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Nacaskul, Poomjai (2001), "Toward a Framework of Economic Thoughts Based on Sufficiency Economy"

☐ [http://papers.ssrn.com/abstract=2625942]
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Nacaskul, Poomjai (2013), "Sustainable Development

- Calling for Policy Analytics and (Wittgensteinian

Turn Towards) Economics of Moderation"

2013 Bangkok Conference – Global Dialogue
on Sustainable Development, October, 10th, Bangkok,

Thailand, [http://papers.ssrn.com/abstract=2334765] #

Nacaskul, Poomjai (2016), "Sufficiency Economy

Philosophy: Conceptual Background & Introduction"

Social Science Research Network (Working Paper Series),

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Nacaskul, Poomjai (2017), "Financial Risk Management and Sustainability – The Sufficiency Economy Philosophy Nexus"

Social Science Research Network (Working Paper Series),

[http://papers.ssrn.com/abstract=3057886] #

RISK MANAGEMENT & SUSTAINABLE VALUE for COMPANIES

ดร.พูมใจ นาคสกุล Poomjai Nacaskul, PhD, DIC, CFA

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[2561BE.12.03]





RISK MANAGEMENT & SUSTAINABLE VALUE for COMPANIES

- O RISK MANAGEMENT
 - What is it? How does it enter today's dialogue?
- O RISK MANAGEMENT & SUSTAINABLE VALUE
 - After all, isn't one a prerequisite for the other?
- Sustainable Value
 - Thinking 'Profitability' w/o 'Sustainability' is so 90's!
- Sustainable Value for Companies
 - Thinking 'Business vs. Social Responsibility' is so 80's!
- O RISK MANAGEMENT & SUSTAINABLE VALUE for COMPANIES
 - O How exactly should we be thinking in the 2020's?











Evolution of the Notion of {RISK}

- "Risk has its reward" the ancient notion—particularly encapsulated in Greek mythology—is that risk is something to be taken, a challenge to overcome, an antecedent to modern-day "no risk, no reward" ... and yet the etymological root of the very word "risk" points to some sense of "running into danger", something to be avoided if at all possible.
- "Probability as measurable quantities" fast forward to 19th/20th century, Émile Borel, Henri Lebesgue, Johann Radon, and Maurice René Fréchet, et al., laid the necessary foundation for ... probability (measure).
- "What gets measured gets managed" In 1883, Lord Kelvin, in his lecture "Electrical Units of Measure" posit that in order to advance to the stage of doing science on something, one must first be able to measure such a thing ... eventually the (rather heroic) leap from "<if> cannot measure <then> cannot manage" to "<if> gets measured <then> gets managed" fused into business management literature.
- "Probabilistic/Utility-Theory notion of risk" If probability is measurable, and all things measurable can be managed, then Risk (especially Financial Risk), which is probabilistic in nature, is ripe for 20th-century scientific management treatment.

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BE Notion of {RISK, SUSTAINABILITY}?

- "Risk has the norm; worldly certainty is illusory"
- "Sustainability is an expression of noble causal chains; the planet inevitably reverts to workable/optimal ones; humanity can but try to engineer it w/ the best science."





RISK MANAGEMENT?





{{FINANCIAL {RISK}} MANAGEMENT}

- \bigcirc <u>RISK</u> \equiv {POSSIBILITY; PROBABILITY; UTILITY}
- FINANCIAL RISKS:
 - Proxy for (monotonic w) utility *measured/quoted in* monetary units,
 - arisen from/rooted in financial market variables/institution factors,
 - managed/mitigated by means of financial techniques/tools, and/or
 - seen as/deemed intrinsic/integral to financial markets/institutions.
- ORISK MANAGEMENT Process:

IDENTIFY/define →

MEASURE/assess →

MITIGATE/control →

REVIEW/report → •••





{MARKET, CREDIT, OPERATIONAL} RISK

- MARKET RISK the opportunity/possibility-probability of financially relevant gains/losses due to 'movements' of the financial-market and/or monetary-economic variables, namely interest/exchange rates, equity/commodity prices, etc.
 - For financial institutions, risk *is* the business.
- CREDIT RISK the opportunity/possibility-probability of financially relevant losses (occasionally gains) due to 'credit events': obligor <u>default</u>, <u>recovery</u>, <u>drawdown</u> risks; <u>counterparty-settlement</u> risks; rating-<u>downgrade</u> risks; risks from taking position in <u>credit</u> <u>derivatives</u> (<u>Credit Default Swaps (CDO)</u>, <u>Collateralized Debt Obligations (CDO)</u>, etc.)
 - For financial institutions, risk is *compensated* for the business (also *is* the business).
- OPERATIONAL RISK the opportunity/possibility-probability of (partially) preventable occurrences of <u>failures</u>, <u>errors</u>, <u>frauds</u>, together with noncircumventable turn of events in the form of random <u>accidents</u>, natural <u>catastrophes</u>, man-made <u>disasters</u>, whence resulting in material losses, disruptions, and/or various infractions, thereby severely and adversely impacting financial condition, business conduct, overall institutional integrity.
 - For financial institutions, there will be risk just for being *in* business.





FIN RISK MGMT Principles/Techniques

- Avoidance In reality, risk avoidance is not always possible, and avoiding one type (source) of risk might just mean one has taken on a different type (source) of risk. Putting all the money in saving deposit, for example, incurs the risk of losing power of purchase vis-à-vis monetary inflation.
 - Key assumption: a safe haven exists where risk can be avoided.
- INSURANCE Insurance means one pays someone else to take away the risk.
 - Key assumption: the insurance providers themselves do not succumb to the same risk.
- <u>Buffering</u> Buffering means one has enough "safe" money to cushion the loss should "risky" money vanish.
 - Key assumption: one can accurately anticipate the risk scenario and thus the size of buffer necessary.
- O DIVERSIFICATION Diversification means not putting all eggs (money) in one basket (asset).
 - Key assumption: financial market variables that do not 100% correlate, thus provide the probabilistic basis for diversification, do not become perfect correlates.
- <u>HEDGING</u> Hedging involves finding one financial instrument to offset the price movements of another financial instrument or market variable, the classic delta-neutral strategy used by option traders being one of the most ubiquitous examples.
 - Key assumption: the market for the hedging instrument (near perfect correlate, but one which moves in the opposite direction) exists and continues to exist once the downside risk scenario materializes.





FIN RISK MGMT Failures/Lessons

- Failure of Portfolio Diversification Doctrine
 - vis-à-vis Black Monday and Other Market Crashes, or "Divided We Stand, United We Fall"
- Failure of the Gaussian Copula Model of Default Correlation
 - vis-à-vis the **Global Financial Crisis** (née US Subprime Mortgage Crisis) of late 2000's

Nacaskul, Poomjai (2010), "The Global Financial (nee US Subprime Mortgage) Crisis - 12 Contemplations from 3 Perspectives"





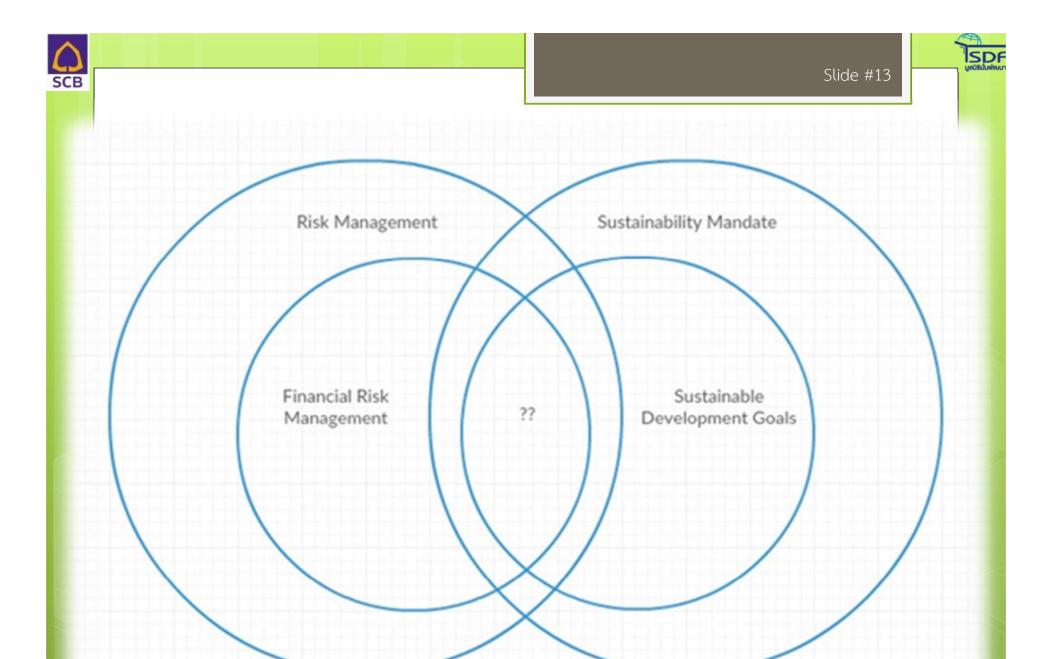
Vs. SEP Notion of IMMUNITY BUILDING?

- O <u>RISK MANAGEMENT</u>'s implicit assumptions
 - "What gets measured, gets managed."
 - "Statistical relationships can be ascertained."
 - "Human behaviours are essentially governed by reliable, decipherable mechanisms."
- O <u>IMMUNITY BUILDING</u>'s explicit cognitions
 - "There's a limit to our knowledge, incompleteness to our handles on reality and interacting factors."
 - "By all means, diversify, hedge, buffer, insure (pre-arranged protection/rescue mechanism), but also safeguard yourself against failure of all said mechanisms."
 - "IMMUNISATION works alongside MODERATION and REASON-ABLE-NESS."





RISK MANAGEMENT & SUSTAINABLE VALUES



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SUSTAINABILITY as SCIENCE & ENGINEERING

- SUSTAINABILITY = {LONGEVITY; RENEWABILITY; SCALABILITY}
- SCIENCE addresses:
 - O LONGEVITY in terms of thermodynamic decay, fidelity of replication ...
 - RENEWABILITY in terms of material resource/energy flow cycles, generation/accumulation/dissipation of by-products ...
 - O SCALABILITY in terms of system dynamics, environmental feedbacks ...
- <u>ENGINEERING</u> addresses:
 - O LONGEVITY in terms of strength vs. stress & strain, risk mitigation, operational lifetime/margin/history, testing/maintenance cycles ...
 - RENEWABILITY in terms of cost of production vs. recycling vs. reusing ...
 - O SCALABILITY in terms of nonlinearity of factor interactions, hard limits ...





RISK MANAGEMENT undermines SUSTAINABILITY?

- O Let's take the so-called "consumption gap" problem
 - If RISK = on a macroeconomic scale, consumption (demand) hasn't kept pace with production (supply),
 - then MITIGATION = let's boost consumer spending ... really!?
- O Let's take the so-called "aging society" problem
 - If RISK = baby boomers' consumption can't be met by their grand children's production,
 - then MITIGATION = let's make more babies ... really!?





SUSTAINABLE VALUF for COMPANIES?





What is {Sustainable {Value}}?

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○ {<u>VALUE</u>} = "We value <...>"
```

- {Sustainable Value} = "Our values are sustainable" ?
- {Sustainable Value} = "We value sustainable <...>
 over unsustainable <...>" ?
- \[
 \begin{aligned}
 \left\{ \text{SUSTAINABLE VALUE} \right\} &= \text{"We value sustainability} \\
 \left\{ \text{i.e. as mandate in/of itself} \right\} \text{above <...>" ?
 \end{aligned}
 \]





NEW GLOBAL GOALS:

CHALLENGES & OPPORTUNITIES for BUSINESS

- The Moral Imperative = NEW GLOBAL GOALS
 - Development will happen; we need to make it a Sustainable one
 - Sufficiency Economy Philosophy furnishes the necessary SDG mindset/driver
- The Paradigm Shift = CHALLENGES for BUSINESS
 - Got to ditch the binary for-Profit-versus-for-Charity demarcation! And replace it w/ notion of Social Enterprise 'Spectrum of Purpose'
 - Got to ditch the Anglo-American/Friedman model of Mkt. Capitalism!
 And replace it w/ 'Social Impact Investing', 'Moral Capitalism', etc.
- The Game Changer = Opportunities for Business
 - Green Economy 1.0 clean production, minimal carbon footprint
 - Green Economy 1.5 innovating green solutions & technologies
 - O Green Economy 2.0 the very business of greening the planet





Public Enterprise 'Spectrum of Purpose'









THANK YOU!



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SUFFICIENCY ECONOMY PHILOSOPHY?





SUFFICIENT ECONOMY PHILOSOPHY

Introduced over the backdrop of collective humanity's semi-conscious march towards unsustainable future by His Majesty King Bhumibol Adulyadej of Thailand, Sufficiency Economy Philosophy (SEP) posits an alternative path. In a Sufficiency Economy, economic drives & decisions, processes & institutions, systems & dynamics are grounded upon the triple intersecting imperatives of Moderation, Reasonableness (Causal Nexus) and Immunity/Resilience. Here, Moderation may be thought of as a pragmatic embodiment of 'middle-path' thinking, albeit much, much more subtle and discriminating than the off-dangerous heuristics of finding the 'middle ground' between two polar opposites or extremes. Reasonableness embeds the very notion of causality or causal nexus between -actions and consequences, intended or otherwise. And Immunity/Resilience underlines the recognition that risks and systemic fragilities, financial or otherwise, often times cannot be managed exogenously ex post, but can and ought to be immunized against endogenously ex ante. Immunity is as much a programme as it is a phenomenon; and Resilience is as much a goal as it is an outcome.

Moreover, SEP insists on PRUDENCE vis-à-vis the application of knowledge to the planning and execution of enterprises, concomitant with INTEGRITY instilled and reinforced as moral foundation of the nation, as the paired requisite conditions by which such a SUFFICIENCY ECONOMY may achieve balanced prosperity, as well as be prepared for rapid material, social, environmental and cultural changes taking places globally.

In short, with Moderation, Reasonableness, and Immunity/Resilience, an Economy is said to be Sufficiency Economy, or abiding to the Sufficiency Economy principles. A Sufficiency Economy that operates with Prudence and Integrity is then on the path to Sustainable Development, that is, to prosper inclusively and sustainably.





SUFFICIENT ECONOMY PHILOSOPHY

"Sufficiency Economy" is a philosophy that stresses the middle path as an overriding principle for appropriate conduct by the populace at all levels. This applies to conduct starting from the level of the families, communities, as well as the level of nation in development and administration so as to modernize in line with the forces of globalization.

"Sufficiency" means moderation, reasonableness, and the need of selfimmunity mechanism for sufficient protection from impact arising from internal and
external changes. To achieve this, an application of knowledge with due
consideration and prudence is essential. In particular great care is needed in the
utilization of theories and methodologies for planning and implementation in every
step. At the same time, it is essential to strengthen the moral fibre of the nation, so
that everyone, particularly public officials, academic, businessmen at all levels,
adheres first and foremost to the principle of honesty and integrity. In addition, a way
of life based on patience, perseverance, diligence, wisdom and prudence is
indispensable to create balance and be able to cope appropriately with critical
challenges arising from extensive and rapid socioeconomic, environmental, and
cultural changes in the world."

<u>Box 1</u>: "Sufficiency" and "Sufficiency Economy" — **Dharmapiya, Priyanut (2004)**, "An Introductory Note on Sufficiency Economy", *ASEAN Economic Bulletin* (renamed: *Journal of Southeast Asian Economies*), vol. 21, no. 1 (April).





SUFFICIENCY ECONOMY PHILOSOPHY

- OThe Triple Principles
 - Moderation (Middle Path) ความพอประมาณ
 - REASON-ABLE-NESS (CAUSAL NEXUS) ความมีเหตุผล



[from trenchant economy to sufficiency economy]

- **O**The Double Conditionalities
 - PRUDENCE (WISDOM VIS-À-VIS APPLICATION OF KNOWLEDGE)
 ...ความรอบรู้ความรอบคอบและความระมัดระวังอย่างยิ่งในการนำวิชาการต่างๆมาใช้...
 - INTEGRITY (ETHICAL CHARACTER AS INSTILLED NATIONHOOD)
 ...พื้นฐานจิตใจของคนในชาติ...คุณธรรมความซื่อสัตย์สุจริต...ความอดทนความเพียร...

[from sufficiency economy to sustainable development]

Nacaskul, Poomjai (2016), "Sufficiency Economy Philosophy: Conceptual Background & Introduction"

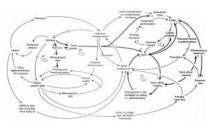
Social Science Research Network (Working Paper Series), [http://papers.ssrn.com/abstract=2625967]



SUFFICIENCY ECONOMY PHILOSOPHY

- OThe Triple Principles
 - MODERATION (MIDDLE PATH) ความพอประมาณ
 - Moderation ≈ Optimality ≠ Idleness
 - Middle Path \neq (Extreme #1 + Extreme #2) \div 2
 - Middle Path \neq (Good/Healthy + Evil/Destructive) \div 2
 - REASON-ABLE-NESS (CAUSAL NEXUS) ความมีเหตุผล
 - Problem = Effect ← Cause = Effect ← Cause ...
 - Cause ∈ {w/n 'Control'} ∪ {beyond 'Control'}
 - Moderation ⇒ Action Scope ≡ {w/n 'Control'}
 - RESILIENCE (IMMUNITY BUILDING) ความจำเป็นที่จะต้องมีระบบภูมิคุ้มกันในตัว
 - Resilience = 'Input' ≠ 'Outcome'
 - Immunity ← {'Survival'} ∪ {'Vaccination'}
 - How Immunity 'protect' Balance (
 Moderation)







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SUFFICIENCY ECONOMY PHILOSOPHY

- The Double Conditionalities
 - Prudence (Wisdom vis-à-vis Application of Knowledge) ...ความรอบรู้ความรอบคอบและความระมัดระวังอย่างยิ่งในการนำวิชาการต่างๆมาใช้...
 - "Give a small boy a hammer, and he will find that everything he encounters needs pounding." - Abraham Kaplan (1964), The Conduct of Inquiry: Methodology for Behavioral Science.
 - "I suppose it is tempting, if the only tool you have is a hammer, to treat everything as if it were a nail." - Abraham Maslow (1966), The Psychology of Science.
 - ☐ INTEGRITY (ETHICAL CHARACTER AS INSTILLED NATIONHOOD) ...พื้นฐานจิตใจของคนในชาติ...คุณธรรมความซื่อสัตย์สุจริต...ความอดทนความเพียร...
 - 'Honesty the Best Policy' Sir Edwin Sandys (1599), Europae Speculum.
 - 'Patience is a Virtue' Prudentius (5th cent. AD), Psychomachia.





Nacaskul, Poomjai (2016), "Sufficiency Economy Philosophy: Conceptual Background & Introduction"

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SEP for SDGs?





SUFFICIENT ECONOMY PHILOSOPHY

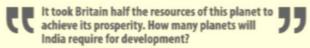
SUSTAINABLE DEVELOPMENT Time for a truly Global Dialogue



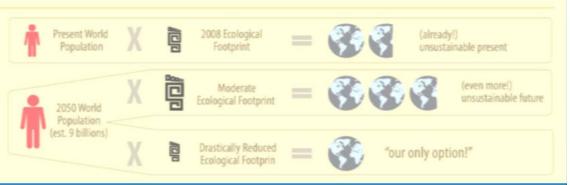
"Sufficiency Economy Philosophy instills the imperative policy mindset integral to mankind's Developmental path toward Economic, Environmental, Social and Cultural Sustainability."* Knowledge Ethics



Mahatma Gandhi



Clearly, our ultimate goal must not be for the burgeoning population in the developing world to attain the affluent, yet wasteful and exhaustive, standard of living of the industrialised West.



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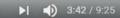




'SDG4SDG' on YouTube

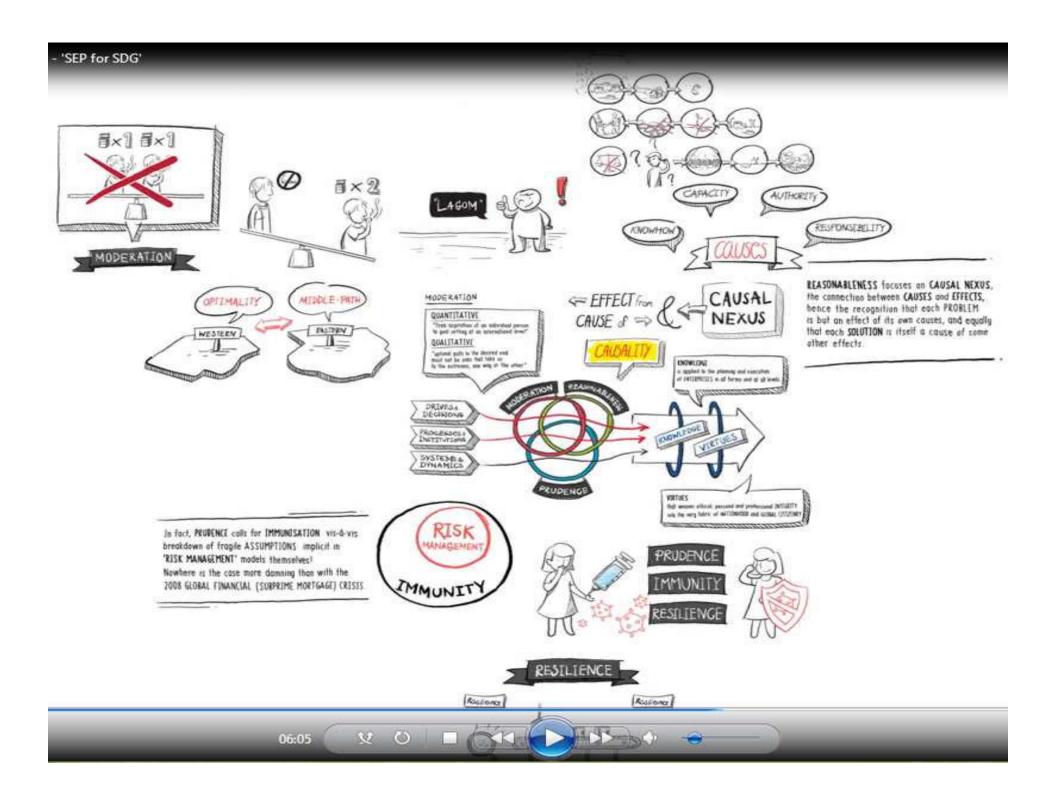
www.youtube.com/watch?v=2xDeO6N4uzc & www.youtube.com/watch?v=dOTdnPBjHTE

SDG, SEP & Thailand Sustainable Development Foundation · Reasonableness Wooderation. Knowlegde Virtues Good decision-making **Economic policymaking** Prudence Developmental programmes planning







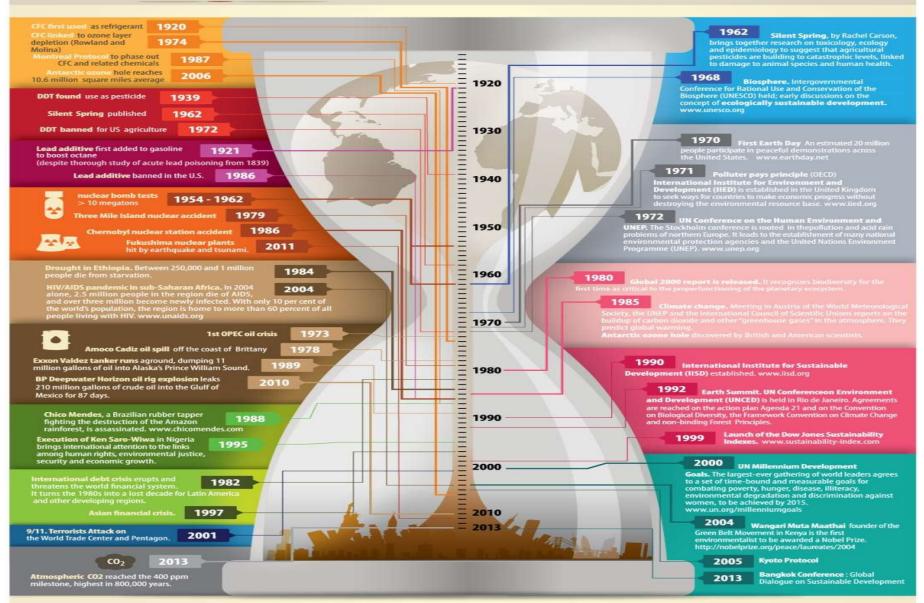




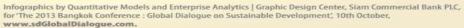


SUSTAINABLE DEVELOPMENT GOALS?

Sustainable Development T | M E L | N E*









SUSTAINABLE DEVELOPMENT Time for a truly Global Dialogue



"Sufficiency Economy Philosophy instills the imperative policy mindset integral to mankind's Developmental path toward Economic, Environmental, Social and Cultural Sustainability."*



Environmental Sustainability Social Equity Cultural Preservation

Sustainable Development

Mahatma Gandhi

It took Britain half the resources of this planet to achieve its prosperity. How many planets will achieve its prosperity. How many planets will India require for development?

Clearly, our ultimate goal must not be for the burgeoning population in the developing world to attain the affluent, yet wasteful and exhaustive, standard of living of the industrialised West.





Fresh Water fresh water resources accounted only

11% Over 9.087 billion m3 per year global water footprint. 74% of water used for agricultural production, 15% required to delute pollutions released in production

2.7 billion people around the world live in catchments that experimce severe water scarcity for at least one month a year.



Living Planet

74% Atlantic cod has decline over the past 50 years. Ocean acidity has increased by 30% since the industrial



Northern bluefin tuna, Western Atlantic Ocean Unsustainable levels of fishing have caused a catastrophic decline in this population since the 1970s. In 2003 32% of stocks had collapsed, 39% were overfished. The remaining 29% were at teh limit of



Glacier -12m.

Is the mean cumulative mass loss of glaciers from 1980 -2008 reporting mass balance to the World Glacier Moitoring Service.



Global bee population decline inhed to man-made associacies. Yet mankind's food security quite literally counts on there being enough bees to pollinate our crops. As Albert Einstein once astutely commented: "If the bee disappeared off the face of the earth, man would only have four years left to live."

Conflicts & Wars



75% of global use of wood fuel. Million of tones of charcoal production to net deforestation

Oil Reserves 41 YEARS

Is time left with oil, if we continue at the current rate of consumtion and the current reserves of crude oil.

Urbanization

Corruption

70% or o

Carbon Footprint

2billion

2 billion

Pollutants 400 million metric tones of hazardous wastes are generated each year.¹

6% of the world's

Population

ver **140**

40%

International Inequality



Greenhouse Gases



Infographics by Quantitative Models and **Enterprise Analytics** Graphic Design Center, Siam Commercial Bank PLC, for 'The 2013 Bangkok Conference - Global Dialogue on Sustainable Development', 10th October, www.sdGlobalDialogue.com.







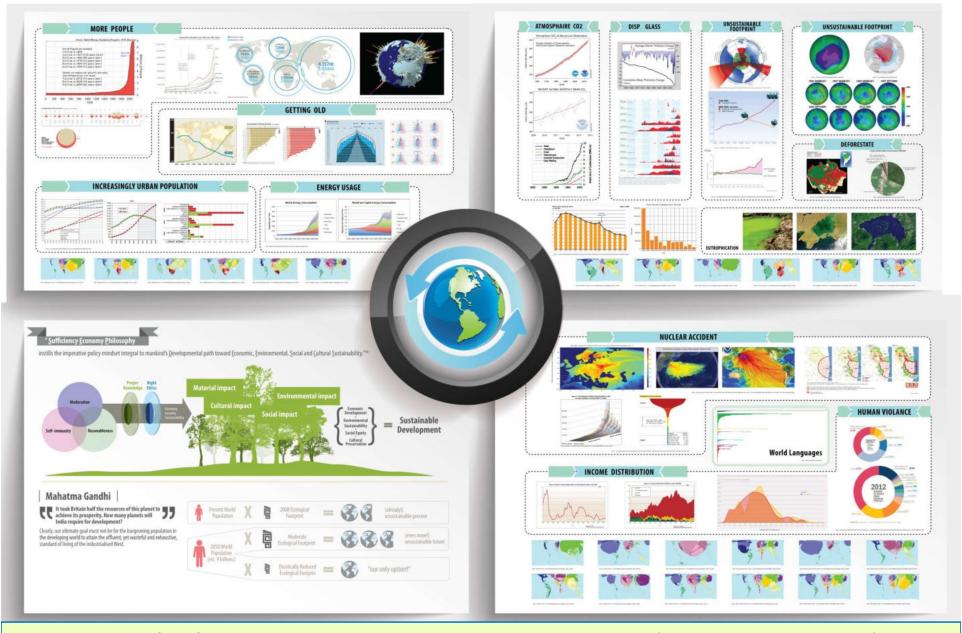








* Nacaskol, Poormai (2013), "Sustainable Development – Calling for Policy Analytics and (Wittg



Nacaskul, Poomjai (2013), "Sustainable Development – Calling for Policy Analytics and (Wittgensteinian Turn Towards)

Economics of Moderation" # 2013 Bangkok Conference – Global Dialogue on Sustainable Development, October, 10th,

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Goals



1: Poverty



2: Food



3: Health



4: Education



5: Women



6: Water



7: Energy



8: Economy



9: Infrastructure



10: Inequality



11: Cities



12: Sustainable Production



13: Climate



14: Oceans



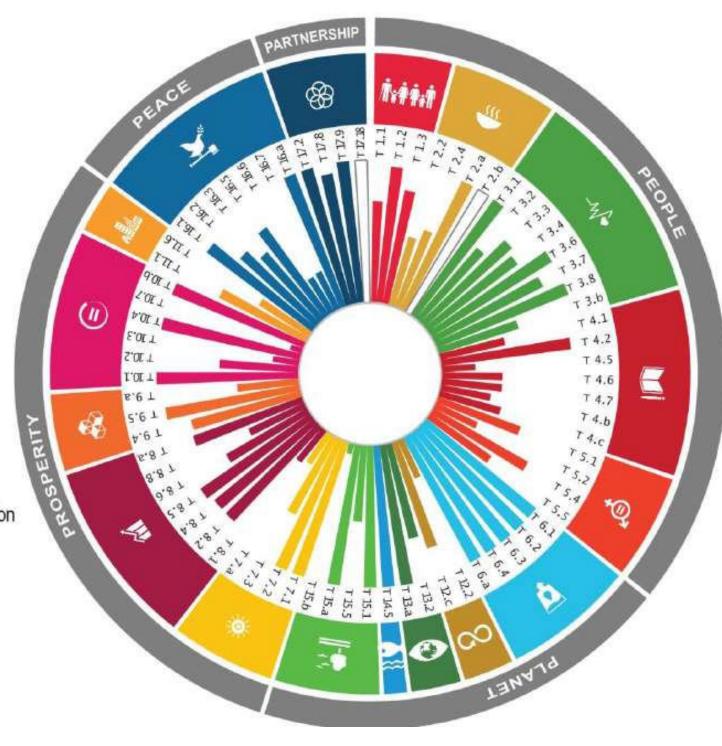
15: Biodiversity



16: Institutions



17: Implementation







(4 Takes on) Interpreting "Sustainable Development"

- Environmentally sustainable, Socially equitable & Culturally viable Economic development GOALS
- Economic development <u>Programme</u> which itself is sustainable, i.e. self-sustaining, taking into account all relevant <u>Environmental</u>, <u>Social</u> & <u>Cultural</u> factors
- Economics as the <u>ART & SCIENCE</u> of Environmental sustainability, Social equity & Cultural integrity, especially vis-à-vis developmental process
- developmental <u>Paradigm</u> with an overriding insistence on sustainability, thus the pursuit of <u>Economic</u> development, <u>Environmental</u> sustainability, Social equity & <u>Cultural</u> integrity

Nacaskul, Poomjai (2013), "Sustainable Development – Calling for Policy Analytics and (Wittgensteinian Turn Towards)

Economics of Moderation" # 2013 Bangkok Conference – Global Dialogue on Sustainable Development, October, 10th,

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(Official Take) Interpreting "Sustainable Development"

- "development that meets the needs of the present without compromising the ability of future generations to meet their own needs"
 - Brundtland Report (1987)







(Round 1) Rethinking "Development"

- 1st paradigm shift = from thinking of development as a natural process/pre-destination that every nation will eventually achieve at some stage to concluding that development has to be exogenously fostered (whether due to natural resource scarcity/depletion, colonial exploitation, post-colonial-era political vacuum and instability, globalisation/global trade-induced dependency, i.e. whatever the phenomenological explanation)
- Thus a compelling case, indeed global moral obligation, for North-South AID & ASSISTANCE
 Programmes, culminating in the eight Millennium Development Goals





(Round 2) Rethinking "Development"

- 2nd paradigm shift = from thinking of development as a deliberate, assisted, engineered process w/ controlled outcomes and predictable paces to reconciling divergent paths/paces/scales whilst anticipating the total planetary cost of development (small increase in per capita consumption x very large population base)
- Thus a compelling argument that achieving all seventeen <u>Sustainable Development Goals</u> calls for no less than wholesale change in <u>Humankind's Mindset</u>—i.e. from <u>Economics of Exploitation</u> to <u>Economics of Moderation</u>—encapsulated as <u>Global Guidance & Governance</u> Principles





Thinking Big on "Development"

- "We will not enjoy security without development, we will not enjoy development without security, and we will not enjoy either without respect for human rights"
 - Kofi Annan (2005)

