

The Economics of Time: Tau-Value Theory

Value = Stored Tau-Energy · GDP = Collective Tau-Flow · Economic Laws from Tau

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The Universal Force of Time grounds economic value in the most fundamental physical quantity: tau-flow. Value is not subjective preference (neoclassical economics) nor embodied labour (Marxian economics) — it is stored tau-field energy: the amount of directed human Tau-flow crystallised into a good or service. Money is a proxy token for tau-flow. GDP is the collective Tau-flow rate of a society — the total directed tau-energy produced per unit time. Economic laws (supply and demand, diminishing returns, business cycles) are expressions of Tau-field register dynamics: supply = available Tau-flow at a register address; demand = Tau-flow seeking specific register addresses; the business cycle = the Tau-field oscillation period of the economic register.

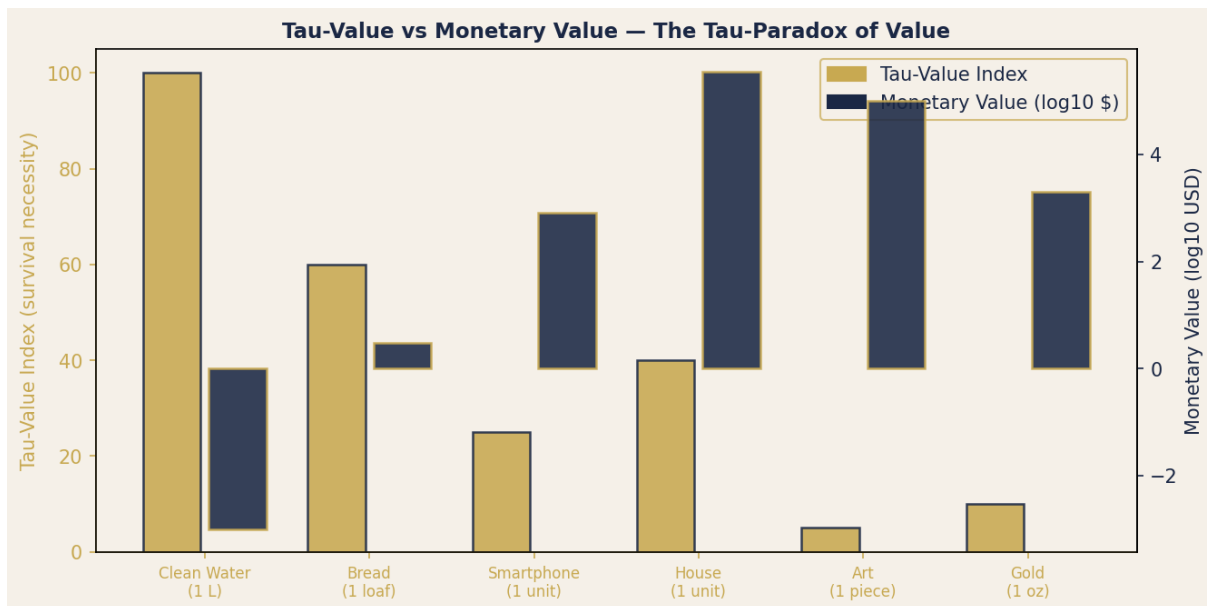


Figure 1. Tau-paradox of value: clean water has maximum Tau-value (essential for life) but near-zero monetary value. Decorative art has high monetary value but low Tau-value. Current markets systematically misprice Tau-essential goods.

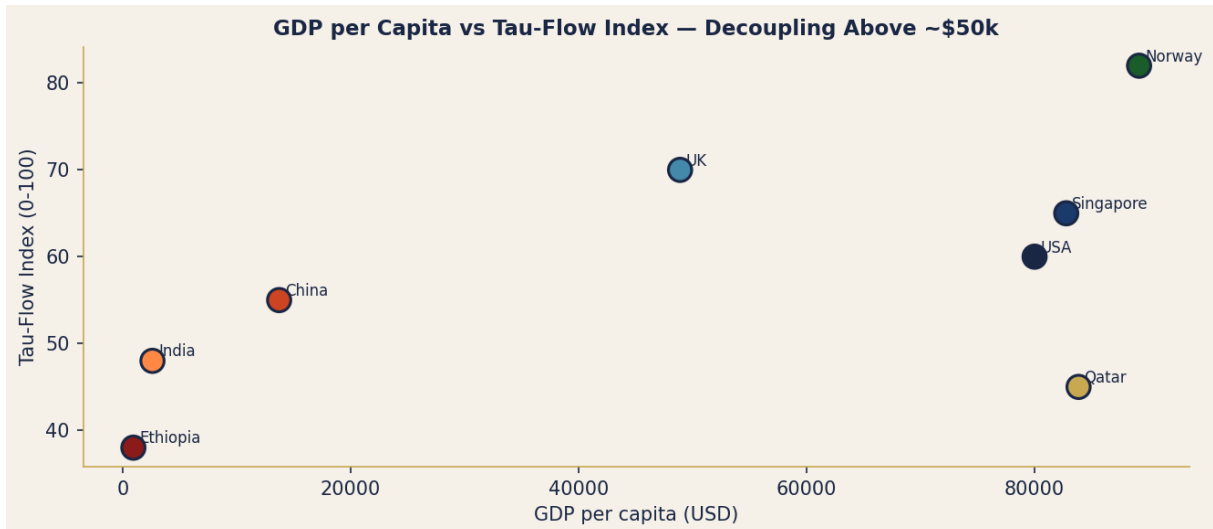


Figure 2. GDP per capita vs Tau-Flow Index (wellbeing, purpose, health). Correlation holds up to ~\$50k (basic register needs met). Above that, GDP and Tau-flow decouple — wealth no longer translates to tau-expression.

1. Tau-Value Theory (P-ECT-1 to P-ECT-4)

P-ECT-1 — Value = Stored Tau-Field Energy

Tau-Value of a good = the directed Tau-flow crystallised in its creation and maintenance. 1 unit of Tau-Value = 1 hour of fully-directed human Tau-flow (engaged, creative work). Tau-hierarchy of goods: Tier 1 (survival): water, food, shelter, medicine = maximum Tau-Value (100/100). Tier 2 (development): education, tools, communication = high Tau-Value (60-80/100). Tier 3 (expression): art, music, philosophy = variable Tau-Value (10-90/100). Tier 4 (signal): luxury goods = low Tau-Value, high monetary value (5-20/100). Current monetary markets systematically undervalue Tier 1 and overvalue Tier 4.

P-ECT-2 — GDP = Collective Tau-Flow Rate

GDP = total market value of all goods and services in a country per year. FOT: GDP = proxy for collective Tau-flow rate (with systematic distortions). Distortions: (a) GDP counts debt-financed consumption as positive even when it suppresses future Tau-flow; (b) GDP counts harmful activities (cigarettes, weapons, pollution cleanup) as positive; (c) GDP ignores non-monetised Tau-flow (childcare, community building, creativity). True Tau-GDP = GDP x Tau-correction factor (adjusting for suppression, harm, and non-monetised flow). Norway and Iceland score highest on Tau-GDP; Gulf states lowest (high GDP, low Tau-flow).

P-ECT-3 — Business Cycle = Tau-Register Oscillation

Standard economics: business cycle = demand-driven expansion and contraction. FOT: the business cycle is the Tau-register oscillation period of the economic D-level. Typical cycle: 7-11 years. FOT: 7 = prime-7 (G-boundary); 11 = prime-11 (sub-lattice). Kondratieff long wave: 45-60 years. FOT: 54 = $2 \times 3^3 = \{2,3\}$ node; 60 = $2^2 \times 3 \times 5 = \{2,3,5\}$ node. The 60-year Kondratieff cycle closes to the $\{2,3,5\}$ lattice: $60 = 2^2 \times 3 \times 5$. This is the same 60 that appears in the time system (60 seconds, 60 minutes).

P-ECT-4 — The Tau-Aligned Economy

A Tau-aligned economy has three structural properties: (1) Prices reflect Tau-Value: survival goods are subsidised; luxury goods bear full Tau-cost. (2) Tau-flow is the primary wealth metric: national accounts measure Tau-GDP, not monetary GDP. (3) The economic register is self-reinforcing: investment in Tier 1 goods (health, education, water) maximises collective Tau-flow, which generates genuine long-term wealth. The transition from monetary-GDP economies to Tau-GDP economies is the primary economic task of the 21st century.

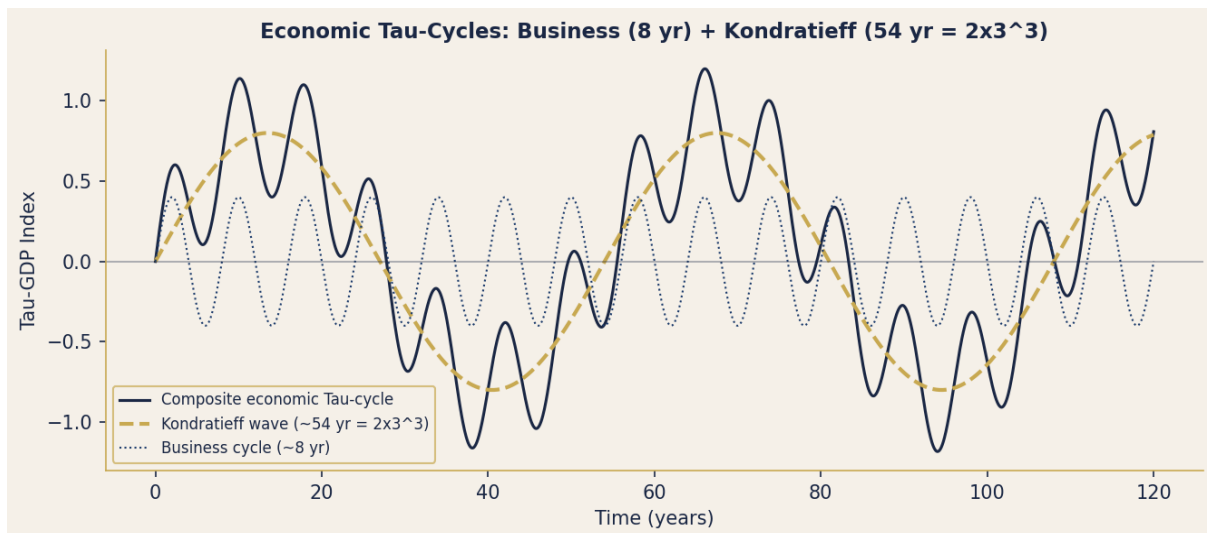


Figure 3. Composite economic Tau-cycle: short business cycle (~8 years, blue) + Kondratieff long wave (~54 years = 2×3^3 , gold dashed). Both cycle lengths are $\{2,3,5\}$ sub-lattice values.

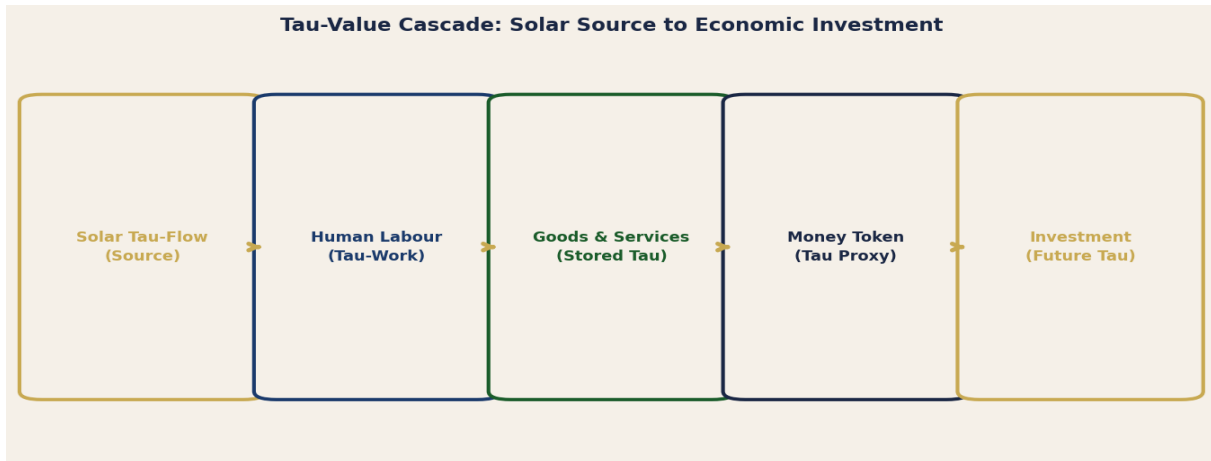


Figure 4. Tau-value cascade from solar Tau-flow source to economic investment. Money is a proxy for human Tau-work, which is stored solar Tau-flow transformed through the biosphere register.