The System of Accounts for Global Entropy Production, (SAGE-P), the accounts of the Low Entropy Fund (LEF) available for Human Consumption in the Ecosphere, [Sociosphere, (Ecosphere)]

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a philosophical position where the trumping characteristic is tolerance towards the other points of view, theories, methodologies, values and so on. That tolerance is not an act of kindness, it is motivated by skepticism and honesty.

A Monist Social Scientific theory is one which presents one body of truths in: points of view, methodology, objects of study and so on. A monist view of a theory is motivated by a belief in a rigid set of ‘rational’ responses to change in the Ecosphere/Sociosphere/Econosphere, and in the efficacy of regression analysis to obtain evidence of causal relationships in (linear) statistical systems.
It is scarcely necessary to remark that a stationary condition of capital and population implies no stationary state of human improvement. There would be as much scope as ever for all kinds of mental culture, and moral and social progress; as much room for improving the Art of Living, and much more likelihood of its being improved, when minds ceased to be engrossed by the art of getting on.
The annual labour of every nation is the fund which originally supplies it with all the necessaries and conveniences of life which it annually consumes, and which consists always either in immediate produce of that labour, or what is purchased with that produce from other nations. (Adam Smith, 1775, *The Inquiry into the Nature and Causes of the Wealth of Nations*).
Neoclassical thought assumes ...the transition from an objective to a subjective approach [and] brought about a major change in the relationship between economic analysis and its sociological antecedents. In nearly all classical literature, economic analysis was allied with an historical view of the structure of society which underlay the whole economic process. In its place was put a view of society as an agglomeration of individuals. The subjective theory of value is only compatible with an individualistic view of society..."

Eric Roll, History of Economic Thought, 1956
THE RIO DECLARATION
Written in the Three Gunas

A. BE CONSTITUTED AS A GLOBAL RIGHT OF EACH INDIVIDUAL OF THE PLANET;

B. BE WRITTEN IN THE LANGUAGE OF THE SECOND LAW OF THERMODYNAMICS;

C. BE DIRECTIONAL TOWARDS THE QUALITIES OF SATTVA, VIA RAJASIC POLICES & AVOIDANCE OF UNINTENTIONAL TAMASIC OUTCOMES.

The significant fact for the economist is that the new science of thermodynamics began as a physics of economic value and, basically, can still be regarded as such. The Entropy Law itself emerges as the most economic in nature of all natural laws.
Sattva
the quality of balance, harmony, goodness, purity, universalising, holistic, constructive, creative, building, positive, peaceful, virtuous.

Rajas
the quality of passion, activity, neither good nor bad and sometimes either, self centeredness, egoistic, individualising, driven, moving, dynamic.

Tamas
the quality of imbalance, disorder, chaos, anxiety, impure, destructive, delusion, negative, dull or inactive, apathy, inertia or lethargy, violent, vicious, ignorant.
Sattvic
a set of properties in any well-defined object and/or function that strive towards the minimum rate of entropy production per unit of consumption of economic, social and ecological goods and services.

Rajastic
a set of properties in any well-defined object and/or function that strive towards the mean average rate of entropy production per unit of consumption for economic, social and ecological goods and services.

Tamastic
a set of properties in any well-defined object and/or function that strive towards the maximum rate of entropy production per unit of consumption for economic, social and ecological goods and services.
Age of analogue statistics (i.e., surveys & the Census) the boundary conditions of objects/functions are predetermined by the statistician.

Age of digital statistics (i.e., computer databases, satellite imagery etc.,) the analyst determines the boundary conditions consistent with the objective criteria.
INFLOW = PRODUCTION, (P)

OUTFLOW = CONSUMPTION (C)

&

STOCK = CAPITAL (K)

\[ P - C = \Delta K \]

steady-state, \( p \ (t+n) = c \)

deficit-state, \( p \ (t+n) < c \)

surplus-state, \( p \ (t+n) > c \)
Figure 1: Pluralism of Values

Objects/Functions:
- Exchange-value
- Use-value
- Existential-value

Ecosystem services:
- Participation

Business & Trade:
- Objects/Function
  - Exchange-value (prices)
  - Exchange-value & Use-value
  - Use-value & Existential-value

Households, Institutions & Governments:
- Objects/Functions
  - Use-value (participation)

Ecosystems & Homo sapiens:
- Objects/Functions
  - Existential-value (ecosystem services)
Physical/Abstract and Object /Function Correspondence Mapping of Entropy Production

Set of Physical Objects in space-time

Set of Abstract Objects in time

Set of Physical Functions in space-time

Set of Abstract Functions in time
Valuation Protocols of the Physical Low Entropy Fund, (LEF)

Physical Object inflow

- Ecosphere
  - Biological/Material Production
- Sociosphere
  - Social/Material Production
- Econosphere
  - Economic/Material Production

Physical Object outflow

- Ecosphere
  - Biological Consumption
- Sociosphere
  - Social Consumption
- Econosphere
  - Economic Consumption

Conserved Values in Objects/Functions

Existential

Use

Exchange
Valuation Protocols of the (human) interactive participation with abstract objects/functions in the Low Entropy Fund, (LEF)

Abstract Object inflow
intermediate products

knowledge creation

social/institutional services produced

services produced in the market

Existential

Abstract Object outflow
final products

knowledge participation

social/institutional services consumed

services consumed in the market

Conserved Values in Objects/Functions
The Values of Objects & Functions in the Econosphere are Conserved- in-Exchange
The Values of Objects & Functions in the Sociosphere are Conserved-in-Use
The Values of Objects & Functions in the Ecosphere are Conserved- in-Themselves (existencs value)
Production → Low Entropy Fund → Consumption

Solar Energy inflow

Heat Dissipation outflow

Ecosphere

Socioosphere

Econosphere

Inflow

Outflow

Production economic goods & services
Production social goods & services
Production ecological goods & services

Consumption economic goods & services
Consumption social goods & services
Consumption ecological goods & services

Economic LEF
Social LEF
Ecological LEF