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## THE PHYSICALITY OF MONETARY AGENCY

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0: Is economics meta-physics with money? The mainstream economics profession seems to believe in a super-naturalist omnipotence of money as the key market mechanism of the body economic. The following methodical thoughts shall help to clarify the real nature or physicality of money in our current and dual system of private bank credit/interest money (liquidity emission/expansion) and public authority fiat control (planning agency).

1: The systemic behavior of gradual monetary excess increases the progressive and exponential need for energy (via natural resources) and causes physically the (global) temporal acceleration of economic wave frequencies and lengths, due to a lack of a narrow reserve requirement for balancing savings and investments (payments).

**2:  $l=f(x/r)$**

( $l$ =wave-length;  $f$ =liquidity frequency;  $x$ =monetary volume;  $r$ =reserve requirement/on demand deposits);  $l$  is quantitatively proportional to  $f$ , the greater  $x$  in wave, the higher is  $f$ .

**3:  $p=t(x/e)$**

( $p$ =production;  $t$ =time;  $x$ =monetary volume;  $e$ =energy); the temporal ( $t$ ) acceleration of  $p$  (e.g. machine operating time) is a result of  $x$  in demand for  $e$ .

4: Please do remember that  $p$  is only finalized via logistics and customer payment (cybernetic circuit).

5: The decisive question arises where the behavioral inter-section of  $l$  and  $p$  is located in the body economic and how it operates?

6: As we cannot pull back economic systems evolution and current monetary agency, we have to think about introducing narrow reserve banking; this has actually to do with values, principles and laws of economic behavior; concerning money, neither a collectivization nor a privatization of the financial system will work to reduce the 'economic heat'.

7: Money ( $m$ ) is physical access to energy, drives the temporal length ( $l$ ) of economic production ( $p$ ) cycles and determines the 'heat' of the human economy; as a consequence, the application of narrow reserve banking will make the financial system more boring, but at the same time more stable/sustainable.

8: The way to an ethical market economy is bound to re-defining the societal role of banking & money in legal terms; as long as access to natural energy resources is limited (despite all human ingenuity), we will need money to work the body economic.

9: Money is not a super-natural force, but it acts in real economic practice as a measurement unit for natural and human energy resources via payments.

10: As a practical result, monetary units should be related economically to a natural index of clean energy.



