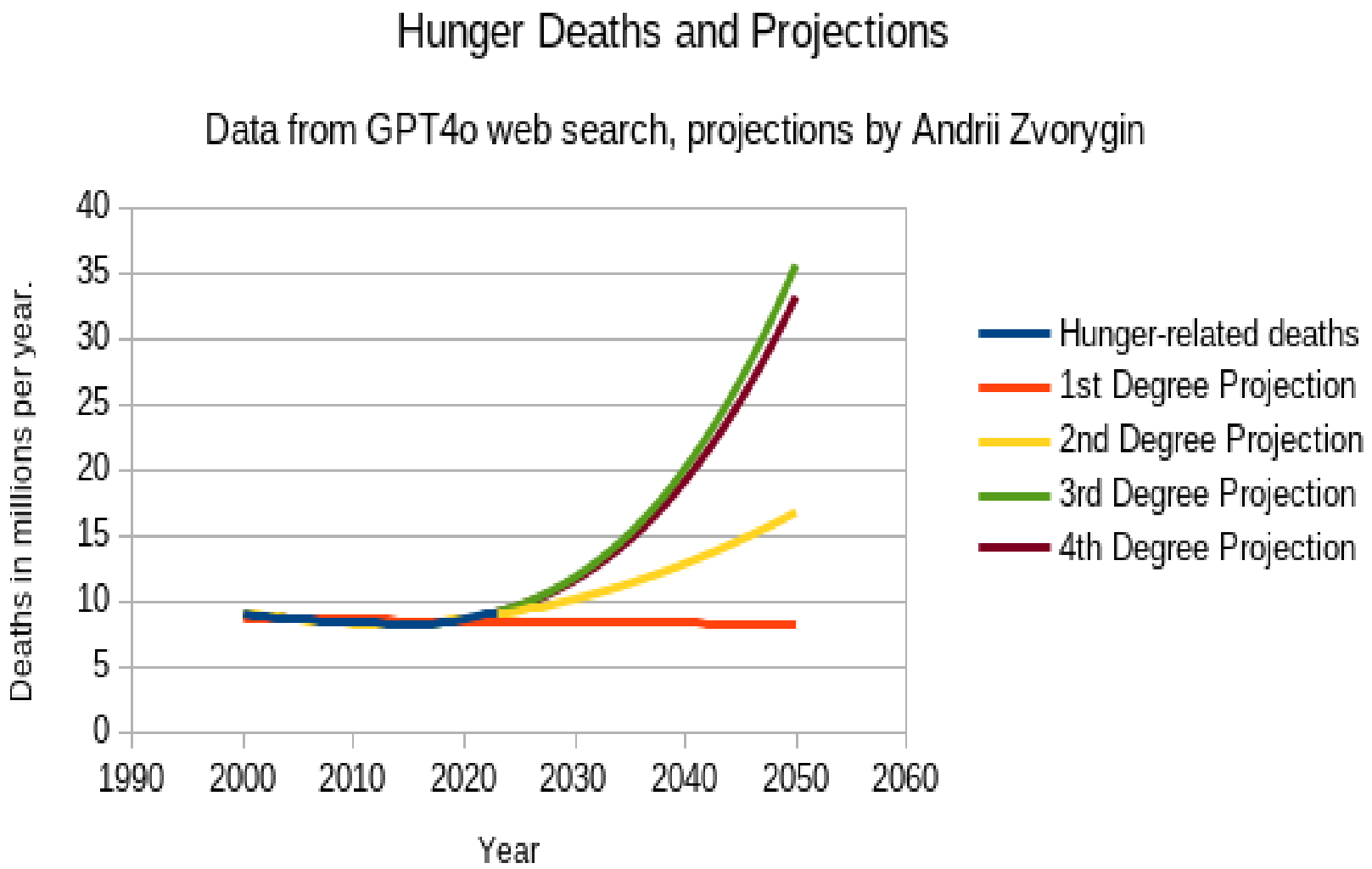
Heat Related Death Projections



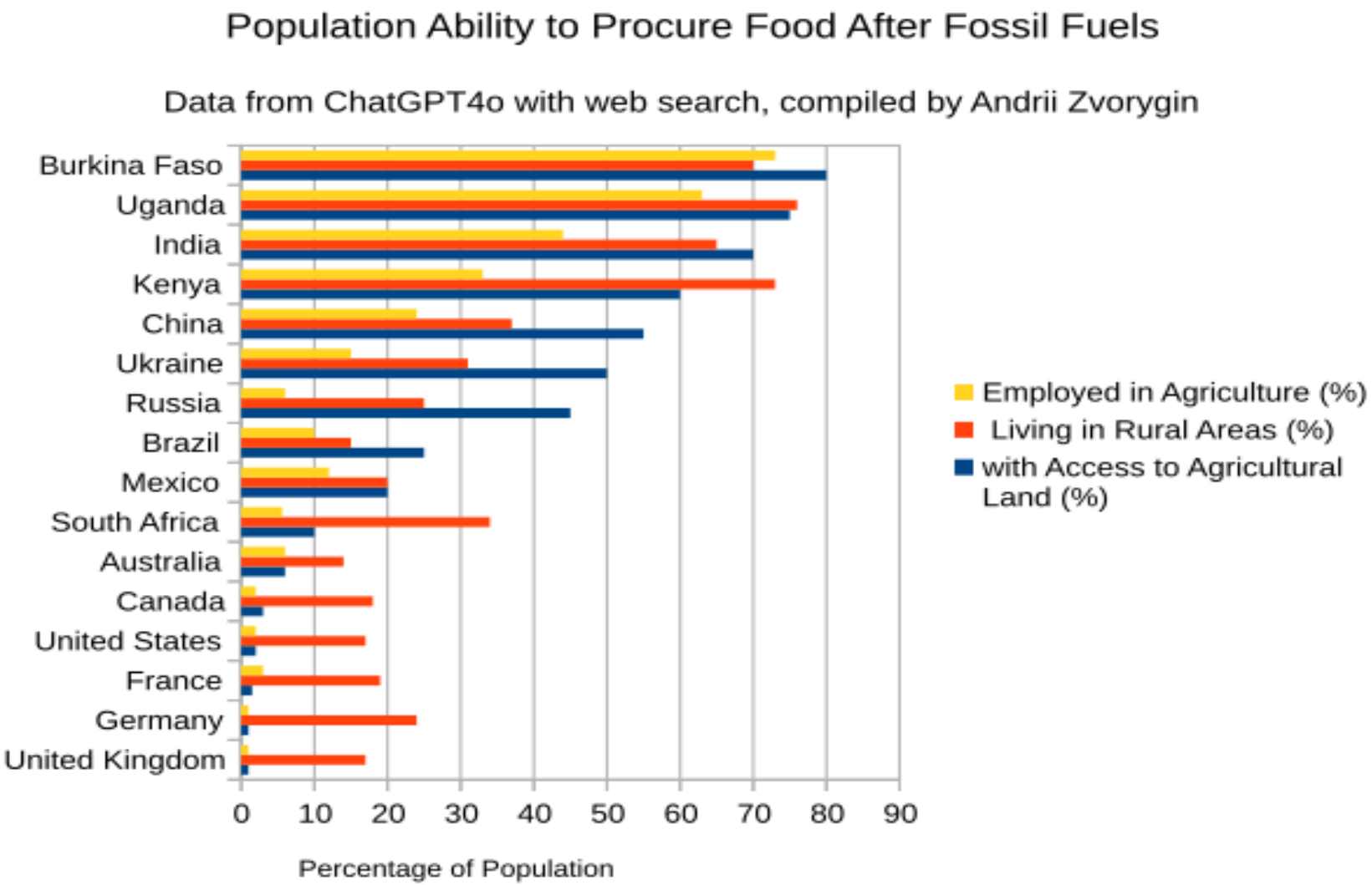
Global heat related deaths are rising. May be millions before oil collapse.

Hunger Related Death Projections



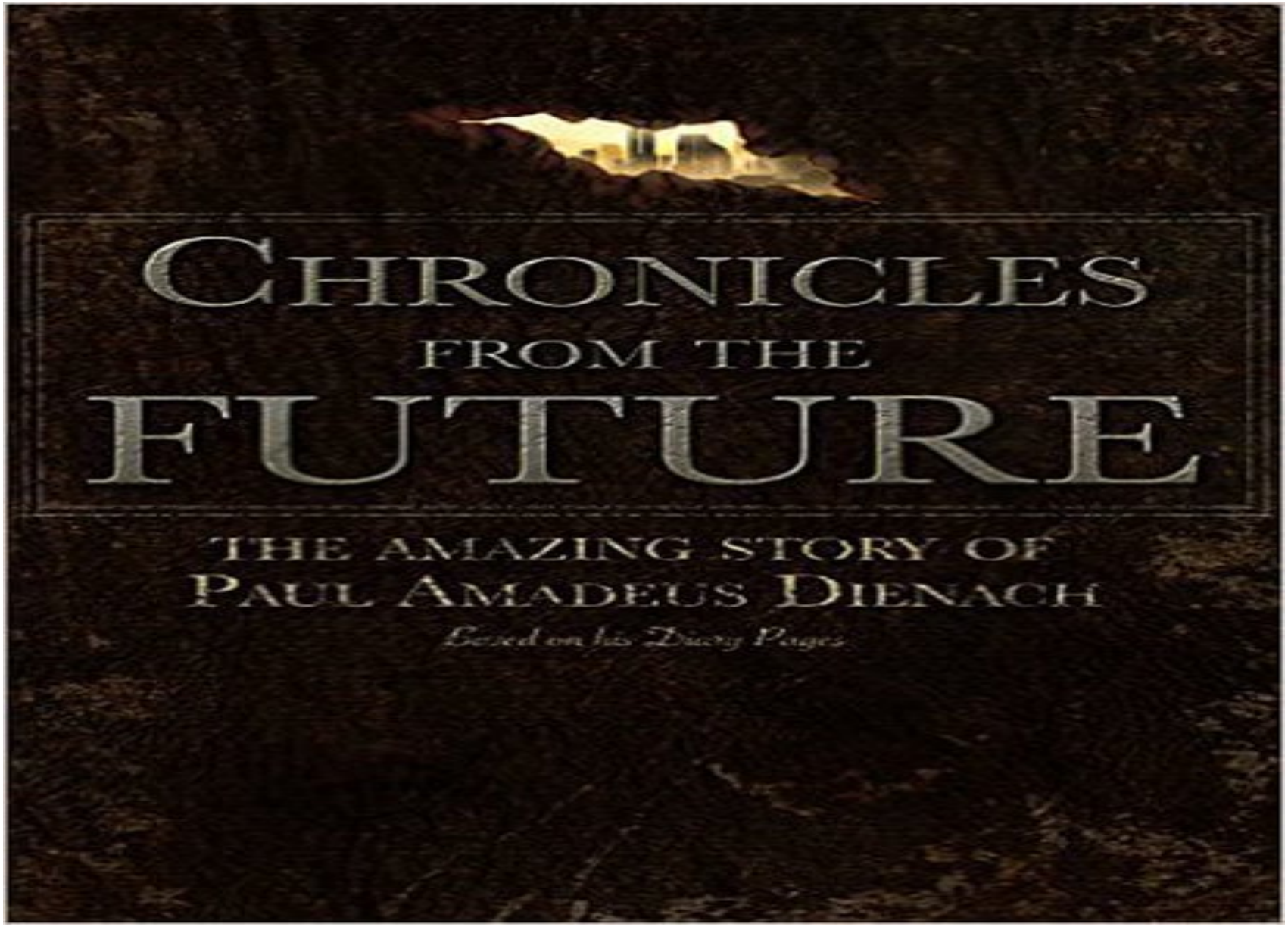
Global hunger related deaths are rising. May become tens of millions.

Agricultural Access

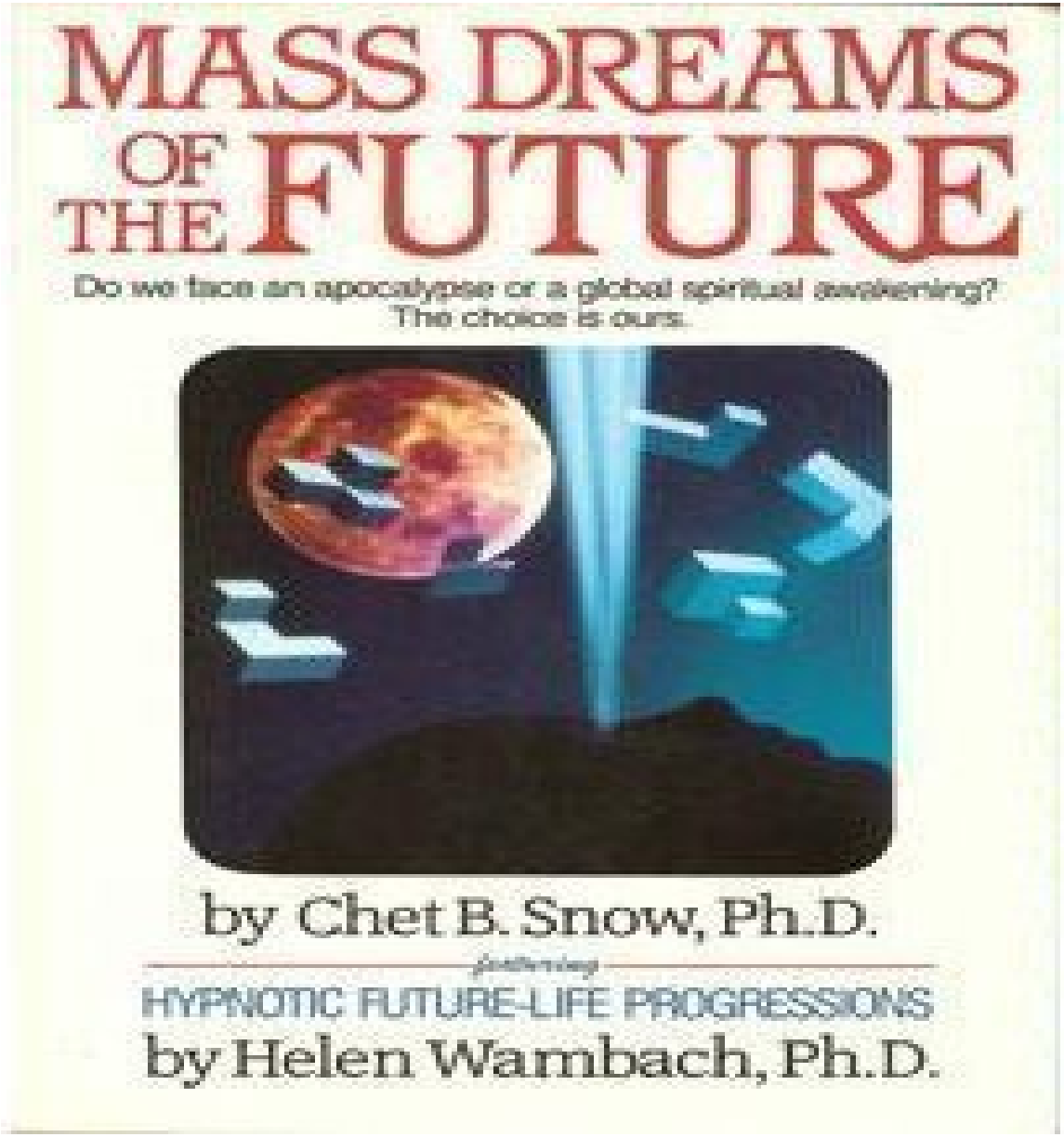


BRICS nations have better Agricultural access, likely less famine deaths.

Chronicles From the Future by Paul Dienach



Mass Dreams of the Future Cover

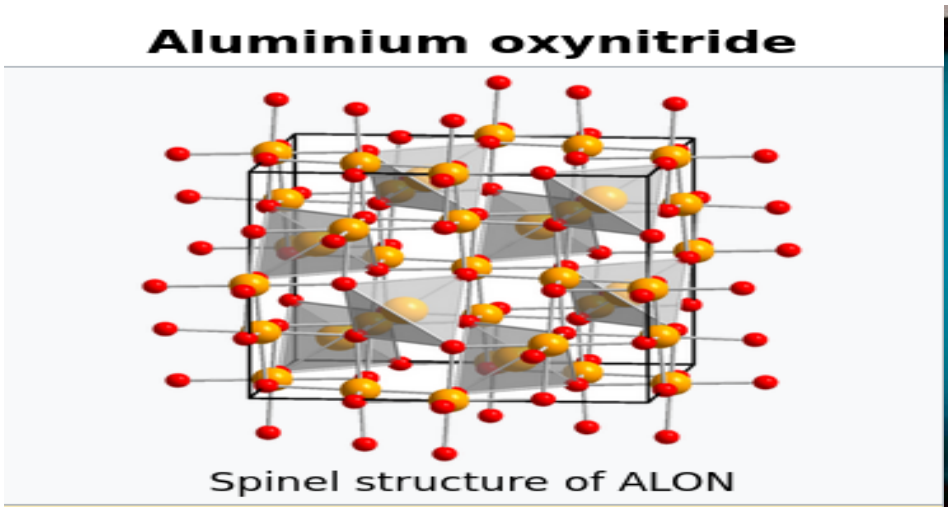


Mass Dreams of the Future Table

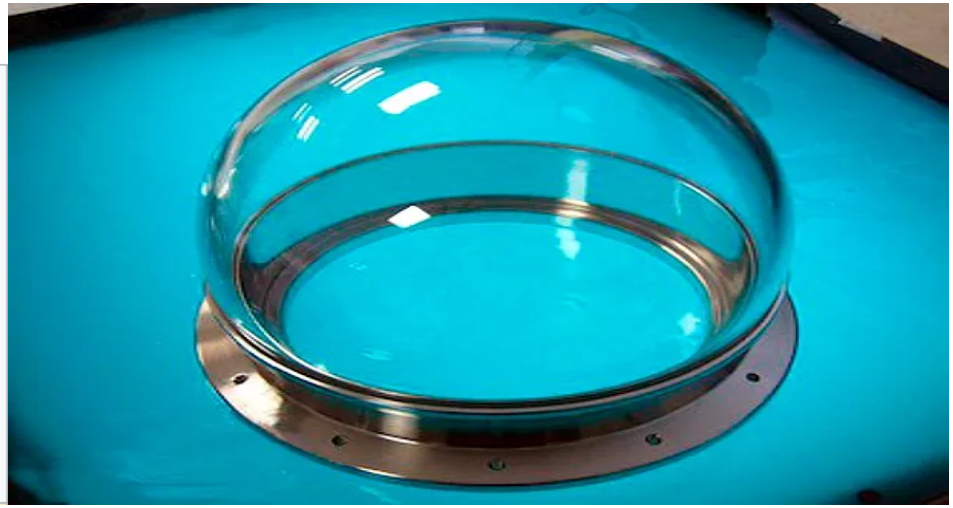
Table 7-2. 2300-2500 A.D. Groups

Categories	*Male*	*Female*	*Androg.*	*Total*	*Avg. Age at Death*
Ia In-Space	32	20	4	56	54.3 yrs
Ib Solar Space Colony	8	5	0	13	65.8 yrs
Ic Non-solar System Planet	18	20	2	40	62.2 yrs
Total Off-Earth:	58	45	6	109	59.2 yrs
II New Age	14	38	0	52	99.6 yrs
IIIa Hi-tech	18	10	8	36	56.7 yrs
IIIb Hi-tech Evolved	12	6	2	20	70.9 yrs
IVa Rustic	12	12	0	24	59.8 yrs
IVb Survivors	8	2	0	10	71.8 yrs
Total On-Earth:	64	68	10	142	74.3 yrs
General Total:	122	113	16	251	69.2 yrs
V Group Beyond 2600 A.D.:	9	2	1	12	152.1 yrs

ALON, Aluminum Oxynitride, Transparent Aluminum



ALON Molecule

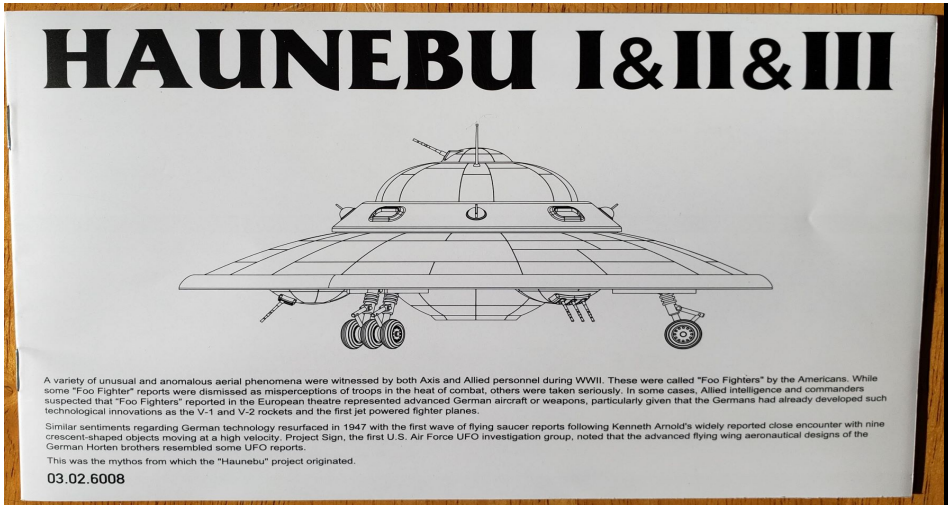


ALON Dome

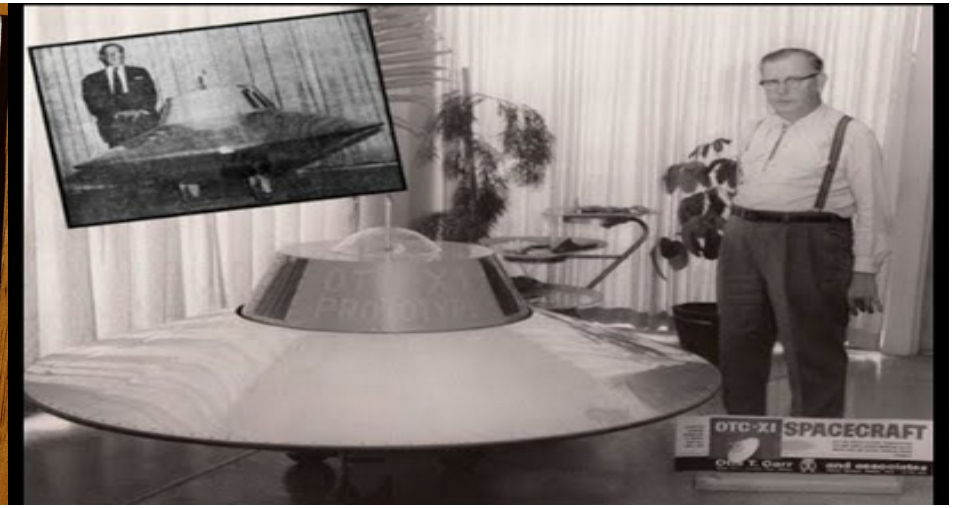
ALON Collage

ALON Star Trek

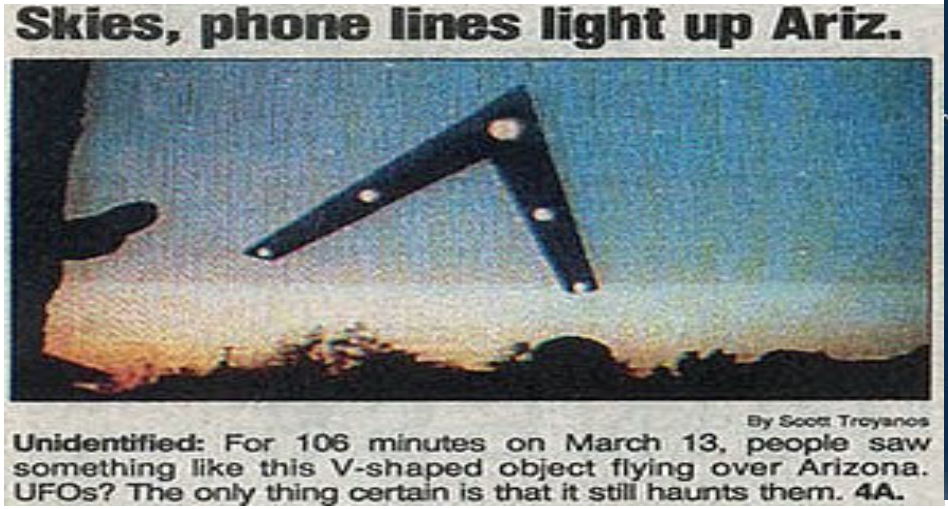
Electrogravitics Propulsion



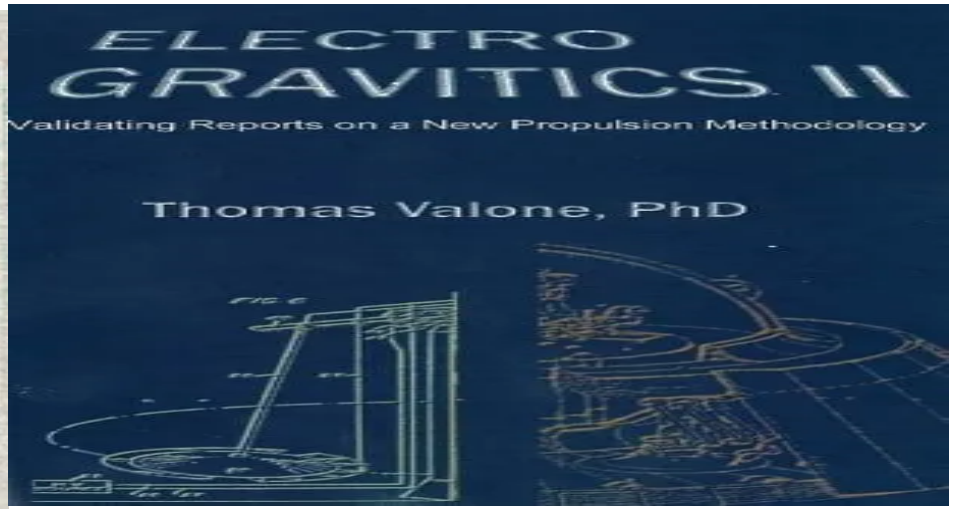
Nazi Craft



Tesla's Otis Carr's Craft

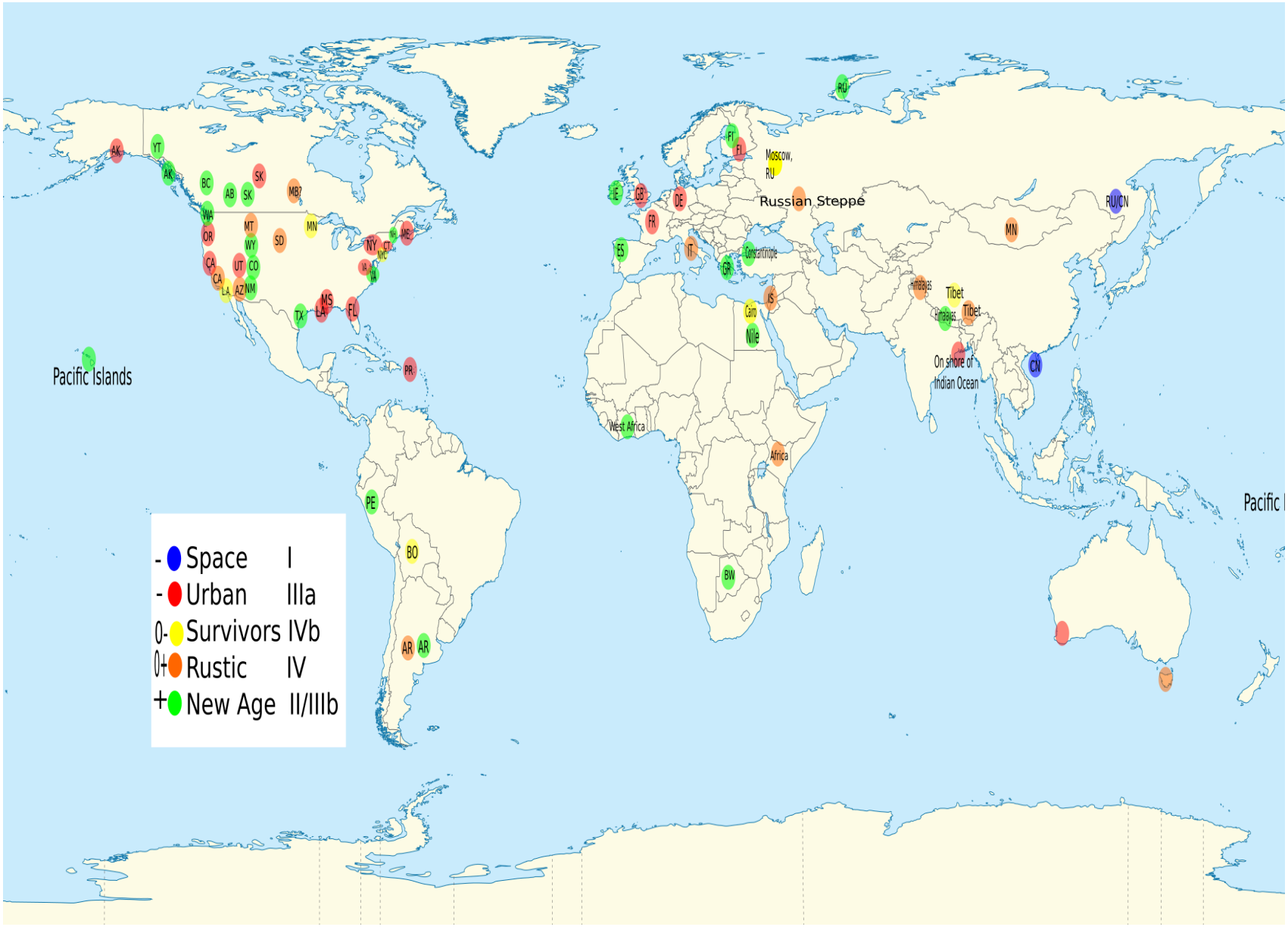


US Craft



Electrogravitics 2

Mass Dreams of the Future Map



Most Probable Future Lifestyles: Mass Dreams Study

Urban Salvage Economy

Rustic Amish annual agriculture

Indigenous hunter gatherers

Food forest communities

Orion Empire (STS: 95-100% Service-to-Self, 0-5% Service to Others):

- **Focus:** Fear, Anger, Control
- Mission: To control and dominate, infringing on free will.
- Methods: Manipulation and influence to create fear and division for control.
- Aligned Historical Leaders: Genghis Khan, Himmler, Joseph Stalin, Mao Zedong
- Relevant Quote: "the crusaders of the Orion empire to carry out their self-proclaimed duty or calling to bring what they view as order and meaning to the universe" (Q'uo 2022/03/09)

Space Pirates (Neutral: 94-50% Service-To-Self 6-50% Service-to-Others)

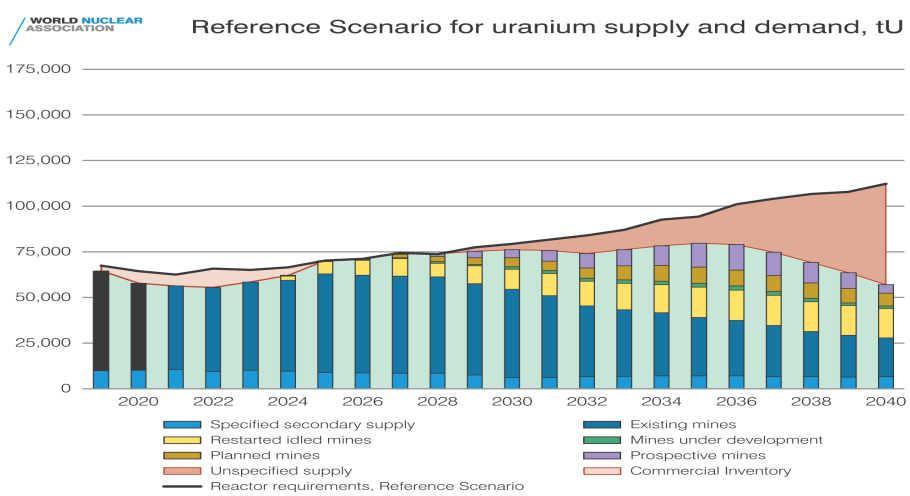
- **Focus:** War, Suffering, Chaos
- Mission: To disrupt and create chaos, preventing positive harvests.

- Methods: Sowing fear and maintaining low vibrational states.
- Aligned Leader: Adolf Hitler, Winston Churchill, Richard Nixon, Prigozhin.
- Relevant Quote: "space pirates, have in mind is simply to have a continuing harvest of food, that food being fear." (Q'uo, 2005/12/19)

Confederation of Planets (STO: 49-0% Service-To-Self, 51-100%+ Service-To-Others):

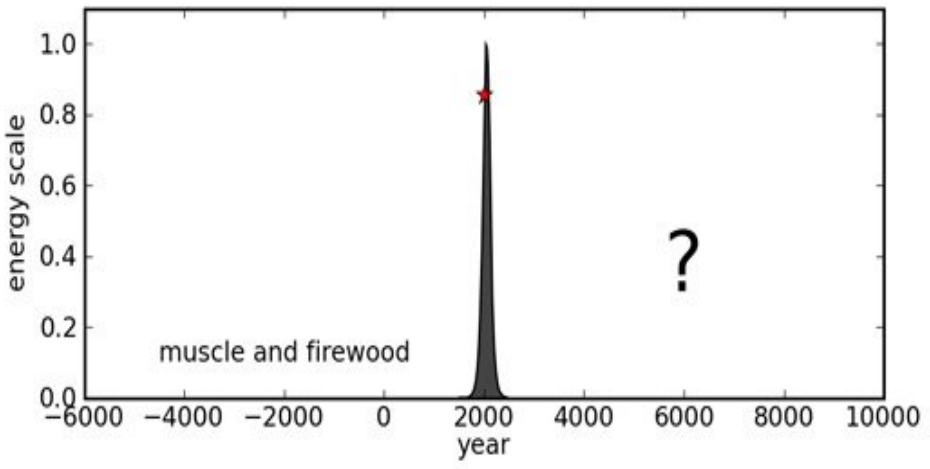
- **Focus:** Forgiveness, Love, Acceptance
- Mission: To promote love, unity, and service to others.
- Emphasis on free will and the spiritual evolution of all beings.
- Aligned Leaders: Jesus, Abraham Lincoln, Mahatma Gandhi, Franklin D. Roosevelt, Nelson Mandela.
- Relevant Quote: "We of the Confederation of Planets have come to tell a very simple story... It is a story of the power of absolute and unconditional love." (Q'uo, 2003/0206)

Nuclear Reserves Limits

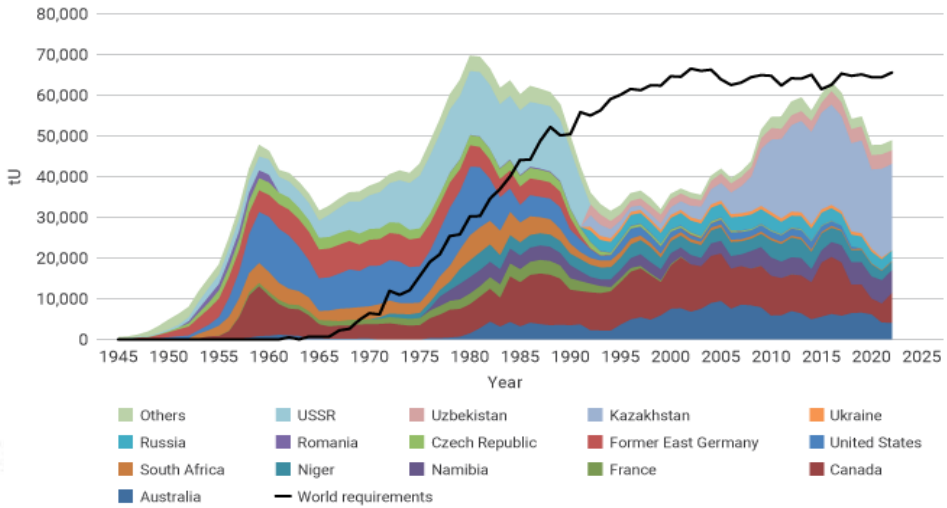


Demand outstripping supply.

Billions of years to make.



Need to be rationed to avoid blip.

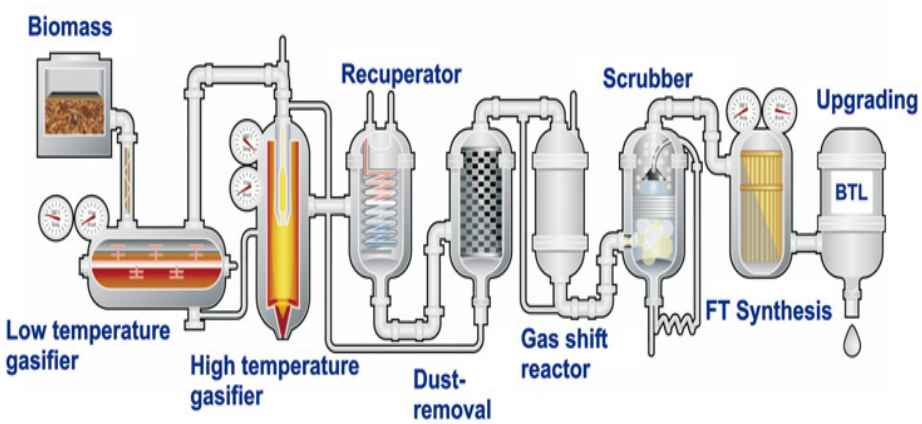


Production may be decline.

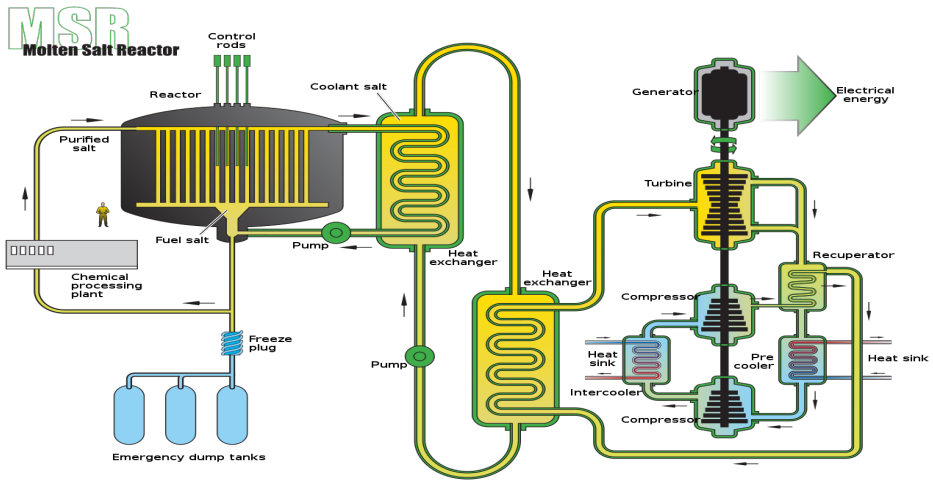
Sustainable Energy: 10-20x less Total Energy than Oil Age

Solar/Wind for Residence/Hamlet

Bio-CNG for Village from waste



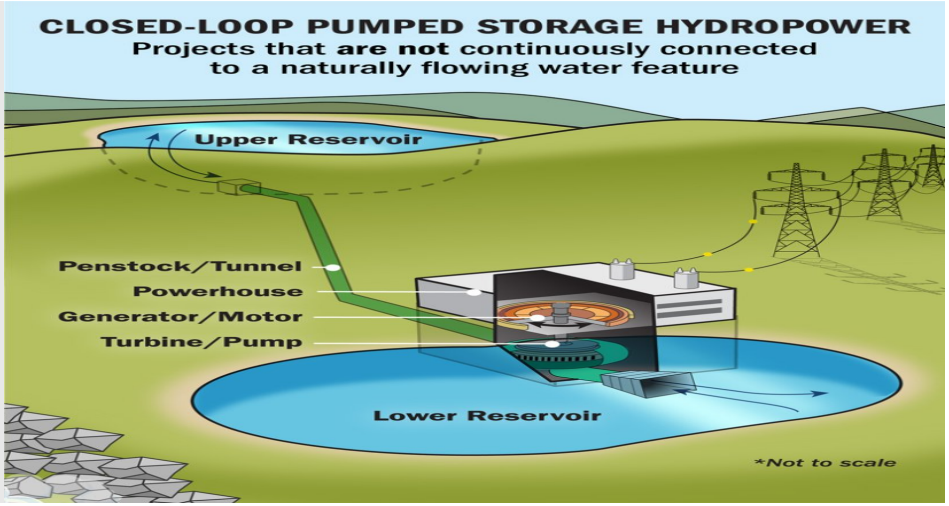
FT BioGasoline for Neighbourhood



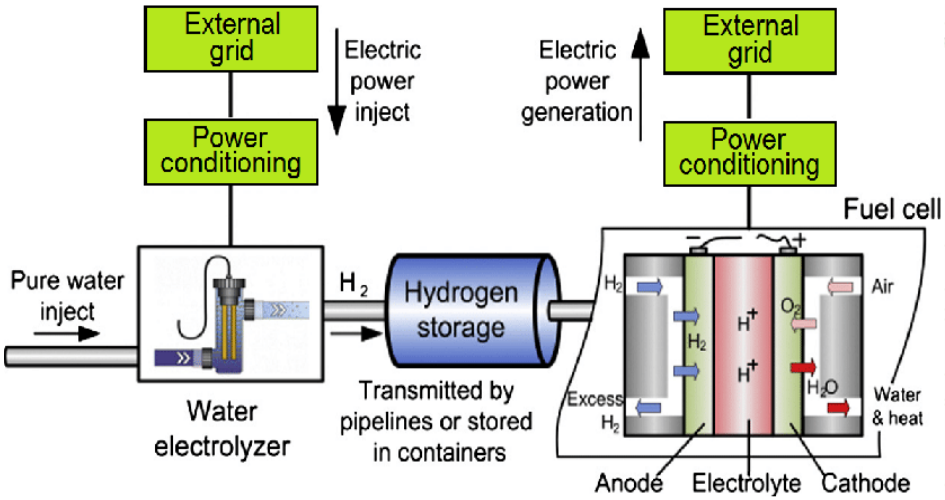
Thorium Nuclear at Municipal

Sustainable Energy Storage

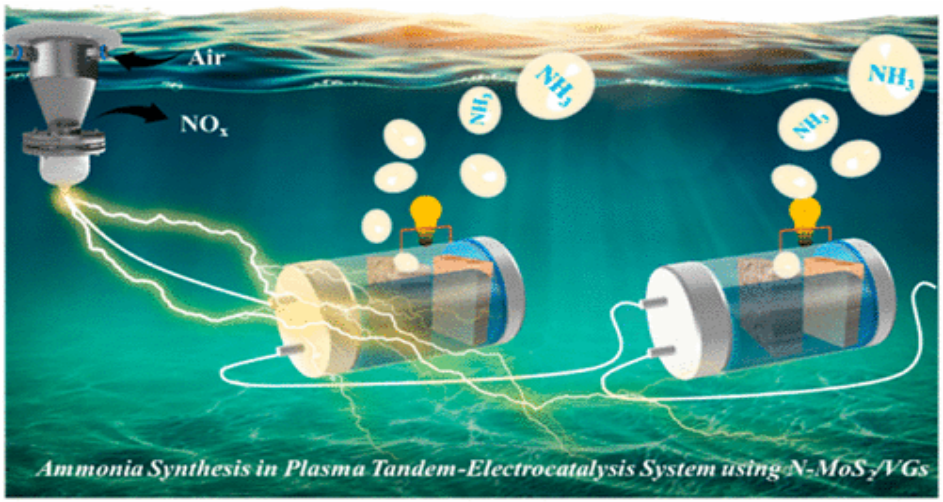
Battery



Pumped Storage



Hydorgen 4.6-6.6 MJ per mole of H



Ammonia is viable 2.4 MJ molNH3–1

Renewable Storage Fuel Comparisons

Substance	Energy Density (MJ/kg)	Energy Density (MJ/L)	Average Energy Density (MJ)	Easiest Production Method	Storage Requirements	Storage Longevity	Conversion Efficiency
Lithium Batteries	0.9	2.5	1.7	Battery assembly and recycling	Standard Battery Containment	3-10 years	N/A
Syngas	15	6	10.5	Gasification of biomass or waste	High Pressure (~10-20 bar) or low temperature for liquefied form	Depends on containment	40-50%
Firewood	15	10	12.5	Harvesting and drying wood	Normal Atmospheric Pressure	Indefinite if kept dry	N/A
Carbohydrates	17	10.5	13.75	Agricultural production of grains	Normal Atmospheric Pressure	1-2 years	N/A
Protein	17	10.5	13.75	Agricultural production of grains and legumes	Normal Atmospheric Pressure	1-2 years	N/A
Ammonia (from Urine)	18.6	11.5	15.05	Collection and chemical treatment of urine	High Pressure (10-15 bar) at room temperature or Cryogenic (-33°C)	Indefinite with proper containment	10-20%
Ammonia (via Plasma Tandem-Electrocatalysis)	18.6	11.5	15.05	Plasma tandem-electrocatalysis of air and water	High Pressure (10-15 bar) at room temperature or Cryogenic (-33°C)	Indefinite with proper containment	60-70%
Ethanol	30	23.5	26.75	Fermentation of sugars	Containment to prevent evaporation at room temperature	1-2 years	50-70%
CNG	53.6	9.1	31.35	Anaerobic digestion of organic matter (e.g., sewage)	High Pressure (~200-250 bar) at room temperature	Indefinite with proper containment	50-60%
Fat	37	33	35	Rendering animal fats or extracting plant oils	Normal Atmospheric Pressure (cool, dark, sealed for long-term storage)	Decades to potentially centuries	N/A
Biogasoline (via FT Process from Syngas)	46.4	34.2	40.3	Fischer-Tropsch synthesis from syngas	Containment to prevent evaporation at room temperature	3-6 months	40-60%
Biodiesel	45.5	38.6	42.05	Transesterification of vegetable oils or animal fats	Normal Atmospheric Pressure	6-12 months	80-90%
Pyrophoric Iron (reduced by Syngas)	10	76	43	Reduction of iron oxides using syngas	Kept in inert atmosphere (e.g., nitrogen)	Indefinite with proper containment	30-40%
Hydrogen (from Electrolysis)	120	8.5	64.25	Electrolysis of water	High Pressure (~350-700 bar) or cryogenic	Indefinite with proper containment, but containment systems typically viable for 5-10 years due to material embrittlement and permeability issues	20-30%

Firewood, Ammonia, CNG and Biodiesel seem good.

Renewable Storage Fuel Comparisons

Substance	Energy Density (MJ/kg)	Energy Density (MJ/L)	Average Energy Density (MJ)	Easiest Production Method	Storage Requirements	Storage Longevity	Conversion Efficiency
Lithium Batteries	0.9	2.5	1.7	Battery assembly and recycling	Standard Battery Containment	3-10 years	N/A
Syngas	15	6	10.5	Gasification of biomass or waste	High Pressure (~10-20 bar) or low temperature for liquefied form	Depends on containment	40-50%
Firewood	15	10	12.5	Harvesting and drying wood	Normal Atmospheric Pressure	Indefinite if kept dry	N/A
Carbohydrates	17	10.5	13.75	Agricultural production of grains	Normal Atmospheric Pressure	1-2 years	N/A
Protein	17	10.5	13.75	Agricultural production of grains and legumes	Normal Atmospheric Pressure	1-2 years	N/A
Ammonia (from Urine)	18.6	11.5	15.05	Collection and chemical treatment of urine	High Pressure (10-15 bar) at room temperature or Cryogenic (-33°C)	Indefinite with proper containment	10-20%
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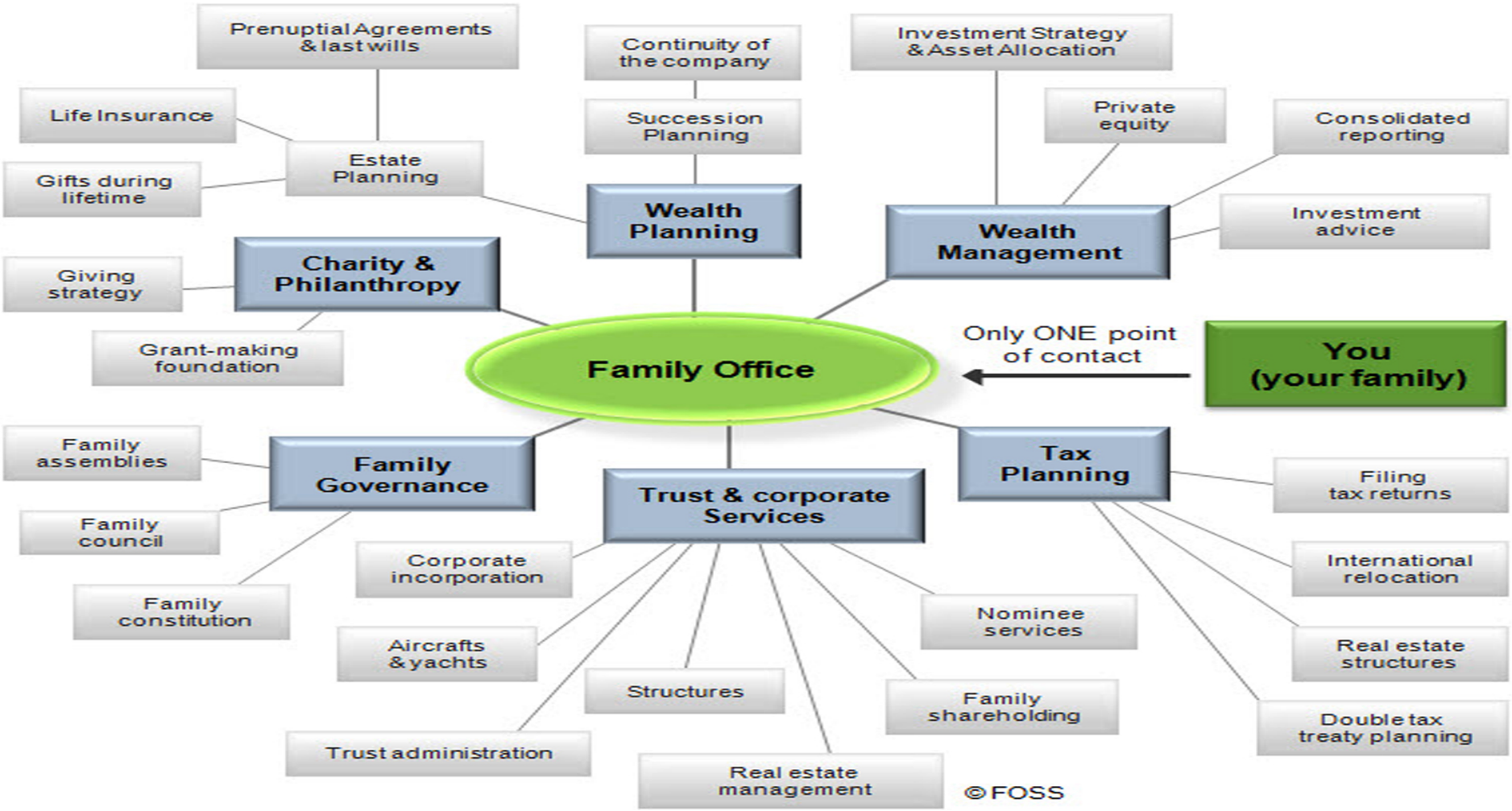
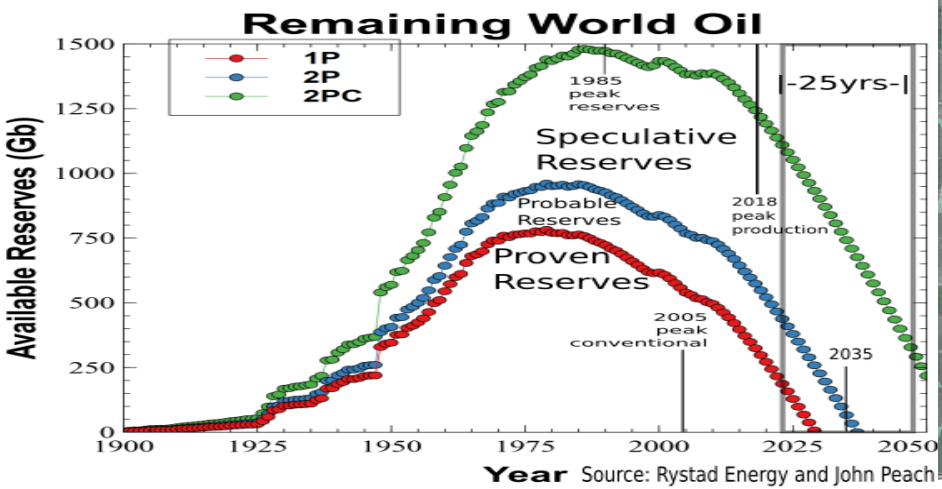
Firewood, Ammonia, CNG and Biodiesel seem good.

Family Offices



Have money and are interested in long term family continuity.

Discussion



Time for smooth transition limited

Sustainable Hamlets/Villages

Rustic Amish annual agriculture

Food forest communities