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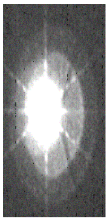
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The Global Human Security Problem: Mathematical Derivation

Salim Maloof

31 May, 2005

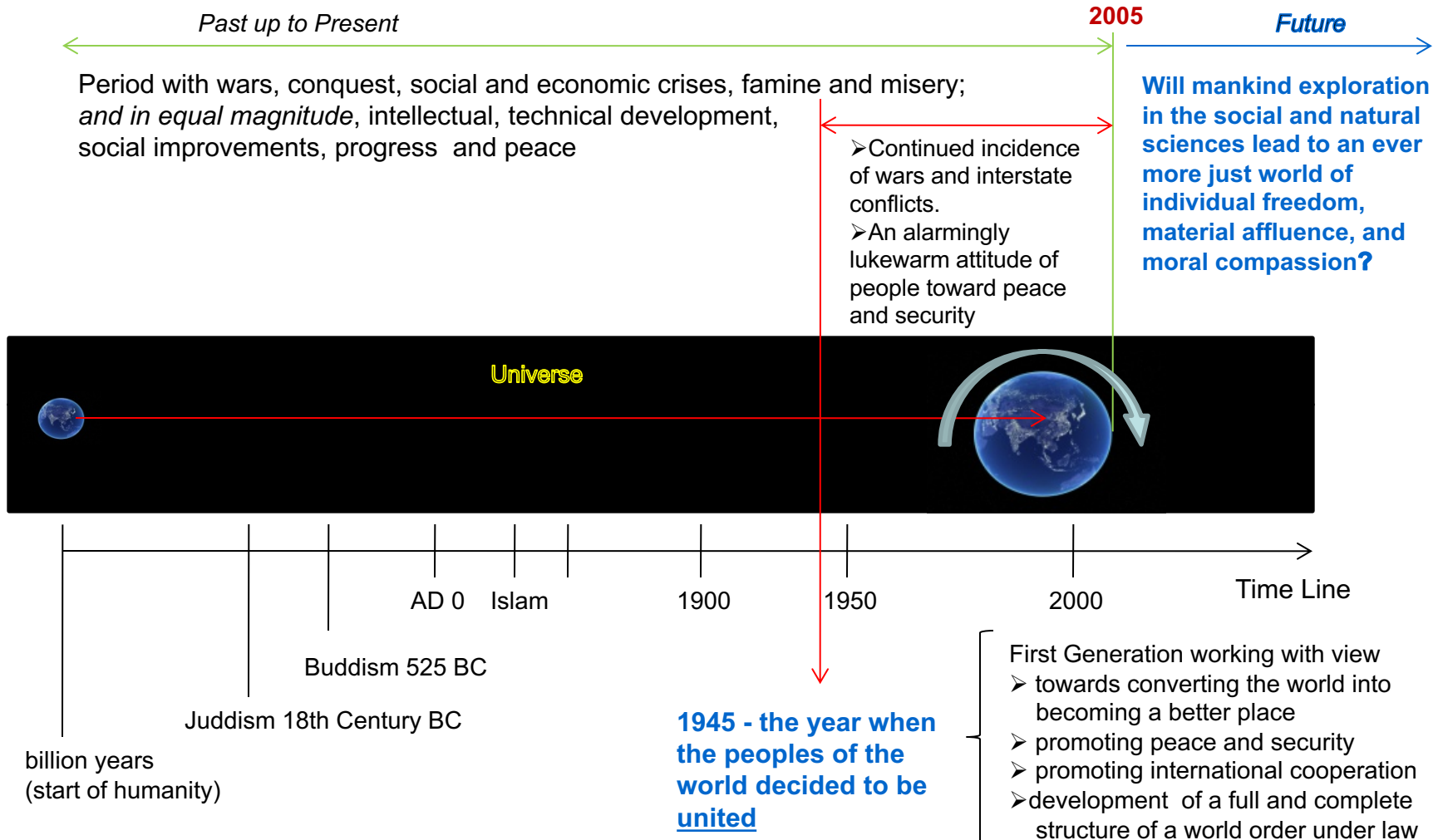


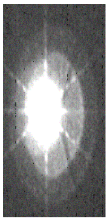
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The Situation of Global Human Security



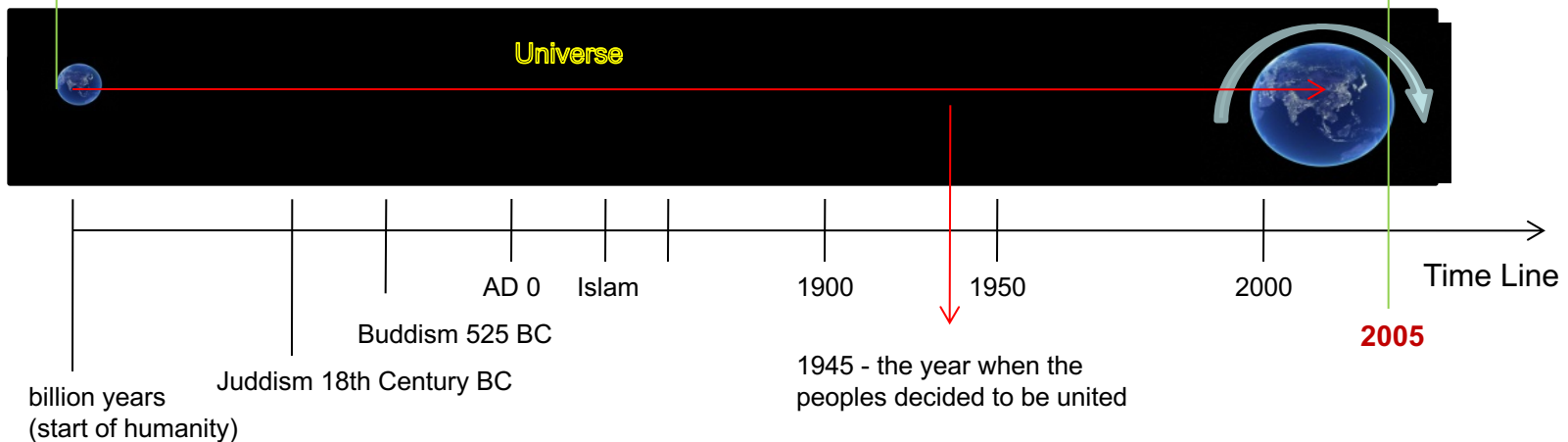
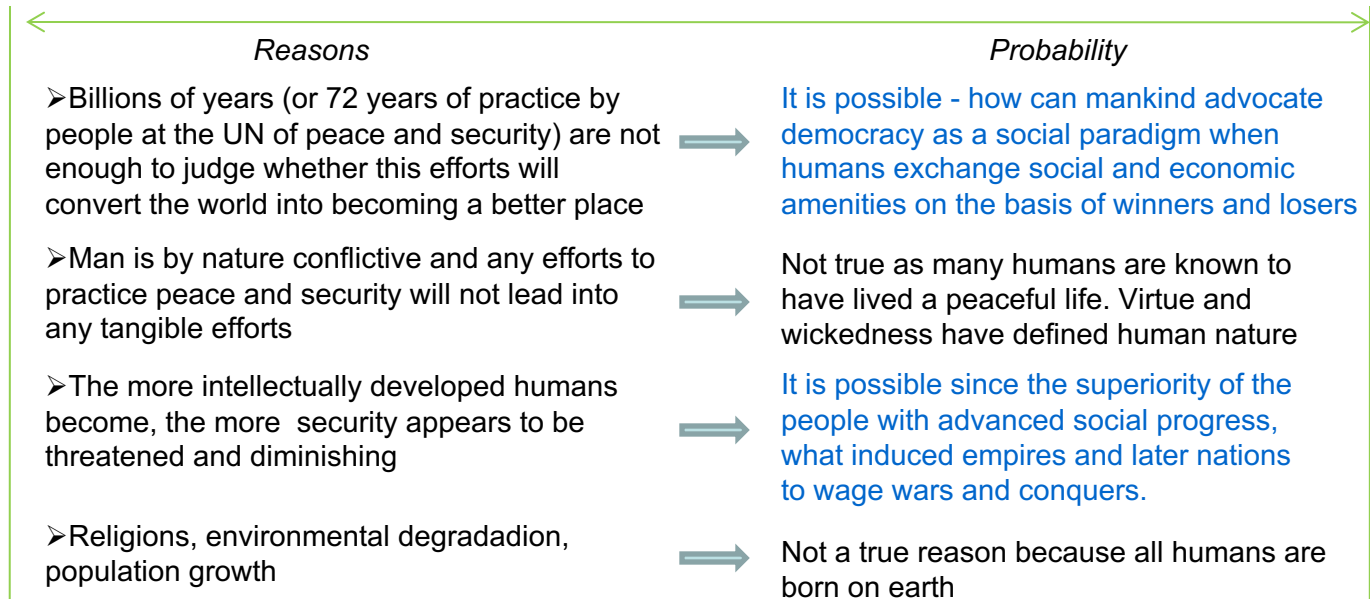


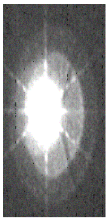
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Reasons Underlying the existence of a Global Human Security Problem



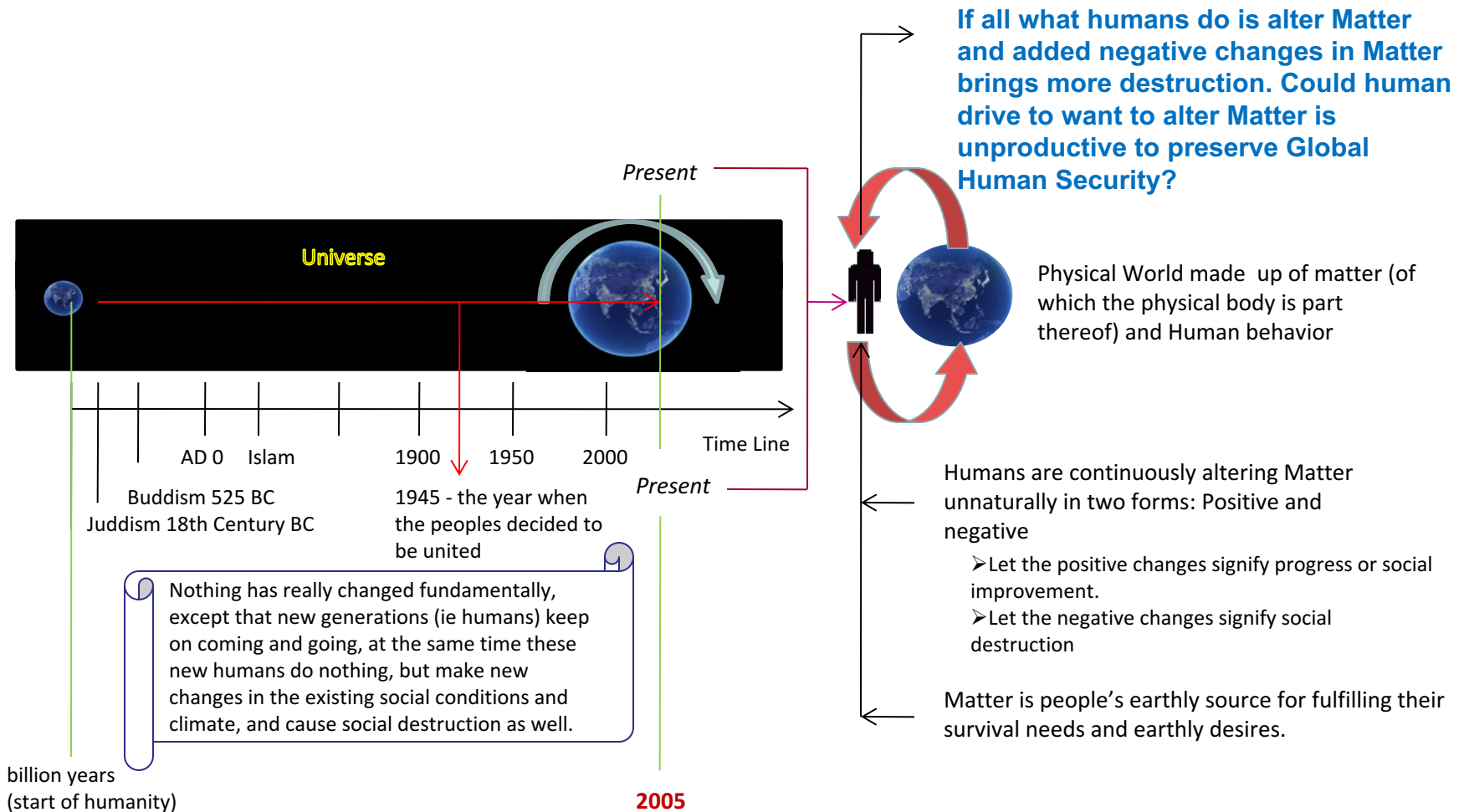


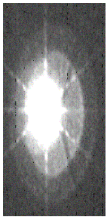
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Human Centered Practices Impacting Global Human Security





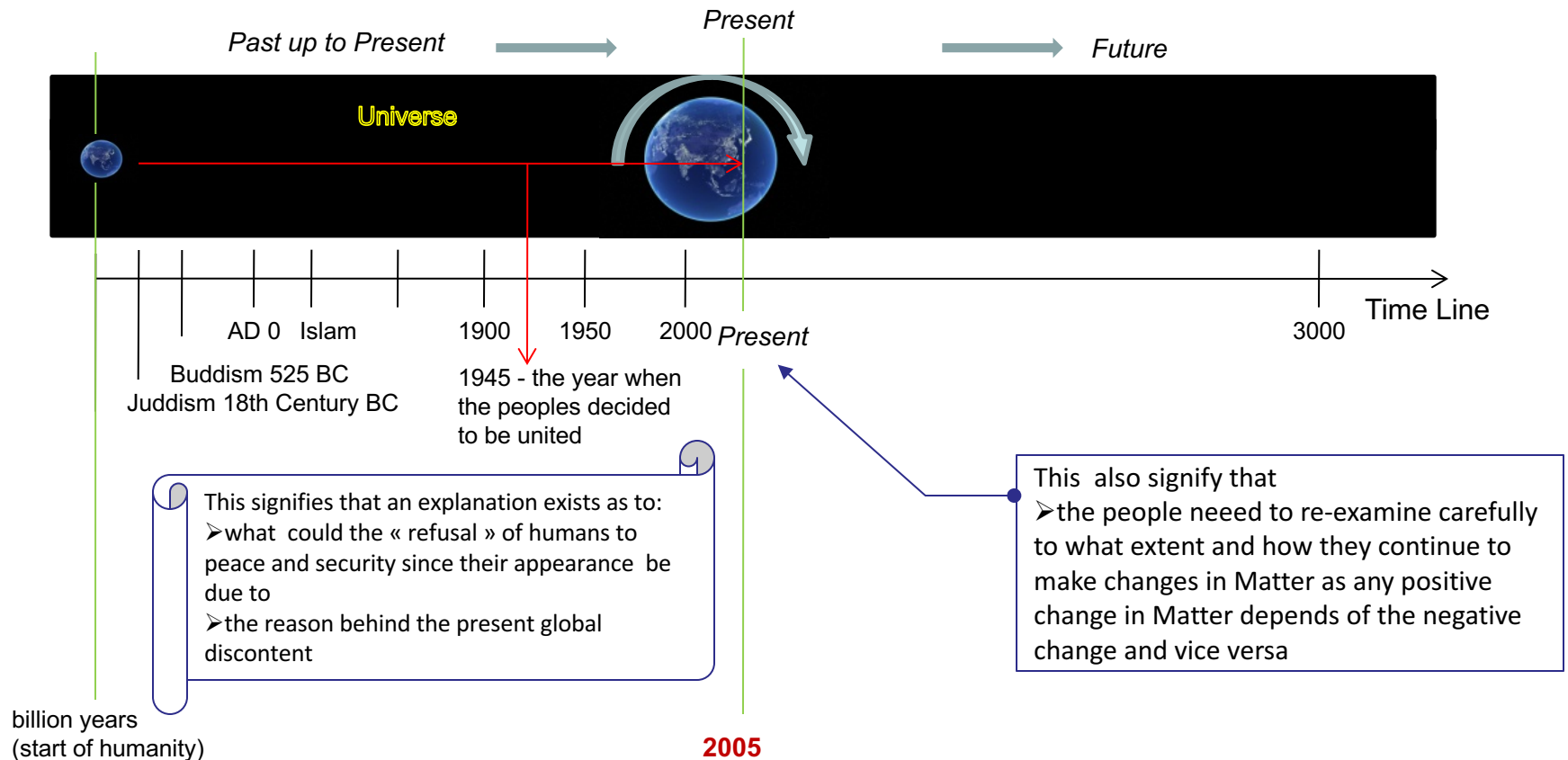
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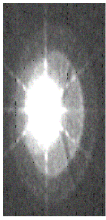
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Objective of Study

If we can support that mankind curiosity to alter matter is unproductive to preserve Global Human Security, This shall signify that in the Present: A Global Human Security Problem exists

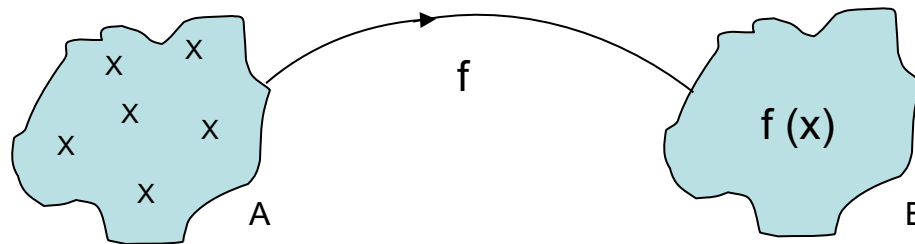




Method of study

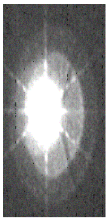
Let us try to study the impact of the changes that **Matter continuously undergo on its own (and the accelerated unnatural changes that man inflict on Matter)** on Human Security (HS) using mathematics - a scientific tool available to man to describe physical changes (other forms are depicted in spiritual and theological scriptures)

“A function is a relation that assigns to each element in a set A, at maximum one element in a set B”



“The element that f associates with x is denoted by $f(x)$.”

We are using the “function” to study the impact of the positive changes (or accelerated changes) that man subjects Matter to undergo or the purpose of sustaining human survival needs and satisfying earthly desires – what is defined as Progress or Social Improvement. We are not interested on the impact of the negative changes that Matter continuously undergo on its own or even the one imposed by man (ie negative social destruction on HS) as increased negative changes leads to more negative changes

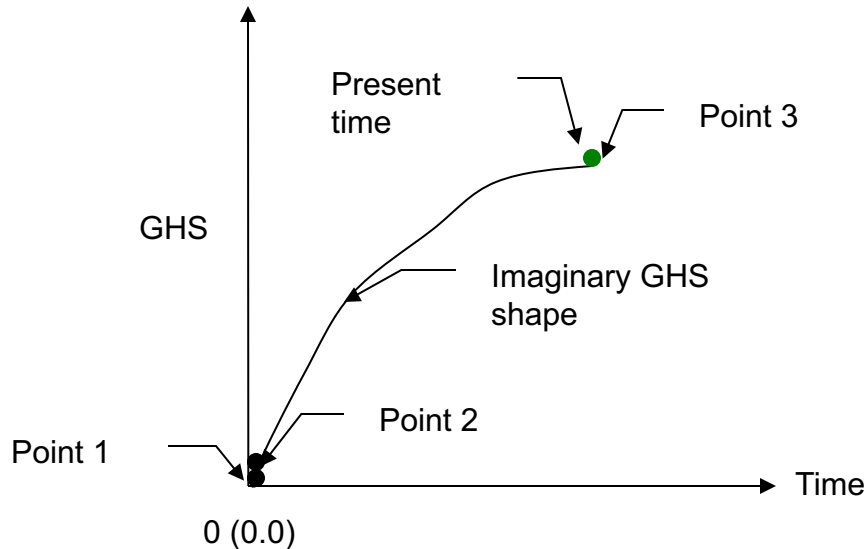


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The Global Human Security function



Let us define Global Human Security in mathematical form as

$$GHS = f(x)$$

where

x = every natural species including plants, fresh water, mountains, salt water, vegetation, fruit trees, grains, fishes, and birds, plus man and all his/her intellectual creations that he or she has brought about on the planet throughout the ages up to now (from the simplest paper clip to the space shuttle, discoveries, etc....).

At point 1 (time = 0 humans)

Matter changing naturally

$$GHS = 0 = j(x) + MTO$$

Where

$j(x)$ = water, food and air

MTO = material of terrestrial origin

At point 2 (time = 1 human)

Matter changing naturally and unnaturally due to man

$$GHS = j(x) + MTO + \sum PB_{man} + \sum HB_{man} + SI_{man} + SD_{man}$$

Where

PB_{man} = Physical Body of man

HB_{man} = Human Behavior of man

SI_{man} = Social Improvement of man or modifications made to alter positive changes in Matter

SD_{man} = Social Destruction of man or negative modifications made to alter negative changes in Matter

At point 3 (time = year 2006 and more than 6 billion humans')

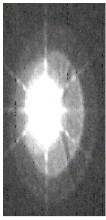
Matter changing naturally and unnaturally due to man

$$GHS = f(x) = j(x) + MTO + \sum PB_{man} + \sum HB_{man} + SI_{man} + SD_{man} + MMD + RND$$

Where

MMD = Man Made Disasters

RND = Recurrent Natural Disasters



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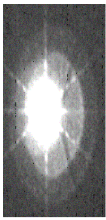
The Global Human Security Equation

We are unaware as to whether any investigator has previously expressed the problem of GHS in this way:

$$GHS = f(x) = j(x) + MTO + \sum PB_{man} + \sum HB_{man} + SI_{man} + SD_{man} + MMD + RND$$

or has given any analytical solution.

We will not attempt to give an analytical solution to this equation. However, [let us try to see how we can find a graphical solution.](#)

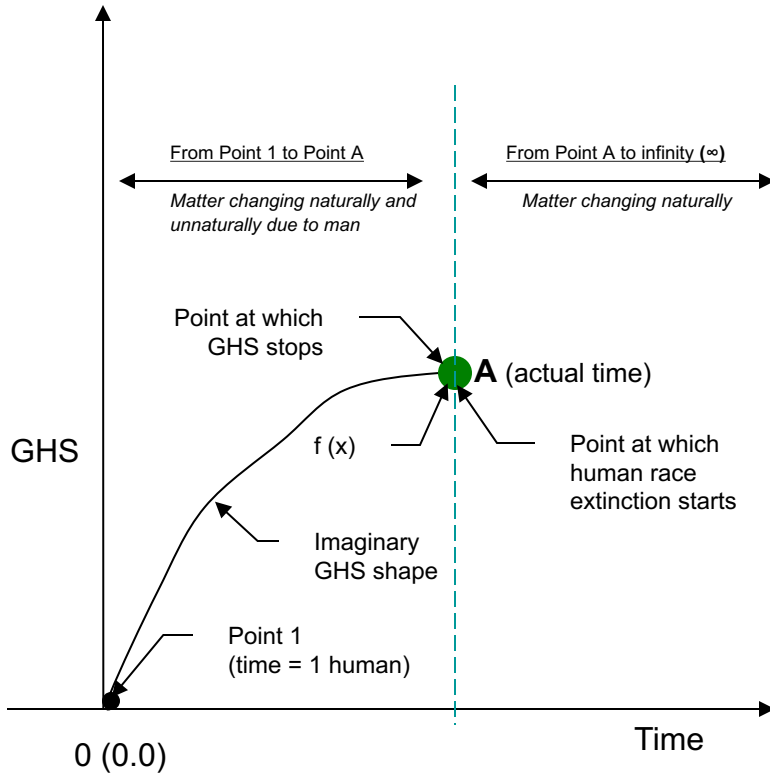


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Graphical Representation



1. From point 1 to point A

$GHS = f(x) = j(x) + MTO + \sum PB_{man} + \sum HB_{man} + SI_{man} + SD_{man} + MMD + RND$
 where

$j(x)$, MTO , $\sum PB_{man}$, $\sum HB_{man}$, SI_{man} or SD_{man} , MMD and RND are changing both naturally and unnaturally by man

2. At point A (actual time)

$$GHS_{man} = f(x) - HRE$$

3. From Point A to infinity (∞)

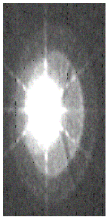
$HRE = f(x) = j(x) + MTO + \sum PB_{man} + \sum HB_{man} + SI_{man} + SD_{man} + MMD + RND$
 Where

- HRE = Human Race Extinction
- $j(x)$, MTO , $\sum PB_{man}$, SI_{man} , and RND are changing naturally only;
- $\sum HB_{man}$??? - no human is yet to define what happens to the HB after death
- SD_{man} and MMD becomes not existent

This signifies that at point A : $GHS_{man} = HRE = f(x) = f(x)$ Humans can make $SI = f(x)$ Humans cannot make $SI = SI_{man}$ or $SD_{man} = f(man)$

and we have:

$$GHS_{man} = HRE = f(x) = f(x) \text{ Humans can make } SI = f(x) \text{ Humans cannot make } SI = SI_{man} \text{ or } SD_{man} = f(man) = j(x) + MTO + \sum PB_{man} + \sum HB_{man} + SI_{man} + SD_{man} + MMD + RND$$



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SI_{man} and Crises and Conflicts (CC_{man})

Let us define Crises and Conflicts (CC) as being anything that upsets the natural world order and causes physical destruction.

Since humans have accumulated weapons of mass destruction and influenced natural disasters, consequently, we have

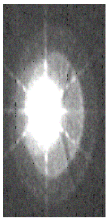
$$\text{HRE} = f(\text{CC}_{\text{man}}) = f(\text{man})$$

We arrive that at point A, we have

$$\text{GHS}_{\text{man}} = \text{HRE} = f(x) = f(x)_{\text{Humans can make SI}} - f(x)_{\text{Humans cannot make SI}} = \text{SI}_{\text{man}} \text{ or } \text{SD}_{\text{man}} = f(\text{man}) = \text{CC}_{\text{man}} = j(x) + \text{MTO} + \sum \text{PB}_{\text{man}} + \sum \text{HB}_{\text{man}} + \text{SI}_{\text{man}} + \text{SD}_{\text{man}} + \text{MMD} + \text{RND}$$

This signifies that at Point A

$$\text{CC}_{\text{man}} = f(\text{SI}_{\text{man}})$$



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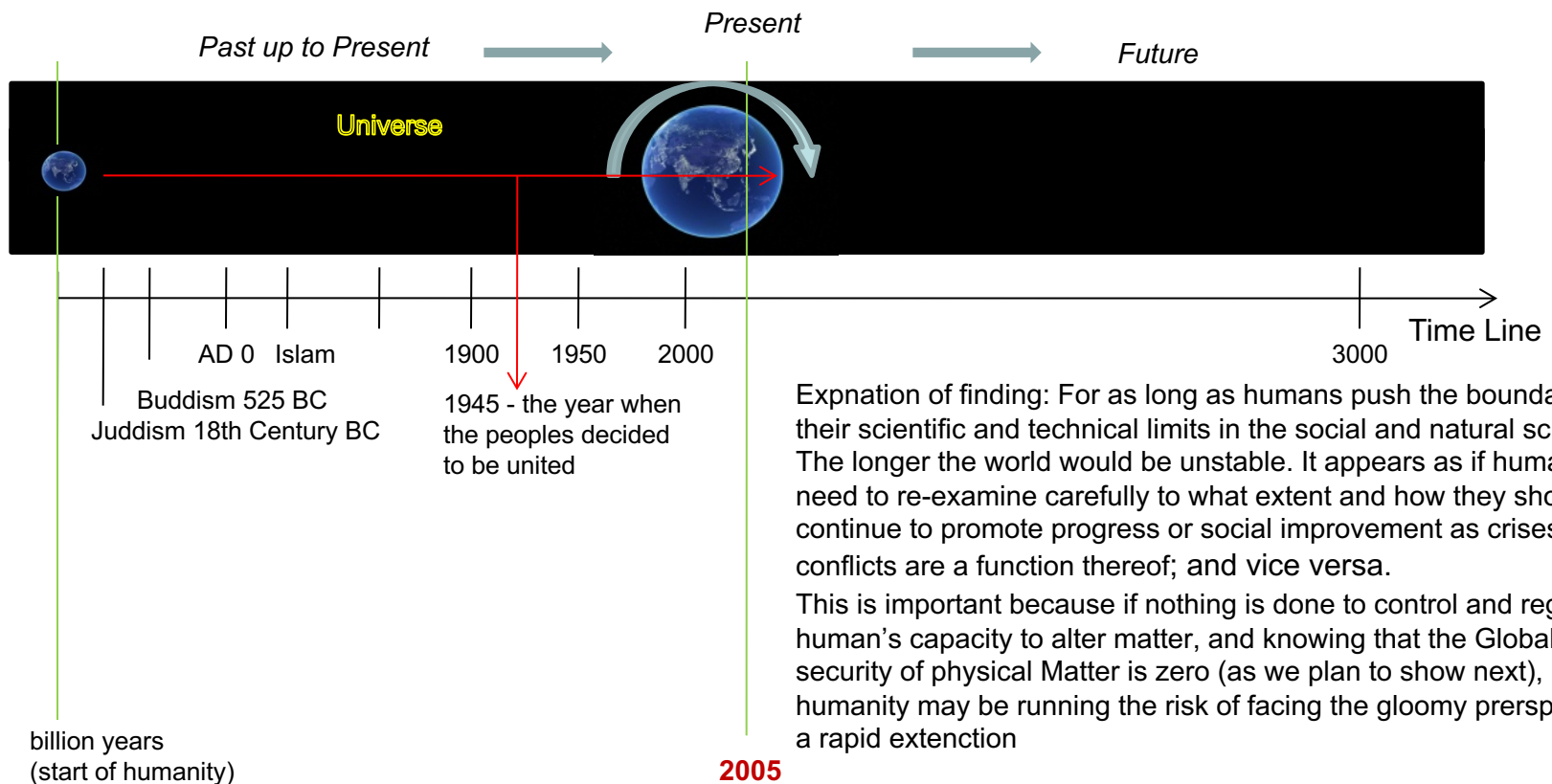
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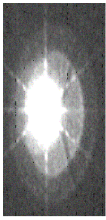
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Explanation of Finding

Based on the principles of Calculus – the tool used to describe physical changes in physical quantities – we can conclude that, the « positive » changes that Matter undergo is a function of the « negative » state that Matter is in its actual state at, and vice versa

This shall signify that in the Present: A Global Human Security Problem exists





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The Global Human Security of Man to the End

At point A, we have

$$\text{GHS}_{\text{man}} = f(x) \quad \text{and} \quad \text{GHS}_{\text{man}} = f(x) - \text{HRE}$$

However, since at point A, we also have

$$\text{GHS}_{\text{man}} = f(x) = \text{HRE}$$

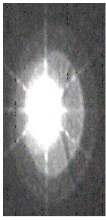
We arrive that at Point A, we have

$$\text{GHS}_{\text{man}} = 0$$

This signifies that at point A, we have

$$0 = \text{GHS}_{\text{man}} = \text{HRE} = f(x) = f(x)_{\text{Humans can make SI}} - f(x)_{\text{Humans cannot make SI}} = \text{SI}_{\text{man}} \text{ or } \text{SD}_{\text{man}} = f(\text{man}) = \text{CC}_{\text{man}} \\ = j(x) + \text{MTO} + \sum \text{PB}_{\text{man}} + \sum \text{HB}_{\text{man}} + \text{SI}_{\text{man}} + \text{SD}_{\text{man}} + \text{MMD} + \text{RND}$$

This also signifies that no matter what humans will try to do to preserve Global Human Security, life on earth (i.e. matter and humans) will one day be equal to zero (i.e. will possibly end).



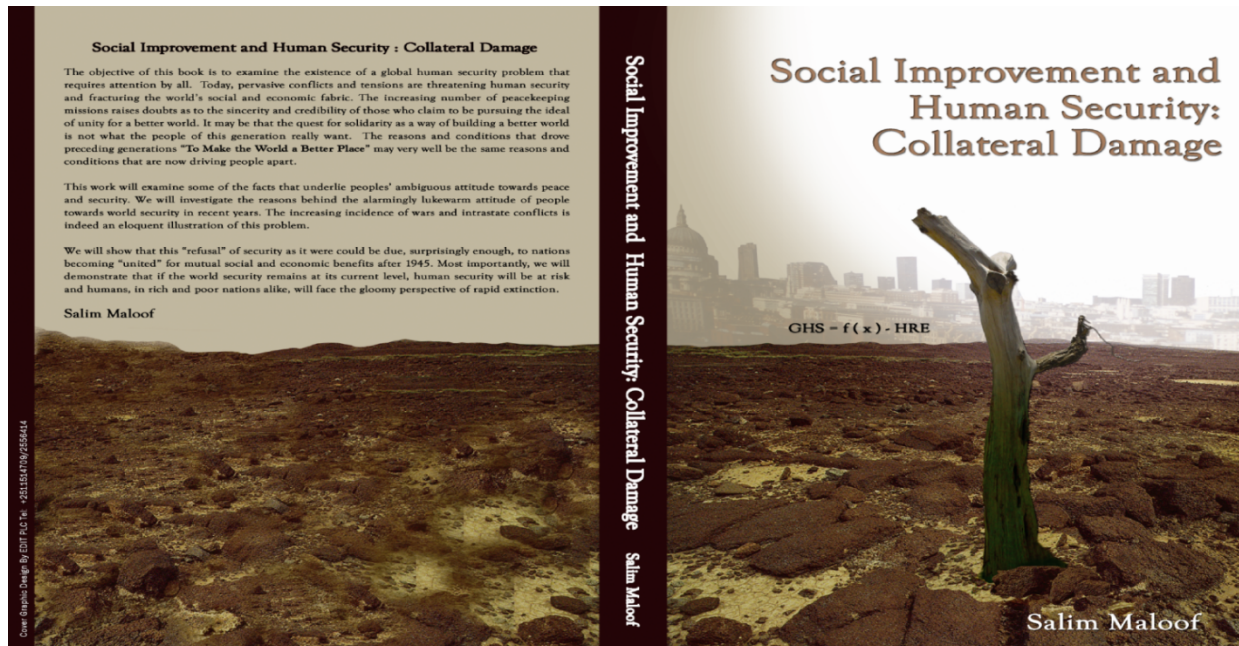
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Questions

This work was taken from Salim Maloof book titled
Social Improvement and Human Security: Collateral Damage



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