

Exploring the Evolving Global Playing Field

NEW MARKETS

- Telecom services
- Desert greening
- Pollution control
- Renewable energy
- Recycling, eco-resource management
- “Caring” sector (day care, counseling, re-hab, nursing)
- Infrastructure (extending transport, telecommunications, etc.)
- Eco-restoration, bio-remediation

NEW COMMONS

- Space, Earth, systems science
- Electromagnetic spectrum
- Oceans, water resources
- Atmosphere, ozone layer
- Security, peace keeping
- Forests
- Health
- Global economy

“INVESTING IN THE GLOBAL GREEN TRANSITION TO KNOWLEDGE-RICHER ECONOMIES”

- This current global transition is inevitable:
- Humanity’s technological evolution ([Green Transition Scoreboard® reports since 2009](#)). New textbook forthcoming.
- Reflects on our widening planetary perspective and understanding.
- Even if Fossilized Industrialism did not cause: pollution, desertification, toxic waste, climate change ---
- Humanity continues investing in this green transition as a \$45 trillion global opportunity! (John Doerr, Kleiner Perkins; We’re All In; UN Principles of Responsible Investing, GIIN, Mercer, FAIRR, Toniic, and investors at this Forum!

Boxed-In Financial Markets:
Pressures On All Sides For Reform

195 Nations ratify new model of SDGs, COP21, 22 and International National Development Commitments (INDCs)

Social impact, responsible investors, SRI, ESG, asset managers, fossil-free and positive impact portfolios, metrics, endowments, pension funds, UNPRI, Global Compact, IIRC, SASB, CIMA

**TRADITIONAL
LEGACY
BANKING
and
FINANCIAL
MARKETS**

Climate Change Activism, 350.org, Divesting Movements, Public Demonstrations, Driven Scientific Consensus on Carbon "Budget" Below 2°C

Financial Innovation, Fintech 100, Startups, Electronic Platforms for Peer-2-Peer Lending, Crowdfunding, Local and Cryptocurrencies, Robo-Investing, Information-Based Trading, Barter, Swaps, Secondhand Markets, Cellphone Banking (e. g. M-Pesa) Electronic Remittances and Payment Systems.

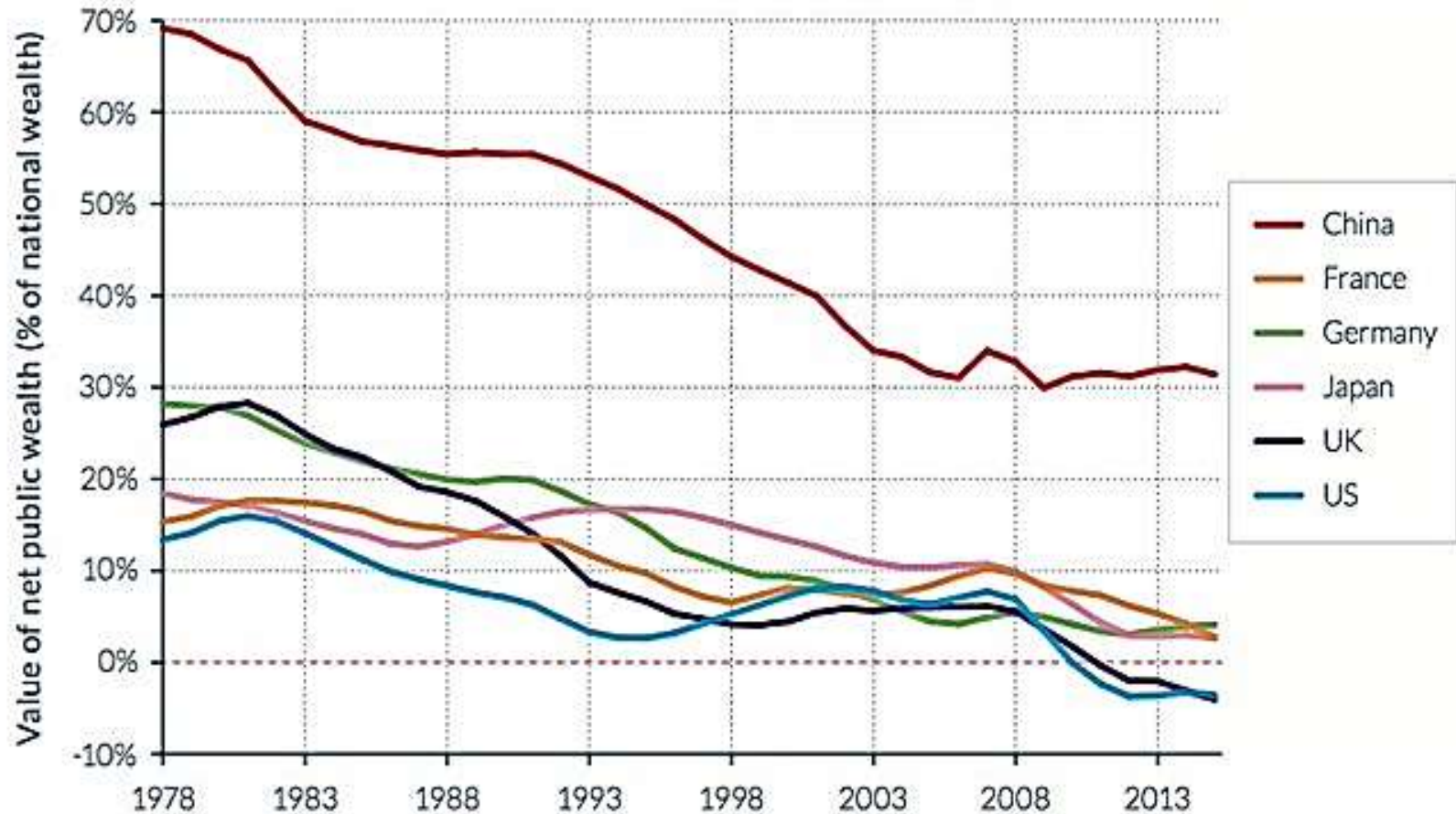
Financial Risks in Science-Denial

- Anthropocentric financial models: indexes, algorithms ETFs, (2,100 ETFs \$4 trillion, 230 closures since 2018); **hedge funds** (8,200, av. return 7.2%).
- **All backing into the future looking in the rearview mirror**, (global stocks: \$44 trillion: \$58 trillion: FX, swaps, forwards; est.> \$11 trillion debt off books!. www.bis.org).
- Extrapolating from past industrial models, past conditions, past prices, **obsolete textbooks!** (GISD Alliance pledges to SDGs in 2030).
- IEA forecast: Renewable energy will grow 50% from 2019-2024, adding 1200 gigawatts.
- Missing the shift to services, information societies, intangibles, digital assets traded on internet, network effects. (e.g. “Capitalism without Capital”, 2018)
- Missing risks in physical reality: climate change, water, food, land, forests--- mapped daily by satellites!
- **Global fertility crash** (1/2 of all countries below replacement rate (2.1), Bloomberg. BI survey: 38% millennials factor climate change into parenting)

SHIFTING SYSTEMS FOR VALUATION OF ASSETS

Currency-traded on traditional markets	Digital assets traded virtually
<ul style="list-style-type: none">• Valuation based on prices (historical-measure of human ignorance)• “Materiality” misses growth of IP and knowledge-as “intangible” or “good will”• Also GDP (omits, IT, unpaid production; classifies education as “consumption”. No asset account for tax-funded infrastructure-only carried as “debt”	<ul style="list-style-type: none">• Information-based• Services, virtual• Brands, patents, platforms, URLs, internet-business models• Capital light• Cryptocurrencies (Coinbase)• Challenging central banks, (Libra)• Traded informally in private liquidity networks virtually

The General Decline of Public Capital Between 1970 and 2016



Source: WID.world (2017). See wir2018.wid.world for data series and notes.

In 2015, the share of public wealth in national wealth in France was 3%, compared to 17% in 1980.

Public & Private Investments in Green Infrastructure

- Dealing effectively at scale with the climate crisis and preventing global recession requires a system-wide transition from fossilize energy to renewable infrastructure.
- The Green New Deal “moonshot” approaches in the USA and Europe are the next evolutionary technology-led human development paths typified by the UN SDGs. (Grantham Research, Nov. 2019).
- Global finance is lagging: science-denial still mis-investing in 19th & 20th century incumbent sectors and technologies (stranded assets in fossil reserves, livestock-raised meats, risky pharmaceuticals, unnecessary mining of gems).
- The global green transition requires re-directed R&D, public investments and procurement, redeploying and training displaced workforces to avoid recession and maintain purchasing power, aggregate demand. (MMT, Family allowances. Basic income support and health care).
- Multi-partisan consensus is possible investing in green infrastructure (private already booming), public via new monetary and fiscal policies:
 - Direct issue of no-interest green infrastructure bonds to local governments via Treasury.
 - Central banks green QE, negative interest rates.
 - Procuring green infrastructure with proceeds certified as green by ratings agencies e.g. SASB.

Reforming Money-Creation Policy

- Coining a nation's money i.e. currency-issuance a traditional function of governments (U.S. Constitution; Prof. J. Huber "Sovereign Money" (2019).
- Money is not wealth, but a form of information, the metric used to track & keep score of human budget priorities, transactions and use of national resources. [Money is Not Wealth: Cryptos vs. Fiats](#)
- Prices are extrapolated from past and a function of human ignorance.
- Cryptocurrencies now challenging traditional government-issued money (fiat currencies) and central bank's power & monetary tools, policies. (e.g. Facebook's "libra").
- Government policies & central banks ceded money-creation to private banks (e.g. Federal Reserve Act, 1913) and shadow banking evolved, ([IOSCO reforms](#)).
- Monetary policies of central banks failing----even QE and neg. interest rates (Green QE?).
- Fiscal policies stalled by debt overhangs and "austerity", (Conventional economics v. MMT, Green New Deal).
- Loss of purchasing power, diminishing money-supplied consumer aggregate demand, (UBI?).
- Rising inequality, poverty in rich countries, productivity gains flow back to capital more than wages of employees, (Piketty's wealth taxes in E. Europe!).

Rise of grass-roots globalism

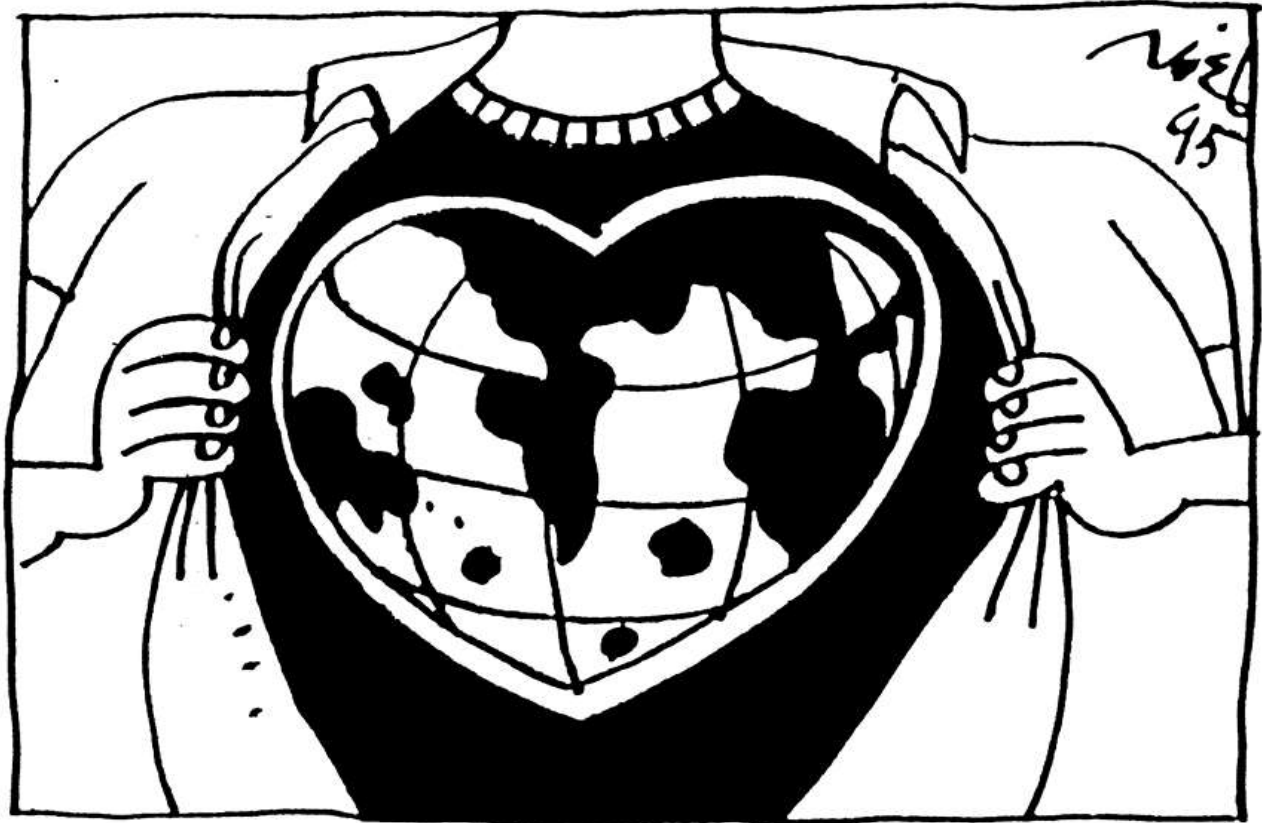
By Hazel Henderson
Inter Press Service

ST. AUGUSTINE, Florida – The most creative, energetic forces addressing planetary problems today are the citizens addressing poverty, social inequities, pollution, resource-depletion, violence, and wars.

This new form of “trickle-up” globalism is different from the approaches of national leaders at the Group of Seven and Asia-Pacific Economic Cooperation (APEC) summits.

It is not the same as the approaches seen at executive round tables of global business leaders. It differs from how academics, pundits, think tanks, and foundations conferring at up-scale vacation hide-aways function.

Grass-roots globalism is about thinking and acting, globally and locally. Its approach to problem-solving is pragmatic. It is on-the-ground



 **SUSTAINABLE DEVELOPMENT GOALS**



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